

Final Draft Report

Site Characterization Report Groundwater and Sediment Remediation

Occidental Chemical Corporation
Tacoma, Washington

Disclaimer – Please note, Conestoga-Rovers & Associates (CRA) changed its name to GHD Limited (GHD) on July 1, 2015. This document was originally submitted under the CRA name prior to this date. However, in the interest of continuity, the CRA name will remain on this document after July 1, 2015.

Conestoga-Rovers & Associates

285 Delaware Avenue, Suite 500
Buffalo, New York 14202

September 2015 • 007843 • Report No. 128

Table of Contents

		Page
Section 1.0	Introduction.....	1
1.1	Purpose and Scope of Report	1
1.2	Site Description	2
1.3	Property Ownership.....	3
1.4	Current Land Use	3
1.5	Historical OCC Operations	4
1.6	Other Historical Operations.....	8
1.7	Report Organization.....	10
 Section 2.0	 Summary of Investigations and Cleanup Actions.....	 10
2.1	Summary of Investigations	10
2.1.1	RCRA Facility Investigation (1988-1989)	11
2.1.2	Commencement Bay Nearshore/Tideflats Superfund Site (1993).....	11
2.1.3	PRI Preliminary Site Investigation (1994)	12
2.1.4	Hylebos Waterway Pre-Remedial Design Program (1994).....	12
2.1.5	PRI Source Identification Investigation (1994).....	13
2.1.6	PRI Soil and Groundwater Investigation (1995)	13
2.1.7	Embankment Investigation (1996).....	14
2.1.8	Embankment Area Investigation (1998)	14
2.1.9	Supplemental Embankment Investigation (1998).....	15
2.1.10	Rapid pH Assessment (2002-2004)	16
2.1.11	Area 5106 Post-Treatment Characterization (2003)	16
2.1.12	Preliminary Investigation and Assessment of Techniques – Groundwater Discharge to the Hylebos Waterway (2004).....	17
2.1.13	Supplemental Investigation (2004)	18
2.1.14	Area 5106 Slope Investigation (2004)	19
2.1.15	709/721 Alexander Avenue Investigation (2004)	19
2.1.16	Additional Supplemental Investigations (2005-2006).....	19
2.1.17	Subtidal/Hydraulic Investigation (2005-2006)	21
2.1.18	Geophysical Survey (2006).....	22
2.1.19	Focused Investigation of Dioxin/Furan and PCB Congeners (2006-2007)	22
2.1.20	Natural Attenuation Investigation (2006)	23
2.1.21	pH Pilot Study (2006-2010)	23
2.1.22	Production Well Investigation (2009-2010)	27
2.1.23	Comprehensive Supplemental Investigation (CSI) (2012-2014)	27
2.1.24	Extraction Well Pilot Test Investigation (2013-2014).....	28
2.1.25	Soil Vapor Intrusion Investigation (2013).....	29
2.2	Previous Cleanup Actions	30
2.2.1	TCE/PCE Process Closure.....	30

Table of Contents

	Page
2.2.2	Waste Management Units31
2.2.3	Groundwater Treatment and Containment System35
2.2.4	Area 5106 Removal Action36
2.2.5	Hylebos Waterway Cleanup Actions38
Section 3.0	Physical Characteristics 40
3.1	Climate 40
3.2	Regional and Site Physiography..... 40
3.2.1	Regional Physiography40
3.2.2	Site Physiography41
3.3	Regional and Site Hydrology 42
3.3.1	Regional Hydrology42
3.3.2	Site Hydrology43
3.4	Regional Geology and Hydrogeology..... 44
3.4.1	Regional Geology.....44
3.4.2	Regional Hydrogeology48
3.5	Site Geology 53
3.5.1	Overview of Site Geology53
3.5.2	3-D Stratigraphic Models.....55
3.5.3	Fill57
3.5.4	Deltaic Deposits.....58
3.5.5	Glacial Deposits59
3.5.6	Conceptual Site Geologic Model60
3.6	Site Hydrogeology 61
3.6.1	Overview of Site Hydrogeology.....61
3.6.2	Groundwater Flow Complexities.....62
3.6.2.1	Heterogeneous Stratigraphy62
3.6.2.2	Tidal Fluctuations62
3.6.2.3	Fresh Groundwater and Salt Water Distributions.....63
3.6.2.4	Anthropogenic Density Plume (ADP)66
3.6.2.5	Density-Dependent Groundwater Flow69
3.6.2.6	Regional Fresh Groundwater Inflow71
3.6.2.7	Mud Flats.....72
3.6.2.8	Zone of Apparent Confining Effect in Lower Deltaic Deposits74
3.6.3	Conceptual Site Model (CSM) of Hydrogeologic Conditions.....76
3.6.4	Hydraulic Monitoring and Testing.....80
3.6.4.1	Site-Wide Hydraulic Monitoring.....80
3.6.4.1.1	Events 1 and 2 Hydraulic Monitoring Results81
3.6.4.1.2	Events 3A and 3B Hydraulic Monitoring Results.....84
3.6.4.2	709/721 Alexander Avenue Hydraulic Monitoring91
3.6.4.3	Hydraulic Conductivity Testing.....91

Table of Contents

	Page
3.6.4.4	Groundwater/Surface Water Interaction.....94
3.7	Summary of Site Geology/Hydrogeology 97
Section 4.0	Nature and Extent of Contamination 100
4.1	Introduction 100
4.1.1	Objectives.....102
4.1.2	Data Used for Delineation.....102
4.1.3	Site Constituents of Concern.....103
4.2	Data Quality Assessment and Validation..... 103
4.3	Site Cleanup/Screening Levels 105
4.3.1	Groundwater Cleanup Standards.....105
4.3.2	Sediment Cleanup Standards106
4.3.3	Surface Water Cleanup Standards107
4.3.4	Soil Screening Criteria107
4.3.5	Porewater Screening Criteria108
4.3.6	CSI Soil and Groundwater Screening Criteria108
4.3.7	Soil Vapor Screening Criteria.....108
4.4	Soil..... 108
4.4.1	Unsaturated Soil.....109
4.4.1.1	Volatile Organic Compounds.....110
4.4.1.2	Semi-Volatile Organic Compounds.....111
4.4.1.3	Pesticides.....111
4.4.1.4	Polychlorinated Biphenyls.....112
4.4.1.5	Dioxins/Furans.....112
4.4.1.6	Metals.....112
4.4.1.7	pH113
4.4.2	Saturated Soil113
4.4.2.1	Volatile Organic Compounds.....115
4.4.2.2	Semi-Volatile Organic Compounds.....116
4.4.2.3	Pesticides.....117
4.4.2.4	Polychlorinated Biphenyls.....117
4.4.2.5	Dioxins/Furans.....118
4.4.2.6	Metals.....118
4.4.2.7	pH119
4.5	Groundwater..... 120
4.5.1	Volatile Organic Compounds.....120
4.5.2	Semi-Volatile Organic Compounds.....123
4.5.3	Pesticides.....124
4.5.4	Polychlorinated Biphenyls.....124
4.5.5	Dioxins/Furans.....125
4.5.6	Metals.....125

Table of Contents

		Page
4.5.7	pH	126
4.5.8	Temperature	127
4.6	Sediment	129
4.6.1	Volatile Organic Compounds.....	130
4.6.2	Semi-Volatile Organic Compounds.....	130
4.6.3	Pesticides.....	131
4.6.4	Polychlorinated Biphenyls.....	131
4.6.5	Dioxins/Furans.....	132
4.6.6	Metals.....	132
4.7	Soil Vapor/Indoor Air	133
4.7.1	Army Reserve Building	133
4.7.2	Building 326.....	133
4.7.3	Building 407.....	134
4.7.4	Building 532.....	134
4.7.5	Building 592.....	135
4.7.6	Building 595.....	135
4.7.7	Building 596.....	136
4.7.8	Guard Shack.....	136
4.7.9	OCC Office Building	136
4.8	VOC Source Zones	137
4.8.1	Assessment Methods	137
4.8.2	VOC Source Zone Extent.....	138
4.8.3	DNAPL Composition	140
4.8.4	Estimated DNAPL Mass	142
4.9	Groundwater/Surface Water Interface (Seeps).....	145
4.9.1	Subtidal Groundwater Discharge	146
4.9.2	Embankment Seeps.....	147
4.9.3	Milky Seeps.....	149
4.9.4	Leachate Discharge	151
4.10	Summary of Chemical Characterization	151
4.10.1	Unsaturated Soil.....	152
4.10.2	Saturated Soil	152
4.10.3	Groundwater	153
4.10.4	Sediment	154
4.10.5	Soil Vapor/Indoor Air.....	154
Section 5.0	Contaminant Fate and Transport	155
5.1	Introduction	155
5.2	Potential Sources of Contamination	155
5.2.1	VOC Potential Sources.....	156

Table of Contents

	Page
5.2.2	Caustic Potential Sources157
5.2.3	Salt Potential Sources.....157
5.2.4	Metals Potential Sources.....158
5.2.5	SVOC Potential Sources.....158
5.2.6	PCB and Dioxins/Furans Potential Sources159
5.2.7	Anthropogenic Density Plume Potential Sources161
5.3	Overview of Routes of Migration..... 161
5.4	Contaminant Transport Processes..... 163
5.4.1	DNAPL Migration.....163
5.4.2	Density-Dependent Flow.....164
5.4.3	Dissolution.....164
5.4.4	Advection/Dispersion.....165
5.4.5	Sorption.....166
5.4.5.1	Effect of Site Geochemical Conditions on Sorption of Organics166
5.4.5.2	Effect of Site Geochemical Conditions on Sorption of Metals168
5.4.6	Discharge to Surface Water.....172
5.4.7	Air-Water Partitioning.....172
5.5	Degradation 172
5.5.1	Biotic Degradation.....172
5.5.1.1	Biodegradability of Chlorinated Ethenes173
5.5.1.2	Biodegradability of Hexachlorobutadiene and Hexachlorobenzene.....175
5.5.1.3	Biodegradability of Dioxins, Furans and PCBs.....175
5.5.1.4	Biodegradability of Other Organic COCs176
5.5.2	Abiotic Degradation177
5.5.3	Natural Attenuation Overview177
5.6	Contaminant Transport Conceptual Site Model..... 179
5.6.1	Site Geologic/Hydrogeologic Conditions.....180
5.6.2	Contaminant Transport and Fate181
5.6.2.1	COC Migration Rate.....182
5.6.2.2	Anthropogenic Density Plume.....184
5.6.2.3	pH Plume187
5.6.2.4	CVOCs187
5.6.2.4.1	DNAPL Migration.....187
5.6.2.4.2	Migration with the ADP.....188
5.6.2.4.3	Migration in Fresh Groundwater.....189
5.6.2.4.4	Migration to Ambient Air and Indoor Air191
5.6.2.5	Metals.....191
5.6.2.5.1	Migration with the ADP.....191
5.6.2.5.2	Migration in Groundwater191
5.6.2.5.3	Surface Runoff.....192

Table of Contents

	Page
5.6.2.6 SVOCs	192
5.6.2.6.1 DNAPL Migration.....	192
5.6.2.6.2 Migration in Groundwater	193
5.6.2.6.3 Migration to Ambient Air and Indoor Air	193
5.6.2.7 PCBs and Dioxins/Furans.....	193
Section 6.0 Exposure Pathway Assessment.....	194
6.1 Human Health Exposure Pathway Assessment	195
6.1.1 Identification of Complete Exposure Pathways	195
6.1.2 Summary of Potential Human Health Exposures	198
6.1.2.1 On-Properties	198
6.1.2.2 Off-Properties.....	199
6.1.2.3 On-/Off-Properties	200
6.2 Ecological Health Exposure Pathway Assessment	201
6.2.1 Identification of Complete Exposure Pathways and Potentially Affected Ecological Receptors.....	201
6.2.2 Media Screened in the EEPA	203
6.2.3 Selection of Ecological Screening Values	203
6.2.4 Summary of Ecological Screening	204
6.3 Conclusions	206
6.3.1 Human Health Exposures	206
6.3.2 Ecological Exposures	207
6.3.3 Primary Risk Drivers	208
Section 7.0 Summary, Conclusion, and Recommendation	208
7.1 Summary	208
7.2 Conclusion and Recommendation	216
Section 8.0 References	216

**List of Figures
(Following Text)**

- Figure 1.1 Vicinity Map
- Figure 1.2 Property Ownership and Other Historical Operations
- Figure 1.3 Chemical Activity Areas
- Figure 1.4 Former Waste Management Units
- Figure 1.5 Approximate Boundaries of Hylebos Embankment Contaminated Fill Areas
- Figure 1.6 Historical Site Features on 709/721 Alexander Avenue
- Figure 2.1 Characterization Sample Locations
- Figure 2.2 Existing Groundwater Remediation System
- Figure 2.3 Hylebos Cleanup - Dredging
- Figure 3.1 Locations and Features of Puget Sound Lowlands
- Figure 3.2 Port of Tacoma Topography
- Figure 3.3 Former OCC Facility (605) and Mariana Properties (709) Location Relative to Pre-Development Port of Tacoma Conditions
- Figure 3.4 Former OCC Facility (605) and Mariana Properties (709) Location Relative to Post-Development Port of Tacoma Conditions
- Figure 3.5 Commencement Bay Bathymetry
- Figure 3.6 Site Surface Characteristics
- Figure 3.7 Puyallup, Carbon, and White River Watersheds
- Figure 3.8 Regional Geology
- Figure 3.9 Generalized Puget Sound Lowlands Regional Geologic Conditions
- Figure 3.10 Hart Crowser (1975) Cross-Section I-I'
- Figure 3.11 Hart Crowser (1975) Cross-Section II-II'
- Figure 3.12 Hart Crowser (1975) Cross-Section A-A'
- Figure 3.13 Robinson & Noble (1992) Cross-Section Locations
- Figure 3.14 Robinson & Noble (1992) Cross-Section B-B'

**List of Figures
(Following Text)**

- Figure 3.15 Savoca et al. (2010) Cross-Section Locations
- Figure 3.16 Savoca et al. (2010) Cross-Sections E-E' and F-F'
- Figure 3.17 Presence/Absence of Low Permeability Glacial Material in Regional Boreholes Extending from -150 to -300 ft NGVD
- Figure 3.18 Presence/Absence of Low Permeability Glacial Material in Regional Boreholes Below -300 ft NGVD
- Figure 3.19 Lateral Extents of Puget Sound Lowlands Aquifer
- Figure 3.20 Location of North Shore Aquifers Under Bluffs
- Figure 3.21 Groundwater Regions in Central Pierce County
- Figure 3.22 Generalized Concept of Artesian Groundwater Conditions in the Straits-Puget Basin
- Figure 3.23 Flowing Artesian Wells in Washington State
- Figure 3.24 Flowing Artesian Wells in Site Vicinity
- Figure 3.25 Detail of Artesian Wells in Site Vicinity
- Figure 3.26 Regional Groundwater Elevations and Flow Directions through the Puyallup River Alluvial Aquifer
- Figure 3.27 Groundwater Discharge to a Salt Water Body
- Figure 3.28a/b Site Stratigraphic Data Locations
- Figure 3.29 Soil Physical Properties Sampling Locations
- Figure 3.30 Detailed Stratigraphic Model -25-ft Zone (Elev = -10 ft NGVD)
- Figure 3.31 Detailed Stratigraphic Model -50-ft Zone (Elev = -35 ft NGVD)
- Figure 3.32 Detailed Stratigraphic Model -75-ft Zone (Elev = -60 ft NGVD)
- Figure 3.33 Detailed Stratigraphic Model -100-ft Zone (Elev = -85 ft NGVD)
- Figure 3.34 Detailed Stratigraphic Model -130-ft Zone (Elev = -115 ft NGVD)
- Figure 3.35 Detailed Stratigraphic Model -160-ft Zone (Elev = -155 ft NGVD)
- Figure 3.36 Detailed Stratigraphic Model Cross-Section A-A'

**List of Figures
(Following Text)**

- Figure 3.37 Detailed Stratigraphic Model Cross-Section B-B'
- Figure 3.38 Detailed Stratigraphic Model Cross-Section C-C'
- Figure 3.39 Detailed Stratigraphic Model Cross-Section X-X'
- Figure 3.40 Detailed Stratigraphic Model Cross-Section Y-Y'
- Figure 3.41 Simplified Stratigraphic Model -25-ft Zone (Elev = -10 ft NGVD)
- Figure 3.42 Simplified Stratigraphic Model -50-ft Zone (Elev = -35 ft NGVD)
- Figure 3.43 Simplified Stratigraphic Model -75-ft Zone (Elev = -60 ft NGVD)
- Figure 3.44 Simplified Stratigraphic Model -100-ft Zone (Elev = -85 ft NGVD)
- Figure 3.45 Simplified Stratigraphic Model -130-ft Zone (Elev = -115 ft NGVD)
- Figure 3.46 Simplified Stratigraphic Model -160-ft Zone (Elev = -155 ft NGVD)
- Figure 3.47 Simplified Stratigraphic Model Cross-Section A-A'
- Figure 3.48 Simplified Stratigraphic Model Cross-Section B-B'
- Figure 3.49 Simplified Stratigraphic Model Cross-Section C-C'
- Figure 3.50 Simplified Stratigraphic Model Cross-Section X-X'
- Figure 3.51 Simplified Stratigraphic Model Cross-Section Y-Y'
- Figure 3.52 Top Surface of Glacial Deposits
- Figure 3.53 Conceptual Site Geologic Conditions
- Figure 3.54 Example Tide and Groundwater Elevation Fluctuations
- Figure 3.55 Fresh Groundwater/Salt Water Distribution - 25-ft Zone (Elev = -10 ft NGVD)
- Figure 3.56 Fresh Groundwater/Salt Water Distribution - 50-ft Zone (Elev = -35 ft NGVD)
- Figure 3.57 Fresh Groundwater/Salt Water Distribution - 75-ft Zone (Elev = -60 ft NGVD)
- Figure 3.58 Fresh Groundwater/Salt Water Distribution - 100-ft Zone (Elev = -85 ft NGVD)
- Figure 3.59 Fresh Groundwater/Salt Water Distribution - 130-ft Zone (Elev = -115 ft NGVD)
- Figure 3.60 Fresh Groundwater/Salt Water Distribution - 160-ft Zone (Elev = -155 ft NGVD)
- Figure 3.61 Anthropogenic Density Plume -25-ft Zone (Elev = -10 ft NGVD)

**List of Figures
(Following Text)**

- Figure 3.62 Anthropogenic Density Plume - 50-ft Zone (Elev = -35 ft NGVD)
- Figure 3.63 Anthropogenic Density Plume - 75-ft Zone (Elev = -60 ft NGVD)
- Figure 3.64 Anthropogenic Density Plume - 100-ft Zone (Elev = -85 ft NGVD)
- Figure 3.65 Anthropogenic Density Plume - 130-ft Zone (Elev = -115 ft NGVD)
- Figure 3.66 Anthropogenic Density Plume - 160-ft Zone (Elev = -155 ft NGVD)
- Figure 3.67 Cross-Section of Relatively Permeable and Low Permeability Stratigraphy Along East Limit of 3-D Stratigraphic Model
- Figure 3.68 Shallow Groundwater Zone Hydraulic Monitoring Locations
- Figure 3.69 Shallow Stratigraphic Cross-Section Z-Z' and Average Shallow Hydraulic Monitoring Results - October 2012
- Figure 3.70 Zone of Apparent Confining Effect Surface
- Figure 3.71 Conceptual Site Model of Fresh Groundwater/Salt Water Distribution
- Figure 3.72 Monitoring Well Locations
- Figure 3.73 Events 1 and 2 Hydraulic Monitoring Network
- Figure 3.74 Events 1 and 2 Monitoring Well Screen Intervals By Zone
- Figure 3.75 Schematic of Transducer Configurations for Events 1 and 2
- Figure 3.76 Example of Measured Pressure Versus Time at Well 2-100 for Events 1 and 2
- Figure 3.77 Event 1 FEHs (Pumping Condition) - 25-ft Zone Grouping Plane
- Figure 3.78 Event 1 FEHs (Pumping Condition) - 50-ft Zone Grouping Plane
- Figure 3.79 Event 1 FEHs (Pumping Condition) - 75-ft Zone Grouping Plane
- Figure 3.80 Event 1 FEHs (Pumping Condition) - 100-ft Zone Grouping Plane
- Figure 3.81 Event 1 FEHs (Pumping Condition) - 130-ft Zone Grouping Plane
- Figure 3.82 Event 1 FEHs (Pumping Condition) - 160-ft Zone Grouping Plane
- Figure 3.83 Event 2 FEHs (Non-Pumping Condition) - 25-ft Zone Grouping Plane
- Figure 3.84 Event 2 FEHs (Non-Pumping Condition) - 50-ft Zone Grouping Plane

**List of Figures
(Following Text)**

- Figure 3.85 Event 2 FEHs (Non-Pumping Condition) - 75-ft Zone Grouping Plane
- Figure 3.86 Event 2 FEHs (Non-Pumping Condition) - 100-ft Zone Grouping Plane
- Figure 3.87 Event 2 FEHs (Non-Pumping Condition) - 130-ft Zone Grouping Plane
- Figure 3.88 Event 2 FEHs (Non-Pumping Condition) - 160-ft Zone Grouping Plane
- Figure 3.89 Event 3 CSI Hydraulic Monitoring Network
- Figure 3.90 Event 3 Monitoring Well Screen Intervals By Zone
- Figure 3.91 Event 3A FEHs (Pumping Condition) - 15-ft Zone Grouping Plane
- Figure 3.92 Event 3A FEHs (Pumping Condition) - 25-ft Zone Grouping Plane
- Figure 3.93 Event 3A FEHs (Pumping Condition) - 50-ft Zone Grouping Plane
- Figure 3.94 Event 3A FEHs (Pumping Condition) - 75-ft Zone Grouping Plane
- Figure 3.95 Event 3A FEHs (Pumping Condition) - 100-ft Zone Grouping Plane
- Figure 3.96 Event 3A FEHs (Pumping Condition) - 130-ft Zone Grouping Plane
- Figure 3.97 Event 3A FEHs (Pumping Condition) - 160-ft Zone Grouping Plane
- Figure 3.98 Event 3B FEHs (Non-Pumping Condition) - 15-ft Zone Grouping Plane
- Figure 3.99 Event 3B FEHs (Non-Pumping Condition) - 25-ft Zone Grouping Plane
- Figure 3.100 Event 3B FEHs (Non-Pumping Condition) - 50-ft Zone Grouping Plane
- Figure 3.101 Event 3B FEHs (Non-Pumping Condition) - 75-ft Zone Grouping Plane
- Figure 3.102 Event 3B FEHs (Non-Pumping Condition) - 100-ft Zone Grouping Plane
- Figure 3.103 Event 3B FEHs (Non-Pumping Condition) - 130-ft Zone Grouping Plane
- Figure 3.104 Event 3B FEHs (Non-Pumping Condition) - 160-ft Zone Grouping Plane
- Figure 3.105 Events 3A and 3B Vertical Hydraulic Gradients from 130-ft Zone to 160-ft Zone
- Figure 3.106 Events 3A and 3B Vertical Hydraulic Gradients from 160-ft Zone to Underlying Zone
- Figure 3.107 Locations of Horizontal Hydraulic Conductivity Tests
- Figure 3.108 Locations of Vertical Hydraulic Conductivity Tests

**List of Figures
(Following Text)**

- Figure 3.109 Mean Specific Discharge - Seepage Meter Monitoring Program
- Figure 4.1 Concentrations in Unsaturated Soil - SVOCs
- Figure 4.2 Concentrations in Unsaturated Soil - Pesticides
- Figure 4.3 Concentrations in Saturated Soil - SVOCs
- Figure 4.4 Concentrations in Saturated Soil - Pesticides
- Figure 4.5 Total CVOCs in Groundwater - 25-ft Zone (-10 ft NGVD)
- Figure 4.6 Total CVOCs in Groundwater - 50-ft Zone (-35 ft NGVD)
- Figure 4.7 Total CVOCs in Groundwater - 75-ft Zone (-60 ft NGVD)
- Figure 4.8 Total CVOCs in Groundwater - 100-ft Zone (-85 ft NGVD)
- Figure 4.9 Total CVOCs in Groundwater - 130-ft Zone (-115 ft NGVD)
- Figure 4.10 Total CVOCs in Groundwater - 160-ft Zone (-155 ft NGVD)
- Figure 4.11 Concentrations in Groundwater - SVOCs
- Figure 4.12 Concentrations in Groundwater - Pesticides
- Figure 4.13 Comparison of Temperature and pH Distribution - 25-ft Zone (-10 ft NGVD)
- Figure 4.14 Comparison of Temperature and pH Distribution - 50-ft Zone (-35 ft NGVD)
- Figure 4.15 Comparison of Temperature and pH Distribution - 75-ft Zone (-60 ft NGVD)
- Figure 4.16 Comparison of Temperature and pH Distribution - 100-ft Zone (-85 ft NGVD)
- Figure 4.17 Comparison of Temperature and pH Distribution - 130-ft Zone (-115 ft NGVD)
- Figure 4.18 Comparison of Temperature and pH Distribution - 160-ft Zone (-155 ft NGVD)
- Figure 4.19 Sediment Sample Locations
- Figure 4.20 Concentrations in Sediment - SVOCs
- Figure 4.21 Concentrations in Sediment - Pesticides
- Figure 4.22 General Locations for Vapor Investigation Samples
- Figure 4.23 Detected Parameters - Army Reserve Facility
- Figure 4.24 Detected Parameters - Building 326

**List of Figures
(Following Text)**

- Figure 4.25 Detected Parameters - Building 407
- Figure 4.26 Detected Parameters - Building 532
- Figure 4.27 Detected Parameters - Building 592
- Figure 4.28 Detected Parameters - Building 595
- Figure 4.29 Detected Parameters - Building 596
- Figure 4.30 Detected Parameters - Guard Shack
- Figure 4.31 Detected Parameters - OCC Office Building
- Figure 4.32 DNAPL Indicators - 15-ft Zone (-5 ft NGVD)
- Figure 4.33 DNAPL Indicators - 25-ft Zone (-15 ft NGVD)
- Figure 4.34 DNAPL Indicators - 50-ft Zone (-35 ft NGVD)
- Figure 4.35 DNAPL Indicators - 75-ft Zone (-60 ft NGVD)
- Figure 4.36 DNAPL Indicators - 100-ft Zone (-85 ft NGVD)
- Figure 4.37 DNAPL Indicators - 130-ft Zone (-115 ft NGVD)
- Figure 4.38 DNAPL Indicators - 160-ft Zone (-155 ft NGVD)
- Figure 4.39 Maximum Groundwater Discharge Concentrations - PCE, TCE, VC, pH - Seepage Meter Monitoring
- Figure 4.40 Groundwater Discharge Concentrations - VOCs/SVOCs
- Figure 4.41 Groundwater Discharge Concentrations - PCBs
- Figure 4.42 Groundwater Discharge Concentrations - Metals
- Figure 4.43 Sample Locations - Embankment Investigations
- Figure 4.44 Concentrations in Seeps - VOCs
- Figure 4.45 Concentrations in Seeps - SVOCs
- Figure 4.46 Concentrations in Seeps - Pesticides
- Figure 4.47 Concentrations in Seeps - PCBs
- Figure 4.48 Concentrations in Seeps - Metals

**List of Figures
(Following Text)**

- Figure 4.49 Concentrations in Seeps - pH
- Figure 4.50 Piper Diagram - Bank Seeps - Segment 1 North
- Figure 4.51 Piper Diagram - Bank Seeps - Segment 1 South
- Figure 4.52 Piper Diagram - Bank Seeps - Segment 2 North
- Figure 4.53 Piper Diagram - Bank Seeps - Segment 2 South
- Figure 4.54 Piper Diagram - Bank Seeps - Segment 3
- Figure 4.55 Piper Diagram - Bank Seeps - Segment 4
- Figure 4.56 Piper Diagram - Groundwater - Segment 1
- Figure 4.57 Piper Diagram - Groundwater - Segment 2
- Figure 4.58 Piper Diagram - Groundwater - Segments 3 & 4
- Figure 4.59 Piper Diagram - Milky Seeps
- Figure 4.60 Concentrations in SPLP Leachate - VOCs
- Figure 4.61 Concentrations in SPLP Leachate - SVOCs
- Figure 4.62 Concentrations in SPLP Leachate - Pesticides
- Figure 4.63 Concentrations in SPLP Leachate - PCBs
- Figure 4.64 Concentrations in SPLP Leachate - Metals
- Figure 5.1 Potential Sources of VOCs
- Figure 5.2 Potential Sources of Caustic
- Figure 5.3 Potential Source of Salt
- Figure 5.4 Potential Sources of Metals
- Figure 5.5 Potential Sources of SVOCs
- Figure 5.6 Potential Sources of PCBs and Dioxins/Furans
- Figure 5.7 DNAPL Distribution
- Figure 5.8 Total CVOC Plume in Groundwater
- Figure 5.9 Overview of Degradation Pathways for Chlorinated Aliphatic Hydrocarbons

**List of Figures
(Following Text)**

Figure 5.10	Monitoring Well Locations - Section View
Figure 5.11	Early Time Anthropogenic Density Plume
Figure 5.12	Early Time Anthropogenic Density Plume Influence on Total CVOC Plume Migration
Figure 5.13	Current Anthropogenic Density Plume
Figure 5.14	pH Plume
Figure 5.15	TCE/PCE Plume in Groundwater
Figure 5.16	cis-1,2-DCE Plume in Groundwater
Figure 5.17	Vinyl Chloride Plume in Groundwater
Figure 5.18	Schematic of Metals Transport Processes
Figure 6.1	Schematic of Exposure Pathways and Receptors
Figure 6.2	Schematic of Conceptual Site Model with Risk Drivers

**List of Tables
(Following Text)**

Table 3.1	Presence/Absence of Low Permeability Glacial Material in Regional Boreholes Extending from -150 to -300 ft NGVD
Table 3.2	Presence/Absence of Low Permeability Glacial Material in Regional Boreholes Below -300 ft NGVD
Table 3.3	Summary of Soil/Sediment Physical Properties
Table 3.4	Soil Descriptions Corresponding to Former Tidal Mud Flats Observed Along Shallow Stratigraphic Cross-Section Z-Z'
Table 3.5	Evidence of Zone of Apparent Confining Effect
Table 3.6	Summary of Well Completion Details
Table 3.7	Events 1 and 2 Hydraulic Monitoring Locations

**List of Tables
(Following Text)**

Table 3.8	Event 3 Hydraulic Monitoring Locations
Table 3.9	Summary of Baseline and Current Horizontal Hydraulic Conductivity Values
Table 3.10	Summary of Vertical Hydraulic Conductivity Values
Table 3.11	Statistical Summary of Specific Discharge to Hylebos Waterway - Seepage Meter Monitoring Program
Table 4.1	Upland Groundwater Constituents of Concern
Table 4.2	Embankment Area/Subtidal Groundwater Constituents of Concern
Table 4.3	Surface Water Constituents of Concern
Table 4.4	Sediment/Porewater Constituents of Concern
Table 4.5	Summary of Site Cleanup Levels
Table 4.6	Summary of Soil Screening Criteria
Table 4.7	Summary of Porewater Screening Criteria
Table 4.8	Summary of CSI Screening Criteria
Table 4.9	Summary of Soil Vapor and Indoor Air Screening Criteria
Table 4.10	Unsaturated Soil Analytical Results Summary - Site Constituents of Concern
Table 4.11	Nature and Extent of Contamination in Unsaturated Soil
Table 4.12	Summary of Total PCB Concentrations - Soil
Table 4.13	Summary of Dioxin/Furan Toxicity Equivalency Concentrations - Soil
Table 4.14	Field pH Measurements in Soil
Table 4.15	Saturated Soil Analytical Results Summary - Site Constituents of Concern
Table 4.16	Nature and Extent of Contamination in Saturated Soil
Table 4.17	Groundwater Analytical Results Summary - Site Constituents of Concern (VOCs)
Table 4.18	Groundwater Analytical Results Summary - Site Constituents of Concern (SVOCs)
Table 4.19	Groundwater Analytical Results - Site Pesticides
Table 4.20	Summary of Total PCB Concentrations - Groundwater

**List of Tables
(Following Text)**

Table 4.21	Summary of Dioxin/Furan Toxicity Equivalency Concentrations - Groundwater
Table 4.22	Groundwater Analytical Results - Site Metals
Table 4.23	Groundwater Analytical Results - Field Parameters
Table 4.24	Nature and Extent of Contamination in Groundwater
Table 4.25	Sediment Analytical Results Summary - Site Constituents of Concern
Table 4.26	Summary of Total PCB Concentrations - Sediment
Table 4.27	Summary of Dioxin/Furan Toxicity Equivalency Concentrations - Sediment
Table 4.28	Nature and Extent of Contamination in Sediment
Table 4.29	Soil Vapor/Indoor Air Analytical Results - Army Reserve Facility
Table 4.30	Soil Vapor/Indoor Air Analytical Results - Building 326
Table 4.31	Soil Vapor/Indoor Air Analytical Results - Building 407
Table 4.32	Soil Vapor/Indoor Air Analytical Results - Building 532
Table 4.33	Soil Vapor/Indoor Air Analytical Results - Building 592
Table 4.34	Soil Vapor/Indoor Air Analytical Results - Building 595
Table 4.35	Soil Vapor/Indoor Air Analytical Results - Building 596
Table 4.36	Soil Vapor/Indoor Air Analytical Results - Guard Shack
Table 4.37	Soil Vapor/Indoor Air Analytical Results - OCC Office Building
Table 4.38	Summary of Confirmed DNAPL - Areas, Volumes, and Mass
Table 4.39	Summary of Potential DNAPL - Areas, Volumes, and Mass
Table 4.40	Seepage Analytical Results - Site Constituents of Concern
Table 4.41	Seep and Porewater Analytical Results - Site Constituents of Concern
Table 4.42	Leachate Analytical Results - Site Constituents of Concern
Table 4.43	Nature and Extent of Contamination in Seeps
Table 4.44	Nature and Extent of Contamination in SPLP Leachate
Table 5.1	Summary of Chemical Transport Parameters

**List of Appendices
(On USB Drive)**

Appendix A	Historical Aerial Photographs
Appendix B	Summary of Information Regarding Occidental Site Chemistry Resulting from Past Shipyard Activities
Appendix C	Sample Collection and Analysis Tables
Appendix D	Bathymetric Plots
Appendix E	Regional Stratigraphic Logs
Appendix F	Site Stratigraphic Logs
Appendix G	Analytical Database e:Dat™
Appendix H	MVS/EVS Detailed and Simplified 3-D Stratigraphic Models
Appendix I	Simplified Stratigraphic Model Approach
Appendix J	Naturally Occurring Fresh Groundwater/Salt Water Distribution Evaluation
Appendix K	Groundwater Density Distribution
Appendix L	Evaluation of Site-Wide Hydraulic Data
Appendix M	Evaluation of 709-721 Alexander Avenue Hydraulic Data
Appendix N	Single-Well Response Tests Technical Memorandum
Appendix O	3-D Chemistry Visualization Models
Appendix P	List of Data Validation Reports
Appendix Q	Dioxin, Furan, and PCB Congener Data
Appendix R	Vapor Investigation Report
Appendix S	DNAPL Assessment
Appendix T	Weston Cross-Sections Drawings
Appendix U	Natural Attenuation Evaluation
Appendix V	Exposure Pathway Assessment Report
Appendix W	University of Washington Report on Site-Specific Partition Coefficients of Heavy Metals

List of Acronyms

ABS _d	absorption factor - dermal
ABS _o	absorption factor – oral
ABW	average body weight
ACGIH	American Conference of Governmental Industrial Hygienists
ADP	anthropogenic density plume
AET	apparent effects thresholds
AF	adherence factor
AFs	absolute absorption fraction of lead in soil
Ah	Aryl hydrocarbon
AOC	Administrative Order on Consent
ARARs	Applicable or Relevant and Appropriate Requirements
ARF	Army Reserve Facility
ASTM	American Society for Testing and Materials
ATc	average time – carcinogenic
ATnc	average time – non-carcinogenic
atm m ³ /mol	atmospheres cubic meters per mole
AVS	acid volatile sulfide
BEF	bioaccumulation equivalence factors
BERA	Baseline ERA
BKSF	biokinetic slope factor
BTEX	benzene, toluene, ethylbenzene, and xylenes
bgs	below ground surface
BML	below mud line
Bluffs	Puget Sound Bluffs
BOD	biochemical oxygen demand
BTEX	benzene, toluene, ethyl benzene, and xylenes
BZ	benzene
CA	chloroethane
CAP	Corrective Action Plan
CAMP	Corrective Action Monitoring Plan
CAS No.	Chemical Abstracts Service number
CB/NT	Commencement Bay/Nearshore Tideflats
CDF	confined disposal facility
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CF	conversion factor
cis-1,2-DCE	cis-1,2-dichloroethene
CLARC	Cleanup Levels and Risk Calculation
CLP	Contract Laboratory Program
CMA	Coastal Monitoring Associates
CMT	continuous multi-channel
cm/s	centimeters per second
cm ³	cubic centimeters
cm ²	square centimeters

List of Acronyms

Co-SQG	co-occurrence sediment quality guidelines
COCs	constituents of concerns
COD	chemical oxygen demand
COPECs	constituents of potential ecological concern
CRA	Conestoga-Rovers & Associates
CSF	cancer slope factor
CSI	Comprehensive Supplemental Investigation
CSM	Conceptual Site Model
CT	carbon tetrachloride
CVOCs	chlorinated volatile organic compounds
cy	cubic yards
DA _{event}	dermal absorbed per event
1,2-DCA	1,2-dichloroethane
1,4-DCB	1,4-dichlorobenzene
1,1-DCE	1,1-dichloroethene
DCM	dichloromethane
4,4'-DDD or DDD	4,4'-dichlorodiphenyl dichloroethane
4,4'-DDE or DDE	4,4'-dichlorodiphenyl dichloroethylene
4,4'-DDT or DDT	4,4'-dichlorodiphenyl trichloroethane
°C	degrees Celsius
DEHP	bis(2-ethylhexyl)phthalate
DRO	diesel range organics
DNAPL	dense non-aqueous phase liquid
DO	dissolved oxygen
DOC	dissolved organic carbon
EB	ethylbenzene
Ecology or WDEC	Washington State Department of Ecology
ED	exposure duration
EEC	estimated exposure concentration
EEPA	ecological exposure pathway assessment
EF	exposure frequency (Exposure Pathway Assessment)
EF	exceedance factor
EF _{max}	maximum EF
ENVs	environmental heads
ESVs	ecological screening values or ecotoxicity screening values
ERAs	Ecological Risk Assessments
EV	event frequency
EVS/MVS	Environmental Visualization System/Mining Visualization System
EWPT	extraction well pilot test
FCVs	Final Chronic Values
FEHs	freshwater equivalent heads
FeSO ₄	ferrous sulfate

List of Acronyms

ft	feet
ft/d	feet per day
FT	fraction time exposed
foc	fraction of organic carbon content
g/cm ³	grams per cubic centimeter
GRO	gasoline range organics
GRS	global remote sensing
GSD	geometric standard deviation
GSH	Glenn Springs Holdings
HCB	hexachlorobenzene
HCBD	hexachlorobutadiene
HCC	Hylebos Cleanup Committee
HHEPA	human health exposure pathway assessment
Hooker	Hooker Chemical Corporation
IA	indoor air
IR	ingestion rate
IRIS	USEPA Integrated Risk Information System
J&E Model	Johnson & Ettinger Model
Kg/L	kilograms per litre
Kd	soil-water partitioning coefficient
Koc	soil organic carbon-water partitioning coefficient
Kow	octanol/water partition coefficient
lbs/ft ³	pounds per cubic feet
LC50	Lethal concentration at which 50 percent of the sample population dies
LOAEL	lowest-observed adverse effect level
M-3	Heavy Industrial district
Manke	Manke Lumber Yard area
MLEs	maximum likelihood estimates
mg/(kg-day)	milligram carcinogen per kilogram body weight per day
µg/dL	micrograms per deciliter
µg/L	micrograms per Litre
µg/kg	micrograms per milligrams
µg/m ³	micrograms per cubic meter
mg/kg	milligrams per kilogram
mg/L	milligrams per litre
mg/m ³	milligrams per cubic meter
mL/g	milliliters per gram
MLEs	maximum likelihood estimates
MLLW	mean lower low water
MPC	Maximum Permissible Concentration
MS/MSD	matrix spike and matrix spike duplicate
MTCA	Model Toxics Control Act
MWAC	Middle Waterway Action Committee

List of Acronyms

ng/kg	nanograms per kilogram
NaCl	sodium chloride
NAPL/CALC	NAPL Calculator
NCD	nearshore confined disposal
NCP	National Contingency Plan
NGA	Northwest Geophysical Association, Inc.
NGVD	National Geodetic Vertical Datum
NOAA	National Oceanic and Atmospheric Administration
NOAA's ER-L	NOAA's sediment quality guidelines, effects range-low
NOAA's ER-M	NOAA's sediment quality guidelines, effects range-medium
NOAEL	No-Observed Adverse Effect Level
NOEC	No Observable Effect Concentration
NSAT	DNAPL saturation
OA	outdoor air
OCC	Occidental Chemical Corporation
OERR	Office of Emergency and Remedial Response
OELs	occupational exposure levels
ORP	oxidation-reduction potential
OSHA	U.S. Occupational Safety and Health Administration
OSWER	USEPA Office of Solid Waste and Emergency Response
PAHs	polyaromatic hydrocarbons
PbB	target blood lead
PbB ₉₅	95th percentile target blood lead
PbB _{adult,0}	baseline blood lead concentration
PCA	tetrachloroethane
PCBs	polychlorinated biphenyls
PCDD	dioxins
PCDF	furans
PCE	tetrachloroethene (perchloroethylene)
PCPH or PCP	pentachlorophenol
PDT	Pacific Daylight Time
PEF	Particulate Emission Factor
PELs	permissible exposure limits
Permit	Joint Permit for the Storage of Dangerous Waste
PMI	Port Maritime Industrial
POT	Port of Tacoma
Properties	605 and 709 Alexander Avenue
ppm	parts per million
PQLs	practical quantitation limits
PRD	pre-remedial design
PRI	PRI Northwest, Inc.
PSDDA	Puget Sound Dredged Disposal Analysis
QAPP	Quality Assurance Project Plan

List of Acronyms

$R_{\text{fetal/maternal}}$	Mean ratio of fetal to maternal PbB
RAGS	USEPA Risk Assessment Guidance for Superfund
RBCs	risk-based concentrations
RBSs	risk-based standards
RCRA	Resource Conservation and Recovery Act
RD/RA	Remedial Design and Remedial Action
Redox	oxidation and reduction
RFA	RCRA Facility Assessment
RfC	reference concentration
RfD	reference dose
RFI-I	RCRA Facility Investigation I
RI	Remedial Investigation
RME	Reasonable Maximum Exposure
ROD	Record of Decision
RSL	Regional Screening Level
S-10	Port Industrial Shoreline district
SA	surface area exposed
SAP	sampling and analysis plan
SCR	Site Characterization Report
SEM	simultaneously extractable metals
SIR	soil ingestion rate
SLERA	Screening Level Ecological Risk Assessment
SMMP	Seepage Meter Monitoring Program
SMS	sediment management standard
SOW	Statement of Work
SQ	screening quotient
SQG	sediment quality guidelines
SQOs	sediment quality objectives
SQS	sediment quality standard
SPLP	Synthetic Precipitation Leaching Procedure
SS	sub-slab
su	standard units of pH
SVOCs	semi-volatile organic compounds
2,3,7,8-TCDD or TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin
TCE	trichloroethene
TCM	trichloromethane
TCVOCs	total chlorinated volatile organic compounds
1,1,2-TCA	1,1,2-trichloroethane
TDS	total dissolved solids
TEFs	Toxicity Equivalency Factors
TEQ	Toxicity Equivalents
TLV	Threshold Limit Value
1,2,4-TMB	1,2,4-trimethylbenzene

List of Acronyms

TEQ	Toxic Equivalency
TOC	total organic carbon
TPH	total petroleum hydrocarbon
TR	Target Cancer Risk
THQ	Target Hazard Quotient
HI	Hazard Index
trans-1,2-DCE	trans-1,2-dichloroethene
TRW	Technical Review Workgroup for Lead
TSS	total suspended solids
TWA	time-weighted average
UAOs	Unilateral Administrative Orders
UCL	Upper Confidence Level
URF	unit risk factor
USEPA or EPA	United States Environmental Protection Agency
USCS	Unified Soil Classification System
U.S. Navy	United States Navy
UW	University of Washington
VC	vinyl chloride
VDEQ	Virginia Department of Environmental Quality
VF	Volatilization Factor
VFWAMB	groundwater to ambient air volatilization factor
VI	vapor Intrusion
VOCs	volatile organic compounds
WAC	Washington Administrative Code
WIR	water ingestion rate
WMUs	waste management units
Waterway	Hylebos Waterway
WHO	World Health Organization
WISHA	Washington Industrial Safety and Health Act
WQC	Washington State's water quality criterion
yr	year

Section 1.0 Introduction

Occidental Chemical Corporation (OCC) has been working with the Washington State Department of Ecology (Ecology) and the United States Environmental Protection Agency (USEPA) (together referred to as the "Agencies") to address remaining environmental issues at the "Occidental" Site associated in part with the former OCC facility located in Tacoma, Washington (Site) under an Administrative Order on Consent (AOC) (EPA, 2005a). The work activities required under the AOC are outlined in the "Statement of Work for the Administrative Order on Consent" (SOW) (CRA, 2005). OCC has completed field investigations required under all Tasks of the SOW. Results from these investigations are presented in this Site Characterization Report (SCR), as required under Task A6 of the SOW.

This SCR presents the Site characterization based upon the analytical and hydraulic data collected from various groundwater, soil, sediment, and vapor investigations performed at the Site. The presented data includes both "new" data collected during the most recent investigations (May 2005 through March 2014) and relevant "historical" data collected during previous investigations (1993 through 2004).

The data presented in this SCR was used to develop a conceptual Site Model (CSM), which was presented under separate cover (CRA, April 2014) and is summarized in Section 5.6 of this SCR. The CSM will form the basis for the development of a three-dimensional groundwater flow and contaminant transport model that will be used in the evaluation of remedial alternatives.

1.1 Purpose and Scope of Report

The purpose of this Site characterization is to evaluate the data collected from all investigations at the Site and to adequately characterize the contamination of soil, sediment, and groundwater underlying the Site; assess the exposure pathways; to allow development and evaluation of remedial design alternatives to address relevant exposure pathways. The scope of work for the Site characterization activities was based upon the following objectives:

- i) Determine the three-dimensional extent of volatile organic compounds (VOC) and pH contamination in groundwater onshore and beneath the Hylebos Waterway (Waterway)
- ii) Determine the depth of hydraulic capture required to prevent contaminated groundwater from discharging into the Waterway
- iii) Determine the three-dimensional extent of source material onshore and beneath the Waterway

- iv) Quantify the hydrogeological parameters that will allow the flux of potential contaminants into the Waterway to be determined, and provide data needed to refine the conceptual hydrogeological model for the Site

1.2 Site Description

The Site is located on the eastern-most¹ peninsula of the area of ownership and operations of the Port of Tacoma (POT) that extends into Commencement Bay at the mouth of the Puyallup River Valley. The Site is defined in the AOC². A general location map showing the Site, including the formerly OCC-owned properties and that portion of Segment 5 of the Waterway contained within the Site, is presented on Figure 1.1.

A plan showing local property ownership is presented on Figure 1.2. The properties formerly owned and/or operated on by OCC or its predecessors include:

- 605 Alexander Avenue (former OCC Facility currently owned by Mariana Properties, Inc. [Mariana])
- 709 Alexander Avenue (currently owned by Mariana)

The properties are referred to as the 'Former OCC Facility (605) and Mariana Properties (709)' on Figure 1.2. The properties are bounded on the west, north, and south by former Navy property (now owned by the POT or U.S. Navy), and on the east by the Waterway.

The approximate extent of groundwater contamination at the Site is shown on Figure 1.1. The Site is within the 10- to 12-square mile area Commencement Bay Nearshore/Tideflats (CB/NT) Superfund Site which includes several waterway problem areas and adjoining uplands as described by the CB/NT Record of Decision (EPA, 1989). The Site includes part of Segment 5 of the Mouth of Hylebos Problem Area where contaminated sediments were dredged and disposed in 2003-2005 (CRA, 2014a), or excavated and capped 2007-2008 (Hart Crowser, 2014). This work was performed under the Mouth of Hylebos Consent Decree (EPA, 2005b). Sediment contaminants removed from the dredged areas of the Waterway included hexachlorobenzene (HCB), hexachlorobutadiene (HCBT), polychlorinated biphenyls (PCBs), various metals, and other organic chemicals. Remaining sediment contamination within the Site is to be addressed under the AOC (EPA, 2005a).

¹ Note that all directional references are relative to plant-north that points toward Commencement Bay, approximately aligned with the centerline of the Site peninsula.

² Note that the AOC definition of the Site is repeated in the RD/RA Consent Decree for the Mouth of Hylebos Problem Area of the Commencement Bay Nearshore/Tideflats Superfund Site, *U.S. v. Port of Tacoma, et al.*, Civil Action No. C05-5103 FDB (Western District of Washington)(Mouth RD/RA Consent Decree).

The most recent aerial photograph of the Site (dated 2011) is presented on the USB drive attached as Appendix A. This aerial photograph reflects the removal of buildings and process equipment that occurred during the recent demolition of the former OCC Facility completed between 2006 and 2008. For reference, historical aerial photographs of the former OCC Facility are also included in Appendix A.

1.3 Property Ownership

Prior to 1920, the properties which comprise the Site were undeveloped tidal mudflats. Between 1920 and 1936, the area was filled with approximately 16 feet (ft) of dredge material, primarily sand, as part of an upland expansion project.

Mariana Properties, an affiliate of OCC, currently owns the property at 605 Alexander Avenue, having acquired it from Pioneer Americas, LLC in 2005. A predecessor of OCC began operations on the property in 1929 and acquired additional adjacent parcels over time. Other owners and/or operators of all or a portion of the property have included Hooker-Detrex Corporation, the United States Navy, Todd Shipyards, the United States Defense Plant Corporation, and Pioneer Americas.

OCC Tacoma, a wholly owned subsidiary of OCC, acquired the property at 709 Alexander Avenue from PRI Northwest, Inc. (PRI) in 1997. In 2001, OCC Tacoma merged back into OCC, and the property was conveyed to Mariana Properties. Previous owners of the property included Fletcher Oil, which acquired it in 1938 from Norton and Mary Clapp. Tesoro Petroleum, Inc. and United Independent Oil Company, Inc. also leased portions of the 709 Alexander Avenue property in the 1970s.

The property along the east side of the Waterway is held in trust for the Puyallup Tribe of Indians. Previous owners of this property include the POT. The United States Navy owns the eastern portion of the property at 721 Alexander Avenue. With the exception of Alexander Avenue itself, which is owned by the City of Tacoma, the remaining portions of the Site, including the Waterway, are owned by the POT.

1.4 Current Land Use

The Site is located in the industrial tidelflats area of Tacoma, Washington. The zoning of the properties which comprise the Site is "S-10", Port Industrial Shoreline District, "M-3", Heavy Industrial District, and "PMI", Port Maritime Industrial. Restrictive covenants restricting land use on the properties to non-residential industrial use are contained and set forth in the Quit Claim Deed (Corrected) recorded on April 28, 1997, in the records of the Pierce County Auditor

(Recording No. 9704280734). Pertinent property owned by the POT is the subject of a restrictive covenant recorded on May 5, 2003, in the records of the Pierce County Auditor (Recording No. 200305050452). Those restrictive covenants prohibit groundwater extraction, supply or use for drinking or other human consumption or domestic use of any kind.

The nearest residential properties are approximately 1 mile to the east, on the bluff across the Waterway from the Facility, 3/4 of a mile across the Waterway to the northeast, and approximately 3 miles to the south.

Current land uses of the properties that encompass the Site include:

- i) **Mariana Property:** The existing groundwater treatment plant is located on the northern portion of the 605 Alexander Avenue property. Portions of the existing groundwater extraction and injection systems, as well as groundwater monitoring wells, are located on the property. The two docks along the Waterway are in poor condition and are not in use.
- ii) **Port of Tacoma:** The properties owned by the POT are used for various industrial and commercial activities. Portions of the existing extraction and injection systems, as well as groundwater monitoring wells, are located on the POT property. The Waterway and Piers 24/25 are used for commercial shipping purposes.
- iii) **United States Navy:** There is no current land use of this property.
- iv) **Puyallup Tribe of Indians:** This property includes two marinas used for the storage and berthing of private boats.

1.5 Historical OCC Operations

OCC's predecessor's manufacturing operations began at the Site in 1929 and continued by OCC and others until 2002. The operations undertaken on the former OCC Facility (605) and Mariana Properties (709) are described below.

605 Alexander Avenue

The chemical processes, products, and byproducts associated with the property are summarized below, based on information provided in Attachment 9 (Tacoma Groundwater Continuing Releases Program Groundwater Treatment Technology Assessment) of the RCRA Facility Investigation (CRA, 1989) and other sources.

<i>Processes</i>	<i>Products</i>	<i>Byproducts</i>	<i>Period of Operation</i>
Chlorine/Caustic soda production	Chlorine/Caustic soda	Calcium carbonate, magnesium hydroxide, sodium chloride (recycled into brine), chlorinated organic residue, dioxins/furans	1929 to 2002
Sodium hypochlorite production	Sodium hypochlorite	Sodium chloride (recycled into brine), water	1974 to 1992
Chlorinated solvent production	Trichloroethene/ Tetrachloroethene (TCE/PCE)	Calcium chloride, calcium hydroxide, chlorinated organic residue with VOC and SVOC compounds including HCB, HCBD, and other by-products	1947 to 1973
Ammonia production	Ammonia	None	1952 to 1992
Muriatic acid production	Muriatic Acid	None	1936 to 2002
Calcium chloride production	Calcium chloride	Carbon dioxide, water, magnesium and transition metal precipitate	1964 to 2002
Fish oils hydrogenation	Saturated (hydrogenated) oil	Used catalyst (e.g., nickel)	1939 to 1952
Aluminum chloride production	Aluminum chloride	None	1942 to 1945
Sodium aluminate production	Sodium aluminate	Water	1959 to 1960

TCE was produced at the facility from 1947 to 1973. PCE was produced from 1960 to 1973. Plant records indicate a fairly consistent production rate of 1,100,000 and 660,000 pounds per month of TCE and PCE, respectively. Over the period of solvent production (1947 – 1973), it is estimated that a total mass of 350 million pounds of TCE and 107 million pounds of PCE were produced. Thus, the total solvent production was on the order of 457 million pounds.

Wastes generated during the manufacturing processes were managed on this property. Waste management practices included: wastewater treatment (settling) ponds, settling barges, landfills, disposal pits, and waste piles. Available historical information does not indicate whether pits, ponds, landfills, piles, etc. were partly contained or, if so, how they were contained. Based on sampling data from the vicinity of these waste management units (WMUs), it is apparent that releases to the subsurface occurred.

The locations and descriptions of historical chemical activity areas are shown on Figure 1.3. Seventeen (17) WMUs were historically located on the property. The locations of the WMUs, and the chemicals associated with them, are shown on Figure 1.4.

From 1929 to 2002, chlorine was produced using electrolytic cells. Linseed and other oils were originally used to bind the graphite electrodes used for chlorine production, and were later replaced by phenolic resin binders. According to European Commission (2001)³, spent graphite anodes are a potential source of dioxin/furan compounds. However, the lack of available oxygen in the process combined with the lack of a significant heat source would have made the production of dioxins and furans at the Site minimal. The change to phenolic resin binders increased the potential for dioxin/furan formation. Graphite waste was disposed in WMUs L, M, P, and Q, and has also been observed in the embankment area. Results for spent anodes analyzed during 1987⁴ and 1988 showed that total 2,3,7,8-TCDD equivalent concentrations were all less than 1 microgram per kilogram ($\mu\text{g}/\text{kg}$), and as a result, anodes were disposed off Site as non-TCDD RCRA waste.

From 1947 to 1973, a chlorinated solvents process producing PCE and TCE was in operation on the northern section of the property proximate to Area 5106 (see Figure 1.3). The chlorinated solvent production process consisted of the chlorination of acetylene to produce tetrachloroethane (PCA). The PCA was heated to 100°C with lime to form TCE, which was then chlorinated to form pentachloroethylene. The pentachloroethylene was treated with lime to produce PCE. By-products in the residue from the process included (in approximate decreasing relative amounts):

- Calcium chloride and calcium hydroxide
- HCB and HCB⁵, as well as hexachloroethane, trichloroethane, dichloroethylenes
- Other chlorobutadienes

During the first year of production, effluent from the chlorinated solvents process (consisting of an aqueous slurry composed of byproduct calcium chloride [lime sludge], and chlorinated organic [solvent] residue) was discharged directly to the Waterway through a pipe labeled on historical drawings as '4" Lime'. The location of the direct discharge line is shown on Figure 1.3.

³ European Commission, 2001. Integrated Pollution Prevention and Control (IPPC). Reference Document on Best Available Techniques in the Chlor-Alkali Manufacturing Industry. December. http://eippcb.jrc.ec.europa.eu/reference/BREF/cak_bref_1201.pdf.

⁴ Results transmitted by OCC's September 16, 1987 letter to USEPA (Catherine Massimino) and Ecology (Steve Robb).

⁵ "Chlorine, Its Manufacture, Properties, and Uses" Ed. Sconce. ACS Monograph Series No. 154, 1962.

From approximately 1949 to 1952, and again from 1972 to 1973, the process effluent was passed through one of a series of upland settling ponds where the solids settled out, and the supernatant was discharged to the Waterway. During the period from 1952 to 1972, the effluent was discharged to a settling barge berthed alongside the present northern walking pier (WMU F on Figure 1.4). The solids settled in the barge, and the supernatant was discharged to the Waterway. The solids in the barge were taken to a deep water disposal site. Between 1949 and 1971, a small landfill shown as WMU C on Figure 1.4 was used for the disposal of lime and calcium chloride from the chlorinated solvents process.

As discussed in the Embankment Area Characterization Report (CRA, 1999), the embankment area is defined as the area along the Waterway that extends from the northwest boundary of the 605 Alexander Avenue property to the southeast boundary of the adjacent property at 709 Alexander Avenue (otherwise identified as the former PRI property). Previous reports segregated the embankment area into the following sections, which are shown on Figure 1.5:

- Northern Section
- Central Section
- Southern Section
- PRI Section

The Northern Section is approximately 500 ft of embankment area extending southward from the facility's northern property boundary, and was acquired prior to OCC by Hooker Chemical Corporation (Hooker) from Todd Shipyards. Heavy industrial activities took place in this area both before and after Hooker's ownership, most notably war-related shipyard activities undertaken by the U.S. Navy and Todd Shipyards for both World War I and World War II. Historical information indicates that landfilling and incinerating operations (among other activities) took place along the shoreline and in the uplands during the World War II shipyard activities. Following acquisition of the property by Hooker, a landfill was developed, identified as WMU C. Additionally, settling ponds were installed in the Northern Section identified as WMU H.

The Central Section is approximately 600 ft of embankment area between the Northern Section and the Southern Section. Due to extensive development in this area for active industrial use, limited to no landfilling or disposal operations were performed, and therefore no documented WMUs exist in this area.

The Southern Section is approximately 400 ft of the embankment area between the Central Section and the PRI Section. Historical information indicates that this area was used for a landfill, and is identified as WMU N.

The PRI Section is approximately 200 ft of the embankment area extending southward from the south edge of the 605 Alexander Avenue property boundary, and is distinctly identified as part of the 709 Alexander Avenue property. Historical information indicates that an embankment fill area exists that extends south from the N Landfill (WMU N) on the 605 Alexander Avenue property.

As discussed in the Embankment Area Characterization Report (CRA, 1999), historical investigations were performed in each of the above-stated sections to identify physical properties of the embankment materials and collect samples of materials, groundwater, and seeps for analysis of various chemical parameters. The investigations identified several types of materials that were placed along the embankment area.

The primary embankment materials identified in each section are as follows:

- Northern Section – Sediment, waste sludge, slag, concrete, bricks, riprap, and shipyard incineration wastes
- Central Section – Sediment, concrete, bricks, and riprap
- Southern Section – Sediment, waste sludge, concrete, and riprap
- PRI Section – Sediment, waste sludge, anodes, and concrete

Contaminants associated with the waste sludge include VOCs and SVOCs. The shipyard incineration wastes and spent graphite anodes described above are potential sources of dioxin/furan compounds (European Commission, 2001).

The scope of the embankment investigations are discussed in Sections 2.1.7 through 2.1.9.

709 Alexander Avenue

OCC and its predecessors did not conduct any manufacturing operations on this property. However, fill materials that included wastes from the activities at the 605 Alexander Avenue property, and likely other potential sources, were placed on the 709 Alexander Avenue property along the embankment of the Waterway. This area of the embankment (PRI Section) is discussed above.

1.6 Other Historical Operations

Historical operations on 605 Alexander Avenue and the adjacent properties are provided in the following section, and are based on information provided in Appendix B.

Prior to the use of the 605 Alexander Avenue property by OCC and its predecessors for chemical manufacturing, a portion of the property (North 10 Acres) was used by the United States and Todd Shipyards Corporation for operations associated with ship building and dismantling activities, as well as for the gathering and incineration of shipyard wastes. In approximately 1945, these activities ceased and the facilities on the North 10 Acres were decommissioned. In 1945, shipyard wastes were dumped on uplands and on the shoreline and partially pushed into the Waterway. This area is now described as the "Navy Todd Dump" (shown on Figure 1.2).

The other historical operations of properties adjacent to 605 Alexander Avenue are summarized below:

401 Alexander Avenue

- Ship building and dismantling, and related activities, during World War I and World War II
- U.S. Naval Station Tacoma's ship storage, maintenance, and dismantling from World War II to 1960
- Port Industrial Yard (Early Business Center) and numerous tenant operations since 1960, including ship building and dismantling

Most of the Piers 24/25 Waterway embankment on this property was remediated with installation of a sediment cap, after excavating areas of more pronounced contamination, in 2007-2008 under the Mouth of Hylebos RD/RA Consent Decree (Hart Crowser, 2014). The southern 400 ft of sediment were not capped. EPA, POT, and OCC agreed that activities in this area will be incorporated with the sediment remediation activities to be accomplished under the AOC.

709 Alexander Avenue

- i) Bulk petroleum fuel storage and distribution terminal between the 1930s and 1980s
- ii) Tetraethyl lead plant, blending lead with gasoline in the late 1970s and early 1980s
- iii) Topping plant for crude oil distillation in the 1970s and early 1980s

721 Alexander Avenue

- i) Fuel distribution depot and bulk petroleum storage depot from 1936 through 1965
- ii) Petroleum storage facility from 1966 through 1983
- iii) Materials storage yard since 1983

Historical Site features on 709 and 721 Alexander Avenue are shown on Figure 1.6. These properties will be further investigated under Agreed Order No. DE 9835 among Ecology, Mariana, and the POT, effective on October 3, 2013.

1.7 Report Organization

This SCR is organized as follows:

- i) **Section 1.0 – Introduction:** provides the general introduction, purpose, scope, and general background for the Site.
- ii) **Section 2.0 – Summary of Investigations and Cleanup Actions:** includes a brief summary of the investigations and activities associated with the Site Characterization, along with previous cleanup actions.
- iii) **Section 3.0 – Physical Characteristics:** presents the results of the field activities to determine physical characteristics of the Site.
- iv) **Section 4.0 – Nature and Extent of Contamination:** presents the site-specific contaminants of concern, cleanup and screening levels, and results of the Site Characterization for each media including soil, groundwater, surface water, and sediment.
- v) **Section 5.0 – Contaminant Fate and Transport:** presents the potential routes of migration, contaminant persistence and behavior, transport processes, and Conceptual Site Model.
- vi) **Section 6.0 – Baseline Risk Assessment:** presents a summary of the Risk Assessment, including human health and ecological risk.
- vii) **Section 7.0 – Summary and Conclusions.**
- viii) **Section 8.0 – References.**

Section 2.0 Summary of Investigations and Cleanup Actions

2.1 Summary of Investigations

These investigations have been accomplished by OCC and other parties under USEPA and Ecology oversight pursuant to several different regulatory mechanisms. As described in detail below, OCC's activities have been accomplished in accordance with permits issued pursuant to RCRA and Washington's Hazardous Waste Management Act, an agreed order on consent for Waterway pre-remedial design activities, a unilateral administrative order, and the AOC.

Numerous investigations of groundwater, soil, and sediment have been conducted at the Site, as described in the following sections. Over 8,200 groundwater, sediment, soil, seep, leachate, debris, indoor/outdoor air, and soil vapor samples were collected from approximately 1,300 locations and analyzed during the 25 investigations listed in the following sections. The locations of these samples are shown on Figure 2.1. The physical, chemical, and hydraulic data from these investigations have developed the current understanding of the Site and are incorporated in subsequent sections of this report.

Appendix C includes tables (on USB drive) that summarize the collection and analysis for each groundwater, soil, sediment, leachate/synthetic precipitation leaching procedure (SPLP), porewater, seep, debris, and geotechnical sample presented in this report. The tables can be sorted or queried by sample ID to locate particular samples of interest.

2.1.1 RCRA Facility Investigation (1988-1989)

The RCRA Facility Investigation I (RFI-I) was conducted pursuant to the requirements of the Joint Permit for the Storage of Dangerous Waste (Permit), WAD009242314, dated November 1988. USEPA and Ecology jointly administered the Permit. A RCRA Facility Assessment (RFA) was completed by USEPA and reported in February 1988 in a memorandum from C. Massimino (USEPA) to File and copied to S. Robb of Ecology. The RFA concluded that hazardous constituents were released from past WMUs and that an RFI-I was required to define the nature and extent of impacted groundwater for the development of a corrective action program.

The RFI-I included identification and investigation of WMUs, installation and development of monitoring wells, hydraulic conductivity testing, multiple rounds of groundwater sampling, surface runoff and seep sampling, and hydraulic monitoring. The data generated by the RFI-I became the basis for development of the existing corrective action measures (groundwater extraction and treatment) described in 2.2.3 and subsequent investigative activities.

2.1.2 Commencement Bay Nearshore/Tideflats Superfund Site (1993)

OCC and other parties comprising the Hylebos Cleanup Committee (HCC) undertook Hylebos Waterway Pre-Remedial Design activities pursuant to a 1993 AOC with USEPA (Docket No, 1093-07-03-104/122). In order to characterize sediment in the embankment, OCC conducted field activities in accordance with the requirements of the "Combined Sampling and Analysis Plan for the Commencement Bay Nearshore/Tideflats Superfund Site – Hylebos Waterway Problem Areas" (HCC, 1993). Field activities associated with this investigation were conducted in August 1993 and consisted of:

- Collection of 5 shallow (1 ft below ground surface [BGS]) soil samples from the top of the slope at the northeast portion of the Site embankment area
- Analysis of soil samples for TCLP-VOCs, TCLP-SVOCS, TCLP-Pesticides, TCLP-Herbicides, TCLP-Metals, corrosivity, cyanide reactivity, sulfide reactivity, and flash point

Data from the investigation were previously presented in Attachment E-3 of Appendix E of the "Work Plan; Characterization of the Embankment Along the Hylebos Waterway the OxyChem Tacoma Facility" (CRA, 1996) and in the "Summary of Previous Investigations" (CRA, 2004).

2.1.3 PRI Preliminary Site Investigation (1994)

In 1994, PRI Northwest, Inc. (PRI) conducted a preliminary investigation to characterize the Berm Area adjacent to the Waterway at 709 Alexander Avenue. Field activities associated with the investigation were conducted between December 1993 and January 1994 and consisted of:

- Collection of soil samples from 10 test pit excavations in the eastern portion of the property
- Installation of 5 monitoring wells in the eastern portion of the property
- Collection of 15 soil samples from test pits and soil borings completed during monitoring well installation
- Collection of groundwater samples from the 5 newly installed monitoring wells and from a low tide groundwater seep
- Analysis of soil samples for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCS), Total Petroleum Hydrocarbons (TPH), Polychlorinated Biphenyls (PCBs), metals, and Total Organic Carbon (TOC)
- Analysis of groundwater samples for VOCs, SVOCS, TPH, PCBs, metals (dissolved and total), TOC, pH, total suspended solids (TSS), conductivity, and chloride
- Completion of a 3-day monitoring program to assess groundwater flow

Data from the investigation were previously presented in the "Preliminary Site Investigation Report" (Hart Crowser, 1994), in the "Supplemental Monitoring Well Installation and Groundwater Sampling and Analysis Report" (Hart Crowser, 1994), and in the "Summary of Previous Investigations" (CRA, 2004).

2.1.4 Hylebos Waterway Pre-Remedial Design Program (1994)

In 1994, the HCC conducted an investigation that included the collection and analysis of sediment from the subtidal and intertidal portions of the Waterway adjacent to the Site and the collection of sediment samples from the embankment.

- Collection of 6 composite sediment/soil samples from the intertidal zone of the Waterway and embankment are adjacent to the Site
- Analysis of sediment/soil samples for VOCs, SVOCs, pesticides, and metals

Data from the investigation were previously presented in the "Hylebos Waterway Pre-Remedial Design Evaluation Report" (HCC, 1999).

2.1.5 PRI Source Identification Investigation (1994)

In 1993 and 1994, PRI conducted an investigation of subsurface soil and groundwater conditions at the former PRI bulk fuel facility located at 709 Alexander Avenue. This investigation was focused on the identification of the potential source(s) of VOCs detected in shallow groundwater beneath the PRI property. Field activities associated with this investigation were conducted between December 8, 1993, and an unknown date prior to October 1994 and included the following:

- Installation of 3 monitoring wells
- Collection of 3 soil samples from soil borings completed during monitoring well installation
- Collection of groundwater samples from the 5 existing and 3 newly installed monitoring wells and from a low tide groundwater seep
- Analysis of soil samples for VOCs, SVOCs, TPH, PCBs, and metals
- Analysis of groundwater samples for VOCs, SVOCs, TPH, PCBs, metals (dissolved and total), TOC, pH, TSS, conductivity, and chloride
- Assessment of groundwater flow directions

The results of the investigation were previously presented in the "Preliminary Site Investigation, Volume I" (Hart Crowser, 1994), in the "Supplemental Monitoring Well Installation and Groundwater Sampling and Analysis Report" (Hart Crowser, 1994), and the "PRI Source Identification Program Report" (CRA, 1996).

2.1.6 PRI Soil and Groundwater Investigation (1995)

In March and August 1995, PRI conducted a soil and groundwater investigation at 709 Alexander Avenue to further evaluate the extent and potential sources of groundwater contamination. The field activities included:

- Collection of soil samples from 11 test pit excavations

- Installation of 12 monitoring wells
- Collection of 28 soil samples from test pits and soil borings completed during monitoring well installation
- Collection of groundwater samples from the 8 existing and 12 newly installed monitoring wells
- Analysis of soil samples for VOCs, 4 test pit samples were additionally analyzed SVOCs and PCBs
- Analysis of groundwater samples for VOCs, ammonia as nitrogen, nitrate/nitrite as nitrogen, dissolved aluminum, pH, lead (dissolved and total), chloride, major and minor ions, and alkalinity
- Assessment of groundwater flow directions

Data from this investigation were previously presented in the "Soil and Groundwater Investigation (March and August 1995)" (Hart Crowser, 1995).

2.1.7 Embankment Investigation (1996)

In 1996, OCC conducted an investigation to define the extent of chemical presence in the embankment materials located within and above the intertidal zone. Field activities associated with this investigation were conducted between March 20 and April 5, 1996, and included:

- Installation of 15 borings within and above the intertidal zone of the embankment
- Collection of composite sediment/soil samples from the 15 borings within and above the intertidal zone of the embankment
- Collection of 20 surface composite samples of sediment, soil, and fill from 42 locations in the upland and embankment areas of the Site
- Collection of groundwater samples from 7 groundwater monitoring wells
- Analysis of soil/sediment and fill samples for VOCs, SVOCs, pesticides, PCBs, metals, and TPH

Bulk chemistry data from this investigation were previously presented in the "Embankment Area Characterization Report" (CRA, 1999).

2.1.8 Embankment Area Investigation (1998)

After initial review of the 1996 investigation data, OCC conducted an additional investigation to further characterize the embankment pursuant to the AOC, as originally executed by USEPA and OCC in 1997. Field sampling activities for the further characterization were performed as

outlined in the "Sampling and Analysis Plan – Embankment Area Removal Action" (CRA, 1997). Field activities associated with the investigation were conducted between January 6 and April 1, 1998, and included:

- Installation of 12 soil borings in the embankment area of the Site
- Collection of 22 surface debris samples (anodes, red brick, concrete, and slag)
- Collection of 176 surface sediment and sludge samples from the embankment area of the Site
- Collection of seep samples during outgoing tides from 16 seep locations on the embankment area of the Site
- Collection of porewater samples and seep precipitant from 2 milky seep locations on the embankment area of the Site
- Analysis of soil samples from embankment area borings for grain size, moisture content and asbestos
- Analysis of milky seep porewater, and leachate prepared from surface debris, sediment, sludge, and milky seep precipitant for VOCs, SVOCs, pesticides, PCBs, and metals using the SPLP
- Analysis of seep samples for VOCs, SVOCs, pesticides, PCBs, and metals

Data from this investigation were previously presented in the "Embankment Area Characterization Report" (CRA, 1999).

2.1.9 Supplemental Embankment Investigation (1998)

In October 1998, OCC conducted supplemental investigation activities to obtain additional leachate data for the embankment. Field sampling activities for this supplemental investigation were performed as outlined in the "Work Plan – Supplemental Embankment Characterization" presented in Appendix F of the "Embankment Area Characterization Report" (CRA, 1999). Field activities associated with this supplemental investigation were conducted between October 8, 1998 and January 7, 1999, and included:

- Collection of seep samples from 3 embankment seeps
- Collection of interstitial water from 4 piezometer pairs installed in the embankment
- Analysis of seep and interstitial water samples for pesticides and dissolved metals

Data from this investigation were previously presented in the "Supplement A to the Embankment Area Characterization Report" (CRA, 1999).

2.1.10 Rapid pH Assessment (2002-2004)

OCC conducted a groundwater investigation focused in the Embankment Area, referred to as the Rapid pH Assessment, under Task A4 of the "Draft Work Plan, Groundwater Remediation, Embankment Area Removal Action and Area 5106 Capping" (CRA, 2004). The purpose of the Rapid pH Assessment was to further delineate the plume of elevated pH groundwater through sampling of groundwater from discrete intervals in borings advanced within the Embankment Area. Field activities associated with the Rapid pH Assessment were conducted in two phases between November 2002 and January 2003 (Phase I) and January 2004 and February 2004 (Phase II) and included:

- Installation of 89 soil borings within the embankment area
- Collection of 263 groundwater samples from discrete intervals in soil borings
- Collection of groundwater samples from 9 monitoring wells
- Collection of 87 seep samples from 43 seep locations along the embankment
- Analysis of groundwater samples from monitoring wells and soil boring for VOCs, alkalinity, chloride, sulfate, metals, silicon, total dissolved solids (TDS), specific gravity, and pH
- Analysis of samples from seep locations for VOCs, alkalinity, hydroxide, chloride, sulfate, metals, silicon, TDS, specific gravity, and pH

The results of the Rapid pH Assessment activities were previously presented in the "Draft Rapid pH Assessment Report (Revised July 1, 2004)" (CRA, 2004).

2.1.11 Area 5106 Post-Treatment Characterization (2003)

In March 2002, USEPA, OCC, and other parties agreed in order to maintain cleanup schedules, among other reasons, that USEPA should issue three unilateral administrative orders (UAOs) pertinent to the Waterway. Activities pertinent to Area 5106 were addressed by one such UAO (Docket No. CERCLA 10-2002-0066), which was eventually terminated by the AOC, as amended in 2005. OCC conducted an investigation to characterize the sediments within the relatively flat portion of Area 5106 following the completion of the dredging and treatment of Area 5106 sediment. Field activities associated with the investigation were conducted between July 21, 2003 to July 25, 2003, in accordance with the SAP and the QAPP approved by USEPA as Appendices A and B of the "Post-Treatment Work Plan" (CRA, 2003). Field activities included:

- Collection of 9 sediment cores to a minimum of 10 ft below the mudline from within the 5106 dredging area
- Collection of 98 discrete sediment samples from each core at 1-ft intervals

- Collection of 23 groundwater samples from 5 of the 9 sediment core locations at 2-ft intervals
- Physical characterization of sediment samples including: grain size, vane shear testing, and vertical hydraulic conductivity/site-specific seepage induced consolidation tests on recently deposited sediments
- Analysis of sediment samples for TOC, TCE, PCE, HCB, and HCB
- Analysis of groundwater samples for TOC, TCE, and PCE

Data from this investigation were previously presented in the "Post-Treatment Characterization Report" (CRA, 2003).

2.1.12 Preliminary Investigation and Assessment of Techniques – Groundwater Discharge to the Hylebos Waterway (2004)

USEPA and Ecology conducted a joint investigation of groundwater discharge to the Waterway in 2004. The goals of the investigation were to gain a better understanding of the distribution and transport of contaminants in the subtidal zone of the Waterway, and to identify the most efficient and effective techniques for delineating and quantifying groundwater discharge during future comprehensive investigations.

Field activities associated with the investigation were conducted between April and August 2004. Field activities included:

- Diver inspection of the Waterway for evidence of discharging groundwater.
- Conductivity, temperature, and depth surveys to identify contrasts in surface water conductivity and temperature.
- Installation of 9 piezometers to collect groundwater samples and measure relative hydraulic heads in the groundwater and Waterway. Groundwater samples were analyzed for VOCs, SVOCs, and metals.
- Deployment of passive diffusion samplers to measure the quality of the ambient sediment porewater. Porewater samples were analyzed for VOCs.
- Installation of seepage meters to quantify groundwater discharge into the Waterway.

Conclusions drawn from this investigation were used by the Agencies and OCC to develop the scope of subsequent subtidal investigations.

2.1.13 Supplemental Investigation (2004)

OCC conducted this investigation under Task A3 of the SOW to further characterize the nature and extent of the groundwater, soil, and sediment contamination at the Site. The field activities associated with this investigation were conducted between January 2004 and July 2004 and included:

- Installation of 31 soil borings to further delineate the pH plume
- Installation of 5 groundwater monitoring wells to further delineate the pH plume
- Sampling of 3 seeps to further delineate the pH plume
- Installation of 16 soil boring to further delineate the northern extent of the groundwater COC plume
- Installation of 6 groundwater monitoring wells to further delineate the embankment area COC plume adjacent to Dock 2
- Sampling of 30 seeps to further delineate the embankment area COC plume adjacent to Dock 2
- Installation of 14 paired monitoring wells for hydraulic monitoring of existing E and F-Branch injection wells
- Sampling of 4 monitoring wells for Appendix IX Analytes
- Installation of 3 soil borings to further characterize COC presence in WMU H
- Installation of 2 soil borings to further characterize COC presence in WMU C
- Installation of 5 soil borings to further characterize COC presence in the former N Landfill area
- Installation of 10 soil borings to further characterize COC presence in WMU A
- Analysis of groundwater samples from soil borings, groundwater monitoring wells, and seeps from the Embankment Area pH plume for Alkalinity, Silica, and pH
- Analysis of groundwater samples from the northern extent soil borings for Upland Groundwater COCs (VOCs and pH)
- Analysis of groundwater samples from Dock 2 and E and F-Branch monitoring wells for Embankment Areas COCs (VOCs, SVOCs, PCBs, Metals, pH, and specific gravity)
- Analysis of soil samples from the WMU-H, WMU-C, and N-Landfill soil borings for Embankment Areas COCs (VOCs, SVOCs, PCBs, and Metals)
- Analysis of soil samples from WMU-A for target compound list VOCs and SVOCs

The data collected during this investigation was previously presented in the "Interim Data Report, Supplemental Field Investigation" (CRA, 2004).

2.1.14 Area 5106 Slope Investigation (2004)

The data collected from the borings installed for the Area 5106 Post-Treatment Characterization (2003) were not sufficient to fully define the extent of the residual chlorinated organic chemistry within the sediment and groundwater beneath and adjacent to Area 5106. Therefore, in order to further characterize the nature and extent of residual contamination in the area, additional borings were installed as part of the Supplemental Investigations (2004). Field activities related to these borings began on June 9, 2004, were completed on June 30, 2004, and included:

- Installation of 9 soil borings beneath and adjacent to area 5106
- Analysis of groundwater and sediment samples for VOCs (TCE and PCE) and SVOCs (HCB and HCBD)

2.1.15 709/721 Alexander Avenue Investigation (2004)

OCC conducted an investigation of the 709/721 Alexander Avenue properties in accordance with the SAP and the QAPP presented in Appendices G and H of the "Draft Work Plan (Revised 6/16/2004)," approved by USEPA and Ecology. Field activities associated with the investigation were conducted between March and July 2004 and included:

- Installation of 17 groundwater monitoring wells
- Collection of 50 groundwater samples from 18 monitoring wells and from discrete intervals in 10 direct push borings
- Completion of a hydraulic monitoring event
- Sampling of 8 seeps and 5 piezometers
- Analysis of groundwater samples for VOCs and pH

Chemistry data collected during this investigation were previously presented in the "Interim Groundwater Analytical Data Summary - 709/721 Alexander Avenue" (CRA, 2004). Hydraulic data collected during this investigation were previously presented in the memorandum "Interim Deliverable 4.6: Presentations of Hydraulic Data from 709/721 Alexander Investigation" (CRA, 2007).

2.1.16 Additional Supplemental Investigations (2005-2006)

The Sampling and Analysis Plan (SAP) and the Quality Assurance Project Plan (QAPP) for this investigation were conditionally approved by USEPA and Ecology on October 25, 2005 following

a partial approval on May 23, 2005. Field activities for the investigation began on May 31, 2005, were completed on September 27, 2006, and included:

- Installation and collection of soil and groundwater samples from 3 soil borings within the subtidal area of the Site
- Installation and collection of soil and groundwater samples from 32 soil borings to further characterize COC presence in WMU A
- Installation and collection of soil and groundwater samples from 24 soil borings to further characterize COC presence in the N Landfill
- Installation and collection of soil and groundwater samples from 8 soil borings within and adjacent to the salt pad
- Installation and collection of soil and groundwater samples from 5 soil borings within and adjacent to the caustic house
- Installation and collection of groundwater samples from 2 soil borings adjacent to Dock 2
- Installation and collection of groundwater samples from 2 soil borings adjacent to the E-Branch injection wells
- Analysis of soil samples from the subtidal area for PCE, HCB, and HCBd
- Analysis of groundwater samples from the subtidal area for Embankment Area/Subtidal Groundwater VOCs, SVOCs, PCBs, metals, pH, and DOC
- Analysis of soil and groundwater samples from WMU A for Upland Groundwater VOCs, pH, and TOC
- Analysis of soil and groundwater samples from N Landfill for Embankment Area Subtidal COCs or Sediment/Porewater COCs including VOCs, SVOCs, pesticides/PCBs, metals, and pH
- Analysis of groundwater samples from the salt pad area for Embankment Area Subtidal VOCs, SVOCs, PCBs, metals, and pH, as well as, sodium, hydroxide, chloride, TDS, and specific gravity
- Analysis of soil samples from the salt pad area for Embankment Area Subtidal VOCs, SVOCs, PCBs, metals, and pH, as well as, sodium and chloride
- Analysis of groundwater samples from the E-Branch injection well area for Upland Groundwater VOCs and pH
- Analysis of groundwater samples from the caustic house area for Embankment Area Subtidal VOCs, metals, and pH, as well as, sodium, chloride, TDS, and specific gravity
- Analysis of soil samples from the caustic house area for Embankment Area Subtidal VOCs, metals, and pH, as well as, sodium and hydroxide
- Analysis of groundwater samples from the Dock 2 area for Upland Groundwater VOCs and pH

- Collection of groundwater samples for analysis of natural attenuation parameters as described in Section 2.18
- Collection of 309 soil samples from 29 locations within WMU A and N Landfill to archive for possible future PCDD/F and PCB congener analysis

2.1.17 Subtidal/Hydraulic Investigation (2005-2006)

The SAP and QAPP for this investigation were conditionally approved by USEPA and Ecology on May 20, 2005. Field activities for the investigation began on June 30, 2005, were completed on August 22, 2006, and included:

- Collection of groundwater and sediment/soil samples at discrete intervals from 99 subtidal borings
- Completion of 2 Site-wide groundwater sampling events (pre and post-extraction system shutdown) including groundwater monitoring wells, subtidal piezometers, and extraction wells
- Installation of 13 down-hole transducer groups at 10 subtidal locations and 3 upland locations on the east side of the Waterway
- Collection of sediment/soil and groundwater samples at discrete down-hole transducer elevations
- Collection of groundwater and sediment/soil samples at discrete intervals from 3 upland borings installed adjacent to the embankment area at Dock 1
- Completion of a seepage meter monitoring program, 26 seepage meters, to determine the nature and extent of groundwater to the Waterway during various phases of the tide cycle
- Analysis of groundwater, sediment, and soil samples from subtidal borings for Embankment Area/Subtidal Groundwater VOCs, SVOCs, PCBs, metals, and pH
- Analysis of pre-extraction system shutdown groundwater samples from the monitoring wells and extraction wells for Upland Groundwater VOCs, pH, DOC, specific gravity, sodium, TDS, chloride and natural attenuation parameters identified in Section 2.18
- Analysis of pre-extraction system shutdown groundwater samples from the subtidal piezometers for Embankment Area/Subtidal Groundwater VOCs, SVOCs, PCBs, metals, pH, DOC, specific gravity, sodium, TDS, chloride and natural attenuation parameters identified in Section 2.18
- Analysis of post-extraction system shutdown groundwater samples from the monitoring wells, extraction wells, and subtidal piezometers for DOC, specific gravity, sodium, TDS, and chloride

- Analysis of sediment/soil and groundwater samples from down-hole transducer locations for vertical hydraulic conductivity, grain size distribution, TOC, and moisture content (soil/sediment) and specific gravity, sodium, TDS, chloride, and, at select locations, natural attenuation parameters identified in Section 2.18 (groundwater)
- Analysis of groundwater, sediment, and soil samples from upland borings adjacent to Dock 1 for Embankment Area/Subtidal Groundwater VOCs, SVOCs, PCBs, metals, and pH
- Analysis of groundwater discharge samples from 19 seepage meter locations for Embankment Area/Subtidal Groundwater VOCs, SVOCs, PCBs, metals, and pH

2.1.18 Geophysical Survey (2006)

A comprehensive geophysical survey of the Waterway was conducted adjacent to the Site. The scope of work and objectives for the geophysical survey were developed by USEPA and Ecology and provided to OCC on March 27, 2006. Following minor revisions, the scope of work was finalized and approved by USEPA and Ecology on April 11, 2006. Field activities associated with the geophysical survey were conducted between April 10 and May 5, 2006, and included:

- Sidescan sonar and bathymetric surveys
- High-resolution conductivity survey
- Subbottom profile survey
- Marine electrical resistivity imaging survey

2.1.19 Focused Investigation of Dioxin/Furan and PCB Congeners (2006-2007)

The SAP and QAPP for this investigation were conditionally approved by USEPA and Ecology on January 8, 2007 following partial approval of the SAP on November 22, 2006. Field activities for the investigation began on November 28, 2006, were completed on February 2, 2007, and included:

- Analysis of 10 archived soil samples from WMU A for PCDD/F and PCB congeners
- Analysis of 1 archived soil sample from the N Landfill for PCDD/F and PCB congeners
- Installation of 6 subtidal and 1 upland boring east of the N Landfill
- Installation of 1 upland boring in the N Landfill
- Installation of 2 upland borings in the Navy-Todd Dump area
- Installation of 4 intertidal/subtidal borings under Pier 25
- Installation of 2 intertidal/subtidal borings under Dock 1

- Installation of 4 subtidal borings in the Waterway
- Collection of groundwater samples from 3 groundwater monitoring wells, each groundwater treatment plant extraction branch, and 1 seep location
- Analysis of soil and groundwater samples for from discrete intervals within each boring and groundwater and seep samples for PCDD/F and PCB congeners

2.1.20 Natural Attenuation Investigation (2006)

During the Subtidal/Hydraulic Investigation (2005-2006) and the Additional Supplemental Investigations (2005-2006), OCC collected groundwater samples for analysis of natural attenuation parameters. The groundwater samples were collected from beneath the Waterway and from upland portions of the Site. In total, 79 groundwater samples were collected from 8 background, 20 elevated VOC, 4 downgradient, and 3 beyond downgradient locations. Samples were analyzed for VOCs, metals (iron, manganese, and sodium), gases (ethane, ethene, and methane), alkalinity, ammonia, biochemical oxygen demand (BOD), chemical oxygen demand (COD), nitrate, nitrite, orthophosphate, sulfate, sulfide, and TOC.

2.1.21 pH Pilot Study (2006-2010)

The pH Pilot Study, performed under Task B4 of the SOW, was completed in three phases to assess the feasibility and effectiveness of treating groundwater and soil utilizing in-situ and ex-situ methodologies as a means to control sources of elevated groundwater pH. The study included:

Phase I pH Pilot Study

- Construction of a Ferrous Sulfate (FeSO₄) mixing plant and mobile injection trailer
- Injection of FeSO₄ and post-injection monitoring at 4 test locations (PS#1 to PS#4)

Pilot Test Area #1

- Installation of 4 temporary monitoring wells and an injection point
- Injection of 2,000 gallons of an 18 percent (%) FeSO₄ solution at 8 gpm
- Monitoring of injection parameters in real-time (pressure, flow rate, and pump speed) during injection
- Collection of groundwater samples and real-time water quality parameter monitoring from 4 temporary monitoring wells
- Installation of 6 post-injection Geoprobe borings within the test area
- Collection of groundwater samples from Geoprobe borings to determine area influence

- Pre and post-injection hydraulic testing of temporary monitoring wells to determine injection impacts to aquifer hydraulic properties
- Analysis of pre and post-injection groundwater samples for field parameters (pH, conductivity, dissolved oxygen [DO], temperature, and oxidation-reduction potential [ORP])

Pilot Test Area #2

- Installation of 6 temporary monitoring wells and an injection point
- Injection of 2,000 gallons of an 18% FeSO₄ solution at 4 gpm
- Monitoring of injection parameters in real-time (pressure, flow rate, and pump speed) during injection
- Collection of groundwater samples and real-time water quality parameter monitoring from 6 temporary monitoring wells
- Installation of 12 post-injection Geoprobe borings within the test area
- Collection of groundwater samples from Geoprobe borings to determine area influence
- Pre and post-injection hydraulic testing of temporary monitoring wells to determine injection impacts to aquifer hydraulic properties
- Analysis of pre and post-injection groundwater samples for field parameters (pH, conductivity, DO, temperature, and ORP) and laboratory analysis for iron, sulfate, and alkalinity
- Long-term monitoring of pH rebound and field parameters in temporary monitoring wells

Pilot Test Area #3

- Installation of 5 temporary monitoring wells and an injection point
- Injection of 2,000 gallons of an 9% FeSO₄ solution at 4 gpm
- Monitoring of injection parameters in real-time (pressure, flow rate, and pump speed) during injection
- Collection of groundwater samples and real-time water quality parameter monitoring from 5 temporary monitoring wells
- Installation of 5 pre-injection and 15 post-injection Geoprobe borings within the test area
- Collection of groundwater samples from Geoprobe borings to determine area influence
- Pre and post-injection hydraulic testing of temporary monitoring wells to determine injection impacts to aquifer hydraulic properties

- Analysis of pre and post-injection groundwater samples for field parameters (pH, conductivity, DO, temperature, and ORP) and laboratory analysis for iron, sulfate, alkalinity, and metals
- Collection of 3 soil samples from monitoring well installations for initial soil alkalinity testing and 3 soil samples from post-treatment Geoprobe boring installations for residual soil alkalinity testing
- Long-term monitoring of pH rebound and field parameters in temporary monitoring wells

Pilot Test Area #4

- Installation of 5 temporary monitoring wells and an injection point
- Injection of 1,150 gallons of an 18% FeSO₄ solution at 12 to <1 gpm
- Monitoring of injection parameters in real-time (pressure, flow rate, and pump speed) during injection
- Collection of groundwater samples and real-time water quality parameter monitoring from 5 temporary monitoring wells
- Installation of 5 pre-injection and 13 post-injection Geoprobe borings within the test area
- Collection of groundwater samples from Geoprobe borings to determine area influence
- Pre and post-injection hydraulic testing of temporary monitoring wells to determine injection impacts to aquifer hydraulic properties
- Analysis of pre and post-injection groundwater samples for field parameters (pH, conductivity, DO, temperature, and ORP) and laboratory analysis for iron, sulfate, alkalinity, and metals
- Long-term monitoring of pH rebound and field parameters in temporary monitoring wells

Phase II pH Pilot Study

- Installation of an injection well with multiple screens and sand packs for use with packers to test a more controlled injection method
- Construction of a constant head reagent feed tank to provide a steady, low-pressure reagent injection
- Installation of 3 temporary standard groundwater monitoring wells
- Installation of 4 Continuous Multi-Channel (CMT) monitoring wells
- Injection of 3,700 gallons of an 18% FeSO₄ solution at <2 gpm
- Monitoring of injection parameters in real-time (pressure, flow rate, and pump speed) during injection

- Collection of groundwater samples and real-time water quality parameter monitoring from 3 temporary monitoring wells and 4 CMT wells
- Pre and post-injection hydraulic testing of temporary monitoring wells to determine injection impacts to aquifer hydraulic properties
- Analysis of pre and post-injection groundwater samples for field parameters (pH, conductivity, DO, temperature, and ORP) and laboratory analysis for iron, sulfate, alkalinity, and metals
- Long-term monitoring of pH rebound and field parameters in temporary monitoring wells and CMT wells

Phase III pH Pilot Study

- Collection of 9 bulk elevated pH and one bulk neutral pH groundwater samples for in-situ and ex-situ laboratory treatability testing
- Collection of 1 bulk seawater sample for ex-situ seawater reaction testing
- Collection of 1 bulk city water sample for ex-situ city water dilution testing
- Collection of 1 bulk Production Well groundwater sample for Production Well dilution sampling
- Installation of 3 groundwater monitoring wells
- Collection of 6 bulk soil samples for soil mixing testing
- Conducting in-situ groundwater treatability titration testing on filtered and unfiltered bulk groundwater samples using acetic acid, citric acid, hydrochloric acid, nitric acid, sulfuric acid, phosphoric acid, carbonic acid, ferrous sulfate, and sodium bisulfate recording pH changes, solids formation, dissolved silica concentration changes, viscosity changes, stability of solids formed, and other observations (i.e., gel/precipitant formation, color changes, temperature changes, etc.)
- Conducting ex-situ treatment tests on groundwater samples using city water for dilutions, Production Well water for dilutions, seawater for reactions/dilutions, and groundwater mixing (groundwater from varied on-Site potential sources) followed by testing similar to in-situ treatability titrations
- In-situ soil treatment (mixing) tests on bulk soil samples using acetic acid, citric acid, hydrochloric acid, nitric acid, sulfuric acid, phosphoric acid, ferrous sulfate, and sodium bisulfate, and recording pH measurements, volume/concentrations of reagent needed to neutralize pH, TDS, and dissolved silica in porewater, and other observations (i.e., drying, gelling, solidification, etc.)
- Geochemical modeling to determine whether laboratory results could be simulated with a model

2.1.22 Production Well Investigation (2009-2010)

Preliminary investigation activities to locate and assess the Former Production Well were performed between August 19, 2009 and December 2, 2009. Work Plans for this investigation were approved by USEPA and Ecology on March 16, 2010 (Phase I) and May 20, 2010 (Phase II). Field activities for the investigation began on March 15, 2010, were completed on August 23, 2010, and included:

- Installation of 4 groundwater monitoring wells in a cluster adjacent to the Production Well
- Collection of undisturbed soil samples and groundwater samples during the installation of the deepest monitoring well
- Conducting geophysical borehole logging of the deepest well in the cluster
- Collection of groundwater samples from the 4 newly installed monitoring wells, 4 existing monitoring wells, the Production Well, and the nearby Buffelen Production Well
- Completion of a hydraulic monitoring event to evaluate the potential influence of the deep artesian aquifer on shallow groundwater due to the Production Well
- Analysis of groundwater samples for isotopic ratios of ^{18}O and ^2H , major, minor, and trace ion geochemical parameters

2.1.23 Comprehensive Supplemental Investigation (CSI) (2012-2014)

USEPA and Ecology provided preliminary approval on January 26, 2012 for installation of 8 multichannel monitoring wells, conditional approval on April 16, 2012 for remaining field tasks, and final approval on July 26, 2012. Drilling activities began on February 14, 2012 and were completed on October 2, 2012, with remaining field activities completed in January 2014. Activities associated with the CSI included:

- Installation of 22 multi-channel monitoring wells (CMT wells) and permanent transducers to monitor groundwater and hydraulic properties in the 25-, 50-, 75-, 100-, 130-, and 160-ft zones
- Installation of permanent transducers within the geologic unit approximately 30 ft below the glacial contact to monitor hydraulic properties in glacial deposits
- Installation of 11 standard monitoring wells to supplement the existing monitoring network
- Installation of 46 soil borings in suspected potential source areas for VOCs and pH, and in WMUs L and M
- Collection of soil samples and groundwater grab samples from soil borings for chemical analysis, as well as collection of soil samples for geotechnical analysis

- Installation of 2 subtidal borings to obtain groundwater density data in the vicinity of subtidal piezometer WW-A1 and collection of groundwater and soil grab samples for chemical analysis
- Collection of groundwater samples from existing and newly installed monitoring wells
- Analysis of groundwater and soil samples for VOCs, SVOCs, PCBs, metals, dioxins/furans, polychlorinated naphthalenes, mineralogy, geochemistry, acetylene, field parameters, and/or specific gravity
- Expansion of the monitoring network on the 709/721 Alexander Avenue properties with 34 boreholes and 32 monitoring wells and analysis of soil and groundwater samples for petroleum-related compounds in addition to Site COCs
- Completion of the Event 3 Hydraulic Monitoring Program over the course of a 14-week period to update the groundwater flow models
- Collection of seawater samples from the Waterway, Blair Waterway, and Commencement Bay for geochemical analysis

2.1.24 Extraction Well Pilot Test Investigation (2013-2014)

USEPA and Ecology provided approval of the *Extraction Well Pilot Test Installation (EWPT) Work Plan* (CRA, 2013a) on June 18, 2013. The objectives of the EWPT Work Plan were to: partly fill recently identified data gaps concerning the spatial distribution and migration of dense non-aqueous phase liquid (DNAPL) and the pH, anthropogenic density plume (ADP), and chlorinated volatile organic compound (CVOC) plumes; aid in the assessment of VOC potential source zones; and, aid in the evaluation of treatment technologies in the FS. The field activities commenced on June 18, 2013 and were completed on January 21, 2014. Activities associated with the EWPT Work Plan included:

- The installation and development of two test extraction wells (EXT-7 and EXT-9) in areas of high CVOC concentrations
- The installation and development of three monitoring well nests (near EXT-9 and location F and G)
- The advancement and sampling of two soil borings for DNAPL screening at locations A and B
- Collection of soil samples for pH and selected CVOC analysis
- Collection of groundwater grab and monitoring well samples for pH, density, and selected CVOC analysis
- Performance of Geokon transducer field calibration checks at 11 locations in the 130-ft and 160-ft zones

The remaining activities to be completed under the EWPT Work Plan are the performance of step-drawdown and constant-rate pumping tests on EXT-7 and EXT-9.

2.1.25 Soil Vapor Intrusion Investigation (2013)

USEPA provided approval on February 22, 2013 for collection of 17 sub-slab vapor and 21 indoor air samples at nine buildings on and in the vicinity of the OCC Site, referred to as round one. The purpose of the investigation was to conduct a Tier II Assessment of the vapor intrusion pathway, as described in the Washington State Department of Ecology's (Ecology's) Review Draft *Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action* (Draft VI Guidance) (Ecology, 2009), and in accordance with the USEPA's interim final Vapor Intrusion Framework (USEPA, 2009). The Tier II Assessment involves characterizing vadose zone soil vapor and indoor air quality, and determining whether volatile organic compounds (VOCs) are present in soil vapor, and ultimately and more importantly, in indoor air at sufficient concentrations to potentially pose a risk to occupants. Installation activities for sub-slab soil probes began on March 26, 2013, and sample collection was completed April 26, 2013. Activities associated with the Soil Vapor Investigation round one included:

- Installation of 17 sub-slab soil probes in buildings throughout the Site with potential for vapor intrusion
- Collection of 17 sub-slab vapor samples using Summa canisters
- Collection of 17 indoor air samples using Summa canisters at each sub-slab sample location
- Collection of 3 additional indoor air samples at locations of potential VOC sources which could not be eliminated and at 1 location where no sub-slab sample could be collected
- Collection of 9 outdoor air samples using Summa canisters upwind from indoor air/sub-slab sample locations
- Analysis of sub-slab, indoor air, and outdoor air samples for VOCs

Round two sampling plan was approved by USEPA on June 11, 2013, which included collection of 9 sub-slab vapor and 17 indoor air samples at five building of the nine previously sampled buildings. The purpose of the investigation was to quantify potential variability of sample results over time and to compare with Round one data. Sample collection was completed July 9, 2013. Activities associated with the Soil Vapor Investigation round two included:

- Collection of 9 sub-slab vapor samples using Summa canisters
- Collection of 9 indoor air samples using passive samplers at each sub-slab sample location

- Collection of 8 additional indoor air samples using passive samplers at locations of potential VOC sources which could not be eliminated
- Collection of 4 outdoor air samples using passive samplers upwind from indoor air/sub-slab sample locations
- Analysis of sub-slab, indoor air, and outdoor air samples for VOCs

Round three sampling plan was approved by USEPA on March 12, 2014, which included collection of 18 sub-slab vapor and 33 indoor air samples at five building of the nine previously sampled buildings. The purpose of the investigation was to conduct sampling during the heating season (cold weather) to account for potential temporal variation of sub-slab vapor concentrations. Sample collection was completed March 21, 2014. Activities associated with the Soil Vapor Investigation round three included:

- Collection of 18 sub-slab vapor samples using Summa canisters
- Collection of 18 indoor air samples using Summa canisters at each sub-slab sample location
- Collection of 10 additional indoor air samples using Summa canisters at locations of potential VOC sources which could not be eliminated
- Collection of 5 additional indoor air samples using passive samplers at one indoor air sample location in each building
- Collection of 8 outdoor air samples using Summa canisters upwind from indoor air/sub-slab sample locations
- Collection of 6 additional outdoor air samples using passive samplers at selected outdoor air sample locations
- Analysis of sub-slab, indoor air, and outdoor air samples for VOCs

2.2 Previous Cleanup Actions

2.2.1 TCE/PCE Process Closure

The TCE/PCE process, which ceased operation in 1973, was dismantled in 1979. In 1980 and 1981, after the decommissioning of the TCE/PCE process, an extensive soil sampling and analytical program was conducted to delineate the extent of soil in the vadose zone containing chlorinated organics at concentrations greater than 150 milligrams per kilogram (mg/kg). These soils were excavated in 1981 and disposed of off Site. The analytical data from soil analyses in this area were previously submitted to USEPA/Ecology and were most recently summarized in the "Draft Work Plan, Focused Remedial Investigation/Feasibility Study," dated August 2002 and are also described in the "Compilation of Soils and Related Data" dated January 1999.

Approximately 1,850 cubic yards (cy) of soil were removed during this program. The excavation was backfilled with clean soil. The excavation project was conducted under the oversight of Ecology. Ecology field inspection reports are presented in the letter from J. Oberlander (Ecology) to L. Feller (OCC) dated June 16, 1981. Additional soils were removed from the TCE/PCE process area and disposed off Site in 1993/1994 during the construction of the groundwater treatment plant.

2.2.2 Waste Management Units

Seventeen WMUs were historically located on the Facility property. The locations of the WMUs, and the chemicals associated with them, are shown on Figure 1.4.

Prior to and subsequent to the Facility-wide RFI (referred to as RFI-I), OCC identified and characterized the WMUs at the facility. Where feasible to reduce their continued impact to Site groundwater, OCC implemented soil removal programs for closure of numerous WMUs. Descriptions and the activities or closures associated with the WMUs are as follows:

WMU A: WMU A was used as a settling pond for the effluent from the former TCE/PCE process. The effluent contained a slurry of lime, calcium chloride, and organics. A RCRA closure of WMU A was not conducted because the area predates the RCRA requirements; however, after the decommissioning of the TCE/PCE process, but prior to OCC's RCRA Application, the solids in the pond were removed and disposed of off Site.

In 1980, soil sampling and analyses were conducted within and surrounding the former WMU A on two occasions. The analytical data resulting from these soils analyses were previously submitted to USEPA/Ecology and were most recently summarized in the "Draft Work Plan, Focused Remedial Investigation/Feasibility Study" dated August 2002.

WMU B: WMU B, which was also known as Railcar Storage Area TC2, contained acid/organic waste from the chlorine plant stored in railroad tank car(s). USEPA and Ecology approved a clean closure of WMU B in 1995 without any soil removal activities. The certification of closure was presented in the letter from T. Vasko (OCC) to R. Smith (USEPA) and B. Warren (Ecology) dated March 9, 1995. A letter presenting "Verification of Closure for Rail Storage Area TC2" was sent from L. Wilhelm (Ecology) to M. Wassmann (OCC) April 19, 1995. The closure was based upon soils analytical data, which demonstrated that none of the chemicals being analyzed for were present in the soils at concentrations which exceeded the Model Toxic Control Act (MTCA) Method B values. These analytical data were previously submitted to USEPA/Ecology and were most recently summarized in the "Compilation of Soils and Related Data, Corrective Action Monitoring Program" dated January 1999.

WMU C: WMU C is a former landfill located at the north end of the Facility embankment along the Waterway. The landfill was used between 1949 and 1971 for disposal of unused lime and calcium chloride. Soil samples were collected and analyzed from WMU C in 1993, 1994, and 1996. The WMU C soils analytical data were previously submitted to USEPA/Ecology and were most recently summarized in the "Summary of Previous Investigations" dated March 2004.

WMU D: WMU D consisted of drainage ponds for the TCE/PCE manufacturing process. A RCRA closure of WMU D was not conducted. However, after the decommissioning of the TCE/PCE process, but prior to OCC's RCRA Application, the solids in the pond were removed and disposed of off Site. The excavation was conducted under the oversight of Ecology. Ecology field inspection reports are presented in the letter from J. Oberlander (Ecology) to L. Feller (OCC) dated June 16, 1981.

In 1980, soil sampling and analyses were conducted within and surrounding former WMU D in conjunction with the decommissioning of the TCE/PCE process. The analytical data resulting from these soils analyses were previously submitted to USEPA/Ecology and were most recently summarized in the "Draft Work Plan, Focused Remedial Investigation/Feasibility Study" dated August 2002.

WMU E: WMU E, located within the limits of WMU A, was used as a drum storage area and was closed in conjunction with WMU A. There are no records of soil sampling conducted within the limits of WMU E.

WMU F: WMU F was the location for barges used in the settling out of the slurry from the TCE/PCE manufacturing process (see description of WMU A above). WMU F is located within the limits of the Area 5106 Sediment remediation area.

WMU G: WMU G was used as a settling pond for the effluent from the TCE/PCE manufacturing process (see description of WMU A above). The contents of the pond were removed and disposed of off Site prior to OCC's RCRA Application. The salt pad, which has an asphalt base, was then constructed over the location of WMU G. There are no records of soil sampling conducted in this area prior to the recent investigations.

WMU H: WMU H consisted of a series of settling ponds for the effluent from the TCE/PCE manufacturing process (see description of WMU A above) and was used between 1949 and 1952. When the ponds were decommissioned, the contents were removed and disposed of off Site. Remaining soils above the water table were excavated during the TCE/PCE process closure to the depth of the water table surface and disposed of off Site. Analytical soil samples were collected from three locations within WMU H in 1996. The WMU H soils analytical data were

previously submitted to USEPA/Ecology and were most recently summarized in the "Summary of Previous Investigations" dated March 2004.

WMUs I and J: WMU I and WMU J, also known as Railcar Storage Area TC3 and TC1, respectively, contained organic waste from the chlorine plant stored in railroad tank cars. A clean closure of WMU I and WMU J was approved by USEPA and Ecology in 1990 without any soil removal activities. The certification of closure was presented in the letter from B. Moore (OCC) to C. Findley (USEPA) and H. Steeley (Ecology) dated May 1, 1990. A provisional approval of the closures was provided in the letter from H. Steeley (Ecology) to B. Moore (OCC) dated August 20, 1990. The criterion for clean closure of these units was that analyte concentrations in all samples be lower than Site-specific background. The analytical data resulting from these soils analyses were previously submitted to USEPA/Ecology and were most recently summarized in the "Draft Work Plan, Focused Remedial Investigation/Feasibility Study" dated August 2002.

WMU K (Elementary Neutralization Unit): WMU K was used between approximately 1929 and 2002 for the neutralization of sulfuric acid with sodium hydroxide in the chlorine caustic process. Between 1929 and 1988, WMU K was located in the hot well trench west of injection well F-10. In 1988, an additional neutralization unit was added in the chlorine/caustic process area. (Both locations of WMU K are shown on Figure 1.4). No organic chemicals are associated with the unit. There are no records of soil sampling conducted in these areas.

WMU L: WMU L, also known as the Graphite Pile, was used from 1978 to 1980 to store graphite wastes generated by the breakdown of S-3 electrolytic cells. These wastes included halogenated hydrocarbons, lead, and carbon. There are no records of soil sampling conducted in this area.

WMU M: WMU M was used as an intermittent graphite pile from 1950 through 1978 to store graphite wastes generated by the breakdown of S-3 electrolytic cells. These wastes included halogenated hydrocarbons, lead, and carbon. There are no records of soil sampling conducted in this area.

N Landfill: The N Landfill was used from 1929 through 1971. This landfill received various plant process solid wastes, including corrosives, chlorinated organics, and lead. A characterization of the N Landfill was conducted in 1996 during the investigation referred to as the "PRI Source Identification Program." Soil samples were collected during the N Landfill characterization. The analytical data resulting from these soils analyses were previously submitted to USEPA/Ecology and were most recently summarized in the "Summary of Previous Investigations" dated March 2004.

WMU O: WMU O was used as a sodium aluminate pit from 1959 through 1960. Wastes stored within this pit included sodium hydroxide, sodium aluminate, and aluminum oxide. There are no records of soil sampling conducted in this area.

WMU P: WMU P, which was also known as the Waste Pile Area, was located adjacent to WMU Q. The waste pile was in a completely enclosed building authorized to store 40 cubic yards (cy) of solid regulated waste. Materials stored within the building originated from the renewal of the S-3 graphite anode electrolytic cells used in producing hydrogen and chlorine gases and sodium hydroxide solution from the electrolysis of a sodium chloride solution. The waste materials consisted of waste graphite (carbon) blades, butts, and stubs contaminated with lead and halogenated hydrocarbon residues, lead dross, and sealing mastic. The criterion for clean closure of WMU P was that analyte concentrations in all samples be lower than Site-specific background. Soils that did not meet the closure criteria were excavated and disposed of off Site. Confirmatory sampling was conducted following completion of the excavation. USEPA and Ecology approved a clean closure of WMU P in 1990. The certification of closure was presented in the letter from B. Moore (OCC) to C. Findley (USEPA) and H. Steeley (Ecology) dated May 1, 1990. A provisional approval of the closure was provided in the letter from H. Steeley (Ecology) to B. Moore (OCC) dated August 20, 1990. The analytical data resulting from these soils analyses were previously submitted to USEPA/Ecology and were most recently summarized in the "Draft Work Plan, Focused Remedial Investigation/Feasibility Study" dated August 2002.

WMU Q: WMU Q, which is also known as the Drum Storage Area, was used since the end of 1980 to store regulated wastes. Drums and other portable containers were stored in the designated container (drum) storage area located in the southwest portion of the Facility. Wastes potentially stored in the drum storage area could have included: chlorinated hydrocarbons, carbon tetrachloride, 1,1,1-trichloroethane, sodium hydroxide, sodium chloride, lab packs, contaminated clothing, spent graphite electrode blades, butts, mastic, lead dross, halogenated hydrocarbon contaminated residues, waste asbestos, electrostatic precipitator filter media, lead contaminated soils, corrosive solids, brine filter cake, and calcium chloride filter cake. Clean closure of WMU Q was certified by Ecology in the letter from L. Wilhelm (Ecology) to M. Wassmann (OCC) dated August 1, 1995 ("Verification of Closure for Drum Storage Area"). The closure was based upon soils analytical data, which demonstrated that none of the chemicals being analyzed for were present in the soils at concentrations which exceeded the MTCA method B values.

709 Alexander Avenue

WMUs are not known to have been present on the 709 Alexander Avenue property; however, storage tanks and transfer facilities related to petroleum handling operations were present.

Historical Site features on 709 and 721 Alexander Avenue are shown on Figure 1.6. Aboveground petroleum storage tanks were cleaned in 1989, and all tanks were removed from the property between 1989 and 1997. Structures associated with the topping plant were removed in 1985. Solid wastes associated with the former N Landfill extended into the berm area along the Waterway at the east end of the 709 Alexander Avenue property.

2.2.3 Groundwater Treatment and Containment System

The groundwater remedy selection for the Facility was conducted pursuant to the requirements of the Joint Permit for the Storage of Dangerous Waste (Permit), WAD009242314, dated November 1988. Based on the RFI-I, the Permit was modified to include the basic requirements for the groundwater remediation system. These requirements and the Permit condition in which they are contained included:

1. The type of system (V.D.1)
2. Performance criteria (V.D.1. i through iii)
3. Design parameters (V.D.2 through V.D.7)
4. Quality of injection water (V.D.10, modified August 26, 1996)
5. Groundwater cleanup standards (Tables 8 or 9 of the Permit)

Subsequently, OCC designed and constructed a groundwater remediation system consisting of groundwater extraction, treatment, and injection. Figure 2.2 presents the locations of the groundwater remediation system including treatment plant, extraction system, injection system, and the monitoring wells. OCC has operated the system in accordance with the Corrective Action Plan (CAP) since 1996. Potentiometric surface maps, drawn using monitoring data from monitoring wells as well as injection and extraction wells, have been used historically to evaluate the effectiveness of the hydraulic barrier to prevent upland contaminated groundwater from discharging into the Waterway. OCC and the Agencies have agreed that certain requirements relating to the Corrective Action Plan (CAP) and Corrective Action Monitoring Plan (CAMP) shown in Section 3 of the Amendment to the Agreed Order on Consent for Removal Activities Embankment and Area 5106, are held in abeyance by Ecology until the RI/FS process has been completed. During this period, Occidental Chemical Corporation will continue to maintain and operate the groundwater treatment and extraction system at historical rates of extraction until a new extraction/treatment system has been designed and implemented under a new agreed order or consent decree.

2.2.4 Area 5106 Removal Action

On September 29, 1989, a Record of Decision (ROD) was issued by USEPA for the Commencement Bay Nearshore/Tideflats (CB/NT) Superfund Site, which includes the Waterway. As required by the ROD, the Hylebos Cleanup Committee (HCC) conducted Hylebos Waterway Pre-Remedial Design (PRD) activities to provide additional information for implementation of the ROD. The PRD activities included the collection and analysis of sediment samples from the Waterway in 1994, including one sample (described as very soft and gelatinous with a pH of 9.4) from a location identified as Station 5106. This location is downstream from the 11th Street Bridge, in the area known as the mouth of the Waterway, and about 100 ft into the Waterway from the bank of the former OCC Facility. The analytical results from the Station 5106 sample showed a mixture of chlorinated organic chemicals totaling about 0.65% with PCE at 0.32% and TCE at 0.16% as the principal constituents. Additional samples taken in the vicinity of Station 5106 confirmed the earlier sample results. The test results indicated that the sediments in the vicinity of Station 5106 were not appropriate for disposal with the remainder of the Waterway sediments under any of the disposal options being considered in the PRD Study and, therefore, needed to be addressed independently.

In November 1997, USEPA and OCC Tacoma entered into an AOC (Docket No. 10-97-0011-CERCLA) to address the sediments in the vicinity of Station 5106, hereafter referred to as Area 5106 Sediment, as a non-time-critical removal action under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The AOC also addressed the embankments of the properties at 605 and 709 Alexander Avenue, referred to as the Embankment Area. However, the embankment chemistry and concentrations, the recommended removal action, and its implementation schedule were substantially different from that outlined for the Area 5106 Removal Action. Therefore, the Embankment Area Removal Action was addressed separate from the Area 5106 Removal Action.

The scope of the Area 5106 Removal Action was to address sediment with different chemical constituents and concentration than those found in surrounding Waterway sediment and that, if removed, would require treatment prior to disposal. As such, the Sediment Quality Objectives (SQOs) specified under the ROD did not establish the criteria for the removal action. Sediment that remained following the Area 5106 Removal Action, which exceeded SQOs but did not require treatment, was to be addressed in accordance with the ROD as part of the Waterway remedial action.

Dredging, treatment, and dewatering of Area 5106 Sediment began on October 15, 2002 and continued until February 28, 2003. The treated, dewatered sediment was stockpiled at the

treatment site until the construction of the Slip 1 Confined Disposal Facility (CDF) was completed. Placement of the treated sediment into the Slip 1 CDF began on January 23, 2003 and continued until March 28, 2003. Both the dredging and placement activities were extended beyond the planned February 15, 2003 completion date with the approval of USEPA and the resource agencies. In total, over 36,000 cy of Area 5106 Sediment and underlying native sediments were removed from the Waterway and treated prior to disposal in the Slip 1 CDF under USEPA oversight. The areal limits of the Area 5106 dredging are shown on Figures 1.4 and 2.1.

The entire Area 5106 dredging area was dredged to or below the design dredging elevations defined by the Area 5106 Sediment characterization pre-confirmatory sampling and analysis. All Area 5106 Sediment was therefore removed and treated prior to disposal into the Slip 1 CDF. Confirmation sampling, however, indicated that there was chlorinated organic contamination within the underlying native sediments. OCC presented a summary of the dredging compliance data in the Preliminary Completion Report for Area 5106 Dredging submitted to USEPA on March 10, 2003.

In a letter to OCC dated March 25, 2003, USEPA acknowledged the work completed and directed OCC to perform additional response actions pursuant to Sections X and XII of the Area 5106 UAO then in effect. In response, OCC submitted a Draft Post-Treatment Work Plan for Area 5106 Removal Action to USEPA on April 23, 2003. The Work Plan was revised based on USEPA comments and approved by USEPA on August 1, 2003. The approved Post-Treatment Work Plan included activities required to:

1. Characterize the sediment remaining within the areal limits of the Area 5106 dredging
2. Prepare an alternatives analysis report that will evaluate dredging or capping options based on the characterization and other pertinent factors
3. Recommend the appropriate alternatives and how those alternatives would be incorporated into the Segment 5 cleanup and/or the Embankment Area Removal Action

The Work Plan focused upon the relatively flat-bottom portion of Area 5106, where additional information was needed to make informed decisions about the Segment 5 Waterway dredge cuts within and around Area 5106. USEPA agreed that the additional data needed to adequately characterize sediment contamination within the steeply sloping portion of Area 5106 could be deferred and later incorporated into a Work Plan which would address both the steeply sloping portion of Area 5106 and the adjoining portion of the Embankment Area.

Subsequent to the approval of the Post-Treatment Work Plan, OCC and USEPA agreed to combine and integrate the Site's remedial activities/projects into the AOC, as amended to add

Ecology in 2005. Consequently, only the characterization activities within the relatively flat portion of the Area 5106 were performed. They are presented in Section 3.3 of this report.

2.2.5 Hylebos Waterway Cleanup Actions

The Waterway is a Class B Waterway, located within the POT, Washington. Flow from the Waterway is into Commencement Bay, located in the south Puget Sound. The Waterway was subdivided into five segments, and Waterway cleanup was completed in several phases. OCC and the POT jointly completed Segments 3, 4, and 5, as well as a portion of Segment 1, of the Hylebos Waterway Cleanup (described as the Mouth of the Hylebos).

The Mouth of the Hylebos Problem Area SOW included completing remedial design and remedial actions (RD/RA) in Segments 3, 4, and 5 and portions of Segment 1 of the Waterway (collectively referred to as the Mouth of the Hylebos Waterway Problem Area). The SOW also addressed all activities associated with the construction, filling, completion, operation and maintenance of the Nearshore Confined Disposal (NCD) Facility located at the Port of Tacoma's Slip 1. This SOW did not address activities in and/or adjacent to Segment 5 of the Waterway that are being performed under the Occidental Site AOC as amended February 2005.

The Mouth of the Hylebos Waterway Problem Area, located within the CB-N-T Superfund Site in Pierce County, Washington, is shown on Figure 1.1. Segment 5 included the area within the Waterway north of the East Eleventh Street Bridge. Segments 3 and 4, and a few parcels in Segment 1, are located within the Waterway south of the East Eleventh Street Bridge.

Segments 3, 4, and 5 were part of a comprehensive package of activities designed to remediate sediments from the Mouth of the Hylebos Waterway CERCLA area. The Waterway is part of the CB-N-T Site. The primary chemicals detected in the Waterway included hexachlorobenzene (HCB), hexachlorobutadiene (HCBD), polychlorinated biphenyls (PCBs), polyaromatic hydrocarbons (PAHs), and various metals and other organic chemicals.

Phase I of the Mouth of the Hylebos project was completed in February 2003, and consisted of construction of a Stage I containment berm for a Nearshore Confined Disposal Facility (NCD), on the Blair Waterway in the POT. Designated as Slip 1, Phase I NCD construction consisted of demolition and disposal of two existing piers, dredging of unsuitable foundation material at the mouth of the Slip, and construction of a containment berm up to an elevation of -5 ft mean lower low water (MLLW). Approximately 36,000 cy of treated sediments from the Area 5106 Removal Action were disposed of into the NCD through March 2003.

Phase II, initiated in July 2003, consisted of dredging sediments from Segment 5 of the Waterway, and placement via barge disposal into the Slip 1 NCD. Dredging of 254,000 cy of sediment was completed by February 2004.

The NCD facility had the capacity to allow for disposal of additional dredged sediments from areas not located within the Segments 3, 4, and 5 project areas. An additional 119,000 cy of sediment were received from other cleanup projects in the POT, including cleanup of the Middle Waterway, by the Middle Waterway Action Committee (MWAC), and cleanup of the Manke Lumber Yard area (Manke), located in Segment 1 of the Waterway.

Segment 5 also contained sediments that were approved for dredging and disposal at the Department of Natural Resources Disposal Site in Commencement Bay pursuant to the Puget Sound Dredged Disposal Analysis Program (PSDDA). Approximately 151,000 cy of dredged material were disposed of at the PSDDA open-water disposal site through February 2004.

As part of Phase III in 2004-2005, the Stage II berm was constructed from elevation -5 ft MLLW to +14 ft MLLW. This provided closure of the NCD from the Blair Waterway. To facilitate future placement of sediments into the NCD, a temporary transloading facility was constructed and operated to transfer sediments from barges on the Blair Waterway to a barge located within the NCD facility.

An additional 223,000 cy of sediments were dredged from Segments 3 and 4 of the Waterway and disposed of at the Slip 1 NCD. Work during this period included the disposal of sediments from other sources, with MWAC disposing of an additional 1,500 cy, and approximately 90,000 cy of sediment dredged by American Construction at their new facility, located at the former Taylor Way Properties, in Segment 4 of the Waterway. Work also included the demolition and disposal of miscellaneous pier and piling debris, slope reconstruction, collection of confirmation samples, and completion of the containment berm and Slip 1.

At the completion of disposal of all dredged sediments, additional capacity remained within the NCD, and a filling operation was completed to bring the elevation of fill in the Slip up to grade for the construction of the Primary Cap. Approximately 631,000 cy of dredged sediments were disposed at the Slip 1 NCD and approximately 270,000 tons of fill material were placed to bring the fill to grade. To construct the Primary Cap, an additional 213,000 tons of imported material and 31,000 cy of former buttress material were placed. The Primary Cap was completed in August 2005, prior to the POT's planned terminal expansion at Slip 1.

Completion of dredging activities was verified with confirmation sampling. Confirmation sediment sampling was also used to verify whether or not additional dredging or in-situ capping was required.

Figure 2.3 presents the post-dredging survey for the Mouth of the Hylebos Cleanup Action.

Section 3.0 Physical Characteristics

This section of the SCR provides a description of the physical characteristics of the Site and surrounding areas. This information provides the basis for the evaluation of potential contaminant transport pathways and receptor populations. In addition, the Site physical characteristics are important in the development and screening of remedial alternatives.

3.1 Climate

The Site lies within the Puget Sound Lowland at the northern end of the Puyallup River Valley. Figure 3.1 shows the Site location within the Puget Sound Lowlands. The Puget Sound Lowland climate is a mid-latitude humid, Pacific Coast marine climate, which is characterized by moderated summer and winter temperatures and a distinct winter precipitation season and summer dry season. Mean annual precipitation throughout the entire Puget Sound Lowland is 74 inches per year, and approximately 80% of the precipitation falls during October through March (Vaccaro et al., 1998). In general, precipitation is greater than the mean at high altitude regions within the Puget Sound Lowland, and lower than the mean at low altitude regions within the Puget Sound Lowland. The Site is located within the POT, and the mean annual precipitation (1971-2000) for the Tacoma area is estimated to be approximately 38.9 inches per year (National Oceanic and Atmosphere Administration, 2007). This is lower than the mean annual precipitation of 74 inches over the entire Puget Sound Lowland.

3.2 Regional and Site Physiography

3.2.1 Regional Physiography

The Puget Sound Lowland is bordered to the north by the Fraser River in British Columbia, Canada, the Cascade Range to the east, and the Olympic Mountains to the west. Towards the south, the boundary of the Puget Sound Lowland is approximately defined by the southern extent of Pleistocene glaciation. Figure 3.1 presents the location and features of the Puget Sound Lowland.

The Puget Sound Lowland includes alluvial river valleys with glacial outwash and till plains, referred to as "drift plains," which are separated from bordering mountains by uplands with hills and terraces. The transition from lowland valleys to upland drift plains is abrupt in some areas, and typified by steep bluffs. Altitudes of lowland valleys range from sea level to

approximately 500 ft above sea level. Upland altitudes range from about 500 ft to 1,500 ft above sea level.

3.2.2 Site Physiography

The Site is located within the POT at the mouth of the Puyallup River Valley. Figure 3.2 presents the topography of the POT and immediately surrounding area, and shows Puget Sound Bluffs (Bluffs) that surround the POT and the mouth of the Puyallup River Valley. The Site is located at the eastern edge of the POT on the peninsula between the Hylebos and Blair Waterways. The Bluffs are present just east of the Site, and rise approximately 350 ft above the ground surface at the Site peninsula.

The POT consists of five man-made peninsulas that were developed in the early 1900s by dredging to create navigable waterways. The dredged materials were used to create the peninsulas. The waterways were dredged through the natural tidal mud flats that existed at the mouth of the Puyallup River Valley. Figures 3.3 and 3.4 show the Site location relative to POT pre-development and post-development conditions, respectively.

The Site peninsula is relatively flat with an elevation of approximately 11.7 ft National Geodetic Vertical Datum (NGVD) (18 ft MLLW⁶). The embankment around the Site peninsula drops off steeply from the upland areas to the bottom of the Hylebos and Blair Waterways with horizontal to vertical slopes that typically range from 2:1 to 1:1.

The bottom of the Waterway is relatively flat at an elevation of approximately -35 ft MLLW (-41 ft NGVD), and consists primarily of silty sediments. Portions of the Waterway, however, have been dredged during the Hylebos Waterway Cleanup and the Area 5106 Removal Action to elevations as deep as approximately -41 ft MLLW (-47 ft NGVD). Along the east side of the Waterway, the bottom slopes up more gradually, becoming a tidal mud flat within the Puyallup Tribe of Indian's property. Bathymetric plots of the Waterway are presented on the USB drive attached as Appendix D.

Figure 3.5 shows the bathymetry of Commencement Bay beyond of the Site peninsula and POT. Figure 3.5 shows that Commencement Bay extends to depths of over 500 ft.

The ground surface on the Site peninsula is generally covered with structures, concrete pads, and asphalt paving. Small areas of gravel and vegetation also are present. Figure 3.6 shows the Site peninsula surface characteristics. The structures within the Former OCC Facility (605) and Mariana Properties (709) have been demolished and removed from the Site, leaving the

⁶ The conversion between ft MLLW and ft NGVD is: ft NGVD = ft MLLW – 6.32 ft.

roadways, concrete foundation and floor slabs. Only the buildings and structures related to the existing groundwater treatment system remain.

Utilities present on the Site include storm sewers, sanitary sewers, municipal water, power, and communication. Most are located underground, although some, particularly power and communication, are above ground. Components of the extraction and injection systems associated with the existing groundwater remediation system including concrete access vaults, underground piping and underground electrical conduits, are located across the northern portion of the Site.

There are three active docks (Pier 25, Dock 1, and Dock 2) located along the embankment. These docks extend from the top of the embankment, approximately 75 ft to the property line. In addition, there are two inactive docks located at the south end of the embankment. The surface cover of the embankment, from the top of bank to approximately -5 ft MLLW (-11 ft NGVD), consists of primarily of concrete rubble and crushed rock riprap. Debris consisting of brick, slag, and carbon graphite anodes is also present on portions of the embankment. The subtidal portion of the embankment, from -5 ft MLLW (-11 ft NGVD) to the bottom of the slope, consists of silty sediments along with some debris that has fallen from the upper portions of the embankment slope.

3.3 Regional and Site Hydrology

3.3.1 Regional Hydrology

The Site lies within the Puyallup-White Water Resource Inventory Area (WRIA), which is comprised of the Puyallup River, Carbon River, and White River Watersheds. The extent of WRIA 10 is presented on Figure 3.7. The Site is located at the endpoint of the Puyallup River Watershed. The Puyallup River Watershed originates at Mount Rainier (approximately 14,410 ft above sea level) and the Puyallup River flows towards Commencement Bay (at sea level).

The Puyallup River begins in two forks: the North Puyallup River and the South Puyallup River; both forks originating at glaciers on Mount Rainier (Puyallup Glacier and Tahoma Glacier, respectively). These two headwater streams join to form the Puyallup River proper. The main Puyallup River flows north and northwest from Mount Rainier. Along its course, the Puyallup River receives inflow from two main rivers:

- The Carbon River, which also flows from glaciers on Mount Rainier, joins the Puyallup downstream of the City of Orting
- The White River, another glacier-fed river, joins the Puyallup at the City of Sumner

At the White River confluence, the Puyallup River turns northwest, flowing through the cities of Puyallup and Fife, before emptying into Commencement Bay at the POT.

The Puyallup River Watershed is divided into two main portions: the Upper Puyallup River Watershed, which extends from Mount Rainier to approximately Puyallup; and the Lower Puyallup River Watershed, which extends from Puyallup to Commencement Bay.

The uplands opposite the Site that form the eastern bank of the Waterway lie within the Hylebos Creek and Puget Sound Drainages (see Figure 3.7). Hylebos Creek originating in the City of Federal Way, is comprised of three main tributaries, and ultimately flows into the head of the Waterway. The Puyallup River and Hylebos Creek represent regional groundwater discharge features. However, the interaction of the two regional features with groundwater originating from the Site is limited.

3.3.2 Site Hydrology

The Waterway, Blair Waterway, and Commencement Bay surround the Site peninsula and are the primary Site hydrologic features. Surface water drainage from the Site and adjacent properties is primarily by catch basins and storm sewers, with some limited overland flow to the waterways or Commencement Bay. Precipitation that falls on the treatment plant is collected and treated by the treatment system. Precipitation that falls on the remainder of the Site is collected through a series of catch basins and storm sewers ultimately discharging to the Waterway under a Stormwater Discharge Permit.

Tidal fluctuations in the Waterway, Blair Waterway, and Commencement Bay have a significant influence on the Site groundwater flow system. The tidal fluctuations create transient groundwater flow conditions. Depending on the tidal stage, groundwater flow may be directed from the surface water bodies towards the groundwater system (i.e., high tide), or groundwater flow may be directed towards the surface water bodies (i.e., low tide). The tides of Puget Sound are characterized as a mixed semidiurnal tide cycle, in which two high and two low tides of different size occur during each tidal day of 24 hours and 50 minutes (Lincoln, 2000). The maximum amplitude of the tidal fluctuations at the Site varies through approximately 10 to 14 ft, and the maximum amplitude occurs in the transition from lowest to highest tide.

Commencement Bay and the Hylebos and Blair Waterways that surround the Site peninsula contain salt water with an average specific gravity of approximately 1.022 (or density of 63.77 pounds per cubic foot [lbs/ft³]). Conductivity profiling in the Hylebos and Blair Waterways conducted by USEPA (1990) shows that salt water is present over the full length of

both the Hylebos and Blair Waterways. The specific gravity of sea water in the oceans throughout the world is approximately 1.025. Due to the influence of fresh surface water runoff and shallow fresh groundwater discharge, the salt water in Commencement Bay and the Hylebos and Blair Waterways is somewhat less dense than typical sea water. Fresh groundwater has a specific gravity of 1.0 (or density of 62.4 lbs/ft³). The density difference between salt water and fresh groundwater results in the development of fresh groundwater and salt water distributions within the Site groundwater flow system. The concept of fresh groundwater and salt water distributions is described further in Section 3.4.2 in conjunction with the regional hydrogeology.

3.4 Regional Geology and Hydrogeology

3.4.1 Regional Geology

The geologic framework and stratigraphy for the Puget Sound Lowland have been described within several regional-scale reports, as referenced herein. Most of the available information is derived from the interpretation of data from boreholes and exposed stratigraphic sections located on-shore, with limited regional information available within Puget Sound.

The major geologic features in the Puget Sound Lowland and nearby highlands were formed by regional geologic processes including the tectonic convergence of the continental North American Plate with the oceanic Pacific and Juan de Fuca Plates. The tectonic plate convergence and subsequent subduction of the oceanic plates in the Cascadia subduction zone has resulted in the formation of the Olympic Mountains, Puget Sound Lowland, and the Cascade Range. Also associated with the plate convergence are folding and faulting of strata, and volcanism (Jones, 1999).

Within the Puget Sound Lowland, downwarping and faulting of the crust allowed the accumulation of nearly 2,000 ft of unconsolidated sedimentary deposits in the Tacoma area. During the Tertiary Period (approximately 65 to 1.8 million years ago), thick layers of marine and volcanic deposits accumulated in the Puget Sound Lowland. These deposits are found beneath the younger Quaternary Period (approximately 1.8 million years ago to present) glacial and interglacial units and the post-glacial units which form the geologic units of interest at the Site.

The Puget Sound Lowland was subjected to a series of glacial advances and retreats. At least four major glacial advances and several partial advances have occurred (Jones, 1999). These major and partial glacial advances grew from the Cordilleran ice sheet in southwestern British Columbia and from alpine glaciers within the Cascade Range of Washington State that moved into the Puget Sound Lowland. Glacial deposits typically contain (in order of

deposition): advance outwash sand and gravels; glacial till (hard and poorly sorted mixture of clay, silt, sand, and gravel) and ice-contact deposits; and recessional outwash sand and gravels at the top of the sequence. The four glacial advances and retreats deposited a series of geologic units, which are partially preserved and exposed in the areas above sea level. The most recent glacial advance, the Vashon Stade of the Fraser Glaciation, scoured a channel into the pre-Vashon sediments along the Puyallup River Valley. The channel scoured into the pre-Vashon sediments is in-filled by post-Vashon sediments, referred to here as deltaic deposits. The deposition of the deltaic deposits occurred at varying rates and under varying stream flow and sea level conditions, resulting in a series of sand units with interbedded and interfingering silt and clay units with occasional gravelly sand units. These units are often gradational from one to the other laterally and/or vertically. Figure 3.8 shows a conceptual model of the regional geology in the Site vicinity.

Morgan and Jones (1996) developed a generalized regional geologic framework for the Puget Sound Lowlands that is reproduced on Figure 3.9. This framework is directly applicable to the Puyallup River Valley and Bluffs in the Site vicinity, and is consistent with the conceptual model of regional geology shown on Figure 3.8. A major stream valley is depicted on the west side of the section consisting of alluvial deposits (Qal), similar to the Puyallup River Valley. The Bluffs rise steeply to the east of the stream valley and consist of a sequence of older glacial deposits. The older glacial deposits were scoured away within the Puyallup River Valley during the last glacial advance.

Three regional studies of geologic conditions within the Puyallup River Valley and Bluffs key to the Site are:

- *Geology of the Port of Tacoma* (Hart Crowser & Associates, Inc. [Hart Crowser], 1975)
- *Hydrogeologic Analysis of the Federal Way Area* (Robinson & Noble, Inc. [Robinson & Noble], 1992)
- *Hydrogeologic Framework, Groundwater Movement, and Water Budget in the Chambers-Clover Creek Watershed and Vicinity, Pierce County, Washington* (Savoca et al., 2010)

Cross-Sections I-I', II-II', and A-A' developed by Hart Crowser (1975) pass through the Site peninsula, and are reproduced on Figures 3.10, 3.11, and 3.12, respectively. The key aspects shown on these cross-sections are:

- Deltaic deposits consisting of variable layers of sand and silt exist within the Puyallup River Valley extending into Commencement Bay

- Glacial deposits form the east and west walls of the Puyallup River Valley on Figure 3.10, and appear on the west side of the Puyallup River Valley on Figure 3.11
- Fill was placed on the tidal mud flats to develop the waterways and form the POT peninsulas
- Commencement Bay on the west side of Cross-Section I-I (Figure 3.10) is approximately 200 ft deep, and Commencement Bay extends to depths of over 500 ft to the north of the POT, as shown on Figure 3.5

The Hart Crowser (1975) cross-sections (Figures 3.10, 3.11, and 3.12) are consistent with the conceptual model of regional geology shown on Figure 3.8, and the generalized regional geologic framework of Morgan and Jones (1996) shown on Figure 3.9.

Robinson & Noble (1992) conducted a hydrogeologic study of the Bluffs in the Federal Way area east of the Site. Robinson & Noble (1992) developed cross-sections through the Bluffs east of the Site, as presented on Figure 3.13. Cross-Section B-B' approaches the Site, and is reproduced on Figure 3.14. The Bluffs are shown to be heterogeneous, consisting of a sequence of glacial and interglacial sedimentary units with widespread presence of glacial till, outwash sands, and gravels. Consistent with Morgan and Jones (1996) and Hart Crowser (1975), Cross-Section B-B' shows a buried valley wall extending downward from the Bluffs where the pre-Vashon sediments within the Puyallup River Valley were scoured.

Savoca et al. (2010) developed hydrogeologic cross-sections through the Chambers-Clover Creek Watershed and vicinity in Pierce County, approximately 8 to 10 miles south of the Site. The northern portion of the Savoca et al. (2010) study area includes the Puyallup River Valley and much of the POT area. The locations of cross-section in the general vicinity of the Site are presented on Figure 3.15. The eastern limit of Cross-Sections E-E' and F-F' extend into the Puyallup River Valley south of the Site, and are reproduced on Figure 3.16. Cross-Section E-E' ends just west of the Site and Cross-Section F-F' ends approximately 4 miles south of the Site.

On Cross-Section F-F', Savoca et al. (2010) interpret a sequence of aquifers and aquitards under the Bluffs (i.e., Aquifer Unit C/Confining Unit D/Aquifer Unit E) consistent with Robinson & Noble (1992). However, Savoca et al. (2010) continue these units beneath the Puyallup River Valley, which is not consistent with the glacially scoured channel of Morgan and Jones (1996) and Hart Crowser (1975). The characteristics of the deltaic deposits observed in the Site borings suggest that the sequence of aquifers and aquitards within the pre-Vashon sediments under Bluffs may not extend into the Puyallup River Valley, as annotated on Figure 3.16.

The regional cross-sections suggest the continuous presence of low permeability glacial material throughout the POT area. In the Site vicinity, as shown on Figure 3.16, the

Savoca et al. (2010) Cross-Section E-E' positions the top surface of a confining unit (i.e., Unit D) consisting lower permeability glacial material at approximately -200 to -300 ft NGVD in the Puyallup River Valley. To investigate this further, a review was conducted of stratigraphic logs for regional boreholes available within the POT area for evidence of the presence/absence of lower permeability glacial material. Stratigraphic logs for deep regional borings were available from the following sources:

- Logs contained in the Washington State Department of Ecology Water Well Log Database (<http://apps.ecy.wa.gov/welllog/>)
- Logs provided in Walters and Kimmel (1968)
- Logs made available by the POT

The regional stratigraphic logs are included in Appendix E.

The review of the regional stratigraphic logs for the presence/absence of low permeability glacial material was separated into boreholes extending from -150 to -300 ft NGVD, presented in Table 3.1, and boreholes extending below -300 ft NGVD, presented in Table 3.2. The regional stratigraphic logs are for boreholes completed as water wells. It is noted that the level of detailed geologic observations in the stratigraphic logs for these water wells is limited, which is common for stratigraphic logs completed by water-well drillers. However, the geologic conditions that are noted in stratigraphic logs for these regional boreholes are useful for identifying the regional presence/absence of low permeability glacial material in the POT area.

The review of regional stratigraphic logs extending from -150 to -300 ft NGVD is summarized on Figure 3.17 where locations are identified as having low permeability glacial material present, not present, or possibly present. Figure 3.17 demonstrates that low permeability glacial material is commonly observed in the southwestern portion of the POT, but not in the northeastern portion of the POT or in the Site vicinity. Thus, in the -150 to -300 ft NGVD elevation interval, regional evidence of a continuous low permeability glacial material beneath the POT area is not conclusive.

The review of regional stratigraphic logs extending below -300 ft NGVD is summarized on Figure 3.18 where locations are identified as having low permeability material present that is either glacial or non-glacial in origin. Similar to the -150 to -300 ft NGVD elevation interval, Figure 3.18 demonstrates that low permeability glacial material is commonly observed in the southwestern portion of the POT, but not in the northeastern portion of the POT, or in the Site vicinity. However, low permeability material of non-glacial origin is frequently observed in the southern portion of the Hylebos/Blair peninsula but mostly below -400 ft NGVD. The regional

geologic data suggest that glacial deposits exist at depth beneath the Puyallup River Valley, but that it is likely a heterogeneous mixture of both lower and higher permeability material.

3.4.2 Regional Hydrogeology

The regional hydrogeologic conditions in the Site vicinity have been the subject of numerous studies for over 40 years. The various studies that are directly applicable to the Site, either through investigations including at or near the Site, or through generalized conceptual models that are directly applicable to Site and vicinity conditions include:

- *Ground-Water Occurrence and Stratigraphy of Unconsolidated Deposits, Central Pierce County, Washington (Walters and Kimmel, 1968)*
- *Reconnaissance of Sea-Water Intrusion Along Coastal Washington, 1966-68, State of Washington (Walters, 1971)*
- *Hydrogeologic Analysis of the Federal Way Area, Washington (Robinson & Noble, 1992)*
- *Numerical Model Analysis of the Effects of Ground-Water Withdrawals on Discharge to Streams and Springs in Small Basins Typical of the Puget Sound Lowland, Washington (Morgan and Jones, 1996)*
- *Hydrogeologic Framework of the Puget Sound Aquifer System (Vaccaro, et al., 1998)*
- *Geologic Framework for the Puget Sound Aquifer System, Washington and British Columbia (Jones, et al., 1999)*
- *Hydrogeologic Framework, Groundwater Movement, and Water Budget in the Chambers-Clover Creek Watershed and Vicinity, Pierce County, Washington (Savoca, et al., 2010)*

These reports pertain to areas of the Puget Sound Lowlands in the Site vicinity, and are referred to below relative to regional hydrogeologic conditions within the Puget Sound Lowland, Puget Sound Bluffs, and Puyallup River Valley.

Puget Sound Lowland

The Site is located within the Puget Sound Lowland aquifer system. This aquifer system is described in numerous reports, including Vaccaro et al. (1998) and Morgan and Jones (1996). The lateral extents of the Puget Sound Lowland aquifer system are presented on Figure 3.19. Vaccaro et al. (1998) present a detailed description of the hydrogeologic setting and a conceptual hydrogeologic model that is generally applicable to any area within the Puget Sound Lowland aquifer system (including in the vicinity of the Site). The key aspects of the Puget Sound Lowland aquifer system include:

- Classification of the aquifer system into four main types of units: glacial and interglacial aquifers, semi-confining units, confining units, and alluvial valley aquifers.
- The bedrock forms both the lateral and basal boundaries of the aquifer system.
- The primary source of groundwater is through recharge from infiltrating precipitation on the drift plains and alluvial valleys, and from glacial and snowpack melt-water occurring on the mountain ranges surrounding the Puget Sound Lowland.
- Groundwater flow is generally horizontal within coarse-grained aquifer units, and primarily vertical within semi-confining and confining layers.
- Groundwater flow does not occur on a regional scale within the Puget Sound Lowland; rather, groundwater flow occurs on a more localized basis within smaller basins in the Puget Sound Lowland associated with flow towards and discharge to major alluvial valleys.
- Groundwater flow is generally downwards on the drift plains, and generally upwards in the alluvial valleys, with groundwater discharge to upland fresh water rivers.
- Approaching the salt water bodies, such as the Hylebos and Blair Waterway, Commencement Bay, Puget Sound, etc., fresh groundwater from upland areas flows upwards to discharge at shallow depths to the salt water bodies. The shallow fresh groundwater discharge to the salt water bodies tends to occur above salt water zones extending inland from the salt water bodies.

Vaccaro et al. (1998) suggest that within the Puget Sound Lowland, groundwater flow must be considered on the basis of smaller, localized flow regimes due to the heterogeneous and discontinuous nature of the unconsolidated deposits. This is consistent with the approach employed by Walters and Kimmel (1968) in a study of the groundwater occurrence and stratigraphy of unconsolidated deposits in Central Pierce County, described further relative to the Puyallup River Valley.

Puget Sound Bluffs

Like the Puget Sound Lowland, the Bluffs have a heterogeneous geologic composition and stratigraphy. Much of Bluffs in general, including east of the Site, consist of a sequence of glacial and interglacial sedimentary units. The Bluffs also have a widespread presence of glacial till, and outwash sands and gravels that were deposited by streams that drained the advancing and retreating ice sheets (Johannessen and MacLennan, 2007).

Robinson & Noble (1992) identified a series of aquifers within their Layer 4 (see Figure 3.14) immediately east of the Site consisting of highly permeable soils, which they referred to as the North Shore Aquifers. Figure 3.20 shows the location of the North Shore Aquifers in plan view. As shown on Figure 3.20, the North Shore Aquifers are interpreted to extend to the upper

portion of the Puyallup River Valley in their Layer 4. Robinson & Noble (1992) indicated that the North Shore Aquifers may consist of upper and lower zones.

As described further in Section 3.6, Site borings advanced along the eastern shoreline of the Waterway extended into the buried valley wall extending down from the Bluffs. These borings encountered permeable sands and gravels, similar to glacial outwash deposits, at upper and lower depths separated by lower permeability silts and clays. These observations are consistent with the presence of the North Shore Aquifers interpreted by Robinson & Noble (1992).

Puyallup River Valley

In their study of the groundwater occurrence and stratigraphy of unconsolidated deposits in Central Pierce County, Walters and Kimmel (1968) delineated several groundwater regions, as shown on Figure 3.21. The Site lies within the Lower Puyallup River Valley Region, as delineated by Walters and Kimmel (1968), which approximately coincides with the lower Puyallup River Valley.

Walters and Kimmel (1968) reported that the alluvial deposits in the Puyallup River Valley are underlain by a thick sequence of alternating fine- and coarse-grained sediments. Walters and Kimmel (1968) reported further that wells tapping the deeper sequence of sediments yielded flows rates commonly approaching 1,000 gallons per minute (gpm), with some yielding flows as high as 2,400 gpm, and some wells exhibiting artesian conditions.

Artesian conditions throughout the State of Washington were historically documented by Molenaar (1961). The greatest number of artesian flowing wells is located within Pierce and King Counties, and many of them occur in Site vicinity. Wells located near the base of upland slopes and beach bluffs or along valleys tend to exhibit artesian conditions. Such hydrogeologic conditions have provided large flows (300 to 1,500 gpm) from wells drilled to depths of 600 ft to 1,200 ft along the bluffs in Pierce County, which includes the Site (Molenaar, 1961). Molenaar (1961) developed a generalized concept of artesian conditions within the Straits-Puget basin that is presented on Figure 3.22. Artesian conditions occur in areas where low permeability geologic units exist to confine and pressurize underlying high permeability water-bearing aquifers, as illustrated on Figure 3.22. The confined aquifers build in pressure due to confined inflow from upland areas, and artesian flow results when they are penetrated by wells.

Molenaar (1961) presents a map of historical flowing artesian wells throughout Washington State, which is reproduced as Figure 3.23. A review of this map indicates that the Lower Puyallup River Valley has one of the highest densities of flowing artesian wells in all of

Washington State. Figure 3.24 presents an enlargement of Figure 3.23 showing the Site and surrounding areas. Figure 3.24 shows a high concentration of flowing artesian wells in the vicinity of the Site. Figure 3.25 provides a more detailed representation of historical artesian wells that surround the Site, as described by Griffin et al. (1962).

Regional groundwater flow in the alluvial aquifer along the Puyallup River Valley has been characterized by Savoca et al. (2010) and is presented on Figure 3.26. The alluvial aquifer is depicted on the Savoca et al. (2010) Cross-Sections E-E' and F-F' presented on Figure 3.16. Based on the groundwater elevations and flow directions presented on Figure 3.26, groundwater flow in the alluvial aquifer is generally toward Commencement Bay, coincident with the direction of surface water flow in the Puyallup River, and horizontal hydraulic gradients decrease toward Commencement Bay. The generalized groundwater flow patterns in glacial and interglacial aquifers are complicated by the presence of low permeability confining units that separate discontinuous aquifers and act as local barriers to groundwater flow. A large proportion of groundwater that makes its way down the Puyallup River watershed discharges to the Puyallup River, local streams, springs, and waterways, or is withdrawn from wells before reaching the proximity of the Site.

The density difference between salt water in Commencement Bay and the POT waterways and fresh groundwater results in the development of fresh groundwater and salt water distributions within the groundwater flow systems adjacent to these surface water bodies. Commencement Bay and the Hylebos and Blair Waterways that surround the Site peninsula contain salt water with an average specific gravity of approximately 1.022 (or density of 63.77 lbs/ft³). Conductivity profiling in the Hylebos and Blair Waterways conducted by USEPA (1990) shows that salt water is present over the full length of both the Hylebos and Blair Waterways. Fresh groundwater, with a specific gravity of 1.0 (or density of 62.4 lbs/ft³), discharges into these surface water bodies, as shown schematically on Figure 3.27, after Barlow (2003). Part A of Figure 3.27 shows fresh groundwater discharge to a salt water body for a relatively homogeneous aquifer, and Part B of Figure 3.27 shows fresh groundwater discharge to a salt water body influenced by aquifer heterogeneities. The locations where fresh groundwater discharges along the salt water margins are controlled by the hydraulic pressure and fresh groundwater flow rate in the aquifer, the thickness and hydraulic properties of the aquifer and adjacent confining units, and the relative densities of salt water and fresh groundwater, among other variables. Fresh groundwater tends to remain above the salt water zones because of its lower density, although in heterogeneous or multilayered aquifer systems, fresh groundwater can discharge upward through lower permeability units into overlying salt water, as shown on Part B of Figure 3.27.

The fresh groundwater and salt water zones are separated by a transition zone within which there is mixing between fresh groundwater and salt water, as shown on Figure 3.27. The width

of these transition zones varies, but may be on the order of hundreds to over a thousand feet in coastal aquifers (Barlow, 2003). The transition zone width depends on the amount of mixing between the fresh groundwater and salt water that occurs within the aquifer. This mixing is caused by geologic heterogeneities and by dynamic forces that operate over a range of time scales, including daily fluctuations in tide stages, seasonal and annual variations in groundwater recharge rates, and long-term changes in aquifer groundwater elevations and sea level positions. These dynamic forces cause the fresh groundwater and salt water zones to move seaward at times and landward at times (Barlow, 2003).

The inland presence of salt water is limited where the fresh groundwater hydraulic heads are sufficiently high, such as along the Bluffs, to balance the inland-directed salt water pressures within a short distance inland from the shoreline. In the Puyallup River Valley, where lower fresh groundwater hydraulic heads exist, salt water can be present to a considerable distance inland. The influence of the fresh groundwater and salt water distributions on the Site groundwater flow system is described further in Section 3.6.

The extent of inland salt water within the Puyallup River Valley historically was studied by Walters (1971). Chloride content in groundwater was used as a principal indicator for the presence of salt water. The study identified that in most areas the native fresh groundwater had a chloride concentration of less than 10 milligrams per liter (mg/L). Chloride concentrations (in mg/L) indicative of salt water approach values in the several thousands. Walters (1971) reported that salt water extended 1.5 miles (2.4 km) inland from Commencement Bay in the alluvium and marine deposits beneath the Puyallup River Valley. The interaction between salt water and fresh groundwater near the salt water bodies in the Site vicinity is described further in Section 3.6.

In summary, the key features of the regional hydrogeologic conditions within the Puyallup River Valley and Bluffs in the Site vicinity include:

- Regional surface water and groundwater flow through the Puyallup River Valley discharges to Commencement Bay
- Shallow groundwater discharges to rivers, creeks, and waterways as they extend through the Valley
- Groundwater within the Puyallup River Valley is replenished by regional upland groundwater inflow into the Valley and by precipitation infiltration
- Regional groundwater flow within the Bluffs above ground level at the Site peninsula discharges through seepage faces along the Bluffs

- Regional groundwater flow within the Bluffs below ground level at the Site peninsula discharges to the Puyallup River Valley groundwater flow system immediately adjacent to the Bluffs, and ultimately to the POT waterways/Commencement Bay
- Fresh groundwater and salt water distributions exist adjacent to the salt water bodies that are influenced by aquifer heterogeneities, hydraulic pressure and fresh groundwater flow rate in the aquifer, thickness and hydraulic properties of the aquifer and adjacent confining units, and relative densities of salt water and fresh groundwater, among other variables
- The fresh groundwater and salt water zones are separated by a transition zone within which there is mixing between fresh groundwater and salt water

3.5 Site Geology

3.5.1 Overview of Site Geology

Soil and sediment samples were collected during the installation of monitoring wells and advancement of boreholes while performing various subsurface investigations at the Site. Monitoring wells and boreholes have been advanced on the Site peninsula, beneath the Waterway, and along the eastern shoreline of the Waterway opposite the Site peninsula. Figures 3.28a/b present all the locations throughout the Site where geologic conditions have been observed and stratigraphic logs have been prepared.

Historically, monitoring well installation occurred to regular depths, generally grouped into seven aquifer depth zones representing nominal depths of 15, 25, 50, 75, 100, 130, and 160 ft BGS, forming individual zone grouping planes for each depth. The zone grouping planes are primarily used to describe Site hydrogeologic conditions in Section 3.6, and include:

- 15 ft BGS (0 ft NGVD), referred to as the 15-ft zone
- 25 ft BGS (-10 ft NGVD), referred to as the 25-ft zone
- 50 ft BGS (-35 ft NGVD), referred to as the 50-ft zone
- 75 ft BGS (-60 ft NGVD), referred to as the 75-ft zone
- 100 ft BGS (-85 ft NGVD), referred to as the 100-ft zone
- 130 ft BGS (-115 ft NGVD), referred to as the 130-ft zone
- 160 ft BGS (-155 ft NGVD), referred to as the 160-ft zone

The boreholes for more recent monitoring well installations at the Site extend below the 160-ft zone to a maximum depth of approximately 290 ft BGS. Boreholes extending below the 160-ft zone are highlighted on Figures 3.28a/b.

While advancing each borehole, the soil types encountered have been described and logged in accordance with the Unified Soil Classification System (USCS). Stratigraphic logs have been prepared for each location where soil samples were collected for geologic logging. The stratigraphic logs are included in Appendix F and in the e:Dat™ database in Appendix G. Site stratigraphic models have been developed in 3-D based on the stratigraphic logs, as described in Section 3.5.2.

Within the Puyallup River Valley, the primary geologic units identified in the Site borings consist of (from ground surface):

- Fill - variable mixture of sand, silt, and gravel material placed through dredging of the Hylebos and Blair Waterways to develop the Site peninsula
- Deltaic deposits - heterogeneous mixture of interbedded sands, silts, and clays deposited by deltaic processes within the channel scoured along the Puyallup River Valley during the last glacial advance
- Glacial deposits - heterogeneous mixture of interbedded gravel, sands, silts, and clays belonging to the pre-Vashon glacial stages that were scoured/overrode by the last ice advance

These geologic units are described further in Sections 3.5.3 to 3.5.4.

The results from the laboratory analysis of Site soil and sediment samples for soil physical properties were used to aid in characterizing the geologic units at the Site. Figure 3.29 shows the locations of the soil samples analyzed for soil physical properties. The soil and sediment samples were analyzed for one or more of the following soil physical properties:

- Grain size distribution, often including hydrometer analysis
- Density/specific gravity and bulk unit weight
- Moisture content
- Porosity
- Organic carbon content
- Vertical hydraulic conductivity
- Atterberg limits

Table 3.3 summarizes the soil physical properties results. The grain size distribution curves are included in the e:Dat™ database in Appendix G, and were used to confirm detailed stratigraphic picks from the Site stratigraphic logs used in the 3-D stratigraphic models developed for Site. In

particular, the results for grain size distribution, dry bulk density, moisture content, porosity, fraction of organic carbon, and vertical hydraulic conductivity were used to aid in differentiating the glacial deposits from the overlying deltaic deposits. Atterberg liquid and plastic limits were used to better understand the nature of the lower permeability soil types. In general, higher plasticity fines would have lower hydraulic conductivity than non-plastic to low plasticity fines, due to the saturated swelling characteristics of the fines.

3.5.2 3-D Stratigraphic Models

The deltaic and glacial deposits are both highly heterogeneous, which precludes defining laterally continuous stratigraphic units within each deposit beneath the Site. However, 3-D stratigraphic models of the soil types observed in both the deltaic and glacial deposits were developed using the indicator kriging approach implemented in the Mining Visualization System/Environmental Visualization System (MVS/EVS) software package, developed by C Tech Development Corporation (CTech) (CTech, 2007). The 3-D stratigraphic models encompass the area over which boreholes have been advanced within the Site peninsula, Waterway, and along the eastern shoreline of the Waterway opposite the Site peninsula (see Figure 3.28a). The 3-D stratigraphic models extend to an elevation of -225 ft NGVD. Two 3-D stratigraphic models were developed: a detailed model based on the specific soil types observed within the deltaic and glacial deposits; and a simplified model based on lumping the soil types of both the deltaic and glacial deposits into four groups having similar hydraulic properties. The two stratigraphic models are described below.

Detailed 3-D Stratigraphic Model

The detailed 3-D stratigraphic model was developed using nine stratigraphic codes based on the various soil types observed in the deltaic and glacial deposits. The nine soil codes are based on soil texture (i.e., relative hydraulic conductivity) and depositional environment. Five stratigraphic codes (0 through 4, inclusive) pertain to the deltaic deposits, and four stratigraphic codes (5 through 8, inclusive) pertain to the glacial deposits. The nine stratigraphic codes and soil types within each code are summarized below.

<i>Stratigraphic Code</i>	<i>Soil Type Description</i>	<i>Estimated Hydraulic Conductivity (cm/sec)</i>
0	Clayey Silt (CL-ML)	3.0×10^{-5}
1	Sandy Silt (ML)	2.0×10^{-4}
2	Silty Sand (SM)	1.1×10^{-3}
3	Sand (SP or SW)	5.3×10^{-3}
4	Gravel (G or GW)	5.0×10^{-2}

Stratigraphic Code	Soil Type Description	Estimated Hydraulic Conductivity (cm/sec)
5	Low Permeability Glacial Material, referred to as "Low K Glacial" (Silty Gravel [GM])	5.0×10^{-5}
6	Medium Permeability Glacial Material, referred to as "Medium K Glacial" (SP/SM or GP/GW described as high density, some silt, and/or low moisture content, and corresponding to an elevation horizon where glacial-derived material was observed in adjacent boreholes)	5.0×10^{-4}
7	High Permeability Glacial Material, referred to as "High K Glacial" (SP/GP described as loose, absent silt, and/or high moisture content, and corresponding to an elevation horizon where glacial-derived material was observed in adjacent boreholes)	5.0×10^{-3}
8	ML corresponding to an elevation horizon where glacial material was observed in adjacent boreholes, referred to as "ML in Glacial"	2.0×10^{-4}

A 3-D visualization of the detailed stratigraphic model in the 4DIM viewer format is presented in Appendix H. Figures 3.30 to 3.35 show horizontal slices through the detailed stratigraphic model at the 25-ft, 50-ft, 75-ft, 100-ft, 130-ft, and 160-ft zone grouping planes, respectively. Figures 3.36 to 3.40 show vertical slices through the detailed stratigraphic model along Cross-Sections A-A', B-B', C-C', X-X', and Y-Y', respectively. Figure 3.28a shows the locations of Cross-Sections A-A', B-B', C-C', X-X', and Y-Y'. The horizontal and vertical slices through the detailed stratigraphic model are referenced in the description of the Site geologic units in Sections 3.5.3 to 3.5.5.

Simplified 3-D Stratigraphic Model

The simplified 3-D stratigraphic model was developed using four stratigraphic codes based on similarity in hydraulic properties and regardless of depositional environment. The simplified hydrostratigraphic model approach is documented in a memorandum provided in Appendix I. The simplified stratigraphic model was developed to form a basis for the hydraulic conductivity distribution assigned in the numerical groundwater flow model being developed for the Site.

The four stratigraphic codes and soil types within each code applied for the simplified stratigraphic model are summarized below.

Stratigraphic Code	Soil Type Description	Estimated Hydraulic Conductivity (cm/sec)
0	Clayey Silt, Silty Clay, Clay, Sandy Clay, and similar clayey materials (corresponds to stratigraphic codes 0 and 5 of the detailed stratigraphic model). Silt and Sandy Silt corresponding to a horizon where glacial-derived material was observed in adjacent boreholes (corresponds to stratigraphic code 8 of the detailed stratigraphic model)	3.0×10^{-5} to 2.0×10^{-4}
1	Sandy Silt, Silt, and very silty similar materials (corresponds to stratigraphic code 1 of the detailed stratigraphic model)	2.0×10^{-4}
2	Silty Sand, Silty Gravels (trace to no clay), and similar materials (corresponds to stratigraphic codes 2 and 6 of the detailed stratigraphic model)	5.0×10^{-4} to 1.1×10^{-3}
3	Sand, Sand and Gravel, Gravel, and similar materials (corresponds to stratigraphic soil codes 3, 4, and 7 of the detailed stratigraphic model)	5.0×10^{-3} to 5.0×10^{-2}

A 3-D visualization of the simplified stratigraphic model in the 4DIM viewer format is presented in Appendix H. Figures 3.41 to 3.46 show horizontal slices through the simplified stratigraphic model at the 25-ft, 50-ft, 75-ft, 100-ft, 130-ft, and 160-ft zone grouping planes, respectively. Figures 3.47 to 3.51 show vertical slices through the simplified stratigraphic model along Cross-Sections A-A', B-B', C-C', X-X', and Y-Y', respectively. The horizontal and vertical slices through the simplified stratigraphic model are referenced in the description of the Site geologic units in Sections 3.5.3 to 3.5.5.

3.5.3 Fill

Fill exists beneath the Site peninsula from ground surface to depths of approximately 10 to 16 ft BGS. The fill consists of a variable mixture of sand, silt, and gravel material placed through dredging of the Hylebos and Blair Waterways to develop the Site peninsula. Since the fill is comprised of material dredged from the deltaic deposits beneath the waterways, the fill and deltaic deposits have similar soil types and are not differentiated on the slices through the 3-D stratigraphic models.

As described in Section 3.2.2, the POT consists of five man-made peninsulas that were developed in the early 1900s by dredging to create navigable waterways. Prior to development, the POT was either a tidal marsh with a network of tidal estuaries, or tidal mud flats. As shown on Figure 3.4, the mud flats extended from approximately East Eleventh Street to the end of the POT at Commencement Bay. Under pre-development conditions, the mud flats would be exposed under the lowest tides. The material dredged from the waterways was placed on top of the mud flats as fill to create the peninsulas.

The mud flats consist of silts and clayey silts deposited during the last phase of delta formation at the mouth of the Puyallup River Valley. The mud flats are illustrated on the regional geologic cross-sections developed by Hart Crowser (1975) and presented on Figures 3.11 and 3.12. The mud flats have not been identified consistently in all borings advanced on the Site peninsula. This may be due to a lack of precision in the stratigraphic logs, or may be due to stream channels that could have incised the fine-grained sediments of the mud flats. As described further in Section 3.6, the mud flats are observed to create a hydraulic separation between the fill and the underlying deltaic deposits in the southern portion of the Site where detailed investigation of groundwater levels within the fill has been completed. Here, groundwater elevations in the fill are approximately 2 ft higher than groundwater elevations in the deltaic deposits immediately beneath the mud flats.

3.5.4 Deltaic Deposits

The horizontal and vertical slices through the detailed stratigraphic model illustrate the highly heterogeneous composition of both the deltaic deposits. The deltaic deposits are found immediately below the fill across the Site. They consist of a heterogeneous mixture of interbedded sands, silts, and clays. The thickness of the deltaic deposits across the Site ranges from approximately 30 to 200 ft in the eastern and northeastern portion of the Site to greater than approximately 300 ft in the southwestern portion of the Site.

As described in Section 3.4.1, the last glacial advance scoured a channel along the Puyallup River Valley. The deltaic deposits have in-filled this channel at varying rates and under varying stream flow and sea level conditions, resulting in a series of sand units with interbedded and interfingering silt and clay units with occasional gravelly sand units. These units exhibit a high degree of heterogeneity and are often gradational laterally and/or vertically, but can also change abruptly over short distances.

In the lower portion of the deltaic deposits, a reduced frequency of higher permeability soil types (i.e., sand) and a corresponding increased frequency of lower permeability soil types (i.e., silty sand, sandy silt, and clayey silt) is noted. This is best shown in the horizontal and vertical slices through the detailed stratigraphic model where the occurrence of the sand soil type (the orange shading on Figures 3.30 to 3.40) diminishes with depth as approaching the glacial deposits. A reduction in higher permeability soil types with depth is also apparent in the horizontal and vertical slices through the simplified stratigraphic model where the occurrence of sand and gravel (the brown shading on Figures 3.41 to 3.51) is reduced in the lower deltaic deposits. Note that deepest zones of sand and gravel apparent on the vertical slices through the simplified stratigraphic model (Figures 3.47 to 3.51) correspond to the glacial deposits.

3.5.5 Glacial Deposits

Glacial deposits underlie the deltaic deposits and consist of a heterogeneous mixture of interbedded gravel, sands, silts, and clays. The horizontal and vertical slices through the detailed stratigraphic model illustrate the highly heterogeneous composition of the glacial deposits. The thickness of the glacial deposits beneath the Site has not been determined, but based on regional information, is more than 1,000 ft. As described below, the top surface of the glacial deposits slopes downward to the north, west, and south from a mound observed under the central portion of the Site peninsula. The glacial deposits were not encountered at borings in the west, southwest, and south portion of the Site peninsula. The glacial deposits are inferred to dip downward in this area below the depth of the Site borings. The glacial deposits likely continue to dip downward towards the middle of the Puyallup River Valley consistent with the channel scoured along the Puyallup River Valley during the most recent glacial advance (i.e., the Vashon Stage of the Fraser Glaciation). The glacial deposits belong to pre-Vashon glacial stages that were scoured/overrode by the last ice advance.

The top surface of the glacial deposits (irrespective of glacial material type) was determined using the top of glacial material picks from historic and 2012 and 2013 CSI borings. A total of 116 boreholes were used to determine the top surface of the glacial deposits, including 80 historic boreholes, 28 2012 CSI boreholes, and 8 2013 CSI boreholes. The borehole logs were reviewed for evidence of glacially-derived materials, which include: presence of gravel, color change to grays and greens from typical brownish colors, change in mineralogy including the loss of the commonly found red and white sand grains (from locally derived sediments), the absence of marine shell fragments, and the absence of wood fragments.

A total of 22 CSI borehole logs intersected glacially-derived materials, at elevations ranging from -128.3 ft NGVD (41C) to -193.6 ft NGVD (MW-G-Deep). In addition, a total of 10 CSI borings in the south and southwest portion of the Site peninsula did not encounter glacially-derived materials. The location and elevation for the top of glacial deposits observations are presented on Figure 3.52. Contours for the estimated top surface of the glacial deposits are presented on Figure 3.52. The contours were developed using all borings with identified presence of glacially-derived materials, as well as using the bottom elevation of all borings where glacially-derived materials were not encountered.

The glacial deposits are shallowest along the eastern portion of the Waterway where they extend downward from the bluffs. A high exists in the glacial deposits in the eastern-central portion the Site peninsula. From this high, the glacial deposits slope downward to the north, west, and south. A trough in the top surface of the glacial deposits is apparent in the northeastern portion of the Site peninsula that slopes to the northwest.

In the southern portion of the Site peninsula, three deep boreholes (46C, 93C, and 95C) did not encounter glacial deposits at elevations ranging from <-215.1 ft NGVD (95C) to <-276.6 ft NGVD (93C). In the southwestern portion of the Site peninsula, glacial deposits were not encountered at the two deep boreholes 85C and 92C (<-228.0 and <-279.3 ft NGVD, respectively). The top surface of the glacial deposits is inferred to dip downwards to the west and southwest of the Site peninsula towards the center of the glacially-scoured channel that extends along the Puyallup River Valley, consistent with the regional geologic conditions.

Similar to the top surface of the glacial deposits presented on Figure 3.52, the horizontal slices through the detailed stratigraphic model show the top of the glacial deposits progressively sloping downwards to the west from the Bluffs to under of the Waterway in the 25-ft to 100-ft zones (Figures 3.30 to 3.33), and extending beneath Site peninsula in the 130-ft and 160-ft zones (Figures 3.34 and 3.35). The top of the glacial deposits continues to dip downwards to the west and southwest to below the 160-ft zone. A similar trend in the top of the glacial deposits is evident along Cross-Sections A-A' to C-C' (Figures 3.36 and 3.38). The trough in the top surface of the glacial deposits in the northeast portion of the Site peninsula shown on Figure 3.52 is evident in this area on Cross-Sections A-A' and B-B' (Figures 3.36 and 3.37).

3.5.6 Conceptual Site Geologic Model

Figure 3.53 shows the conceptual geologic conditions for the Puyallup River Valley and Bluffs in the Site vicinity based on the Site geologic conditions described above and the regional geologic conditions described in Section 3.4.1. Within the Puyallup River Valley, the generalized geologic conditions consist of fill, deltaic deposits, and glacial deposits. The fill is comprised of the material dredged to create the Hylebos and Blair Waterways and placed on top of the tidal mud flats to create the Site peninsula. The mud flats are colored dark brown on Figure 3.53 where the hydraulic separation between the fill and deltaic deposits is observed in the southern portion of the Site, and a lighter brown where this hydraulic separation is not confirmed.

Within the Bluffs, Figure 3.53 shows an alternating sequence of sand/gravel and silt/clay layers based on the regional geologic conditions described in Section 3.4.1. A buried valley wall is shown to extend downward from the Bluffs to beneath the eastern portion of the Waterway, consistent with the generalized regional geologic framework developed by Morgan and Jones (1996) and shown on Figure 3.9. On Figure 3.53, the buried valley wall is truncated at the top of the glacial deposits. The glacial deposits are shown to extend beneath the Bluffs consistent with the interpretation by Savoca et al. (2010) that deeper geologic units beneath the Bluffs continue beneath the Puyallup River Valley, as shown on Figure 3.16. It is possible that the Bluffs geologic units interpreted by Savoca et al. (2010) were scoured away during the last glacial period, and the glacial deposits under the Site are more recent than what exists beneath the Bluffs. In this case, the buried valley would continue to a greater depth than is

shown on Figure 3.53, consistent with Morgan and Jones (1996), and the glacial deposits under the Site would truncate at the buried valley wall. However, knowing the actual vertical extent of the buried valley wall is not critical to understanding the influence of the geologic conditions on groundwater flow conditions beneath the Site.

The top surface of the glacial deposits slopes downward to the north, west, and south from a mound observed under the central portion of the Site, as shown on Figure 3.53. The glacial deposits are not encountered at borings in the west, southwest, and south portion of the Site peninsula. Here, the glacial deposits are inferred to exist below the depth of the Site borings and dip downward towards the middle of the glacially scoured channel along the Puyallup River Valley.

The Site stratigraphic data indicate that there is an increased frequency of lower permeability lenses in the lower deltaic deposits that are comprised mainly of silt and clay. This is shown schematically on Figure 3.53. As described further in Section 3.6, the groundwater quality, density, and hydraulic evidence supports the concept that the increased frequency of lower permeability lenses limits vertical flow creating a zone of apparent confining effect in the lower deltaic deposits.

3.6 Site Hydrogeology

3.6.1 Overview of Site Hydrogeology

The hydrogeologic units at the Site correspond to the primary geologic units described in Section 3.5, as follows:

- Fill
- Deltaic deposits
- Glacial deposits

Groundwater flow within these units is complicated by several factors, including:

- Heterogeneous stratigraphy
- Tidal fluctuations
- Fresh groundwater and salt water distributions
- Anthropogenic density plume (ADP) caused by releases of lime sludge and solvent residue (dense non-aqueous phase liquid [DNAPL]) to the settling ponds and settling barge, sodium hydroxide (caustic soda) through caustic production/storage/handling, and brine (sodium chloride) from operating the Salt Pad

- Density-dependent groundwater flow
- Regional fresh groundwater inflow from beneath the Bluffs east of the Site and from the south along the Puyallup River Valley
- Historical mud flats beneath the Site peninsula
- A zone of apparent confining effect in the lower portion of the deltaic deposits that overlies the glacial deposits

Each of these complexities is described further in Section 3.6.2, and Section 3.6.3 presents the Conceptual Site Model (CSM) of the Site hydrogeologic conditions that accounts for these complexities. A summary of the hydraulic monitoring, hydraulic testing, and investigations of groundwater/surface water interaction conducted at the Site that support the CSM is presented in Section 3.6.4.

The CSM forms the basis for developing the 3-D groundwater flow model for the Site that will be used to aid in the evaluation of remedial alternatives for the Site. The development of the groundwater flow model will be presented in the Model Calibration Report to be prepared subsequent to this SCR.

3.6.2 Groundwater Flow Complexities

3.6.2.1 Heterogeneous Stratigraphy

As described in Section 3.5, both the deltaic and glacial deposits are highly heterogeneous. As a result, laterally continuous stratigraphic units cannot be defined. The high degree of heterogeneity is illustrated on the horizontal and vertical slices through the detailed stratigraphic model developed for the Site presented in Section 3.5.2 (see Figures 3.30 to 3.40). Connection of the more permeable soil units does occur, and these provide preferential pathways for groundwater flow (and contaminant migration). The less permeable soil types form barriers to groundwater flow (and contaminant migration). The high degree of heterogeneity creates tortuous groundwater flow pathways that complicate the interpretation of groundwater flow directions and hydraulic gradients at the Site.

3.6.2.2 Tidal Fluctuations

As described in Section 3.3.2, tidal fluctuations occur in the Waterway, Blair Waterway, and Commencement Bay. The tide cycle is mixed semidiurnal where two high and two low tides of different size occur during each tidal day. The maximum amplitude of the tidal fluctuation varies through approximately 10 to 14 ft, and the maximum amplitude occurs in the transition from lowest to highest tide. Figure 3.54 shows an example of the typical tidal fluctuations in the Waterway adjacent to the Site.

The tidal fluctuations propagate inland and cause groundwater elevation fluctuations throughout the Site. Figure 3.54 shows an example of the typical groundwater elevation fluctuations observed at a Site monitoring well. The fluctuations in groundwater elevations create transient groundwater flow conditions. Depending on the tidal stage, groundwater flow may be directed from the surface water bodies inland (i.e., high tide), or groundwater flow may be directed towards the surface water bodies (i.e., low tide).

Due to the tidal fluctuations, it is not possible to collect manual groundwater elevation measurements across the Site monitoring well network that represent either an instantaneous condition across the Site, or more importantly, an average groundwater flow condition.

The tidally influenced groundwater level fluctuations are short-term transient conditions that are of little value in assessing bulk contaminant transport and overall Site remediation in the long-term. The rate and direction of groundwater flow at the Site, and thus bulk contaminant transport, must be resolved using average groundwater and surface water levels. Average groundwater levels are determined from groundwater levels measured across the Site monitoring well network using electronic pressure transducers and data recorders collecting data at five-minute intervals. Average groundwater and surface water levels are determined using the Serfes (1991) averaging method and approximately 3 days of recorded water level data. It is the average data that are used to assess groundwater flow rate and direction. Several hydraulic monitoring events have been conducted at the Site and the monitoring results are summarized in Section 3.6.4.

3.6.2.3 Fresh Groundwater and Salt Water Distributions

Section 3.4.2 describes the concept of fresh groundwater and salt water distributions in conjunction with the Puyallup River Valley regional hydrogeology. As described in Section 3.4.2, Commencement Bay and the Hylebos and Blair Waterways that surround the Site peninsula contain salt water with an average specific gravity of approximately 1.022 (or density of 63.77 lbs/ft³). Conductivity profiling in the Hylebos and Blair Waterways conducted by USEPA (1990) shows that salt water is present over the full length of both the Hylebos and Blair Waterways. Fresh groundwater, with a specific gravity of 1.0 (or density of 62.4 lbs/ft³), discharges into these surface water bodies, as shown schematically on Figure 3.27 (after Barlow, 2003).

The locations where fresh groundwater discharges along the salt water margins are controlled by the hydraulic pressure and fresh groundwater flow rate in the aquifer, the thickness and hydraulic properties of the aquifer and adjacent confining units, and the relative densities of salt water and fresh groundwater, among other variables. Fresh groundwater tends to remain

above the salt water zones because of its lower density. The fresh groundwater and salt water zones are separated by a transition zone within which there is mixing between fresh groundwater and salt water, as shown on Figure 3.27. The inland presence of salt water is limited to where the fresh groundwater hydraulic heads are sufficiently high to balance the inland-directed salt water pressures. For example, along the Bluffs east of the Site, fresh groundwater hydraulic heads limit salt water to within a short distance inland from the shoreline. The heterogeneous stratigraphy and variable groundwater flow conditions create complex fresh groundwater and salt water distributions beneath the Site. The fresh groundwater and salt water distributions are further complicated by elevated groundwater densities associated with the ADP, as described in Section 3.6.2.4.

The presence of both salt water and fresh groundwater beneath the Site, as well as elevated groundwater densities associated with the ADP, creates density-dependent groundwater flow conditions that need to be accounted for when interpreting groundwater flow directions and hydraulic gradients. At sites where groundwater and surface water are all fresh, density-dependent groundwater flow is not a concern. Hydraulic gradients and groundwater flow directions are resolved based on groundwater level measurements. In environments with water of varying density, like this Site, the assessment of hydraulic gradients and groundwater flow direction needs to account for variations in groundwater density, as described in Section 3.6.2.5.

An evaluation was conducted of naturally occurring fresh groundwater and salt water distributions beneath the Site. The details of the evaluation are presented in Appendix J, and the evaluation results are summarized below.

The distribution of naturally occurring salt water beneath the Site was estimated based on calculating the percent salt water composition in Site groundwater samples using the concentrations of geochemical parameters detected in each sample. The geochemical parameters considered are those typically associated with ocean salt water, including: boron, bromide, calcium, chloride, iodide, magnesium, potassium, sodium, strontium, and sulfate. Of these parameters, only bromide could be reasonably assumed to not be influenced by anthropogenic releases from the Site or geochemical conditions resulting from anthropogenic releases. Thus, a salt water percentage in Site groundwater samples was calculated using mixing calculations based on bromide only, and these results were used to estimate fresh groundwater and salt water distributions in groundwater beneath the Site.

A 3-D model of the fresh groundwater and salt water distributions was developed using 3-D kriging implemented in the MVS/EVS software package. The natural salt water distribution data were kriged with control points placed along the bottom of the Waterway, Blair Waterway, and Commencement Bay. These control points were placed at -10 ft NGVD and -40 ft NGVD, and

were assigned salt water percentages of 100% to eliminate the extrapolation of kriged salt water percentages of less than 100% into the known salt water bodies surrounding the Site. A 3-D visualization of the fresh groundwater and salt water distributions in the 4DIM viewer format is included in Appendix J. Figures 3.55 to 3.60 show horizontal slices through the 3-D model of the natural salt water distribution at the 25-ft, 50-ft, 75-ft, 100-ft, 130-ft, and 160-ft zone grouping planes, respectively. The horizontal slices indicate:

- In the 25-ft and 50-ft zones (Figures 3.55 and 3.56), fresh groundwater (<20% salt water) occurs in the middle of the Site peninsula. The fresh groundwater transitions to salt water percentages of >90% toward Commencement Bay and the Hylebos and Blair Waterways where the 25-ft and 50-ft zones intersect these salt water bodies.
- In the 75-ft zone (Figure 3.57), fresh groundwater occurs primarily under the southeastern portion of the Site peninsula. Beyond the southeastern portion of the Site peninsula, the fresh groundwater transitions to salt water percentages of >90% toward the Hylebos and Blair Waterways where the 75-ft zone passes just under these salt water bodies, and toward Commencement Bay where the 75-ft zone intersects this salt water body.
- In the 100-ft zone (Figure 3.58), three areas of fresh groundwater occur at 17C-100/PZ-SHI-3-75, 90C-100/91C-100, and WW-A1D-47. The fresh groundwater areas at 17C-100/PZ-SHI-3-75 and 90C-100/91C-100 appear to extend downward from the 75-ft zone. The fresh groundwater area at WW-A1D-47 lies below the top surface of the glacial deposits described in Section 3.5.4 and shown on Figure 3.52. As described further in Section 3.6.2.8, a zone of apparent confining effect is identified near the base of the deltaic deposits that hydraulically separates the upper deltaic deposits from the glacial deposits. In the glacial deposits beneath the Site peninsula, hydraulic pressures are typically greater than in the deltaic deposits, and groundwater is predominantly fresh. The zone of apparent confining effect, in combination with increased hydraulic pressures, prevents salt water from entering the glacial deposits. The >60 to >80% salt water on the east side of the Waterway (south of WW-A1D-47) is attributed to the lack of observed salt water percentage data points in this area. There is a transition to salt water percentages of >60 to >80% at the south end of the Site and toward the Blair Waterway on the west side of the Site peninsula.
- In the 130-ft zone (Figure 3.59), fresh groundwater occurs under the eastern portion of the Site peninsula and at WW-A1D-77. As for the 100-ft zone, the fresh groundwater area at WW-A1D-77 lies below the top surface of the glacial deposits and the zone of apparent confining effect. The fresh groundwater area surrounding 17C-130, 65-130, and 75-130 also lies below the top surface of the glacial deposits and the zone of apparent confining effect. This area corresponds to a mound in the top surface of the glacial deposits shown on Figure 3.52. The >40 to >50% salt water on the east side of the Waterway (south of WW-A1D-77) is attributed to the lack of observed salt water percentage data points in this

area. There is a transition to salt water percentages of >70 to >90% at the south end of the Site and toward the Blair Waterway on the west side of the Site peninsula.

- In the 160-ft zone (Figure 3.60), fresh groundwater occurs under the eastern and northeastern portions of the Site peninsula and. The fresh groundwater areas lie below the top surface of the glacial deposits and zone of apparent confining effect. The >90% salt water at WW-A1D-110 lies below the top surface of the glacial deposits and appears inconsistent with the fresh groundwater occurring at this location in the overlying 100-ft and 130-ft zones. However, the >90% salt water at WW-A1D-110 may be due to heterogeneous stratigraphy in this area providing a pathway for salt water migration to this depth beneath the overlying fresh groundwater. The area of >50 to >70% salt water on the east side of the Waterway (south of WW-A1D-110) is attributed to the lack of observed salt water percentage data points in this area, and the salt water distribution in this area is also influenced by the salt water percentage result at WW-A1D-110. There is a transition to salt water percentages of >70 to >90% at the south end of the Site and toward the Blair Waterway on the west side of the Site peninsula.

3.6.2.4 Anthropogenic Density Plume (ADP)

Historical Site operations resulted in releases of high density fluids to groundwater. The high density fluids consist of lime sludge and solvent residue (DNAPL) released to the settling ponds and settling barge, sodium hydroxide (caustic soda) released through caustic production/storage/handling, and brine (sodium chloride) released from operating the Salt Pad. The high density fluids and potential source areas for their release are described further in Section 5.2.

The high density fluids have resulted in a comingled plume of high density, referred to as the ADP, that under current conditions consists of specific gravity values ranging from >1.02 (density of >63.7 lbs/ft³) to approximately 1.2 (density of 74.9 lbs/ft³). The ADP has sank due to its higher density water relative to the density of fresh groundwater and salt water beneath the Site, and over time, has migrated away from its release areas via density-dependent flow (i.e., gravity-driven flow). While migrating downwards, the higher density plume displaced the fresh groundwater and salt water initially present beneath the release locations. The fresh groundwater and salt water displacement caused by the downward density plume migration created lateral groundwater flow that has contributed to the lateral spreading of the ADP, as well as the spreading of the impacted groundwater surrounding or comingled with the ADP.

The ADP, along with salt water, creates density-dependent groundwater flow conditions beneath the Site that further complicates interpreting groundwater flow directions and hydraulic gradients beneath the Site. Limited mixing occurs between the ADP, salt water, and

fresh groundwater due to the density differences. The ADP is denser than salt water and has penetrated/displaced the salt water in some locations beneath the Site. Interpreting groundwater flow directions and hydraulic gradients must account for the density differences, as described further in Section 3.6.2.5.

The distribution of the ADP in groundwater beneath the Site was interpolated based on temperature corrected laboratory specific gravity measurements taken from groundwater samples collected at the Site during the CSI in 2012 and Subtidal/Hydraulic Investigation in 2005-2006. The specific gravity measurements were converted to density. The combined groundwater density data set used to interpolate the ADP is presented in Appendix K. The specific gravity temperature correction and conversion to density is described in conjunction with the evaluation of hydraulic monitoring data collected at the Site presented in Appendix L.

A 3-D model of the ADP, based on groundwater density, was developed using 3-D kriging implemented in the MVS/EVS software package. A 3-D visualization of the ADP in the 4DIM viewer format is included in Appendix K. Figures 3.61 to 3.66 show horizontal slices through the 3-D model of the ADP at the 25-ft, 50-ft, 75-ft, 100-ft, 130-ft, and 160-ft zone grouping planes, respectively. The primary potential source areas related to the high density fluid releases that comprise the ADP described in Section 5.2 are also shown on Figures 3.61 to 3.66. These primary potential source areas consist of the settling ponds and settling barge (WMUs C, F, G, and H) where lime sludge and solvent residue were placed, the caustic area where caustic production/storage/handling occurred, and the Salt Pad. The horizontal slices through the ADP indicate:

- In the 25-ft and 50-ft zones (Figures 3.61 and 3.62), the ADP is located under the Salt Pad and caustic potential source area, with an area of maximum density of 65-66 lbs/ft³. A fresh groundwater density (<63 lbs/ft³) is present in the middle of the Site peninsula in the 25-ft and 50-ft zones consistent with the fresh groundwater and salt water distributions for these zones shown on Figures 3.55 and 3.56. Precipitation infiltration over the Site peninsula provides fresh groundwater recharge to the shallow zones. A fresh groundwater density also occurs east of the Waterway due to fresh groundwater inflow from beneath the Bluffs into Puyallup River Valley.
- In the 75-ft zone (Figure 3.63), the ADP is located under the Salt Pad and caustic potential source area, with an area of maximum density of 67-68 lbs/ft³. This area approximately corresponds to where there is an absence of salt water in the 75-ft zone along the eastern portion of the Site peninsula adjacent to the Waterway shown on Figure 3.57. Here, salt water may have existed prior to the release of the ADP, and the salt water might have been displaced by the ADP. Much of the remaining area under the Site peninsula has a density in the range of salt water (63-64 lbs/ft³), which corresponds to the salt water distribution in

the 75-ft zone. A fresh groundwater density (<63 lbs/ft³) is observed east of the Waterway due to fresh groundwater inflow from beneath the Bluffs into the Puyallup River Valley.

- In the 100-ft zone (Figure 3.64), the ADP is located under the Salt Pad and WMUs C, F, and H, with an area of maximum density of >69 lbs/ft³. Much of the remaining area under the Site peninsula has a density in the range of salt water (63-64 lbs/ft³), which corresponds to the salt water distribution in the 100-ft zone shown on Figure 3.57. The fresh groundwater area under the salt pad in the 100-ft zone shown on Figure 3.57 corresponds to the location of the ADP. Here, salt water may have existed prior to the release of the ADP, and the salt water might have been displaced by the ADP. A fresh groundwater density (<63 lbs/ft³) is observed east of the Waterway due to fresh groundwater inflow from beneath the Bluffs into the Puyallup River Valley. In this area, the fresh groundwater density further supports that the >60 to >80% salt water on the east side of the Waterway (south of WW-A1D-47) shown on Figure 3.58 results from a lack of observed salt water percentage data points in this area. A density in the range of salt water (63-64 lbs/ft³) occurs in the south and southwestern portion of the Site peninsula, which corresponds to the salt water distribution in this area for the 100-ft zone shown on Figure 3.58. This area is above the zone of apparent confining effect in the lower deltaic deposits described in Section 3.6.2.8. The zone of apparent confining effect slopes downward to the south and southwest following the top surface of the glacial deposits shown on Figure 3.52.
- In the 130-ft zone (Figure 3.65), the ADP is located north of the Salt Pad and WMUs C, F, and H, and has an area of maximum density of >69 lbs/ft³ that is larger than in the 100-ft zone. The ADP also extends towards the northwest consistent with the trough in the top surface of the glacial deposits that slopes to the northwest, as described in Section 3.5.4 and shown on Figure 3.52. The fresh groundwater area north of the Salt Pad in the 130-ft zone shown on Figure 3.59 corresponds to the location of the ADP. Here, salt water may have existed prior to the release of the ADP, and the salt water might have been displaced by the ADP. A fresh groundwater density (<63 lbs/ft³) is present in the eastern-central portion of the Site peninsula. This area is within the glacial deposits and the zone of apparent confining effect in the lower deltaic deposits. A fresh groundwater density in the eastern-central portion of the Site peninsula is consistent with the absence of salt water in this area shown on Figure 3.59. A density in the range of salt water (63-64 lbs/ft³) occurs in the south and southwestern portion of the Site peninsula, which corresponds to the salt water distribution in this area for the 130-ft zone shown on Figure 3.59. This area is within the deltaic deposits above the zone of apparent confining effect that slopes downward to the south and southwest following the top surface of the glacial deposits. The fresh groundwater density east of the Waterway is due to fresh groundwater inflow from beneath the Bluffs into the Puyallup River Valley. Here, the fresh groundwater density further supports that the >40 to >50% salt water on the east side of the Waterway (south of

WW-A1D-77) shown on Figure 3.59 results from a lack of observed salt water percentage data points in this area.

- In the 160-ft zone (Figure 3.66), the downward leading edge of the ADP with an area of maximum density of 65-66 lbs/ft³ exists in the northern portion of the peninsula. The ADP is located within the trough in the top surface glacial deposits. A fresh groundwater density (<63 lbs/ft³) surrounds the ADP, and extends into the eastern-central portion of the Site peninsula. The fresh groundwater area in the eastern-central portion of the Site peninsula lies within the glacial deposits underneath the zone of apparent confining effect in the lower deltaic deposits, and corresponds to the natural salt water distribution here in the 160-ft zone shown on Figure 3.60. A density in the range of salt water (63-64 lbs/ft³) occurs in the south and southwestern portion of the Site peninsula, which corresponds to the natural salt water distribution in this area for the 160-ft zone. This area is within the deltaic deposits above the zone of apparent confining effect that slopes downward to the south and southwest following the top surface of the glacial deposits. The fresh groundwater density east of the Waterway is due to fresh groundwater inflow from beneath the Bluffs into the Puyallup River Valley. Here, the fresh groundwater density further supports that the >50 to >70% salt water on the east side of the Waterway (south of WW-A1D-110) shown on Figure 3.60 results from a lack of observed salt water percentage data points in this area. A salt water density (63-64 lbs/ft³) occurs at WW-A1D-110 consistent with the >90% salt water occurring at this location on Figure 3.60.

3.6.2.5 Density-Dependent Groundwater Flow

At sites where groundwater and surface water are all fresh, density-dependent groundwater flow is not a concern. Hydraulic gradients and groundwater flow directions are resolved based on groundwater level measurements. In environments with water of varying density, like this Site, the assessment of hydraulic gradients and groundwater flow direction is more complex. Density variations at the Site are caused by the fresh groundwater and salt water distributions and the ADP.

Due to the density variations, water level measurements are converted to "freshwater equivalent heads" (FEHs) to interpret horizontal groundwater flow directions (i.e., along horizontal planes), and "environmental heads" (ENVs) to interpret vertical groundwater flow directions (i.e., at a monitoring well nest). Maps of FEHs within a common hydrogeologic unit can be used to interpret horizontal groundwater flow directions in horizontal planes. ENVs, calculated from FEHs and the average water density between screens in a monitoring well nest, are used to interpret vertical groundwater flow directions at a well nest location. The discussions of hydraulic gradients and groundwater flow directions at the Site are based on FEHs and ENVs rather than "groundwater levels."

The theory underlying the calculation of FEH and ENV is developed by Luszczynski (1961). Calculating FEH and ENV is necessary because:

- *"fresh-water heads define hydraulic gradients along a horizontal in groundwater of variable density," and "they are comparable along a horizontal"* (Luszczynski, 1961)
- *"environmental-water heads define hydraulic gradients along a vertical," and "they are comparable along a vertical" in groundwater of variable density* (Luszczynski, 1961)

Calculating FEH and ENV allows both horizontal and vertical hydraulic gradients to be determined in a system of variable density groundwater, which then facilitates the characterization of groundwater flow directions and the development of the conceptual hydrogeologic model for the Site. Luszczynski (1961) defines FEH and ENV as follows:

- FEH – "Fresh-water head at any point *i* in groundwater of variable density is defined as the water level in a well filled with fresh water from point *i* to a level high enough to balance the existing pressure at point *i*"
- ENV – "Environmental-water head at a given point in groundwater of variable density is defined as a fresh-water head reduced by an amount corresponding to the difference of salt mass in fresh water and that in the environmental water between that point and top of the zone of saturation"

Rather than *"fresh-water head,"* as used in Luszczynski (1961), the term 'fresh water equivalent head' is used for the Site, and the acronym "FEH" is used to denote fresh water equivalent head. Similarly, the acronym "ENV" is used to denote *"environmental-water head,"* as used in Luszczynski (1961).

Luszczynski (1961) indicates that the FEHs must be compared along a uniform horizontal plane in order to compute horizontal hydraulic gradients. Therefore, the calculated FEHs were adjusted to common horizontal reference planes, or reference elevations, to correspond to seven aquifer depth zones at the Site, or zone grouping planes, as described in Section 3.5.1. The FEHs are adjusted to the zone grouping planes to account for the fact that the monitoring well screen midpoint elevations for each aquifer depth zone vary by a small amount throughout the Site. Several hydraulic monitoring events have been conducted at the Site. The reduction of the hydraulic data and calculation of FEHs and ENVs is presented in Appendix L. The hydraulic monitoring results are presented in Section 3.6.4.

3.6.2.6 Regional Fresh Groundwater Inflow

Regional Fresh Groundwater Inflow from Bluffs

As described in Section 3.4, Robinson & Noble (1992) conducted a hydrogeologic study of the Bluffs in the Federal Way area east of the Site and developed hydrogeologic model for that area. They identified a series of aquifers within Layer 4 (see Figure 3.14) of their model within the Bluffs immediately east of the Site consisting of highly permeable soils, which they referred to as the North Shore Aquifers. Figure 3.20 shows the location of the North Shore Aquifers in plan view. As shown on Figure 3.20, the North Shore Aquifers are interpreted to extend to the upper portion of the Puyallup River Valley in their Layer 4 along the eastern shoreline of the Waterway opposite the Site. Robinson & Noble (1992) indicated that the North Shore Aquifers may consist of upper and lower zones.

Stratigraphic data from boreholes advanced along the eastern shoreline of the Waterway opposite the Site show an alternating sequence of higher and lower permeability layers extending from beneath the bluffs. Figure 3.67 presents a north-south cross-section through the 3-D stratigraphic model developed for the Site near the eastern shoreline of the Waterway. Soil types interpolated in the 3-D stratigraphic model along this cross-section are colored blue for relatively permeable sands and gravels and brown for low permeability sandy silt, clay silt, and silty gravel. A shallow layer of permeable soils is apparent in the upper portion of the cross-section from ground surface to approximately -15 ft NGVD, referred to as the Bluffs upper aquifer on Figure 3.67. Predominantly low permeability soils exist beneath the Bluffs upper aquifer to an elevation of approximately -60 ft NGVD, referred to as the Bluffs aquitard on Figure 3.67. An intermediate layer of predominantly permeable soils largely exists from approximately -60 to -120 ft NGVD, referred to as the Bluffs middle aquifer on Figure 3.67. Mainly low permeability soils are present beneath the Bluffs middle aquifer that are interpreted as an aquitard on Figure 3.67. Some lenses of permeable soils occur within this aquitard, as shown on Figure 3.67, but these are based on a fewer number of observations at depth and thus are uncertain in terms of continuity and extent.

The observed stratigraphy on Figure 3.67 is consistent with the North Shore Aquifers interpretation of Robinson & Noble (1992) within Layer 4 of their model. Layer 4 intersects the eastern shoreline of the Waterway from just below sea level to an elevation of approximately -125 ft NGVD, as shown on Figure 3.14. The Bluffs upper and middle aquifers illustrated on Figure 3.66 correspond to the suggestion by Robinson & Noble (1992) that the North Shore Aquifers may consist of upper and lower zones.

The aquifer/aquitard/aquifer/aquitard sequence along the eastern shoreline of the Waterway shown on Figure 3.67 is also consistent with the aquifer/aquitard sequence interpreted for the Bluffs east of the Site by Savoca et al. (2010). As shown on Figure 3.16, the eastern limit of

Cross-Section F-F' shows a sequence of C Aquifer/D Confining Unit/E Aquifer/F Confining Unit extending under the Bluffs. This sequence is labeled on Figure 3.67.

The hydraulic monitoring conducted at the Site is summarized in Section 3.6.4 and shows east to west groundwater flow directions from beneath the Bluffs towards the Site peninsula. As shown on Figures 3.61 to 3.66, a fresh groundwater density extends east of the Waterway, which demonstrates that inflow from beneath the Bluffs into the Puyallup River Valley consists of fresh groundwater. The fresh groundwater inflow is introduced to the deltaic deposits at shallow depths and likely to the glacial deposits at greater depths. The fresh groundwater inflow interacts with the salt water zones beneath the Waterway at shallow depths. Elevated hydraulic pressures occur within the Bluffs that limit the inland extent of the salt water zones along the east side of the Waterway. At greater depths, the fresh groundwater inflow interacts with the portion of the ADP that is positioned beneath the Waterway. The fresh groundwater inflow from the Bluffs further reinforces the need to consider variable-density effects when characterizing groundwater flow conditions at the Site.

Regional Fresh Groundwater Inflow from South

As described in Section 3.4, regional groundwater flow in the alluvial aquifer along the Puyallup River Valley has been characterized by Savoca et al. (2010) and is presented on Figure 3.26. Based on the groundwater elevations and flow directions presented on Figure 3.26, groundwater flow in the alluvial aquifer is generally toward Commencement Bay, coincident with the direction of surface water flow in the Puyallup River, and horizontal hydraulic gradients decrease toward Commencement Bay. The regional groundwater flow is derived from upland sources and is fresh. The regional groundwater flow introduced fresh groundwater inflow to both the deltaic and glacial deposits from south of the Site. This fresh groundwater inflow interacts at shallow depths with the salt water zones extending inland from Commencement Bay and the Blair Waterway, and interacts at greater depths with the ADP. The fresh groundwater inflow from the south further reinforces the need to consider variable-density effects when characterizing groundwater flow conditions at the Site.

3.6.2.7 Mud Flats

As described in Section 3.2.2, the POT consists of five man-made peninsulas that were developed in the early 1900s by dredging to create navigable waterways. The waterways were dredged through the natural tidal mud flats that existed at the mouth of the Puyallup River Valley under pre-development conditions. The mud flats consist of silts and clayey silts deposited during the last phase of delta formation at the mouth of the Puyallup River Valley. The materials from dredging the waterways were used to create the peninsulas throughout the POT. Thus, the Site peninsula was developed by placing fill material on top of the pre-existing tidal mud flats.

The mud flats are illustrated throughout the POT peninsulas on the regional geologic cross-sections developed by Hart Crowser (1975) and presented on Figures 3.11 and 3.12. The mud flats have not been identified consistently in all borings advanced on the Site peninsula. This may be due to a lack of precision in the stratigraphic logs, or may be due to stream channels that could have incised the fine-grained sediments of the mud flats. Hydraulic monitoring was conducted in the 15-ft and 25-ft zones at the southern end of the 605 Alexander Avenue property and the 709 and 721 Alexander Avenue properties to investigate whether the former mud flats influenced shallow groundwater flow conditions in this area. Figure 3.68 shows the shallow groundwater zone monitoring locations, and the details of the shallow groundwater zone hydraulic monitoring results are presented in Appendix L. The results that pertain to the former mud flats are summarized below.

Monthly hydrographs, presented in Appendix L, were compiled of the shallow groundwater zone hydraulic monitoring results for September to December 2012 for 16 nested 15-ft/25-ft zone monitoring wells shown on Figure 3.68. The hydrographs show FEH, Serfes (1991) mean FEH, tide elevation, Serfes (1991) mean tide elevation, and precipitation from September to December 2012. The hydrographs show the following:

- FEHs for the 15-ft zone do not respond to the tide
- FEHs for the 15-ft zone increase in response to increased precipitation
- FEH fluctuations in the 25-ft zone correspond directly with tidal fluctuations
- FEHs for the 15-ft zone are approximately 2 ft higher on average than for the 25-ft zone

The absence of tidal fluctuations in the 15-ft zone combined with greater FEHs in the 15-ft zone than in the 25-ft zone demonstrates that the mud flats form a continuous layer of lower permeability soils in this area and separates the two zones.

As presented on Figure 3.12, the fill on the Site peninsula was placed on top of the former tidal mud flats present at an elevation of approximately 0 ft MLLW, which corresponds to an elevation of -6.32 ft NGVD. Figure 3.69 shows the shallow stratigraphic Cross-Section Z-Z' developed along the southern end of the 605 Alexander Avenue property based on the simplified 3-D stratigraphic model for the Site. The location of Cross-Section Z-Z' is shown on Figure 3.68. Several discontinuous layers of silty clay and silt are apparent along Cross-Section Z-Z' at approximately -6 ft NGVD, which corresponds to the location of the former tidal mud flats reported by Hart Crowser (1975). Although the silty clay and silt layers appear as discontinuous on Cross-Section Z-Z', the approximate 2 ft separation between the 15-ft and 25-ft zone FEHs demonstrates that these lower permeability layers are continuous. The appearance of discontinuities in the former tidal mud flats on Cross-Section Z-Z' result because

some shallow boreholes do not extend to the depth of the mud flats, or because some of the older boreholes were not logged in enough detail to identify the mud flats. The resulting 3-D interpolation of the stratigraphic observations creates the apparent discontinuities in mud flats presence. Table 3.4 lists the soil descriptions indicated on the stratigraphic logs at the approximate elevation of the former tidal mud flats for the boreholes along Cross-Section Z-Z'. These soil descriptions indicate that mud flats predominantly consist of lower permeability silts and silty clays.

Figure 3.69 presents an average FEHs over the month of October 2012 for the 15-ft and 25-ft zone monitoring wells located along Cross-Section Z-Z'. The average 15-ft zone FEHs are approximately 2 ft above the average FEHs for the 25-ft zone illustrating the hydraulic separation between the two zones. In addition, the average FEHs for the 25-ft zone lie above the former mud flats. This indicates that the 25-ft zone is confined by the former mud flats, there is continuous saturation between the 15-ft and 25-ft zones, and that the 15-ft is not a perched groundwater flow system separated from the 25-ft zone by unsaturated soils.

3.6.2.8 Zone of Apparent Confining Effect in Lower Deltaic Deposits

As described in Section 3.5.2, the 3-D stratigraphic models developed for the Site show a reduced frequency of higher permeability soil types (i.e., sand) and a corresponding increased frequency of lower permeability soil types (i.e., silty sand, sandy silt, and clayey silt) in the lower portion of the deltaic deposits. A discrete continuous layer of low permeability material is not observed in Site borings in the lower deltaic deposits. However, groundwater quality, density, and hydraulic data for the Site support the concept that the increased frequency of lower permeability lenses limits vertical flow creating a zone of apparent confining effect in the lower deltaic deposits. The presence of the zone of apparent confining effect is inferred from:

- Upward vertical hydraulic gradients observed from the upper glacial deposits to the lower deltaic deposits in the east, northeast, and north portion of the Site peninsula where the glacial deposits are encountered⁷.
- Fresh to relatively fresh groundwater observed within the glacial deposits.
- The majority of the Site-related contamination exists within the deltaic deposits. Downward migration of the primary COCs appears to be limited within the lower deltaic deposits. Groundwater quality data indicates that the vertical limit of contamination

⁷ In the west, southwest, and south portion of the Site peninsula, the glacial deposits are not encountered, as described in Section 3.5.4. Here, the deltaic deposits extend to the depth investigated, and observed vertical hydraulic gradients in the deltaic deposits are downward in this area, as described in Section 3.6.4.1. The Site-related contamination does not extend into the southwest portion of the Site peninsula.

appears to coincide with the increased frequency of lower permeability lenses in the lower deltaic deposits.

A review of the specific lines of evidence observed at deep Site monitoring wells/borings was conducted to estimate, or infer, the top surface of the zone of apparent confining effect. The estimated top surface of the zone of apparent confining effect will be applied in the groundwater flow model being developed for the Site. The lines of evidence used to estimate the top surface of the zone of confining effect include:

- Stratigraphy - the observed stratigraphy presented in the Site boring logs identifies the presence of low permeability lenses above the glacial deposits within the lower portion of the deltaic deposits. The zone of apparent confining effect is not a continuous low permeability aquitard within the lower deltaic deposits. Instead, it is a zone of numerous inter-fingered lower permeability silt and clay layers that vary in frequency and intensity from one location to the next. The net result of these numerous silt and clay layers is a zone of lowered effective vertical hydraulic conductivity within the lower deltaic deposits. An increased occurrence of silt and clay layers in the lower deltaic deposits at a monitoring well nest was considered when selecting the top surface of the zone of confining effect.
- Density - abrupt changes in groundwater density (e.g., elevated density of the ADP changing to a fresh groundwater density) at a monitoring well nest was considered to identify the top surface of the zone of confining effect. Locations of higher density lying above lower density were interpreted to indicate the presence of a lower permeability zone that has prevented downward migration of the ADP.
- TDS, total CVOCs, and pH - abrupt changes in these parameters were evaluated in much the same way as density described above (e.g., an abrupt change from elevated to lower levels of TDS, total CVOCs, and pH). However, an abrupt change in groundwater density was given slightly more weight in estimating the top surface of the zone of confining effect at a monitoring well nest.
- Event 3A FEHs - Event 3A FEHs (presented in Section 3.6.4.1) in each zone grouping plane were compared to a theoretical salt water FEH assuming an inland salt water distribution was present to the depth of each zone grouping plane calculated from:

$$FEH_{Salt\ ZGP} = (Elev_{SW} - Elev_{ZGP}) \times SG_s + Elev_{ZGP}$$

Where:

$FEH_{Salt\ ZGP}$ theoretical salt water FEH at the zone grouping plane

SG_s specific gravity of salt water (applied 1.023 based on the average temperature corrected specific gravity measured in Commencement Bay and the Hylebos and Blair Waterways)

$Elev_{ZGP}$	elevation of the zone grouping plane (ft NGVD)
$Elev_{SW}$	average surface water elevation (applied 0.8 ft NGVD for Commencement Bay and the Hylebos and Blair Waterways)

Using the above equation, the theoretical salt water FEH at each zone grouping plane is estimated to be 1.05, 1.62, 2.20, 2.77, 3.46, and 4.38 ft NGVD for the 25-ft, 50-ft, 75-ft, 100-ft, 130-ft, and 160-ft zones, respectively.

The theoretical salt water FEH was used as a guide to evaluate well locations for each zone grouping plane that may be within the salt water distribution extending inland from the surrounding salt water bodies. For example, the theoretical salt water FEH is 3.33 ft NGVD for the 130-ft zone and 130-ft zone well locations within a range of FEHs above and below the salt water FEH were considered to be within the salt water distribution. Monitoring well FEHs that were significantly greater than the calculated salt water FEH, consist of a fresh water density, and overlain by higher density groundwater were considered to be within or below the zone of apparent confining effect.

- Event 3A ENVs - Event 3A ENVs (presented in Section 3.6.4.1) were considered to identify the presence of an upward hydraulic gradient providing evidence of a confining effect. Locations with an upward hydraulic gradient, in addition to having lower density groundwater overlain by higher density groundwater, were considered to be within or below the zone of confining effect, where this occurs above the top surface of the glacial deposits.

Table 3.5 summarizes the lines of evidence used to select the top surface elevations for the zone of apparent confining effect. The selected top surface elevations are considered to be approximate. The actual top surface elevation of the zone of apparent confining effect could be within 10 to 20 ft of the selected top surface elevations shown in Table 3.5.

Figure 3.70 presents the conceptualized contours for the top of the zone of apparent confining effect, the well locations applied in developing the contours, and the well locations that did not encounter the surface. In general, the top surface of the zone of apparent confining effect appears to mimic the top surface of the glacial deposits shown on Figure 3.52. There seems to be a trough present in the northeastern portion of the Site peninsula, with a mound under the central-eastern portion of the Site peninsula. The top surface of the zone of apparent confining effect slopes downward to the south and southwest.

3.6.3 Conceptual Site Model (CSM) of Hydrogeologic Conditions

Figure 3.71 shows the CSM of hydrogeologic conditions for the Puyallup River Valley and Bluffs in the Site vicinity. The hydrogeologic units at the Site correspond to the primary geologic units

illustrated on Figure 3.53 for the conceptual Site geologic model and consist of (from ground surface):

- Fill - variable mixture of sand, silt, and gravel material placed through dredging of the Hylebos and Blair Waterways to develop the Site peninsula. The thickness of the fill across the Site ranges from approximately 10 to 16 ft. The fill was placed on top of the former native tidal mud flats that existed at the mouth of the Puyallup River Valley under pre-development conditions (see Figures 3.3 and 3.4). The mud flats consist of silts and clayey silts deposited during the last phase of delta formation at the mouth of the Puyallup River Valley.
- Deltaic deposits - heterogeneous mixture of interbedded sands, silts, and clays. The thickness of the deltaic deposits across the Site ranges from approximately 30 ft to 200 ft in the eastern and northeastern portion of the Site to greater than approximately 300 ft in the southwestern portion of the Site.
- Glacial deposits - heterogeneous mixture of interbedded gravel, sands, silts, and clays. The thickness of the glacial deposits beneath the Site has not been determined, but based on regional information, is more than 1,000 ft. The top surface of the glacially-derived deposits slopes downward to the north, west, and south from a mound observed under the central portion of the Site, as shown on Figure 3.52. The glacial deposits are not encountered at borings in the west, southwest, and south portion of the Site peninsula and is inferred to dip downward in this area below the depth of the Site borings.

The Site stratigraphic data indicate that there is an increased frequency of lower permeability lenses, comprised mainly of silt and clay, in the lower deltaic deposits. This is shown schematically on Figure 3.71. Within the Bluffs, Figure 3.71 shows an alternating sequence of sand/gravel aquifer and silt/clay aquitard layers based on the regional geologic conditions described in Sections 3.4.1 and 3.6.2.6.

Groundwater beneath the Site discharges to the surrounding surface water bodies. Fresh groundwater inflow toward the Site peninsula occurs from the south due to upland regional groundwater flow along the Puyallup River Valley, and from the east due to regional groundwater flow in the Bluffs aquifers discharging to the Valley. Infiltration of precipitation over the Site peninsula contributes a further source of fresh groundwater, and establishes a shallow radial groundwater flow pattern towards the surface water bodies.

The groundwater table at the Site peninsula is located in the fill that was placed on top of the native mud flats. As shown on Figures 3.3 and 3.4, the mud flats historically existed throughout the POT and extended as far south as East Eleventh Street. The mud flats have not been identified consistently in all Site borings. This may be due to a lack of precision in the

stratigraphic logs, or may be due to stream channels that could have incised the fine-grained sediments of the mud flats. For the CSM, a mud flats stratigraphic unit is conceptualized as depicted on Figure 3.71. It is understood that this conceptualization is a simplification of the actual complex physical setting.

In general, the mud flats are assumed to have hydraulic conductivity similar to silts and clays identified within the deltaic deposits. While lower permeability sediments within the mud flats may not be entirely continuous, they clearly create a hydraulic separation between the fill and the underlying deltaic deposits in the southern portion of the Site where detailed investigation of groundwater levels within the fill has been completed. Here, groundwater elevations in the fill are approximately 2 ft higher than groundwater elevations in the deltaic deposits immediately beneath the mud flats. The mud flats are colored dark brown on Figure 3.71 where the hydraulic separation between the fill and deltaic deposits is observed in the southern portion of the Site, and a lighter brown where this hydraulic separation is not confirmed.

The majority of the Site-related contamination exists within the deltaic deposits. Groundwater quality data indicates that the vertical limit of contamination appears to coincide with the increased frequency of lower permeability lenses in the lower deltaic deposits or the top of the glacial deposits. A discrete continuous layer of low permeability material is not observed in Site borings in the lower deltaic deposits. However, the groundwater quality, density, and hydraulic evidence supports the concept that the increased frequency of lower permeability lenses limits vertical flow creating a zone of apparent confining effect in the lower deltaic deposits. The presence of this zone of apparent confining effect is inferred from:

- Upward vertical hydraulic gradients observed from the upper glacial deposits to the lower deltaic deposits in the east, northeast, and north portion of the Site peninsula where the glacial deposits are encountered⁸
- Fresh to relatively fresh groundwater observed within the glacial deposits, while fresh groundwater and salt water distributions are observed above the glacial deposits
- Downward migration of the COCs appears to be limited to within the lower deltaic deposits or top of the underlying glacial deposits

A zone of apparent confining effect in the lower deltaic deposits is consistent with some features of the fresh groundwater and salt water distributions observed at the Site. Relatively fresh groundwater is observed in deeper parts of the deltaic deposits and in the glacial deposits. The glacial deposits appear to be an aquifer system composed of several

⁸ Just west, southwest and south of the Site, the glacial deposits are not encountered. Here, the deltaic deposits extend to the depth investigated, and observed vertical hydraulic gradients in the deltaic deposits are downward in this area.

glacially-derived aquifers and aquitards that are separated from the deltaic deposits by the zone of apparent confining effect. The fresh groundwater in the glacial deposits is derived from upgradient regional inflow. The regional inflow, combined with the zone of apparent confining effect, likely causes higher hydraulic pressures within the glacial deposits that result in the upward vertical hydraulic gradients from the upper glacial deposits to the lower deltaic deposits.

The observed salt water and fresh groundwater distributions are translated to the CSM of hydrogeologic conditions in the Site vicinity on Figure 3.71. The fresh groundwater and salt water distributions, as well as groundwater flow conditions, illustrated on Figure 3.71 are generalized representations of pre-contamination conditions. The groundwater flow conditions illustrated on Figure 3.71 are summarized as follows:

- Recharge from precipitation infiltration contributes shallow fresh groundwater in the fill. This recharge migrates downward into the underlying deltaic deposits and laterally to the waterways
- Fresh groundwater is also introduced to both the deltaic and glacial deposits from the uplands along the Puyallup River Valley and from the east from beneath the Bluffs aquifers that lie below sea level
- Elevated FEHs in the Bluffs limit the inland extent of the salt water along the east side of the Waterway, as shown on Figure 3.71
- Available salinity data from borings completed beneath the waterway show a zone of fresher groundwater from the eastern bluffs extending adjacent to and beneath the Waterway
- Available bromide data used as a tracer for identifying naturally-occurring saltwater suggest a relatively complex pattern of saltwater at intermediate depths underlain by fresher groundwater at depth at some locations

The presence of both salt water and fresh groundwater beneath the Site, as well as elevated groundwater densities associated with the ADP, creates density-dependent groundwater flow conditions that need to be accounted for when interpreting groundwater flow directions and hydraulic gradients. Density-dependent groundwater flow conditions are accounted for using FEHs to interpret horizontal groundwater flow directions, and using ENVs to interpret vertical groundwater flow directions. Maps of FEHs within a common hydrogeologic unit can be used to interpret horizontal groundwater flow directions in horizontal planes. ENVs, calculated from FEHs and the average groundwater density between screens in a monitoring well nest, are used to interpret vertical groundwater flow directions at a well nest location. The discussions of

hydraulic gradients and groundwater flow directions at the Site are based on FEHs and ENVs rather than "groundwater levels".

The results of the hydraulic monitoring events conducted at the Site presented in Section 3.6.4 below corroborate the generalized groundwater flow directions presented on Figure 3.71. FEHs determined from the monitoring show a shallow radial groundwater flow pattern sustained by precipitation recharge over the Site peninsula with groundwater flowing toward the Hylebos and Blair Waterways and Commencement Bay. Also evident in the FEHs are regional groundwater inflow from the south along the Puyallup River Valley, and regional groundwater inflow from the east from beneath the Bluffs. The influence of pumping from the Site groundwater extraction system is evident in the FEHs in close proximity to extraction well branches. ENVs demonstrate mainly downward vertical hydraulic gradients within the deltaic deposits, particularly within the ADP. ENVs further demonstrate upward vertical hydraulic gradients from the upper glacial deposits to the lower deltaic deposits.

The ADP, comprised of high density liquid releases from historical Site operations/processes (lime sludge/solvent residue, caustic soda, and salt brine) has a significant influence on groundwater flow and contaminant transport. The ADP has created laterally outward groundwater flow directions as it has migrated downward from its surficial release point due to gravity-driven downward groundwater flow of the high density liquids. The influence of the ADP on COC migration at the Site is described in Section 5.0.

3.6.4 Hydraulic Monitoring and Testing

The hydraulic monitoring and testing completed at the Site have included Site-wide hydraulic monitoring (Section 3.6.4.1), hydraulic monitoring focused on the 709/721 Alexander Avenue properties (Section 3.6.4.2), horizontal and vertical hydraulic conductivity testing (Section 3.6.4.3), and investigations of groundwater/surface water interaction using a geophysical survey and seepage meters (Section 3.6.4.4). The results of the hydraulic monitoring and testing are presented in the following sub-sections.

3.6.4.1 Site-Wide Hydraulic Monitoring

Four Site-wide hydraulic monitoring (groundwater elevation measurement) events have been conducted at the Site, referred to as Events 1, 2, 3A, and 3B. Figure 3.72 shows the locations of all Site monitoring wells, and the monitoring well completion details are presented in Table 3.6. Groundwater pressure data were collected during the hydraulic monitoring events using pressure transducers installed at selected monitoring wells for each event. The pressure transducers were connected to data loggers to record pressure measurements from the transducers at five-minute intervals. The hydraulic monitoring for Events 1 and 2 was

continuous from May to June 2006. The hydraulic monitoring for Events 3A and 3B, conducted as part of the CSI, was continuous from September to December 2012. Each of Events 1, 2, 3A, and 3B consist of a 72-hour hydraulic monitoring data period extracted from the continuous monitoring record, which allowed for the gauging of groundwater pressures over a full tidal cycle.

Event 1 consisted of a 72-hour monitoring period while the groundwater extraction/injection system was in operation. Following Event 1, the extraction/injection system was temporarily shut down, in order to allow Event 2 to be conducted under non-pumping conditions after groundwater levels had recovered, or stabilized, in response to the cessation of pumping. The groundwater injection system was not re-started following Event 2. Similar to Events 1 and 2, Event 3A was conducted while the groundwater extraction system was in operation, and Event 3B was conducted after the groundwater extraction system was temporarily shut down and groundwater levels had recovered. Events 1 and 3A represent pumping conditions, while Events 2 and 3B represent non-pumping conditions.

For each monitoring event, the recorded pressure transducer data were reviewed for data quality, which consisted of comparing the transducer data to periodic manually measured groundwater levels. The pressure transducer data were then used to evaluate groundwater levels in terms of FEHs in the horizontal direction along the seven zone grouping planes and ENVs in the vertical direction at monitoring well nests. The seven zone grouping planes consist of the 15-ft, 25-ft, 50-ft, 75-ft, 100-ft, 130-ft, and 160-ft zones described in Section 3.5.1. The methods of pressure transducer data reduction and data quality validation, along with calculation of FEH and ENV are presented in Appendix L. The tidally influenced groundwater elevation data were reduced to mean elevations (Serfes [1991] mean) over each 72-hour monitoring event following procedures described in Appendix L.

The results of Events 1 and 2 are summarized in Section 3.6.4.1.1, and the results of Events 3A and 3B are summarized in Section 3.6.4.1.2.

3.6.4.1.1 Events 1 and 2 Hydraulic Monitoring Results

Event 1 was initiated on May 27, 2006 at 09:00 Pacific Daylight Time (PDT) and was completed on May 30, 2006 at 09:00 PDT. The extraction/injection system was temporarily shut down on May 31, 2006 at 13:55 PDT. Event 2 was initiated on June 12, 2006 at 09:00 PDT and was completed on June 15, 2006 at 09:00 PDT. Figure 3.73 presents the Events 1 and 2 hydraulic monitoring well networks in plan view, and Figure 3.74 provides a graphical illustration of the monitoring well screen intervals by aquifer depth zone, or zone grouping plane. The Events 1 and 2 monitoring well locations are listed in Table 3.7.

The Events 1 and 2 monitoring network consisted of monitoring wells and subtidal piezometers. Events 1 and 2 did not include wells screened in the 15-ft zone (15-ft zone wells were included in the Events 3A and 3B monitoring well network). The wells/subtidal piezometers comprising the hydraulic monitoring network are categorized into 3 general types of transducer installation configurations:

- Type 1: An upland monitoring well instrumented with a vented diaphragm pressure transducer suspended in the water column above the well screen
- Type 2: An upland monitoring well instrumented with a vented diaphragm or non-vented vibrating wire pressure transducer installed within the well screen
- Type 3: A subtidal piezometer within the Waterway instrumented with a down-hole non-vented vibrating wire pressure transducer grouted into position within a screened casing

Figure 3.75 presents a schematic of the three types of transducer installation configurations. The transducer configuration applied at each well/subtidal piezometer included in the Events 1 and 2 hydraulic monitoring networks is indicated on Figure 3.73.

Two (2) models of pressure transducers were installed at the Site for the hydraulic monitoring: Telog-brand vented diaphragm pressure transducers; and Geokon-brand vibrating wire pressure transducers. Generally, the Telog[®] transducers were installed in upland monitoring wells, and the Geokon transducers were installed in the subtidal piezometers. However, prior to initiating Event 1, the Telog transducers malfunctioned at six upland monitoring wells (1-100R, 14-25R, PZ-SHI-3-42, PZ-SHI-3-75, PZ-SHI-3-100, and 15-120). The Telog transducers at these upland wells were replaced with Geokon transducers installed within the screened interval at each well (i.e., a Type 2 transducer configuration).

Figure 3.76 presents an example of the measured pressure versus time at well 2-100 for Events 1 and 2. The pressure data measured by the transducers during each of Events 1 and 2 were reduced to an average pressure response within the aquifer, and then converted to an average FEH, as described in Appendix L. The average FEHs were then applied to interpret aquifer hydraulic responses, or groundwater flow conditions, under average tide conditions observed during both Events 1 and 2. Although the tide fluctuations in the Hylebos and Blair Waterways and Commencement Bay result in transient groundwater elevations at the Site that vary in response to the tide, average conditions are considered to provide a reasonable representation of the groundwater flow system.

As described in Appendix L, variations in pumping from the Site groundwater extraction system occurred due to performing treatment system maintenance just prior to Event 1. As a result,

the groundwater pressures measured during Event 1 do not reflect constant pumping conditions. However, the influence of pumping by the Site groundwater extraction system is apparent in the Event 1 FEH data, as described below.

The Events 1 and 2 calculated FEHs are presented in Appendix L. The calculated FEHs for Events 1 and 2 along each of the 25-ft to 100-ft zones were interpolated throughout each grouping plane using linear kriging with linear drift as implemented in Surfer (Golden Software, Inc., 2002). The kriging approach implemented in Surfer provided a mathematically based, non-biased first trial to developing FEH contours. The Surfer generated FEH contours were then hand-modified to account for knowledge of the CSM of hydrogeologic conditions for the Site (i.e., stratigraphy, groundwater/surface water interaction, regional influences, operation of the Site groundwater extraction system, etc.).

FEH contours were not developed for the 130-ft and 160-ft zones for Events 1 and 2 because these zone grouping planes intersect the zone of apparent confining effect in the lower deltaic deposits, and the bulk of the wells for these two zones are screened within the underlying glacial deposits. The hydrogeologic conditions within the glacial deposits are highly variable, heterogeneous, and complicated, which renders the interpretation of horizontal groundwater flow conditions between adjacent monitoring wells impractical. As a result, only FEH values at each monitoring well are presented.

Figures 3.77 through 3.82 present the Event 1 FEHs for the 25-ft, 50-ft, 75-ft, 100-ft, 130-ft, and 160-ft zones, respectively. Figures 3.83 through 3.88 present the Event 2 FEHs for the 25-ft, 50-ft, 75-ft, 100-ft, 130-ft, and 160-ft zones, respectively. The Events 1 and 2 FEHs demonstrate the following general trends:

- Shallow groundwater mounding over the Site peninsula due to precipitation infiltration
- Shallow groundwater discharge to Commencement Bay and the Hylebos and Blair Waterways
- Regional groundwater inflow from south along the Puyallup River Valley
- Regional groundwater inflow from beneath the Bluffs east of the Site
- Operation of the existing Site groundwater extraction system (for Event 1)

The groundwater flow directions demonstrated by the Events 1 and 2 FEHs are consistent with the CSM of hydrogeologic conditions for the Site described in Section 3.6.3.

3.6.4.1.2 Events 3A and 3B Hydraulic Monitoring Results

The CSI hydraulic monitoring consisted of a Site-wide hydraulic monitoring program conducted from September to December 2012. The Event 3 CSI hydraulic monitoring formally began on September 9, 2012 and ended on December 15, 2012. However, hydraulic monitoring at several shallow monitoring wells began in December 2011. The 72-hour time periods selected for Events 3A and 3B correspond to:

- Event 3A – from October 5, 2012 at 12:00 PDT to October 8, 2012 at 12:00 PDT and representative of pumping conditions immediately before the extraction system shutdown on October 8, 2012 at 14:00 PDT
- Event 3B – from October 11, 2012 at 12:00 PDT to October 14, 2012 at 12:00 PDT and representative of non-pumping conditions after groundwater elevations had recovered following the extraction system shutdown

The hydraulic monitoring program consisted of using pressure transducers to record pressure measurements within a network of existing monitoring wells, and new wells installed as part of the CSI. Figure 3.89 presents the CSI hydraulic monitoring network in plan view. Figure 3.90 provides a graphical illustration of the screen intervals for the CSI monitoring well locations relative to their assigned zone grouping plane. A list of the CSI hydraulic monitoring locations is presented in Table 3.8. The locations that make up the hydraulic monitoring network were selected consistent with the CSI Work Plan to provide reasonable coverage of the Site in both the horizontal and vertical directions. The CSI hydraulic monitoring was performed at wells screened within the 7 aquifer depth zones corresponding to the 15-ft, 25-ft, 50-ft, 75-ft, 100-ft, 130-ft, and 160-ft zones.

Three types of pressure transducers were used for the CSI hydraulic monitoring, as follows:

- Solinst Levellogger Edge series of pressure transducer/dataloggers – these instruments are sealed and non-vented with internal power supply and datalogging capabilities that measure total pressure (i.e., water pressure plus atmospheric pressure) and temperature. These pressure transducers were installed in standard monitoring wells suspended in the well screens using stainless steel cables at elevations corresponding to the 15-ft, 25-ft, 50-ft, 75-ft, 100-ft, 130-ft, and 160-ft zone grouping planes. The raw transducer readings consist of date, time, total pressure, and temperature. A Solinst Barologger Edge pressure transducer/datalogger was used to record barometric pressure at the Site and synchronized to taking readings at the same time as the pressure transducers. The barometric pressure was then subtracted from the Levellogger total pressure readings to give water column

pressure for each monitoring well location. A Levellogger pressure transducer was also installed in the Waterway suspended in a screened casing strapped to the side of Dock 1.

- Geokon Model 4500 Vibrating Wire Piezometers – these instruments are sealed and non-vented pressure transducers that use vibrating wire technology to produce a signal that is proportional to the pressure exerted on the transducer. The electronic components (batteries, datalogger) are contained within a weather-resistant datalogger box at ground surface, such that the down-hole equipment consisted solely of the communication cable and pressure sensor. The Geokon transducers were installed at CMT monitoring well locations with the transducers fastened to the outside of the CMT well casing at elevations corresponding to the 25-ft, 50-ft, 75-ft, 100-ft, 130-ft, and 160-ft zone grouping planes. Sand packs were placed around the transducers on the outside of the CMT well casing. At selected CMT well locations, Geokon transducers were installed in boreholes extended below the bottom of the CMT wells where the transducer was suspended by the logger communication cable at the selected elevation, set into a short sand pack and then sealed into place. Geokon transducers were also used at the three previously installed Waterway subtidal piezometer locations WW-A1, WW-B1, and WW-C1 that were found to be functional.
- Micron narrow-diameter pressure transducers – these instruments were installed within the CMT well channels (i.e., groundwater sampling channels and ports) at twelve locations to replace the initially installed Geokon transducers that malfunctioned. The Micron pressure transducer contains a pressure sensor coupled to direct-read vented cable. The power source and datalogger are contained within weather-resistant boxes at ground surface. The Micron dataloggers were installed at similar elevations as the initially installed Geokon transducers they replaced.

The pressure transducers were used to record hydraulic pressures over the duration of the CSI hydraulic monitoring. The pressure data recorded by the transducers were reduced to provide a hydraulic pressure exerted by the formation at the screen intervals of the monitoring locations for each zone grouping plane, as presented in Appendix L. The formation pressures were then converted to FEH and ENV that account for variable density effects on groundwater flow and were used to interpret the groundwater flow conditions under pumping and non-pumping conditions, as presented in Appendix L. The FEHs and ENVs observed throughout the hydraulic monitoring network were applied to interpret horizontal and vertical groundwater flow directions, respectively.

The CSI hydraulic monitoring results were reviewed in terms of:

- Shallow groundwater flow characteristics in the 15-ft and 25-ft zones from December 2011 to December 2012 based on continuous hydraulic monitoring conducted during this time

- Full-depth groundwater flow conditions during pumping and non-pumping conditions based on the Events 3A and 3B 72-hour monitoring events
- Vertical groundwater flow characteristics in the 130-ft zone, 160-ft zone, and below the 160-ft zone based on the Events 3A and 3B 72-hour monitoring events

Shallow Zone Continuous Hydraulic Monitoring - December 2011 to December 2012

Monthly hydrographs of the December 2011 to December 2012 continuous hydraulic monitoring results for the five 15-ft zone and three 25-ft zone monitoring wells are presented in Appendix L. The well locations for the continuous hydraulic monitoring are shown on Figure 3.68. The hydrographs present FEH, Serfes (1991) mean FEH, tide elevation measured at the Site off of Dock 1, running Serfes (1991) mean tide elevation, and precipitation⁹ from December 2011 to December 2012.

The FEHs for wells 49-15 and 709-MW5-15 located immediately adjacent to the Waterway respond to tidal fluctuations only under peak high tide. The FEHs for the three remaining 15-ft zone wells (i.e., 50-15, 52-15, and 709-MW6-15) do not respond to tidal fluctuations. The FEHs for the 15-ft zone monitoring wells demonstrate that the 15-ft zone has limited hydraulic connection to the Waterway. In contrast, the FEHs for the 25-ft zone well hydrographs respond to tidal fluctuations on a continuous basis. This indicates that the 25-ft zone has a strong hydraulic connection to the Waterway. The tidal fluctuations in the 25-ft zone are greatest at well 709-MW20-25 located immediately adjacent to the Waterway and the tidal fluctuations are damped at wells 18-25 and 9-25 located at increasing distances inland from the Waterway.

The FEHs for 15-ft zone monitoring wells all show a direct response to increased precipitation. The response is most prominent in the hydrographs during times of increased precipitation. The increased precipitation infiltrates into the unsaturated zone and reaches the groundwater table located within the 15-ft zone causing increased 15-ft zone groundwater elevations, or FEHs.

The 15-ft zone FEHs also show a response to reduced or zero precipitation during dry periods. Limited precipitation occurred during June and July 2012, and essentially no precipitation occurred from August to early October 2012. From June to early October 2012, the 15-ft zone FEHs decrease steadily. The decreasing 15-ft zone FEHs during dry periods are due to a combination of lateral drainage to the Waterway and downward vertical leakage to the 25-ft zone.

⁹ Precipitation data was obtained from NOAA National Weather Service office at Tacoma Narrows Airport, Tacoma, WA (accessed from http://www.wunderground.com/history/airport/KTIW/2011/12/1/CustomHistory.html?dayend=6&monthend=1&yearend=2012&req_city=NA&req_state=NA&req_statename=NA).

A summary of the minimum (month of occurrence), maximum (month of occurrence), and average 15-ft zone Serfes (1991) mean FEHs over the duration of the continuous hydraulic monitoring is provided below.

15-ft Zone Well	Approx. Distance From Waterway (ft)	Min. Serfes (1991) Mean FEH (ft NGVD)	Max. Serfes (1991) Mean FEH (ft NGVD)	Avg. Serfes (1991) Mean FEH (ft NGVD)
52-15	680	3.98 (Oct-2012)	6.96 (Apr-2012)	5.46
50-15	220	3.60 (Oct-2012)	6.39 (Dec-2012)	5.01
709-MW6-15	180	3.49 (Oct-2012)	6.19 (Dec-2012)	4.86
49-15	60	3.63 (Oct-2012)	6.37 (Dec-2012)	4.95
709-MW5-15	40	3.08 (Oct-2012)	5.34 (Dec-2012)	4.14

The 15-ft zone wells in the table inset above are ordered from greatest to least distance from the Waterway. The minimum, maximum, and average FEHs show a relatively consistent groundwater flow direction toward the Waterway in the 15-ft zone. The minimum FEH occurs for the above 15-ft zone wells in mid-October 2012 following the dry period extending from June to mid-October 2012. Except for 52-15, the maximum FEH for the above 15-ft zone wells occurs in December 2012 after the significant rainfall events that took place in November and early December 2012. For 52-15, the maximum FEH occurs in early April 2012 after heavy rainfall events in mid- and late March 2012.

Unlike the 15-ft zone wells, the 25-ft zone hydrographs show that the Serfes (1991) mean FEHs for the 25-ft zone wells do not respond directly to precipitation infiltration. The 25-ft zone Serfes (1991) mean FEHs remain relatively consistent during the continuous hydraulic monitoring. Fluctuations in the 25-ft zone Serfes (1991) mean FEHs correspond directly with fluctuations in the Serfes (1991) mean tide. The only time increases in the 25-ft zone Serfes (1991) mean FEHs appear to coincide with increased rainfall occurs following November 19, 2012, which is when the largest daily rainfall event occurred during the continuous hydraulic monitoring. However, the increased 25-ft zone Serfes (1991) mean FEHs also correspond to an increase in the Serfes (1991) mean tide. The increased Serfes (1991) mean tide occurs when the overall tide cycle was declining and should have resulted in a decreasing Serfes (1991) mean tide. Instead, an increase in the Serfes (1991) mean tide occurs, which is caused by increased watershed run-off discharging to the surrounding surface water bodies following the November 19, 2012 rainfall event. Thus, the increases in the 25-ft zone Serfes (1991) mean FEHs following November 19, 2012 are created by increases in the Serfes (1991) mean tide that are in turn caused by increased watershed run-off.

Shallow Zone CSI Hydraulic Monitoring - September to December 2012

Monthly hydrographs of the September to December 2012 CSI hydraulic monitoring results for the sixteen nested 15-ft/25-ft zone monitoring wells on 709 and 721 Alexander Avenue are presented in Appendix L. The hydrographs present FEH, Serfes (1991) mean FEH, tide elevation measured at the Site off of Dock 1, Serfes (1991) mean tide elevation, and precipitation from September to December 2012.

The Appendix L hydrographs show 15-ft and 25-ft zone hydraulic responses similar to what was observed during the continuous hydraulic monitoring. The Serfes (1991) mean FEH for the 15-ft zone monitoring wells increase in response to increased precipitation, and fluctuations in the 25-ft zone Serfes (1991) mean FEHs correspond directly with fluctuations in the Serfes (1991) mean tide.

Increases in the Serfes (1991) mean FEHs at the 15-ft zone monitoring wells in response to increased precipitation are variable between the southern end of the 605/709 Alexander Avenue and 721 Alexander Avenue properties. The variation in this response is due to the presence of permeable and less permeable ground cover on these properties, as shown on Figure 3.68. The ground cover in the southern end of 605/709 Alexander Avenue consists largely of bare soil with some smaller areas of concrete and asphalt and limited vegetation. The ground cover on 721 Alexander Avenue consists entirely of asphalt. Similarly, the ground cover on the property immediately south of 721 Alexander Avenue consists of asphalt or buildings.

The Appendix L hydrographs for the nested 15-ft/25-ft zone monitoring wells all show that Serfes (1991) mean FEHs for the 15-ft zone are approximately 2 ft higher on average than for the 25-ft zone. This demonstrates that there is a layer of lower permeability soils separating the two zones, which corresponds to the former tidal mud flats underlying the fill present throughout the Site peninsula, as described in Section 3.6.2.7.

Events 3A and 3B

The Events 3A and 3B calculated FEHs are presented in Appendix L. The calculated FEHs for Events 3A and 3B along each of the 25-ft to 100-ft zones were interpolated throughout each grouping plane using linear kriging with linear drift as implemented in Surfer (Golden Software, Inc., 2002). The kriging approach implemented in Surfer provided a mathematically based, non-biased first trial to developing FEH contours. The Surfer generated FEH contours were then hand-modified to account for knowledge of the CSM of hydrogeologic conditions for the Site (i.e., stratigraphy, groundwater/surface water interaction, regional influences, operation of the Site groundwater extraction system, etc.).

As for Events 1 and 2, FEH contours were not developed for the 160-ft zone for Events 3A and 3B because this zone grouping plane intersects the zone of apparent confining effect in the lower deltaic deposits, and the bulk of the wells for these two zones are screened within the underlying glacial deposits. The hydrogeologic conditions within the glacial deposits are highly variable, heterogeneous, and complicated, which renders the interpretation of horizontal groundwater flow conditions between adjacent monitoring wells impractical. As a result, only FEH values at each monitoring well are presented for the 160-ft zone. FEH contours were developed for the 130-ft zone for Events 3A and 3B, but only for the Site area that lies above the zone of apparent confining effect.

Figures 3.91 through 3.97 present the Event 3A FEHs for the 15-ft, 25-ft, 50-ft, 75-ft, 100-ft, 130-ft, and 160-ft zones, respectively. Figures 3.98 through 3.104 present the Event 3B FEHs for the 15-ft, 25-ft, 50-ft, 75-ft, 100-ft, 130-ft, and 160-ft zones, respectively. As for Events 1 and 2, the Events 3A and 3B FEHs demonstrate the following general trends:

- Shallow groundwater mounding over the Site peninsula due to precipitation infiltration
- Shallow groundwater discharge to Commencement Bay and the Hylebos and Blair Waterways
- Regional groundwater inflow from south along the Puyallup River Valley
- Regional groundwater inflow from beneath the Bluffs east of the Site
- Operation of the existing Site groundwater extraction system (for Event 3A)
- For the 130-ft zone, a northwesterly groundwater flow direction is apparent in the northeastern portion of the Site peninsula that appears aligned with the northwesterly dipping trough in the top surface of the glacial deposits

The groundwater flow directions demonstrated by the Events 3A and 3B FEHs are consistent with the CSM of hydrogeologic conditions for the Site described in Section 3.6.3. For Event 3B, residual drawdown is apparent in the FEH contours for the 25-ft to 100-ft zones. The residual drawdown indicates that full groundwater level recovery following shutdown of the Site groundwater extraction system had not been achieved at the time of Event 3B.

130-ft/160-ft Zones Vertical Groundwater Flow Characteristics

Vertical groundwater flow between the 130-ft and 160-ft zones, and between the 160-ft and underlying zones, was evaluated by comparing the Events 3A and 3B ENVs at well nests that intersect these zones and resolving the ENVs into vertical hydraulic gradients. Vertical hydraulic gradients between the 130-ft zone and 160-ft zone wells are presented on Figure 3.105, and vertical hydraulic gradients between the 160-ft zone and underlying zone wells are presented on Figure 3.106.

As presented on Figure 3.105, vertical hydraulic gradients from the 130-ft zone to the 160-ft zone are predominantly downward within, and in close proximity to, the ADP due to the higher density groundwater within the ADP (the position of the ADP in the 130-ft zone is indicated on Figure 3.105). Predominantly upward vertical hydraulic gradients occur from the 160-ft zone to the 130-ft zone elsewhere within the Site peninsula. The intersection of the 130-ft zone grouping plane elevation with the top surface of the zone of apparent confining effect is indicated on Figure 3.105. Wells in the 130-ft zone east of the intersection line lie below the top surface of the zone of apparent confining effect, while wells to the west lie above. Beyond the ADP, vertical hydraulic gradients are mainly upward from the 160-ft zone to the 130-ft zone both above and below the top surface of the zone of apparent confining effect, which is attributable to higher hydraulic pressures at depth consistent with the CSM.

An evaluation of vertical hydraulic gradients between the 160-ft zone and underlying zone is available at only four monitoring well nests where transducers were installed below the 160-ft zone. The locations of these four deep well pairs (46C, 89C, 93C, and 95C) are presented on Figure 3.106. The intersection of the 160-ft zone grouping plane elevation with the top surface of the zone of apparent confining effect is indicated on Figure 3.106, as is the position of the ADP in the 160-ft zone. All four locations are beyond the ADP in the 160-ft zone. For the 46C and 89C locations, both the 160-ft zone and deeper transducers are located below the top surface of the zone of apparent confining effect. For the 93C and 95C locations, the 160-ft zone transducers are located above the top surface of the zone of apparent confining effect, while the deeper transducers are below it. Three of the four locations (46C, 93C, and 95C) show downward vertical hydraulic gradients from the 160-ft zone to deeper zones, which is contrary to the upward vertical hydraulic gradients from the 160-ft zone to the 130-ft zone observed at these locations (see Figure 3.105). The hydraulic pressures for the deeper locations come from Geokon transducers that were buried in place and the pressures could not be verified with manual water level measurements. At the location of 89C, an upward vertical hydraulic gradient between the 160-ft zone grouping plane and the deeper transducer was observed, which is consistent with the upward vertical hydraulic gradient from the 160-ft zone to the 130-ft zone at this location. However, the measured ENV in the deeper transducer at 89C is on the order of 14 ft NGVD, which is well above the ENV measured in the other three deeper transducers. The transducer at 89C-185 is installed within a thick clay soil with moderate to high plasticity that could isolate the 89C-185 transducer from the aquifer. Thus, the hydraulic pressure measured at 89C-185 may not be representative of the active groundwater flow throughout the bulk of the deep groundwater flow zone.

3.6.4.2 709/721 Alexander Avenue Hydraulic Monitoring

The 709/721 Alexander Avenue Investigation was conducted to collect data necessary to evaluate groundwater flow and contaminant migration conditions at these two properties in the 15-ft, 25-ft, and 50-ft zones. A 72-hour hydraulic monitoring event was conducted from June 23, 2004 at 00:00 PDT to June 26, 2004 at 00:00 PDT. During the event, hydraulic monitoring was conducted via pressure transducers connected to data loggers that were programmed to record pressures at 5-minute intervals.

The hydraulic data reduction methodology used for the 709/721 Alexander Avenue Investigation is similar to the methodology used for Events 1 and 2. A full description of the hydraulic investigation including evaluation of the hydraulic data is presented in Appendix M. In general, the hydraulic investigation results show groundwater flow is directed towards the Waterway in the 15-ft, 25-ft, and 50-ft zones on the 709/721 Alexander Avenue properties. These observations are consistent with the findings of the Events 3A and 3B hydraulic monitoring conducted as part of the CSI.

3.6.4.3 Hydraulic Conductivity Testing

Hydraulic conductivity is a measure of the soil (or sediment's) ability to transmit groundwater. Horizontal hydraulic conductivity testing was conducted in the field using single-well response tests, and vertical hydraulic conductivity testing was conducted through a combination of laboratory and field tests. The horizontal and vertical hydraulic conductivity testing and results are summarized below.

Horizontal Hydraulic Conductivity Testing

Scope of Testing

Single-well response (slug) testing was performed on the monitoring wells and subtidal piezometers included in either the groundwater sampling events, the Site-wide hydraulic monitoring events or after installation of new monitoring wells, to determine horizontal hydraulic conductivity. Existing monitoring wells used for the CSI groundwater sampling event were redeveloped if greater than one-half of the screened interval was blocked by sediment or excessive drawdown occurred during purging prior to low-flow sampling. The redeveloped wells were slug tested to determine their new baseline hydraulic conductivity. The new wells that were installed as part of the CSI field program were also slug tested. All CSI slug testing was performed after completing the CSI groundwater sampling program and Event 3 hydraulic monitoring program. A technical memorandum describing the slug testing and providing the results for the slug testing at individual wells is presented in Appendix N. Figure 3.107 presents the locations where the slug testing was performed.

Results

Table 3.9 presents the horizontal hydraulic conductivity values for the monitoring wells and subtidal piezometers at the time of installation and most recent testing. The horizontal hydraulic conductivity values at the Site range as follows:

<i>Soil Classification (Code for Simplified Stratigraphic Model)</i>	<i>Number of Locations Tested</i>	<i>Horizontal Hydraulic Conductivity, K_H</i>	
		<i>Range (cm/sec)</i>	<i>Geometric Mean (cm/sec)</i>
ML-CL (0)	1	1.6×10^{-4}	
ML (1)	16	6.7×10^{-7} to 3.5×10^{-3}	7.1×10^{-5}
SM (2)	123	5.5×10^{-8} to 4.4×10^{-2}	1.1×10^{-3}
SP or SW (3)	143	3.5×10^{-5} to 1.1×10^{-1}	4.8×10^{-3}
GP or GW (3)	0 ⁽¹⁾	-	-
Note:			
(1) Based on the four integer code for simplified stratigraphic model, there are no tested locations completed in gravel.			

The range in horizontal hydraulic conductivity values for the three primary geologic units observed beneath the Site are as follows:

- Fill - approximately 1.0×10^{-4} to 1.0×10^{-2} centimeters per second (cm/sec) (0.3 to 30 feet per day [ft/d])
- Deltaic deposits - approximately 1.0×10^{-5} to 1.0×10^{-2} cm/s (0.03 to 30 ft/d)
- Glacial deposits - approximately 5.0×10^{-5} to 5.0×10^{-3} cm/s (0.15 to 15 ft/d)

Vertical Hydraulic Conductivity Testing

Scope of Testing

Vertical hydraulic conductivity values were estimated through field and laboratory testing. The vertical hydraulic conductivity values from the laboratory testing are considered to be more representative of the actual vertical hydraulic conductivity at the Site since the tests are performed in a more controlled setting than the field testing for vertical hydraulic conductivity. The laboratory hydraulic conductivity values are for small diameter and short length soil samples. The field testing for vertical hydraulic conductivity was conducted down-hole where it could not be certain that the flow induced to conduct the tests actually flowed downward vertically and did not short-circuit in a horizontal direction. The field testing for vertical hydraulic conductivity was further complicated by the presence of heaving sands at many locations. Figure 3.108 presents the locations of vertical hydraulic conductivity testing.

During the installation of the borings, undisturbed sediment/soil samples were collected from selected depth intervals using retrievable cylinder sampling tubes to collect undisturbed samples. The samples were submitted to a soils testing laboratory for determination of vertical hydraulic conductivity, grain size distribution, and moisture content. When undisturbed samples could not be obtained, the samples were not tested for vertical hydraulic conductivity in the laboratory.

Field testing for vertical hydraulic conductivity was also conducted where field conditions allowed. Vertical hydraulic conductivity testing was performed immediately underlying the intervals sampled for laboratory testing. Field vertical conductivity testing was accomplished by inserting an open-ended non-screened pipe into the soil to be tested. Slug testing was performed in the open-ended pipe. The resultant recovery data was used to calculate the vertical hydraulic conductivity at that particular location and elevation. Heaving sands flowed into the open-ended pipes at numerous locations, however, causing the field test to be aborted, thereby preventing the calculation of vertical hydraulic conductivity at these locations.

During the CSI, soil samples were collected from an additional eight glacially-derived material locations, including three in low permeability, three in medium permeability, and two in high permeability glacially-derived materials. Additional soil samples were collected from 28 deltaic sediment locations, including 10 in low permeability clayey silt to silty clay materials. All sediments classified as clayey silt to silty clay exhibit some degree of fines plasticity (where Atterberg limits were analyzed); while the fines in some of the coarser grained material are non-plastic. This indicates that the vertical hydraulic conductivity of the materials with high fines content will be low, in the range of 1.0×10^{-8} cm/sec, based on comparisons with physical properties sample results where both Atterberg limits and vertical hydraulic conductivity testing was performed.

Results

Table 3.10 presents the vertical hydraulic conductivity values determined from the laboratory and field testing. Vertical hydraulic conductivity values at the Site range as follows:

Soil Classification (Code for Simplified Stratigraphic Model)	Laboratory Vertical Hydraulic Conductivity, K_v		Field Vertical Hydraulic Conductivity, K_v	
	Range (cm/sec)	Geometric Mean (cm/sec)	Range (cm/sec)	Geometric Mean (cm/sec)
CL or CL-ML, GM (0)	2.7×10^{-8} to 2.0×10^{-7}	6.7×10^{-8}	$4.2 \times 10^{-4(1)}$	-
ML (1)	9.0×10^{-8} to 3.0×10^{-4}	8.7×10^{-6}	3.2×10^{-4} to 5.0×10^{-3}	1.3×10^{-3}
SM (2)	4.0×10^{-7} to 1.0×10^{-2}	3.5×10^{-5}	1.1×10^{-4} to 1.1×10^{-1}	2.59×10^{-3}
SP or SW (3)	1.7×10^{-6} to 2.0×10^{-3}	1.8×10^{-4}	3.3×10^{-4} to 7.3×10^{-1}	6.5×10^{-3}

Note:

(1) There is only one field hydraulic conductivity value for the silty gravel (GM) soil type.

3.6.4.4 Groundwater/Surface Water Interaction

Investigations of groundwater/surface water interaction included a Waterway geophysical survey conducted to identify groundwater discharge zones to the Waterway and the Seepage Meter Monitoring Program (SMMP) to evaluate the magnitude of groundwater discharge to the Waterway. The geophysical survey and SMMP are summarized below.

Geophysical Survey

Geophysical Survey Scope

In 2006, a comprehensive geophysical survey of the Waterway was conducted adjacent to the Site. The geophysical survey was performed by Global Remote Sensing (GRS) in conjunction with Northwest Geophysical Associations, Inc. (NGA). The scope of work and objectives for the geophysical survey were developed by USEPA and Ecology and provided to OCC on March 27, 2006. Following minor revisions, the scope of work was finalized and approved by USEPA and Ecology on April 11, 2006. Field activities associated with the geophysical survey were conducted between April 10 and May 5, 2006.

The objectives of the geophysical survey were presented in the April 2006 scope of work and included the following:

1. Identify geophysical conditions which suggest areas of high groundwater discharge into the Waterway.
2. Identify smaller, more localized, high discharge areas (hydraulic piping, fumaroles, etc.) where high pH groundwater might preferentially flow into the Waterway.
3. Track the course of high electrical conductivity brines from the salt pad downward and outward to the Waterway as a tracer of groundwater flow paths from the Site to the Waterway. Similarly, to attempt the same with the chloride signature resulting from the reductive dechlorination of chlorinated ethenes.
4. Delineate lateral and stratigraphic changes in sediment conductivity.

The scope of the geophysical survey included four tasks:

- Task 1 - Sidescan Sonar and Bathymetric Surveys
- Task 2 - High-Resolution Conductivity Survey
- Task 3 - Subbottom Profile Survey

- Task 4 - Marine Electrical Resistivity Imaging Survey

Geophysical Survey Results

The geophysical survey did not identify any locations within the survey area that were obvious points of high groundwater discharge to the Waterway.

Detailed descriptions of each task, along with the data and results of the geophysical survey, are presented in the "Geophysical Survey Report – Hylebos Waterway, Tacoma, Washington" (GRS, 2006).

Seepage Meter Monitoring Program (SMMP)

SMMP Scope

In 2006, as part of the Subtidal/Hydraulic Investigations (2005-2006), the SMMP was conducted in the subtidal portion of the Waterway. The SMMP was performed by Coastal Monitoring Associates (CMA). The primary objective of the SMMP was to determine the nature and extent of groundwater discharge into the Waterway during various phases of the tidal cycle.

The SMMP included the placement of seepage meters at selected subtidal locations to measure groundwater discharge and contaminant flux to the Waterway. Seepage meters were deployed at 26 subtidal locations selected by USEPA and Ecology, and used to monitor specific discharge rates over a 24-hour period. Discharge water samples were collected from the seepage meters at 19 of these locations for chemical analysis. The results of the chemical analysis are discussed in Section 4.9. The locations of the seepage meters installed during the investigation are shown on Figure 3.109. The SMMP was conducted in two phases corresponding to periods of seasonally low tides. The first phase was conducted from June 8 to June 16, 2006 and the second phase from June 21 to June 29, 2006.

SMMP Results

Complete descriptions and results for the SMMP are presented in the "Seepage Meter Monitoring Report" (CMA, 2006).

Table 3.11 presents a statistical summary of the specific discharge measured by each seepage meter during its 24-hour deployment. The statistical summary includes the arithmetic means, minimum, maximum, and standard deviation of the measured specific discharge. The actual specific discharges measured periodically during each deployment period are presented in the tables and graphs included in CMA's report.

Figure 3.109 presents the mean specific discharge observed at each seepage meter location. The range in the observed specific discharge at each location is also presented on Figure 3.109.

The following summarizes the hydraulic data obtained from the SMMP:

- Mean specific discharge rates within the Waterway ranged from a minimum of -1.8 centimeters per day (cm/day) (SM-10) to a maximum of 17.9 cm/day (SM-26)
- The average of the mean specific discharge was 2.3 ± 4.1 cm/day (\pm one standard deviation) over the study area
- The highest discharge rates were observed along the eastern embankment of the Waterway within the Puyallup Tribe marinas extending to approximately the shipping channel
- Higher discharge rates were also observed along the western embankment of the Waterway extending to the shipping channel in limited areas of Dock 1 and Dock 2
- Mean specific discharge rates within the shipping channel were generally less than 1 cm/day, with several areas exhibiting mean recharge as high as -1.8 cm/day

Some general trends become apparent from comparing the seepage meter discharge to the Waterway tide, although the trends are not consistent over all of the seepage meter locations. However, the observations provide further insight into groundwater/surface water interaction at the Site, as follows:

- Under the highest tide conditions, the seepage meters measured surface water recharge or a decreased groundwater discharge
- Under the lowest tide conditions, the seepage meters measured increased groundwater discharge
- The measured discharge rates were greater for seepage meters deployed near the sides of the Waterway, or in the mudflats behind the finger pier on the east side of the Waterway

The general trend of recharge under high tide conditions and discharge under low tide conditions is consistent with there being a higher Waterway pressure under high tide pushing surface water into the formation, and there being a lower Waterway pressure under low tide allowing groundwater discharge to occur. The general trend of greater discharge near the sides of the Waterway is consistent with groundwater from the shallower zones (that are intercepted, or cut away, by the Waterway) discharging to the Waterway.

3.7 Summary of Site Geology/Hydrogeology

Site Geologic Conditions

Figure 3.53 shows the CSM of geologic conditions for the Puyallup River Valley and Bluffs in the Site vicinity. Within the Puyallup River Valley, the generalized geologic conditions are based on Site borings and described as follows (from ground surface):

- Fill - variable mixture of sand, silt, and gravel material placed through dredging of the Hylebos and Blair Waterways to develop the Site peninsula. The fill was placed on top of the former native tidal mud flats that existed at the mouth of the Puyallup River Valley under pre-development conditions (see Figures 3.3 and 3.4). The mud flats consist of silts and clayey silts deposited during the last phase of delta formation at the mouth of the Puyallup River Valley.
- Deltaic deposits - heterogeneous mixture of interbedded sands, silts, and clays.
- Glacial deposits - heterogeneous mixture of interbedded gravel, sands, silts, and clays. The top surface of the glacially-derived deposits slopes downward to the north, west, and south from a mound observed under the central portion of the Site, as shown on Figure 3.52.

The Site stratigraphic data indicate that there is an increased frequency of lower permeability lenses, comprised mainly of silt and clay, in the lower deltaic deposits. This is shown schematically on Figure 3.53. Within the Bluffs, Figure 3.53 shows an alternating sequence of sand/gravel and silt/clay layers based on the regional geologic conditions under the Bluffs described in Sections 3.4.1 and 3.6.2.6.

Site Hydrogeologic Conditions

Figure 3.71 shows the conceptual model of hydrogeologic conditions for the Puyallup River Valley and Bluffs in the Site vicinity. Groundwater beneath the Site discharges to the surrounding surface water bodies. Fresh groundwater inflow toward the Site peninsula occurs from the south due to upland regional groundwater flow along the Puyallup River Valley, and from the east due to regional groundwater flow in the Bluffs aquifers discharging to the Valley. Infiltration of precipitation over the Site peninsula contributes a further source of fresh groundwater, and establishes a shallow radial groundwater flow pattern towards the surface water bodies.

The groundwater table at the Site peninsula is located in the fill that was placed on top of the former native tidal mud flats. The mud flats are assumed to have hydraulic conductivity similar to silts and clays identified within the deltaic deposits, but have been shown to create a hydraulic separation between the fill and the underlying deltaic deposits in the southern

portion of the Site. The mud flats are colored dark brown on Figure 3.71 where the hydraulic separation between the fill and deltaic deposits is observed in the southern portion of the Site, and a lighter brown where this hydraulic separation is not confirmed.

The groundwater quality, density, and hydraulic evidence supports the concept that the increased frequency of lower permeability lenses in the lower deltaic deposits limits vertical flow creating a zone of apparent confining effect in the lower deltaic deposits. The presence of this zone of apparent confining effect is inferred from upward vertical hydraulic gradients from the upper glacial deposits to the lower deltaic deposits, fresh to relatively fresh groundwater within the glacial deposits, and downward COC migration that appears to be limited within the lower deltaic deposits or top of the glacial deposits. The glacial deposits appear to be an aquifer system composed of several glacially-derived aquifers and aquitards that are separated from the deltaic deposits by the zone of apparent confining effect. The fresh groundwater in the glacial deposits is derived from upgradient regional inflow. The regional inflow, combined with the zone of apparent confining effect, likely causes higher hydraulic pressures within the glacial deposits that result in the upward vertical hydraulic gradients from the upper glacial deposits to the lower deltaic deposits.

Salt water occurs in the Hylebos and Blair Waterways and Commencement Bay surrounding the Site peninsula. The density difference between salt water and fresh groundwater results in the development of fresh groundwater and salt water distributions within the Site groundwater flow system. The observed fresh groundwater and salt water distributions are translated to the CSM of hydrogeologic conditions in the Site vicinity on Figure 3.71. The fresh groundwater and salt water distributions, as well as groundwater flow conditions, illustrated on Figure 3.71 are generalized representations of pre-contamination conditions. The groundwater flow conditions illustrated on Figure 3.71 are summarized as follows:

- Recharge from precipitation infiltration contributes shallow fresh groundwater in the fill. This recharge migrates downward into the underlying deltaic deposits and laterally to the waterways
- Fresh groundwater is also introduced to both the deltaic and glacial deposits from the uplands along the Puyallup River Valley to the south and from the east from beneath the Bluffs aquifers that lie below sea level
- Elevated hydraulic pressures in the Bluffs limit the inland extent of the salt water along the east side of the Waterway, as shown on Figure 3.71
- Available salinity data from borings completed beneath the Waterway show a zone of fresher groundwater from the eastern bluffs extending adjacent to and beneath the Waterway

- Available bromide data used as a tracer for identifying naturally occurring salt water suggest a relatively complex pattern of salt water at intermediate depths underlain by fresher groundwater at depth at some locations, with predominantly fresh groundwater occurring in the upper glacial deposits

The presence of both salt water and fresh groundwater beneath the Site, as well as elevated groundwater densities associated with the ADP, creates density-dependent groundwater flow conditions that need to be accounted for when interpreting groundwater flow directions and hydraulic gradients. Density-dependent groundwater flow conditions are accounted for using FEHs to interpret horizontal groundwater flow directions, and using ENVs to interpret vertical groundwater flow directions. Maps of FEHs within a common hydrogeologic unit can be used to interpret horizontal groundwater flow directions in horizontal planes. ENVs, calculated from FEHs and the average groundwater density between screens in a monitoring well nest, are used to interpret vertical groundwater flow directions at a well nest location. The discussions of hydraulic gradients and groundwater flow directions at the Site are based on FEHs and ENVs rather than "groundwater levels".

The results of the hydraulic monitoring events conducted at the Site corroborate the generalized groundwater flow directions presented on Figure 3.71. FEHs determined from the monitoring show a shallow radial groundwater flow pattern sustained by precipitation recharge over the Site peninsula with groundwater flowing toward the Hylebos and Blair Waterways and Commencement Bay. Also evident in the FEHs are regional groundwater inflow from the south along the Puyallup River Valley, and regional groundwater inflow from the east from beneath the Bluffs. The influence of pumping from the Site groundwater extraction system is evident in the FEHs in close proximity to extraction well branches. ENVs demonstrate mainly downward vertical hydraulic gradients within the deltaic deposits, particularly within the ADP. ENVs further demonstrate upward vertical hydraulic gradients from the upper glacial deposits to the lower deltaic deposits.

The ADP, comprised of high density liquid releases from historical Site operations/processes (lime sludge/solvent residue, caustic soda, and salt brine) has a significant influence on groundwater flow and contaminant transport. The ADP has created laterally outward groundwater flow directions as it has migrated downward from its surficial release point due to gravity-driven downward groundwater flow of the high density liquids. The influence of the ADP on COC migration at the Site is described in Section 5.0.

Section 4.0 Nature and Extent of Contamination

4.1 Introduction

The chemical characterization of groundwater, soil, and sediment at the Site is based upon the analytical data obtained during the various investigations presented in Section 2.0. To fully characterize the contamination within each matrix, the analytical data for each COC have been considered separately and as classes of parameters (e.g., VOCs, SVOCs, PCBs, etc.).

The complete analytical database for the Site is in e:Dat™ format on a USB drive included in Appendix G. Instructions regarding the use of the e:Dat™ software are also included in Appendix G.

The MVS/EVS software package was utilized to develop 3-D visualizations of the chemical concentrations present in groundwater, soil, and sediment at the Site for the following parameters and classes of parameters:

<i>Parameter/Parameter Class</i>	<i>Groundwater</i>	<i>Soil</i>
PCE	X	X
TCE	X	X
cis-1,2-DCE	X	X
VC	X	X
Total chlorinated VOCs	X	X
Total VOCs	X	X
Total BTEX	X	X
Total PAH	X	X
Total TPH	X	X
Total PCBs	X	X
Total TEQ	X	X
Arsenic	X	X
Copper	X	X
Lead	X	X
Zinc	X	X
pH	X	
Density	X	
Temperature	X	
DNAPL Distribution	X	X

In general, 3-D visualizations were developed for those parameters that exhibited a significant number of exceedances of their respective groundwater cleanup level, sediment cleanup level or soil screening criterion. 3-D visualizations were not prepared for parameters with few or no exceedances of their respective cleanup levels or screening criteria.

For VOCs (PCE, TCE, cis-1,2-DCE, VC, total VOC, and total CVOC), pH, temperature, and density in groundwater and soil, the analytical data were sufficiently distributed throughout the Site to develop meaningful 3-D interpretive models, or 3-D interpolations, for each parameter or parameter class. These 3-D visualization interpretive models consist of:

- A model showing the locations where samples were analyzed for the parameter, color coded to represent the concentration of the parameter at each sample location relative to other measured concentrations
- Interpretive model of the parameter plume, color coded to represent ranges of concentrations based upon the parameter's groundwater screening criteria
- Plan views cut horizontally through the interpretive model at 25 ft, 50 ft, 75 ft, 100 ft, 130 ft, and 160 ft below upland ground surface (i.e., the 25-ft, 50-ft, 75-ft, 100-ft, 130-ft, and 160-ft zones) with concentration contours and colors to represent ranges of concentrations
- East-west sections cut vertically through the interpretive model at 100-ft intervals (Waterway stations 20+00 through 49+00) with concentration contours and colors to represent ranges of concentrations
- North-south sections cut vertically through the interpretive model at 100-ft intervals (from 1,900-ft west to 700-ft east of the Waterway centerline) with concentration contours and colors to represent ranges of concentrations

At the Agencies' request, 3-D visualization interpretive models were also developed for DNAPL, total BTEX, PAHs, PCBs, dioxin/furans (total TEQ), TPH, and metals (arsenic, copper, lead, and zinc) in groundwater and soil. Sampling for these parameters was targeted to likely potential source areas rather than globally across the Site. As a result, the utility of these models is limited to areas of concentrated investigation.

The MVS/EVS 3-D interpretive and cross-section models are included on the USB drive attached as Appendix O. Appendix O includes a description of the MVS/EVS software package, the parameter values utilized in model development, software to view the visualizations, and instructions regarding the use of the visualization viewing software.

4.1.1 Objectives

The objectives of the Site Characterization activities were to:

- i) Determine the three-dimensional extent of VOC and pH contamination in groundwater onshore and beneath the Waterway.
- ii) Determine the depth of hydraulic capture required to prevent contaminated groundwater from discharging into the Waterway.
- iii) Determine the three-dimensional extent of source material onshore and beneath the Waterway.
- iv) Quantify the hydrogeological parameters that will allow the flux of potential contaminants into the Waterway to be determined, and provide data needed to refine the conceptual hydrogeological model for the Site.

These objectives have been achieved through the investigations conducted at the Site as presented in Section 2.1.

4.1.2 Data Used for Delineation

A significant volume of data has been generated over the course of the investigations conducted at the Site. In order to complete a representative analysis of conditions at the Site, the following available analytical data were utilized:

Soil

Soil data generated from the 709 and 721 Alexander Avenue properties will be discussed in relation to the former OCC facility Site COCs (e.g., chlorinated solvents). Data associated with petroleum-related compounds (e.g., benzene, toluene, ethylbenzene, and xylenes (BTEX); polyaromatic hydrocarbons (PAHs), and total petroleum hydrocarbons (TPH)) will be discussed in a separate report in accordance with Agreed Order No. DE 9835 between Ecology, Mariana, and the POT, effective October 3, 2013.

Subtidal soil data from samples that were subsequently excavated as part of the Waterway dredging activities have been excluded from the report. All other upland and subtidal soil data have been utilized in the Site characterization.

Groundwater

Groundwater data generated between January 2004 and October 2013 were used to provide a comprehensive understanding of COC distribution across the Site. For sampling locations with multiple data sets, the most current result was used in the characterization and 3-D modeling.

Groundwater data generated from the 709 and 721 Alexander Avenue properties will be discussed in relation to the former OCC facility Site COCs (e.g., chlorinated solvents). Data associated with petroleum-related compounds (e.g., BTEX, PAHs, and TPH) will be discussed in a separate report in accordance with Agreed Order No. DE 9835 between Ecology, Mariana, and the POT, effective October 3, 2013.

Sediment

Sediment data from samples that were subsequently excavated as part of the Waterway dredging activities have been excluded from the report. All other sediment data have been utilized in the Site characterization.

Porewater/Seeps

All porewater and seep data have been utilized in the Site characterization.

Soil Vapor/Indoor Air

All soil vapor, indoor air, and ambient (outside) air data have been utilized in the Site characterization.

4.1.3 Site Constituents of Concern

COCs have been established for the Site based upon historical site processes, investigations, and characterizations. Tables 4.1 through 4.4 present the COCs for each of the major site media/areas including:

- i) Upland Groundwater (Table 4.1)
- ii) Embankment Area/Subtidal Groundwater (Table 4.2)
- iii) Surface Water (Table 4.3)
- iv) Sediment/Porewater (Table 4.4)

4.2 Data Quality Assessment and Validation

Validation of the analytical data generated through 2007 was performed in accordance with the analytical methods and the following documents: "USEPA Contract Laboratory Program

National Functional Guidelines for Organic Data Review," USEPA 540/R-99-008, October 1999; and "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," USEPA 540/R-94-013, February 1994.

Validation of the analytical data generated in 2012 and 2013 was performed in accordance with the analytical methods and guidance from the following documents: "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," EPA 540-R-08-01, June 2008 and "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review," EPA 540-R-10-011, January 2010.

Data generated through 2007 were presented by the laboratory in a Contract Laboratory Program (CLP)-like data package. Each data package included calibration summaries, method blank summaries, tuning summaries (where applicable), and QC summaries such as surrogates, internal standards, blank spikes, and matrix spikes. The data packages also included all raw data associated with each sample.

Data generated in 2012 and 2013 were presented by the laboratory in a standard Level II data package. Each data package included method blank summaries, and QC summaries such as surrogates, internal standards, blank spikes, and matrix spikes.

Data were qualified based on method outliers or deviations. Qualifications include estimating the data or rejecting the data. The assessment of analytical data also included checks on data consistency by looking for comparability of duplicate analyses, comparability to previous data from the same sampling location (if available), adherence to accuracy and precision control criteria and anomalously high or low parameter values. The results of the data validations were summarized and reported to the Project Manager. These validation reports included discussions of the following information and their effects on the quality of the data reported:

1. Sample holding times
2. Laboratory/reagent blank data
3. Surrogate spike, matrix spike and matrix spike duplicate (MS/MSD) data
4. Field QA/QC data
5. Pertinent instrument performance per method protocols

In addition, the validation reports summarized all QA problems, and gave a general assessment of QA results versus control criteria for such parameters as accuracy, precision, etc.

A list of CRA validation reports associated with the data presented since 1996 is presented in Appendix P. Copies of these data validation reports have been previously submitted to USEPA and/or Ecology. Validation reports for data collected by entities other than CRA (Hart Crowser, Ecology, HCC, etc.) are not included in the list in Appendix P.

4.3 Site Cleanup/Screening Levels

Performance standards, defined as the cleanup standards, standards of control, and other substantive requirements, criteria, or limitations, were defined in the SOW. These standards are consistent with the remedial objectives for the Site as stated in the SOW. Through the course of the Site characterization activities, screening criteria for additional contaminants and/or media have been defined as required for compounds/media that were not defined in the 2005 SOW. The following sections present the performance standards for the various media.

4.3.1 Groundwater Cleanup Standards

Groundwater cleanup standards for the Site, consisting of groundwater cleanup levels and the location (point of compliance) where the cleanup levels must be met, have been established following the procedures described in the MTCA regulations.

Groundwater Cleanup Levels

The use of Site groundwater is restricted to "non-potable" uses through restrictive covenants currently in effect for the Site. Since groundwater at the Site is considered as non-potable (while the covenants are in place) and discharges to the Hylebos or Blair Waterways, the groundwater cleanup standards for the Site are based on the surface water cleanup standards for the Site, described below in Section 4.3.3. The Site-specific groundwater cleanup levels as defined in the SOW are presented in Table 4.5. Note that for arsenic, the groundwater cleanup level of 5 micrograms per liter ($\mu\text{g}/\text{L}$) is based on the presumed natural background level for this constituent in groundwater for the State of Washington in accordance with the MTCA regulations in WAC 173-340-730, the numerical value of which is shown in Table 720-1 of these regulations.

Groundwater Point of Compliance

Based upon Site conditions, the nature and extent of the impacted groundwater and current technological limitations, it is anticipated that it will not be practicable to meet the groundwater cleanup levels throughout the Site in a reasonable timeframe. As such, a conditional point of compliance for groundwater cleanup levels will be established based on a demonstration (based on the results of the alternatives analyses (i.e., the feasibility study)

performed under the SOW) that the selected methods of groundwater remediation will be implemented to the maximum extent practicable. As required under MTCA, the conditional groundwater point of compliance, to be approved by Ecology and USEPA, will be located as close to the potential source or sources of groundwater contamination as possible.

4.3.2 Sediment Cleanup Standards

Sediment cleanup standards for the Site, consisting of sediment cleanup levels and the location (point of compliance) where the cleanup levels must be met, have been established by the CB/NT ROD following procedures consistent with the MTCA regulations.

Sediment Cleanup Levels

MTCA addresses sediment cleanup levels by reference to the Washington State Sediment Management Standards (SMS) (WAC 173-204). Under the SMS, the primary endpoint for sediment quality evaluations is protection of the environment, specifically the benthic community, from adverse effects associated with the Site COCs. SQOs for the Site were developed by USEPA for the entire CB/NT Site and incorporated into the ROD. In the event that sediments are found with high levels of constituents that were not considered when the ROD was developed in 1989, Ecology and USEPA will determine Site-specific concentration limits for these constituents consistent with the methodologies provided by the NCP and WAC 173-204.

Ecology has previously concluded that the implementation of bioassays and interpretive endpoints used in the USEPA risk assessment to develop SQOs was based on a framework similar to that developed in the SMS. Accordingly, Ecology previously concluded that the SQOs provide protective levels for acute and chronic toxicity of biota in sediments at the Site using a risk-based approach similar to the risk-based approach provided by SMS.

Consequently, Site-specific sediment cleanup levels are based on SQOs, where SQOs exist. If an SQO does not exist for a particular COC, the sediment cleanup level is based on the Sediment Quality Standard (SQS) promulgated under SMS for that constituent, if one exists. Site-specific sediment cleanup levels as defined in the SOW are presented in Table 4.5.

Sediment Point of Compliance

The point of compliance for achieving the sediment cleanup levels will generally be 0 to 10 cm below the sediment surface. Ecology and USEPA have generally applied the 0 to 10 cm biologically active zone interval within the Waterway based on available information on the distribution of abundance and biomass of biota in Commencement Bay sediments.

Radioisotope dating evaluations performed by USEPA and Ecology, as part of the remedial investigation feasibility study for the overall CB/NT Site, revealed that the biologically active

zone within the Waterway does not generally extend deeper than 10 cm below the sediment surface. Where habitat is favorable to burrowing organisms, such as burrowing shrimp, the point of compliance should be modified to ensure protectiveness of cleanup remedies with respect to these organisms.

4.3.3 Surface Water Cleanup Standards

Surface water cleanup standards for the Site, consisting of surface water cleanup levels and the location (point of compliance) where these cleanup levels must be met, have been established based on the surface water cleanup standards in the MTCA regulations, WAC 173-340-730, and with the state water quality standards in WAC 173-201A.

Surface Water Cleanup Levels

Surface water cleanup levels for the Site have been developed based on water quality criteria protective of aquatic organisms or risk to human health. Site-specific surface water cleanup levels as defined in the SOW are presented in Table 4.5. Note that for arsenic, the cleanup level has been established based on the National Toxic Rule human health criterion in surface water, as adjusted to the current practical quantitation limit of 1 µg/L for chemical analysis for this constituent. Depending on the selected remedy, this value will be further adjusted upward to 5 µg/L if compliance monitoring is located in discharging groundwater rather than in surface water.

Point of Compliance

As discussed in Section 4.3.2, the biologically active zone in sediment is considered to extend from the sediment surface to a depth of 10 cm, or possibly deeper if the habitat is favorable for burrowing benthic organisms. The point of compliance for achieving surface water cleanup levels is the point of release of porewater into the Waterway, generally defined as the base of the biologically active zone. Therefore, surface water cleanup levels are applicable to a depth of 10 cm below the sediment surface, unless the biologically active zone is deeper.

4.3.4 Soil Screening Criteria

The MTCA regulations require that soil concentrations be protective of groundwater. Accordingly, soil screening criteria were established for unsaturated and saturated soil using the Variable Parameter Three-Phase Partitioning Model presented in WAC 173-340-747.

Table 4.6 presents the soil screening criteria for the Site as defined in the SOW including unsaturated soil (C_u) and saturated soil (C_s). The values used to calculate the criteria are also presented in the table.

4.3.5 Porewater Screening Criteria

The chemical concentrations of groundwater/porewater at the sediment point of compliance cannot exceed concentrations that may re-contaminate the sediments following remediation. Therefore, porewater screening criteria were established for the Site.

Table 4.7 presents the porewater screening criteria established for the Site as defined in the SOW. The values used to calculate the porewater screening criteria are presented in the table.

4.3.6 CSI Soil and Groundwater Screening Criteria

As part of the CSI, OCC and the Agencies collaborated to establish a comprehensive list of groundwater and soil screening criteria based on the existing cleanup standards and screening criteria as defined in the SOW and described in the preceding sections. For parameters not identified as part of the SOW, screening criteria were developed in accordance with MTCA and Ecology's web application tool "CLARC – Cleanup Level and Risk Calculations."

Table 4.8 presents the CSI screening criteria for groundwater and soil. The CSI screening levels have been used for comparison of all groundwater and soil samples throughout this SCR. For parameters that were not analyzed as part of the CSI (e.g., pesticides), the screening levels established in the SOW are used for comparison.

4.3.7 Soil Vapor Screening Criteria

The analytical results for all indoor air (IA) samples submitted to the laboratory for analysis were compared to current MTCA Method B screening levels originally presented in Ecology's Draft VI Guidance (Ecology, 2009; Table B-1), the IA short-term screening level for TCE (8.4 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]), and USEPA's November 2012 Regional Screening Levels (RSLs). The analytical results for all sub-slab soil vapor (SS) samples were compared to the same values noted above multiplied by a factor of 10, which is consistent with USEPA and Ecology recommended attenuation factors. The list of target analytes and applicable screening levels along with method reporting limits is presented in Table 4.9.

Outdoor air (OA) samples were collected to establish ambient background and are not compared to screening levels.

4.4 Soil

Soil samples collected from the vadose (unsaturated) zone are compared to the list of unsaturated soil screening criteria (C_u) established in the SOW and expanded for the CSI and are

discussed in Section 4.4.1. Soil samples collected from the capillary and saturated zones are compared to the list of saturated soil screening criteria (C_s) established in the SOW and expanded for the CSI and are discussed in Section 4.4.2.

4.4.1 Unsaturated Soil

Through the course of the following site investigations, 173 unsaturated soil samples were collected from the locations listed below (sample locations are shown on Figure 2.1). Multiple samples could be collected from one location at varying depths, resulting in a greater number of samples than locations. Furthermore, different parameter lists often applied to specific investigations, resulting in variability in the sample counts between parameters.

- 4 locations (BH-#-96) as part of the Embankment Investigation (1996) and analyzed for PCE, TCE, Ethylbenzene, Site SVOCs, pesticides, PCBs, and metals
- 5 locations (CH-#) as part of the Additional Supplemental Investigations (2005) and analyzed for the VOCs and metals
- 3 locations (EA-#) as part of the Subtidal/Hydraulic Investigation (2005-2006) and analyzed for the Embankment Area/Subtidal Groundwater COCs
- 12 locations (NL-##) as part of the Supplemental Investigations (2004) and Additional Supplemental Investigations (2005-2006) and analyzed for the Embankment Area/Subtidal Groundwater COCs
- 1 location (Pier 25-32) as part of the Borings Adjacent to Pier 25 (2006) and analyzed for the Embankment Area/Subtidal Groundwater COCs
- 8 locations (SP-#) from the Salt Pad as part of the Additional Supplemental Investigations (2005-2006) and analyzed for the Embankment Area/Subtidal Groundwater COCs
- 28 locations (WMUA-##) from Waste Management Unit A as part of the Supplemental Investigations (2004) and Additional Supplemental Investigations (2005-2006) and analyzed for the Upland Groundwater COCs
- 2 locations (WMUH-#) from Waste Management Unit H as part of the Supplemental Investigations (2004) and analyzed for the Embankment Area/Subtidal Groundwater COCs
- 9 locations as part of the Focused Investigation of Dioxins/Furans and PCB Congeners (2006-2007) and analyzed for PCDD/F and PCB congeners
- 69 locations (709-, 721-) on the 709 and 721 Alexander Avenue properties as part of the PRI Preliminary Site Investigation (1994), PRI Soil and Groundwater Investigation (1995), PRI Source Area Investigation (1995), 709/721 Alexander Avenue Investigation (2004), and Comprehensive Supplemental Investigation (2012) and analyzed for varying combinations of Site VOCs, BTEX, Site SVOCs, PAHs, PCBs, total petroleum hydrocarbons (TPH), and metals. As discussed in Section 4.1.2, only OCC Site-related COCs are discussed in this report

- 5 locations as part of the 2013 CSI mobilization and analyzed for VOCs

The analytical results are presented in Table 4.10 and are compared to the CSI Screening Criteria listed in Table 4.8. Table 4.11 presents a summary of the nature and extent of contamination in unsaturated soil at the Site by parameter. 3-D visualization models presenting the concentrations of COCs in unsaturated soil are presented on the USB drive attached as Appendix O. Detections of SVOCs (HCB and HCBD) and pesticides were observed in discrete areas. Due to the limited number of samples/observations, 3-D visualization models were not prepared for these compounds/classes.

The nature and extent of contamination in unsaturated soil are discussed in the following sections.

4.4.1.1 Volatile Organic Compounds

Concentrations of VOCs in unsaturated soil exceeded the CSI soil screening criteria at 27 of the 127 locations where unsaturated soil samples were collected for VOC analysis. Site VOC parameters that exceeded the CSI soil screening criteria include:

- PCE – 32 exceedances ranging from 110 µg/kg to 290,000 µg/kg [exceedance factor (EF) range from 1.17 to 3,088]
- TCE – six exceedances ranging from 540 µg/kg to 21,000 µg/kg (EF range from 1.01 to 39)
- VC – one exceedance of 2,630 µg/kg (EF of 176)
- Carbon Tetrachloride – three exceedances ranging from 79 µg/kg to 990 µg/kg (EF of 1.95 to 24)
- Chloroform - one exceedance of 11,000 µg/kg (EF of 4.4)

The greatest exceedance occurred at SB-A at a depth of 9 ft BGS, where PCE exceeded the CSI soil screening criteria by an EF of 3,088.

PCE has the greatest impact to unsaturated soil of the Site VOCs, although TCE and VC also exceed their respective soil screening criteria in a few locations. In general, the exceedances are located in the vicinity of WMU A, WMU G, WMU H, and the N Landfill.

4.4.1.2 Semi-Volatile Organic Compounds

Concentrations of SVOCs in unsaturated soil exceeded the CSI soil screening criteria at 30 of the 74 locations where unsaturated soil samples were collected for SVOC analysis. Site SVOC parameters that exceeded the CSI soil screening criteria include:

- HCB – 19 exceedances ranging from 1.63 µg/kg to 1,300 µg/kg (EF range from 1.3 to 1,048)
- HCBd – 32 exceedances ranging from 21 µg/kg to 28,000 µg/kg (EF range from 1.5 to 1,997)
- Pentachlorophenol (PCPH)– four exceedances ranging from 140 µg/kg to 2,500 µg/kg (EF range from 1.1 to 20)

The greatest exceedance occurred at WMUA-6 at a depth of 6 ft BGS, where HCBd exceeded the CSI soil screening criteria by an EF of 1,997.

Figure 4.1 presents the areal distribution of SVOC concentrations in unsaturated soil at the Site. The extent of these constituents may not be completely defined; however, they are expected to be within the defined CVOC plumes based on lower mobility and similar source areas.

HCB and HCBd have the greatest impact to unsaturated soil of the Site SVOCs, although PCPH also exceeds its respective soil screening criteria. HCB and HCBd exceed the soil screening criteria in the vicinity of WMU A, WMU G, the N Landfill, and several embankment locations. Pentachlorophenol exceeded its soil screening criteria in the vicinity of WMU A and the N Landfill.

4.4.1.3 Pesticides

Concentrations of pesticides in unsaturated soil exceeded the soil screening criteria at 2 of 4 locations where unsaturated soil samples were collected for pesticide analysis. Pesticide parameters that exceeded the soil screening criteria include:

- 4,4'-DDE - two exceedances of 3.0 µg/kg and 7.3 µg/kg (EF of 2.6 and 6.3)

Figure 4.2 presents the areal distribution of pesticide concentrations in unsaturated soil at the Site. The extent of these constituents may not be completely defined; however, they are expected to be within the defined CVOC plumes based on lower mobility and similar source areas.

Analysis of unsaturated soil samples was limited to four locations along the embankment. Only 4,4'-DDE exceeded its soil screening criteria at two locations north of Dock 1.

4.4.1.4 Polychlorinated Biphenyls

In accordance with MTCA, the PCB mixtures have been considered as a single hazardous substance. For the most part, the total PCB concentrations obtained from the site investigations were calculated by the laboratory based upon analysis of PCB aroclors. Several samples, however, were analyzed for select PCB congeners. In these cases, total PCB concentrations for the samples have been calculated from the laboratory measured concentrations of PCB congeners using the methodology outlined by Frame et al., (1998); Spongberg, (2004); and Woolcott, (2001). The calculation methodology is presented in Appendix Q, Table Q.3.

Concentrations of PCBs in unsaturated soil exceeded the CSI soil screening criteria at 10 of the 57 locations where unsaturated soil samples were collected for PCB analysis, with exceedances ranging from 140 µg/kg to 4,000 µg/kg (EF range from 1.5 to 43). The greatest exceedance occurred at location EA-3 at a depth of 11 ft BGS. The greatest area of impact to unsaturated soil is along the embankment near the former Navy-Todd Dump.

Table 4.12 presents a summary of total PCB concentrations for each unsaturated soil sample analyzed for either PCB aroclors or PCB congeners.

4.4.1.5 Dioxins/Furans

In accordance with MTCA, the mixtures of dioxins/furans have been considered a single hazardous substance. As such, the laboratory measured concentrations of dioxin and furan congeners have been multiplied by their respective toxicity equivalency factors (TEFs) to obtain a toxicity equivalency concentration (TEQ) of 2,3,7,8-TCDD for each sample. Table 4.13 presents a summary of the dioxin/furan TEQs calculated for each unsaturated soil sample analyzed for dioxins and furans. The TEQ calculations are presented in Appendix Q, Table Q.5.

4.4.1.6 Metals

Concentrations of metals in unsaturated soil exceeded the CSI soil screening criteria at 74 of 83 locations where unsaturated soil samples were collected for metals analysis. Metals parameters that exceeded the CSI soil screening criteria include:

- Arsenic– 33 exceedances ranging from 3,000 µg/kg to 228,000 µg/kg (EF range from 1.03 to 78)
- Chromium – 32 exceedances ranging from 14,700 µg/kg to 196,000 µg/kg (EF range from 1.04 to 14)

- Copper - exceedances at all locations where copper was analyzed ranging from 7,100 µg/kg to 7,070,000 µg/kg (EF range from 6.7 to 6632)
- Lead - seven exceedances ranging from 5,000,000 µg/kg to 33,200,000 µg/kg (EF range from 3.1 to 20)
- Mercury - 15 exceedances ranging from 47 µg/kg to 1,200 µg/kg (EF range from 1.8 to 46)
- Nickel - 38 exceedances ranging from 10,700 µg/kg to 870,000 µg/kg (EF range from 1.00 to 81)
- Zinc - 16 exceedances ranging from 102,000 µg/kg to 10,200,000 µg/kg (EF range from 1.01 to 101)

Copper is ubiquitous at the Site at concentrations exceeding the CSI soil screening criteria and although presenting the highest EFs, may be indicative of background conditions for the Site and surrounding properties. Excluding copper, the greatest exceedance occurred in a sample collected from the N Landfill at a depth of 5 ft BGS, where zinc exceeded the CSI soil screening criteria by an EF of 101.

Arsenic, zinc, and nickel have the greatest impact to unsaturated soil of the Site metals. Total chromium, lead, and mercury also exceed their CSI soil screening criteria for unsaturated soil, but to a lesser degree. In general, the exceedances are located across the western portion of the facility, including the top of the embankment, the former Salt Pad, the former Caustic House, and the N Landfill.

4.4.1.7 pH

Field pH measurements were collected from soils from the 10 soil borings (PH-##) installed as part of the CSI within and around the suspected pH potential source area. The pH borehole locations are shown on Figure 2.1. The measurements were obtained using litmus paper.

Unsaturated soils were encountered at three locations. The pH measurements ranged from 7 at boring PH-08 to 12 at boring PH-05, as presented in Table 4.14. Fill and debris were present at the other locations; consequently, the first soil samples were obtained within the saturated zone.

4.4.2 Saturated Soil

Through the course of the following site investigations, 2,287 saturated soil samples were collected from the locations listed below. Multiple samples could be collected from one location at varying depths, resulting in a greater number of samples than locations.

Furthermore, different parameter lists often applied to specific investigations, resulting in variability in the sample counts between parameters.

- 3 unknown locations from WMU-C were composited into 1 sample (OXY-1) in 1994 and analyzed for PCE, TCE, Site SVOCs, pesticides, PCBs, and metals
- 8 monitoring well locations (709-MW#-15) and 4 test pit locations (TP-#-93) as part of the PRI Preliminary Site Investigation (1994) and analyzed for VOCs, SVOCs, PCBs, and metals
- 1 monitoring well location (47-15) as part of the PRI Source Identification Investigation (1994) and analyzed for VOCs
- 11 monitoring well locations (709-MW#-15) as part of the PRI Soil and Groundwater Investigation (1995) and analyzed for VOCs. Additionally, 2 test pits (TP-#-95) were also sampled for lead
- 11 borehole locations (BH-#-96) as part of the Embankment Investigation (1996) and analyzed for PCE, TCE, Site SVOCs, pesticides, PCBs, and metals
- 20 subtidal borehole locations (PT-##) as part of the Area 5106 Post-Treatment Characterization (2003) and analyzed for PCE, TCE, HCB, and HCBd
- 5 monitoring well locations (721-MW#-##) and 1 Geoprobe® boring location (721-GP5) as part of the 709/721 Alexander Avenue Investigation (2004) and analyzed for VOCs and SVOCs
- 20 borehole locations at the N Landfill (NL-#), WMU A (WMUA-#), WMU C (WMUC-#), and WMU H (WMUH-#) as part of the Supplemental Investigations (2004) and analyzed for VOCs, SVOCs, PCBs, and/or mercury
- 60 borehole locations at the N Landfill (NL-##), WMU A (WMUA-#), Caustic House (CH-#), and Salt Pad (SP-#) as part of the Additional Supplemental Investigations (2005-2006) and analyzed for VOCs, SVOCs, pesticides, PCBs, and/or metals
- 61 upland, intertidal, and subtidal borehole locations were installed adjacent to Dock 1 (EA-#), around Area 5106 (5106-##), adjacent to Pier 25 (Pier 25-##), and in the subtidal zone of the Waterway (HYD-#, WW-B4) as part of the Subtidal/Hydraulic Investigation (2005-2006), and analyzed for the Embankment Area/Subtidal Groundwater COCs
- 23 locations as part of the Focused Investigation of Dioxins/Furans and PCB Congeners (2006-2007) and analyzed for PCDD/F and PCB congeners
- 6 locations (SB-##, 79-50, 80-25, and 81-50) as part of the pH Pilot Study (2009) and analyzed for metals
- 4 soil boring locations (HC-N6-#) and 7 test pit locations (HC-N##-TP-#-#) installed by the Port of Tacoma on POT property north and west of the Site and analyzed for VOCs, HCBd, and/or lead

- 79 soil boring and monitoring well locations from suspected Site potential source areas (WMUA-##, WMUG-##, WMUL-##, WMUM-##, WMUR-##, PH-02, and 11-75, 17C, 89C), 709 and 721 Alexander Avenue, and subtidal (WW-A1R) as part of the Comprehensive Supplemental Investigation (2012) and analyzed for VOCs, SVOCs, PCBs, dioxins/furans, and/or metals
- 15 locations as part of the 2013 CSI mobilization and analyzed for VOCs and SVOCs

Sample locations are shown on Figure 2.1.

The analytical results are presented in Table 4.15 and are compared to the CSI soil screening criteria listed in Table 4.8. Table 4.16 presents a summary of the nature and extent of contamination in saturated soil at the Site by parameter. 3-D visualization models presenting the concentrations of COCs in saturated soil are presented on the USB drive attached as Appendix O. Detections of SVOCs (HCB and HCBd) and pesticides were observed in discrete areas. Due to the limited number of samples/observations, 3-D visualization models were not prepared for these compounds/classes.

The nature and extent of contamination in saturated soil are discussed in the following sections.

4.4.2.1 Volatile Organic Compounds

Concentrations of VOCs in saturated soil exceeded the CSI soil screening criteria at 230 of the 303 locations where saturated soil samples were collected for VOC analysis. Site VOC parameters that exceeded the CSI soil screening criteria include:

- PCE –896 exceedances at 183 locations at concentrations ranging from 4.9 µg/kg to 120,000,000 µg/kg (EF range from 1.004 to 24,590,164)
- TCE –740 exceedances at 135 locations at concentrations ranging from 31 µg/kg to 58,000,000 µg/kg (EF range from 1.01 to 1,883,117)
- VC – 799 exceedances at 137 locations at concentrations ranging from 0.76J µg/kg to 56,500 µg/kg (EF range from 1.04 to 77,397)
- 1,1-Dichloroethene – 520 exceedances at 114 locations at concentrations ranging from 1.2J µg/kg to 690,000 µg/kg (EF range from 1.06 to 610,620)
- Methylene chloride – 127 exceedances at 46 locations at concentrations ranging from 480 µg/kg to 61,000 µg/kg (EF range from 1.01 to 128)
- Chloroform – 141 exceedances at 51 locations at concentrations ranging from 170J µg/kg to 1,100,000 µg/kg (EF range from 1.06 to 6,875)

- 1,1,2,2-Tetrachloroethane – 54 exceedances at 30 locations at concentrations ranging from 4.6J µg/kg to 670,000 µg/kg (EF range from 1.1 to 166,667)
- 1,1,2-Trichloroethane – 52 exceedances at 25 locations at concentrations ranging from 15.7 µg/kg to 67,000 µg/kg (EF range from 1.03 to 4,408)
- Carbon Tetrachloride – 28 exceedances at 14 locations at concentrations ranging from 3.4J µg/kg to 510,000 µg/kg (EF range from 1.76 to 264,249)
- Trans-1,2-Dichloroethene -13 exceedances at 9 locations at concentrations ranging from 3,300 µg/kg to 250,000 µg/kg (EF range from 1.01 to 77)

The greatest exceedance occurred at WMUR-06/94C at a depth of 137.5 ft BGS, where PCE exceeded the CSI soil screening criteria by an EF of 24,590,164. This location is within an area of confirmed DNAPL.

4.4.2.2 Semi-Volatile Organic Compounds

Concentrations of SVOCs in saturated soil exceeded the soil screening criteria at 89 of the 156 locations where saturated soil samples were collected for SVOC analysis. Site SVOC parameters that exceeded the CSI soil screening criteria include:

- HCB – 140 exceedances at 52 locations at concentrations ranging from 0.0975 µg/kg to 210,000 µg/kg (EF range from 1.6 to 3,387,097)
- PCPH – 19 exceedances at 12 locations at concentrations ranging from 21.6 µg/kg to 1,100 µg/kg (EF range from 3.1 to 159)
- HCBd – 183 exceedances at 81 locations at concentrations ranging from 0.72J µg/kg to 160,000 µg/kg (EF range from 1.03 to 227,920)

The greatest exceedance occurred at PT-15 at a depth of 14.5 ft below mudline (BML), where HCB exceeded the soil screening criteria by an EF of 3,387,097.

Figure 4.3 presents the areal distribution of SVOC concentrations in saturated soil at the Site. For reference, the horizontal extent of contamination in groundwater attributed to the parameter is also shown on the figure. The extent of these constituents may not be completely defined; however, they are expected to be within the defined CVOC plumes based on lower mobility and similar source areas.

HCB has the greatest impact to saturated soil of the Site SVOCs, although HCBd, and to a lesser degree, pentachlorophenol, also exceed their respective soil screening criteria. HCB exceedances occur below the Waterway and in the vicinity of WMU A, WMU G, the N Landfill,

and several embankment locations. Pentachlorophenol exceedances are observed in the vicinity of WMU A and the N Landfill. HCBd exceedances occur primarily below the Waterway and in the vicinity of WMU A, the N Landfill, and several embankment locations.

4.4.2.3 Pesticides

Concentrations of pesticides in saturated soil exceeded the soil screening criteria at 8 of the 22 locations where saturated soil samples were collected for pesticide analysis. Pesticide parameters that exceeded the soil screening criteria include:

- 4,4'-DDD – 6 exceedances at 6 locations at concentrations ranging from 1.2 µg/kg to 210 µg/kg (EF range from 28 to 4,884)
- 4,4'-DDE – 13 exceedances at 6 locations at concentrations ranging from 4.56 µg/kg to 75.3 µg/kg (EF range from 79 to 1,298)
- 4,4'-DDT - one exceedance at a concentration of 11 µg/kg (EF of 24)

The greatest exceedance occurred at BH-11-96 at a depth of 6 ft BGS, where 4,4'-DDD exceeded the soil screening criteria by an EF of 4,884.

Figure 4.4 presents the areal distribution of pesticide concentrations in saturated soil at the Site. For reference, the horizontal extent of contamination in groundwater attributed to the parameter is also shown on the figure. The extent of these constituents may not be completely defined; however, they are expected to be within the defined CVOC plumes based on lower mobility and similar source areas.

4,4'-DDD and 4,4'-DDE have the greatest impact to saturated soil. Pesticides exceed the soil screening criteria along the embankment and in the N Landfill.

4.4.2.4 Polychlorinated Biphenyls

In accordance with MTCA, the PCB mixtures have been considered as a single hazardous substance. For the most part, the total PCB concentrations obtained from the Site investigations were calculated by the laboratory based upon analysis of PCB aroclors. Several samples, however, were analyzed for select PCB congeners. In these cases, total PCB concentrations for the samples have been calculated from the laboratory measured concentrations of PCB congeners using the methodology outlined by Frame et al, (1998); Spongberg, (2004); and Woolcott, (2001). The calculation methodology is presented in Appendix Q, Table Q.3.

Concentrations of PCBs in saturated soil exceeded the CSI soil screening criteria at 48 of 118 locations where saturated soil samples were collected for PCB analysis, with exceedances ranging from 0.155 µg/kg to 166,545 µg/kg (EF range from 2.9 to 3,142,358). The greatest exceedance occurred at location PT-15A, located below Dock 1 and adjacent to the Navy-Todd Dump at a depth of 56.5 ft BML. The greatest area of impact to saturated soil is along the embankment near the former Navy-Todd Dump.

Table 4.12 presents a summary of total PCB concentrations for each saturated soil sample analyzed for either PCB aroclors or PCB congeners.

4.4.2.5 Dioxins/Furans

In accordance with MTCA, the mixtures of dioxins/furans have been considered a single hazardous substance. As such, the laboratory measured concentrations of dioxin and furan congeners have been multiplied by their respective TEFs to obtain a TEQ of 2,3,7,8-TCDD for each sample. Table 4.13 presents a summary of the dioxin/furan TEQs calculated for each unsaturated soil sample analyzed for dioxins and furans. The TEQ calculations are presented in Appendix Q, Table Q.5.

4.4.2.6 Metals

Concentrations of metals in saturated soil exceeded the CSI soil screening criteria at 122 of 139 locations where saturated soil samples were collected for metals analysis. Metals parameters that exceeded the soil screening criteria include:

- Arsenic– 372 exceedances at 107 locations at concentrations ranging from 150 µg/kg to 268,000 µg/kg (EF range from 1.03 to 1,836)
- Chromium – 395 exceedances at 113 locations at concentrations ranging from 1,100 µg/kg to 1,200,000 µg/kg (EF range from 1.5 to 1,681)
- Copper – 395 exceedances at 113 locations at concentrations ranging from 2,980 µg/kg to 2,160,000 µg/kg (EF range from 55.8 to 40,374)
- Lead – 68 exceedances at 35 locations at concentrations ranging from 84,100 µg/kg to 37,500,000 µg/kg (EF range from 1.04 to 463)
- Mercury – 181 exceedances at 72 locations at concentrations ranging from 2 µg/kg to 116,000 µg/kg (EF range from 1.5 to 88,550)
- Nickel – 395 exceedances at 113 locations at concentrations ranging from 857 µg/kg to 962,000 µg/kg (EF range from 1.6 to 1,798)
- Thallium – 129 exceedances at 56 locations at concentrations ranging from 34.7 µg/kg to 226J µg/kg (EF range from 1.02 to 6.6)

- Zinc – 384 exceedances at 111 locations at concentrations ranging from 7,070 µg/kg to 3,400,000 µg/kg (EF range from 1.4 to 674)

The greatest exceedance occurred in the vicinity of the N Landfill, where mercury exceeded the soil screening criteria by an EF of 88,550. Other metals, primarily copper, total chromium, and nickel, as well as arsenic and zinc, are present at concentrations exceeding the soil screening criteria in almost all samples analyzed for metals. The highest concentrations occur along the embankment and in the vicinity of the N Landfill. Although presenting some of the highest EFs, these compounds may be indicative of background conditions for the Site and surrounding properties.

4.4.2.7 pH

Field pH measurements were collected from soils from the 10 soil borings (PH-##) installed as part of the CSI within and around the suspected pH potential source area. The pH borehole locations are shown on Figure 2.1. The measurements were obtained using litmus paper.

Borings were completed to a depth of 50 ft BGS and elevated pH measurements are observed throughout the boreholes. A total of 271 pH measurements were obtained with readings ranging from 7 at boring PH-08 to 13 at borings PH-03, PH-06, and PH-07, as presented in Table 4.14. The frequency of observed measurements is shown in the following table. Over 70% of the samples were observed to be in the 11 – 12 pH range.

<i>pH Measurement</i>	<i># of Samples</i>	<i>Percentage of Samples</i>
7	2	0.7
7.5	0	0.0
8	9	3.3
8.5	4	1.5
9	8	3.0
9.5	1	0.4
10	28	10.3
10.5	13	4.8
11	75	27.7
11.5	67	24.7
12	50	18.5
12.5	2	0.7
13	12	4.4

4.5 Groundwater

Groundwater samples were generated as either one-time grab samples collected from soil borings, or from sampling of monitoring wells. All groundwater grab samples are reported. Only the most recent groundwater result for each monitoring well location sampled between January 1, 2004 and October 31, 2013 is reported. Groundwater sample locations are shown on Figure 2.1. Multiple samples could be collected from one location at varying depths, resulting in a greater number of samples than locations. Furthermore, different parameter lists often applied to specific investigations, resulting in variability in the sample counts between parameters.

The analytical results are presented in Tables 4.17 through 4.23 and are compared to the groundwater screening criteria established in the SOW and expanded for the CSI listed in Table 4.8. Table 4.24 presents a summary of the nature and extent of contamination in unsaturated soil at the Site by parameter. 3-D visualization models presenting the concentrations of COCs in groundwater are presented on the USB drive attached as Appendix O. Detections of SVOCs (HCB and HCBd) and pesticides were observed in discrete areas. Due to the limited number of samples/observations, 3-D visualization models were not prepared for these compounds/classes.

The nature and extent of contamination in groundwater are discussed in the following sections.

4.5.1 Volatile Organic Compounds

Concentrations of VOCs in groundwater exceeded the groundwater screening criteria at 329 of the 652 locations where groundwater samples were collected for VOC analysis as shown in Table 4.17. Site VOC parameters that exceeded the criteria include:

- VC – 770 exceedances at 278 locations at concentrations ranging from 2.41 µg/L to 870,000 µg/L (EF range from 1.02 to 362,500)
- Cis-1,2-DCE – 633 exceedances at 213 locations at concentrations ranging from 16.7 µg/L to 630,000 µg/L (EF range from 1.04 to 39,375)
- TCE – 297 exceedances at 123 locations at concentrations ranging from 82.7 µg/L to 2,500,000 µg/L (EF range from 1.02 to 30,864)
- PCE – 342 exceedances at 143 locations at concentrations ranging from 9.3 µg/L to 170,000 µg/L (EF range from 1.05 to 19,209)
- 1,1-Dichloroethene – 315 exceedances at 102 locations at concentrations ranging from 3.3 µg/L to 10,000 µg/L (EF range from 1.03 to 3,125)

- 1,1,2,2-Tetrachloroethane – 13 exceedances at 9 locations at concentrations ranging from 14 µg/L to 8,300 µg/L (EF range from 1.3 to 2,075)
- Carbon Tetrachloride – 6 exceedances at 4 locations at concentrations ranging from 7.3 µg/L to 920 µg/L (EF range from 1.7 to 209)
- Chloroform – 51 exceedances at 31 locations at concentrations ranging from 538 µg/L to 79,800 µg/L (EF range from 1.1 to 170)
- 1,1,2-Trichloroethane – 32 exceedances at 22 locations at concentrations ranging from 47 µg/L to 880 µg/L (EF range from 1.1 to 21)
- Methylene chloride – 19 exceedances at 15 locations at concentrations ranging from 1,700 µg/L to 19,000 µg/L (EF range from 1.06 to 12)

The greatest exceedance occurred at subtidal borehole 5106-002 at a depth of 25.5 ft BML, where VC exceeded the groundwater screening criteria by an EF of 362,500.

Table 4.24 presents a summary of the areal and vertical extents of the groundwater contamination at the Site by parameter.

VOCs associated with the production of chlorinated solvents at the Site are the primary chemical contaminants in groundwater. In particular, PCE, TCE, and VC are considered to be representative indicator parameters of VOC contamination at the Site. 3-D visualization models for PCE, TCE, and VC along with total CVOCs showing the 6 aquifer depth zones at the Site are provided in Appendix O. Conceptual presentations of the plumes for these compounds are also presented in Section 5.0 Figures 5.8, 5.15, 5.16, and 5.17.

The distribution of the VOC contamination in groundwater at the Site can be described in terms of the indicator parameters (PCE, TCE, and VC) and total CVOCs. The areal extent of CVOC impacts to groundwater at the Site are estimated from the 3-D visualization models as follows:

<i>Parameter</i>	<i>Impact Concentration (µg/L)</i>	<i>Aerial Extent by Zone (in Acres)</i>					
		<i>25'</i>	<i>50'</i>	<i>75'</i>	<i>100'</i>	<i>130'</i>	<i>160'</i>
PCE	>8.85	13.6	11.9	14.7	19.7	22.4	16.4
TCE	>81	9.7	8.7	9.2	14.7	20.3	15.1
VC	>2.4	30.3	40.3	44.3.8	43.4	47.0	40.2
Total CVOCs	>2.4	51.9	57.4	58.0	58.5	54.2	50.6

For the following discussion, Figures 4.5 through 4.10 present the distribution of total CVOCs at the various depth zones. These figures provide an overview of the total CVOCs impacts in the groundwater at the Site.

25-ft Zone

The 3-D models presented in Appendix O show that the highest concentrations of PCE and TCE (>100,000 µg/L) are located in the vicinity of WMU A and WMU G, with concentrations decreasing radially from these centers. The PCE and TCE plumes extend from the embankment to just west of Alexander Avenue, and from just south of the Salt Pad onto POT property to the north. The VC plume extends beyond the limits of the PCE and TCE plume, particularly to the north direction, toward the A-Branch of the groundwater extraction system. Low level exceedances of PCE and VC are observed near the south end of the former chemical manufacturing facility (Facility) and on the 709 and 721 Alexander Avenue properties, as well as along the Embankment near Dock 2 and the N Landfill. Figure 4.5 presents the distribution of total CVOCs in the 25-ft zone.

50-ft Zone

The highest concentrations of PCE and TCE (>10,000 µg/L) are located within WMU A (PCE and TCE), and below WMU G and along the embankment within the vicinity of Area 5106 (TCE). The extent of both the PCE and TCE plumes is similar to that within the 25-ft zone.

The extent of the VC plume increases significantly in the 50-ft zone, again beyond the limits of the PCE and TCE plume to the north and the south. A separate plume of VC appears on POT property near Commencement Bay. The VC plume is present within the marina on the east side of the Waterway. The highest concentrations of VC (>10,000 µg/L) are located within the marina and in the vicinity of WMU G. Figure 4.6 presents the distribution of total CVOCs in the 50-ft zone.

75-ft Zone

The highest concentrations of PCE and TCE (>10,000 µg/L) are located in the vicinity of WMU G. The shape of both the PCE and TCE plumes are similar, extending from the center of the shipping channel west to the C-Branch of the extraction system. The subtidal portions of both the PCE and TCE plumes are located within the approximate limits of Area 5106.

The extent of the VC plume is significantly greater than the PCE and TCE plumes at the 75-ft zone. The VC plume extends from the marina west to beyond the A-Branch extraction wells, and from the center of the Facility north toward Commencement Bay. The highest VC concentrations (>10,000 µg/L) are located along the north Facility property line and beneath the Waterway and the marina, east of the PCE and TCE plume. Figure 4.7 presents the distribution of total CVOCs in the 75-ft zone.

100-ft Zone

The highest concentrations of PCE (>10,000 µg/L) are located in the vicinity of WMU G. The highest concentrations of TCE (>10,000 µg/L) are located on POT property in the vicinity of extraction well D-5 and extending toward Area 5106. The leading edges of both the PCE and TCE plumes have migrated further north toward Commencement Bay. The TCE plume extends to the middle of the Waterway.

The east to west extent of the VC plume is similar to its extent at the 75-ft zone. The center portion of the VC plume has migrated northward. Figure 4.8 presents the distribution of total CVOCs in the 100-ft zone.

130-ft Zone

The extent of PCE is somewhat reduced at the 130-ft zone, with the highest concentrations of PCE (>10,000 µg/L) located near Pier 25 and below the Waterway in the vicinity of Area 5106. The extent of TCE appears the same but the highest concentrations of TCE (>100,000 µg/L) have increased. Both plumes have migrated north and slightly east.

The extent and concentrations of VC (>10,000 µg/L) are reduced at the 130-ft zone. The VC plume has migrated north toward Commencement Bay. Figure 4.9 presents the distribution of total CVOCs in the 130-ft zone.

160-ft Zone

The concentrations of the PCE and VC plumes are somewhat reduced at the 160-ft zone, while the highest concentrations of TCE are consistent with the 130-ft zone. The highest concentrations of PCE (>1,000 µg/L), TCE (>100,000 µg/L), and VC (>1,000 µg/L) have migrated north toward Commencement Bay, although the overall extent is much the same as at the 130-ft zone. Figure 4.10 presents the distribution of total CVOCs in the 160-ft zone.

4.5.2 Semi-Volatile Organic Compounds

Concentrations of SVOCs in groundwater exceeded the groundwater screening criteria at 47 of the 158 locations where groundwater samples were collected for SVOC analysis as shown in Table 4.18. Site SVOC parameters that exceeded the soil screening criteria include:

- HCBD – 63 exceedances at 17 locations at concentrations ranging from 0.02 µg/L to 610 µg/L (EF range from 1.5 to 46,923)
- HCB – 60 exceedances at 35 locations at concentrations ranging from 0.00089 µg/L to 6.9 µg/L (EF range from 1.2 to 8,961)

- PCPH – 10 exceedances at 7 locations at concentrations ranging from 10 µg/L to 670 µg/L (EF range from 1.3 to 85)

The greatest exceedance occurred at PT-13 at 20.25 ft BML, where HCBP exceeded the groundwater screening criteria by an EF of 46,923.

Figure 4.11 presents the areal distribution of SVOC concentrations in groundwater at the Site. The extent of these constituents may not be completely defined; however, they are expected to be within the defined CVOC plumes based on lower mobility and similar source areas.

HCBP and HCB have the greatest impact to groundwater ($EF_{max} = 46,923$ and 8,961, respectively) of the Site SVOCs. HCBP and HCB are present in groundwater at concentrations exceeding their groundwater cleanup level below the Waterway and along the embankment, and in the vicinity of the N Landfill and WMU G. Depth of impacts range from 2 ft to 164 ft BML within the Waterway and 10 ft to 111 ft BGS at upland locations.

The impacts of PCPH to groundwater are minor and limited to the vicinity of Area 5106 and WMU G.

4.5.3 Pesticides

Concentrations of pesticides in groundwater exceeded the groundwater screening criteria at only 1 of the 13 locations where groundwater samples were collected for pesticide analysis as shown in Table 4.19. 4,4'-DDT exceeded the groundwater screening criteria at NL-14 at a concentration of 0.247 µg/L (EF of 1123).

Figure 4.12 presents the areal distribution of pesticide concentrations in groundwater at the Site. The extent of these constituents may not be completely defined; however, they are expected to be within the defined CVOC plumes based on lower mobility and similar source areas.

The impact of Site pesticides to groundwater is limited to this one exceedance of 4,4'-DDT in the vicinity of the N Landfill at 17.5 ft BML.

4.5.4 Polychlorinated Biphenyls

In accordance with MTCA, the PCB mixtures have been considered as a single hazardous substance. The majority of the total PCB concentrations obtained from the site investigations were calculated by the laboratory based upon analysis of PCB aroclors. Several samples, however, were analyzed for select PCB congeners. In these samples, total PCB concentrations

for the samples have been calculated from the laboratory-measured concentrations of PCB congeners using the methodology developed by Frame et al, (1998); Sponberg, (2004); and Woolcott, (2001). The calculations are presented in Appendix Q, Table Q.3.

Concentrations of PCBs in groundwater exceeded the groundwater screening criteria at 26 of 196 locations where groundwater samples were collected for PCB analysis, with exceedances ranging from 0.000589 µg/kg to 22.21 µg/kg (EF range from 3.5 to 130,647). The greatest exceedance occurred at location PT-15B at a depth of 39 ft BML, located near Dock 1 and adjacent to the Navy-Todd Dump. The greatest area of impact to groundwater is beneath the Waterway near the former Navy-Todd Dump.

Table 4.20 presents a summary of total PCB concentrations for each groundwater sample analyzed for either PCB aroclors or PCB congeners.

4.5.5 Dioxins/Furans

In accordance with MTCA, the mixtures of dioxins/furans have been considered a single hazardous substance. As such, the laboratory-measured concentrations of dioxin and furan congeners have been multiplied by their respective TEFs to obtain a TEQ of 2,3,7,8-TCDD for each sample. Table 4.21 presents a summary of the dioxin/furan TEQs calculated for each groundwater sample analyzed for dioxins and furans. The TEQ calculations are presented in Appendix Q, Table Q.4.

4.5.6 Metals

Concentrations of metals in groundwater exceeded the groundwater screening criteria at 468 of 486 locations where groundwater samples were collected for metals analysis as shown in Table 4.22. Metals parameters that exceeded the groundwater screening criteria include:

- Arsenic– 1,067 exceedances at 439 locations at concentrations ranging from 0.2 µg/L to 4,400 µg/L (EF range from 1.4 to 31,429)
- Chromium – 316 exceedances at 109 locations at concentrations ranging from 50.6 µg/L to 6,350 µg/L (EF range from 1.01 to 127)
- Copper – 1,055 exceedances at 277 locations at concentrations ranging from 2.41 µg/L to 7,230 µg/L (EF range from 1.00 to 3,013)
- Lead – 61 exceedances at 44 locations at concentrations ranging from 8.2 µg/L to 1,5300 µg/L (EF range from 1.01 to 189)
- Mercury – 187 exceedances at 125 locations at concentrations ranging from 0.03 µg/L to 85.2 µg/L (EF range from 1.2 to 3,408)

- Nickel – 920 exceedances at 213 locations at concentrations ranging from 8.26 µg/L to 2,790 µg/L (EF range from 1.01 to 340)
- Thallium – 119 exceedances at 51 locations at concentrations ranging from 0.474 µg/L to 4,680 µg/L (EF range from 1.01 to 9,957)
- Zinc – 143 exceedances at 71 locations at concentrations ranging from 81.67 µg/L to 49,400 µg/L (EF range from 1.01 to 610)

The greatest exceedance occurred in a sample collected beneath the Waterway near Pier 25 at a depth of 21.5 ft BML, where arsenic exceeded the groundwater screening criteria by an EF of 31,429. The next greatest exceedances occurred for thallium at 5106-12 at a depth of 3.5 ft BML beneath the Waterway, mercury at a depth of 100 ft BGS in the vicinity of the former Caustic House, and copper at WW-A1D at a depth of 22 ft BML beneath the Waterway.

The geochemical conditions in the groundwater (i.e., high pH and ionic strength) result in the mobilization of metals. Exceedances of metals parameters occur across the Site, off-Site on the peninsula, and beneath the Waterway and at all depth ranges. The primary potential sources of metals impact at the Site are the Navy-Todd Dump, N Landfill, and embankment soil.

4.5.7 pH

pH measurements are presented in Table 4.23. A 3-D visualization model of the distribution of pH in groundwater at the Site is presented on the USB drive attached as Appendix O. 3-D visualization models showing the six aquifer depth zones at the Site were developed and are provided in Appendix O.

The areal extent of pH impacts to groundwater to the Site are estimated from the 3-D visualization model as follows:

<i>Parameter</i>	<i>Impact Concentration (su)</i>	<i>Aerial Extent by Zone (in Acres)</i>					
		<i>25'</i>	<i>50'</i>	<i>75'</i>	<i>100'</i>	<i>130'</i>	<i>160'</i>
pH	>8.5	45.4	62.9	50.4	43.1	30.4	39.3

25-ft Zone

Within the 25-ft zone, the impacts (pH >8.5 su) extend over much of the Facility from the Waterway to west of Alexander Avenue. The highest pH groundwater (>11 su) is located along the eastern portion of the Site beneath the former caustic production and storage areas.

50-ft Zone

Within the 50-ft zone, the pH impacts generally extend over much of the Facility from the Waterway to west of Alexander Avenue. The extent of the highest pH values (>12 su) increases slightly in size relative to the 25-ft zone, and is located more to the north, immediately plant-south of the Salt Pad.

75-ft Zone

The pH plume within the 75-ft zone is reduced, extending from the middle of the Waterway to east of Alexander Avenue. The pH plume has migrated east with the highest groundwater pH (>12 su) located in the vicinity of the former caustic tanks and the south end of Dock 1.

100-ft Zone

The pH plume has migrated north and east and extends from the Waterway to east of Alexander Avenue. In general, the pH plume extent is still limited to beneath the Facility and the Waterway. The highest pH groundwater (>13 su) is located in the vicinity of the north end of Dock 1, extending from the Waterway to the Salt Pad.

130-ft Zone

The pH plume has migrated northeast and is located beneath the northeastern portion of the Facility, the POT property to the north, and the Waterway. The highest pH groundwater (>13 su) is located beneath the Waterway, east of Pier 25.

160-ft Zone

The pH impacts to groundwater at the 160-ft zone are diminished with the highest pH falling in the 10-11 su range and appearing in a narrow band beneath the POT property to the north.

4.5.8 Temperature

The temperature of groundwater was measured during the collection of groundwater samples at the Site. These temperatures varied across the Site due to many factors including seasonal variations, distance from the Waterway, depth of sample, time of day, the ambient air temperature, and sampling techniques.

To eliminate surface-related factors that could affect the temperature readings during sampling, the temperature readings measured during hydraulic monitoring Event 3 from the down-hole and in-place transducers were used to create a 3-dimensional (3-D) model of the temperature data. The temperatures measured by the transducers are believed to more accurately represent in situ conditions. The 3-D model is included in Appendix O. The 3-D

model was used to prepare figures of horizontal sections through the temperature model along the six depth zone grouping planes. These plan view sections are shown on Figures 4.13 to 4.18.

Examination of these figures shows that in the 25-ft zone, temperatures are only slightly elevated beneath the facility relative to temperatures measured elsewhere¹⁰. The increase in temperature beneath the former production areas and WMUs at the Site is more pronounced in the 50-ft zone, where the highest value (18.4°C (65°F) at 15-50R) is 5 to 6°C (9 to 11°F) higher than the temperatures measured off Site. Temperatures in the former solvent manufacturing area, and specifically near the salt pad, are significantly higher than the off-Site water in the 75-ft, 100-ft, and 130-ft depth zones. The highest groundwater temperatures were measured in the 100-ft (23.1°C (73.6°F) at 82-100) and 130-ft (24.3°C (75.7°F) at T5-120) depth zones. In the 160-ft zone, the temperature difference between the area beneath the salt pad and the surrounding water is negligible.

The distribution of elevated temperature measurements is similar to the distribution of the pH plume. The pattern of groundwater temperature is consistent with a surface release of caustic and subsequent interaction with the porous media. The dissolution of sodium hydroxide released to the subsurface would be exothermic, which would cause an increase in the temperature of the surrounding groundwater. The interaction of sodium hydroxide and other caustics with the porous media would cause chemical reactions that temporarily sequester alkalinity in the soil, which is subsequently released. The reactions of the re-released caustic with the aquifer material would also be exothermic, which would maintain the elevated temperature in the high-pH zones.

The highly-elevated temperature groundwater (i.e., >20°C or 68°F) in the 100-ft and 130-ft depth zones has migrated to areas of lower pH either by migration with ADP and/or groundwater flow. This has resulted in higher groundwater temperatures to the north and east in these zones. Vertical migration of the elevated-temperature groundwater has resulted in the slightly elevated temperature in the 160-ft depth zone (16°C or 60.8°F) north of the Salt Pad.

¹⁰ Natural groundwater at the Site has a temperature ranging from 11°C to 13°C (52°F to 55°F).

4.6 Sediment

For characterization purposes, geologic samples collected within 3 ft of the Waterway mudline are considered to be sediment samples. Through the course of the following site investigations, 89 discrete sediment samples and 15 composite sediment samples were collected from the locations shown on Figure 4.19.

- 9 locations (PT-#) as part of the Area 5106 Post-Treatment Characterization (2003) and analyzed for PCE, TCE, HCB, and HCBd
- 18 locations (5106-###) as part of the Area 5106 Borings and analyzed for the Embankment Area/Subtidal Groundwater COCs
- 13 locations (Pier 25-#) as part of the Borings Adjacent to Pier 25 (2006) and analyzed for the Embankment Area/Subtidal Groundwater COCs
- 6 composite locations (52##) as part of the Hylebos Pre-Remedial Design Program (1994) and analyzed for VOCs, SVOCs, pesticides, and metals
- 9 composite locations (A-#/##) as part of the Embankment Investigation (1996) and analyzed for VOCs, SVOCs, PCBs, pesticides, gasoline range organics (GRO), diesel range organics (DRO), total petroleum hydrocarbons (TPH), metals, and general chemistry
- 9 locations (NL-##) from the N Landfill as part of the Supplemental Investigations (2004) and Additional Supplemental Investigations (2005-2006) and analyzed for the Embankment Area/Subtidal Groundwater COCs or Sediment/Porewater COCs
- 14 locations as part of the Focused Investigation of Dioxins/Furans and PCB Congeners (2006-2007) and analyzed for PCDD/F and PCB congeners
- 1 location (WW-A1R) as part of the Comprehensive Supplemental Investigation (2012) and analyzed for PCBs and dioxins/furans

The analytical results are presented in Tables 4.25 through 4.27 and are compared to the sediment cleanup levels listed in Table 4.5. Table 4.28 presents a summary of the nature and extent of contamination in sediment at the Site by parameter. 3-D visualization models presenting the concentrations of COCs in sediment are included in Appendix O. Detections of SVOCs (HCB and HCBd) and pesticides were observed in discrete areas. Due to the limited number of samples/observations, 3-D visualization models were not prepared for these compounds/classes.

The nature and extent of contamination in sediment are discussed in the following sections.

4.6.1 Volatile Organic Compounds

Concentrations of VOCs in sediment exceeded the sediment cleanup levels at 14 of the 65 locations where sediment samples were collected for VOC analysis. Of the Site VOCs, only ethylbenzene and PCE have established sediment cleanup levels. Only PCE exceeded the sediment cleanup level at concentrations ranging from 84 µg/kg to 195,000 µg/kg. The highest detection of PCE occurred at boring PT-7 where PCE exceeded the sediment cleanup level by an EF of 3,421.

Exceedances of sediment cleanup levels are limited to PCE within Area 5106 and along the embankment in the vicinity of the N Landfill.

4.6.2 Semi-Volatile Organic Compounds

Concentrations of SVOCs in sediment exceeded the sediment cleanup levels at 33 of 35 locations where sediment samples were collected for SVOC analysis. Site SVOC parameters that exceeded the sediment cleanup levels include:

- 1,2,4-trichlorobenzene – 3 exceedances ranging from 60 µg/kg to 86 µg/kg (EF range from 1.2 to 1.7)
- bis(2-ethylhexyl)phthalate - one exceedance of 1800 µg/kg (EF of 1.4)
- HCB – 36 exceedances ranging from 24 µg/kg to 2,630 µg/kg (EF range from 1.1 to 120)
- HCBd – 45 exceedances ranging from 18 µg/kg to 24,300 µg/kg (EF range from 1.6 to 2209)
- Pentachlorophenol - one exceedance of 700 µg/kg (EF of 1.9)

The greatest exceedance occurred at PT-7, where HCBd exceeded the sediment cleanup level by an EF of 2209.

Figure 4.20 presents the areal distribution of SVOC concentrations in sediment at the Site. The extent of these constituents may not be completely defined; however, they are expected to be within the defined CVOC plumes based on lower mobility and similar source areas.

Furthermore, future planned sampling in the Hylebos Waterway will determine the nature and extent of potential residual-chemical concentrations in the sediment.

HCBd and HCB have the greatest impact to sediment of the Site SVOCs. HCBd and HCB exceed their sediment cleanup levels along the entire embankment and within Area 5106. The remaining 3 Site SVOCs have limited or no impact to sediment along the embankment.

4.6.3 Pesticides

Concentrations of pesticides in sediment exceeded the sediment cleanup levels at 6 of 23 locations where sediment samples were collected for pesticide analysis. Pesticide parameters that exceeded the sediment cleanup levels include:

- 4,4'-DDD - six exceedances ranging from 140 µg/kg to 2,200 µg/kg (EF range from 8.8 to 138)
- 4,4'-DDE - one exceedance of 740 µg/kg (EF of 82)

The greatest exceedance occurred in a composite sample from Embankment Area 4, samples 13 through 16, where 4,4'-DDD exceeded the sediment cleanup level by an EF of 138.

Figure 4.21 presents the areal distribution of pesticide concentrations in sediment at the Site. The extent of these constituents may not be completely defined; however, they are expected to be within the defined CVOC plumes based on lower mobility and similar source areas. Furthermore, future planned sampling in the Hylebos Waterway will determine the nature and extent of potential residual-chemical concentrations in the sediment.

4,4'-DDD has the greatest impact to sediment of the Site pesticides. 4,4'-DDD is present in sediment at concentrations exceeding its sediment cleanup level along the embankment in the vicinity and south of Dock 2.

4.6.4 Polychlorinated Biphenyls

In accordance with MTCA, the PCB mixtures have been considered as a single hazardous substance. For the most part, the total PCB concentrations obtained from the site investigations were calculated by the laboratory based upon analysis of PCB aroclors. Several samples, however, were analyzed for select PCB congeners. In these cases, total PCB concentrations for the samples have been calculated from the laboratory measured concentrations of PCB congeners using the methodology outlined by Frame et al. (1998); Spongberg (2004); and Woolcott (2001). The calculations are presented in Appendix Q, Table Q.3.

Concentrations of PCBs in sediment exceeded the sediment cleanup level at 14 of 36 locations where sediment samples were collected for PCB analysis, with exceedances ranging from 335 µg/kg to 34,033 µg/kg (EF range from 1.1 to 113). The greatest exceedance occurred at location PT-17A.

Table 4.26 presents a summary of total PCB concentrations for each sediment sample analyzed for either PCB aroclors or PCB congeners.

4.6.5 Dioxins/Furans

In accordance with MTCA, the mixtures of dioxins/furans have been considered a single hazardous substance. As such, the laboratory measured concentrations of dioxin and furan congeners have been multiplied by their respective TEFs to obtain total TEQ of 2,3,7,8-TCDD for each sample. Table 4.27 presents a summary of the dioxin/furan TEQs calculated for each sediment sample analyzed for dioxins and furans. The TEQ calculations are presented in Appendix Q, Table Q.5.

4.6.6 Metals

Concentrations of metals in sediment exceeded the sediment cleanup levels at 19 of 25 locations where sediment samples were collected for metals analysis. Metals parameters that exceeded the sediment cleanup levels include:

- Arsenic - five exceedances ranging from 60,000 µg/kg to 140,000 µg/kg (EF range from 1.0 to 2.5)
- Copper - three exceedances ranging from 980,000 µg/kg to 2,500,000 µg/kg (EF range from 3.8 to 6.4)
- Lead - sixteen exceedances ranging from 519,000 µg/kg to 150,000,000 µg/kg (EF range from 1.2 to 333)
- Mercury - three exceedances ranging from 990 µg/kg to 2,100 µg/kg (EF range from 1.7 to 3.6)
- Nickel - four exceedances ranging from 150,000 µg/kg to 450,000 µg/kg (EF range from 1.1 to 3.2)
- Zinc - four exceedances ranging from 470,000 µg/kg to 1,500,000 µg/kg (EF range from 1.1 to 3.7)

The greatest exceedance occurred in a composite sample from Embankment Area 4, samples 13 through 16, where lead exceeded the sediment cleanup level by an EF of 333.

Exceedances of metals in sediment were observed in the intertidal zone along the embankment and in the vicinity of the N Landfill. Lead has the greatest impact to sediment of the Site metals. Arsenic, copper, mercury, nickel, and zinc also exceed their sediment cleanup levels along the embankment, but to a lesser degree (less than an order of magnitude above the respective sediment cleanup levels), and in fewer samples.

4.7 Soil Vapor/Indoor Air

The soil vapor/indoor air investigations were performed as described in the May 2014 Revised Draft Vapor Investigation Report (CRA, 2014b) (VI Report) attached as Appendix R. Figure 4.22 identifies the buildings investigated, including the Army Reserve Facility (ARF), Buildings 326, 407, 532, 592, 595, and 596, and the Guard Shack located on properties owned and/or controlled by the POT, and the OCC Office Building.

The SS samples at each building were collected concurrent with associated IA and OA sampling activities. The following sections summarize the analytical results and conclusions of the vapor investigation conducted through March 2014 at the nine buildings located at or in the vicinity of the OCC Site. The Vapor Investigation is ongoing.

4.7.1 Army Reserve Building

Analytical results for samples collected at the Army Reserve Building are presented in Table 4.29 and detected parameters summarized on Figure 4.23.

IA screening level exceedances for benzene (BZ) and carbon tetrachloride (CT) are likely attributable to an outdoor source and possibly an indoor source for BZ (round two). IA screening level exceedances for chloroform (round one) and naphthalene are likely attributable to an indoor source. Potential indoor sources of naphthalene include the operation of vehicles in the maintenance area. IA detections of TCE are attributed to a potential indoor air source and potentially an isolated source beneath the maintenance area unrelated to the OCC plume.

This building is proposed for no further action by Glenn Springs Holdings (GSH) due to the apparent outdoor source, indoor source, and potentially subsurface source unrelated to the OCC Site

4.7.2 Building 326

Analytical results for samples collected at Building 326 are presented in Table 4.30 and detected parameters summarized on Figure 4.24.

IA screening level exceedances for 1,2,4-trimethylbenzene (1,2,4-TMB), 1,4-dichlorobenzene (1,4-DCB), and chloroform (round one) are likely attributable to an indoor source. No specific obvious indoor sources were noted in the building; however, painting, carpeting, and new ceramic tile floors were installed in the last 2 years. IA screening level exceedances for BZ and CT (round one) are likely attributable to an outdoor source. Round two sampling further identified an IA exceedance for ethylbenzene (EB); however, data suggest this exceedance is

likely attributable to an outdoor source with a potential contribution from indoor sources. Both round one and two sampling events identified IA screening level exceedance for TCE (3.9 and 3.1 $\mu\text{g}/\text{m}^3$, respectively) is likely attributable to a sub-slab source and the concentrations were below the short-term criterion of 8.4 $\mu\text{g}/\text{m}^3$.

This building is proposed for mitigation by GSH in response to concentrations of TCE in both SS and IA.

4.7.3 Building 407

Analytical results for samples collected at Building 407 are presented in Table 4.31 and detected parameters summarized on Figure 4.25.

IA screening level exceedances for 1,2,4-TMB, chloroform (round one), EB (round two), naphthalene, o-xylene (round two), and styrene (round two) are likely attributable to indoor sources (Citadel Marine paint bay operations, miscellaneous power and hand tools, parts washing tubs, chemical storage tanks, three flammable material storage lockers, paint cans, cleaning products, and miscellaneous building materials). IA screening level exceedances for BZ and CT are likely attributable to an outdoor source and an indoor source for BZ. SS concentrations of HCBd in round one were being adequately attenuated evidenced by HCBd not being detected in IA. Additionally, HCBd was not detected in any SS or IA samples in round three.

This building is proposed for no further action by GSH due to the identified indoor source and apparent outdoor sources unrelated to the OCC Site.

4.7.4 Building 532

Analytical results for samples collected at Building 532 are presented in Table 4.32 and detected parameters summarized on Figure 4.26.

IA screening level exceedances for 1,4-DCB and EB are likely attributable to an indoor source (aerosol cans containing chemical cleaners, lubricants, paints, and diesel fuel were observed). IA screening level exceedances for BZ and CT are likely attributable to an outdoor source. The IA screening level exceedance for TCE (0.86 $\mu\text{g}/\text{m}^3$) is likely attributable to a sub-slab source and the concentration was below the short-term criterion of 8.4 $\mu\text{g}/\text{m}^3$. Round two sampling did not confirm the presence of TCE exceeding IA screening criteria in any of the collected IA samples. However, SS sampling did identify TCE again exceeding soil gas screening levels.

This building is proposed for mitigation by GSH in response to concentrations of TCE in both SS and IA.

4.7.5 Building 592

Analytical results for samples collected at Building 592 are presented in Table 4.33 and detected parameters summarized on Figure 4.27.

IA screening level exceedances for BZ, chloroform (round three), EB (rounds two and three), naphthalene (rounds one and three), and 1,2,4-TMB (round two) are likely attributable to an indoor source and possibly outdoor source for BZ and chloroform. IA screening level exceedances for CT (rounds one and three) are likely attributable to an outdoor source. IA screening level exceedances for TCE are likely attributable to an indoor source. The building survey identified TCE in degreasers used in maintenance areas in Building 592. The TCE concentration at IA-2 ($13 \mu\text{g}/\text{m}^3$) in round one exceeded the short-term criterion of $8.4 \mu\text{g}/\text{m}^3$. The rounds two and three maximum concentrations were $1.9 \mu\text{g}/\text{m}^3$ and $8.3 \mu\text{g}/\text{m}^3$, respectively, below the criterion. IA screening level exceedances for PCE in round three appear to be attributable to an indoor source. The data indicates that a potential isolated source exists beneath the shop area. The potential contribution to IA concentrations from location SS-32 is unclear. There were no exceedances for PCE in IA and SS samples in rounds one and two.

This building is proposed for additional monitoring by GSH in the shop area in this building to confirm SS vapor concentrations and further assess this portion of the building.

4.7.6 Building 595

Analytical results for the samples collected at Building 595 are presented in Table 4.34 and detected parameters summarized on Figure 4.28.

IA screening level exceedances for BZ CT (rounds one and three), and chloroform (round three) are likely attributable to an outdoor source (no specific obvious indoor sources were noted in the building). IA screening level exceedance for naphthalene (round three) may be attributable to indoor and/or outdoor sources. SS concentrations of BZ, chloroform, PCE, and TCE in exceedance of the SS screening levels are being adequately attenuated.

This building is proposed for no further action by GSH at this time due to confirmation that BZ, chloroform, PCE, and TCE in soil vapor are adequately attenuated under the current use of the building.

4.7.7 Building 596

Analytical results for the samples collected at Building 596 are presented in Table 4.35 and detected parameters summarized on Figure 4.29.

IA screening level exceedances for 1,2,4-TMB (round two), 1,4-DCB, chloroform (round one), EB (round two), naphthalene (rounds one and three), PCE, and TCE are likely attributable to an indoor source (numerous flammable storage lockers and stored chemicals including cleaners, and cutting oils were observed). IA screening level exceedances for BZ and EB (round three) are likely attributable to an indoor and possibly outdoor source. IA screening level exceedances for CT (rounds one and three) and chloroform (round three) sampling are likely attributable to an outdoor source. The TCE concentrations for both rounds one and two at IA-21 (19 and 15 $\mu\text{g}/\text{m}^3$, respectively) exceeded the short-term criterion of 8.4 $\mu\text{g}/\text{m}^3$ and the concentrations at IA-3 (6.6 and 2.9 $\mu\text{g}/\text{m}^3$) did not. The TCE concentrations for round three at IA-21 (7.1 $\mu\text{g}/\text{m}^3$), IA-3 (2.8 $\mu\text{g}/\text{m}^3$), and IA-35 (1.5 $\mu\text{g}/\text{m}^3$) are below the short-term criterion of 8.4 $\mu\text{g}/\text{m}^3$.

This building is proposed for no further action by GSH due to the identified indoor sources and apparent outdoor source unrelated to the OCC Site.

4.7.8 Guard Shack

Analytical results for the samples collected at the Guard Shack are presented in Table 4.36 and detected parameters summarized on Figure 4.30.

IA MTCA screening level exceedances for BZ and CT are likely attributable to an outdoor source.

This building is proposed for no further action by GSH as the observed exceedances of screening levels for IA appear to be due to outdoor source unrelated to the OCC Site, the location of the Guard Shack relative to the main plume, and the nature of the day-to-day operations at this location.

4.7.9 OCC Office Building

Analytical results for samples collected at the OCC Office Building are presented in Table 4.37 and detected parameters summarized on Figure 4.31.

An IA screening level exceedance for 1,4-DCB is likely attributable to an indoor or sub-slab source. No specific obvious indoor sources were noted in the building. IA screening level exceedances for BZ are likely attributable to an indoor, outdoor, or sub-slab source. IA screening level exceedances for CT are likely attributable to an outdoor source. IA screening

level exceedances for chloroform and TCE are likely attributable to a sub-slab source. IA TCE concentrations (up to $5.3 \mu\text{g}/\text{m}^3$) were below the short-term criterion of $8.4 \mu\text{g}/\text{m}^3$. SS concentrations of 1,1,2,2-tetrachloroethane (1,1,2,2-PCA), 1,1,2-trichloroethane (1,1,2-TCA), HCBD, and PCE in exceedance of the SS screening levels are being adequately attenuated.

This building is proposed for mitigation by GSH in response to concentrations of chloroform and TCE; however, given the low usage of the building, the need for mitigation is not urgent.

4.8 VOC Source Zones

One of the data gaps identified in the revised Data Gap Evaluation Report (CRA, 2012) was the extent of PCE/TCE contamination in saturated soil north of the WMU G and northwest/west of WMU-A. In order to fill this data gap, a VOC source zone investigation was conducted as described in Section 2.1.23 of this SCR. The VOC source zone investigation consisted of the advancement of boreholes, screening of soil cores, and the collection of soil and groundwater samples for chemical analysis. This investigation was designed to specifically identify the presence of DNAPL in the area. This section presents the assessment methods, areal extent of the VOC source zones, DNAPL composition, and the estimated mass of DNAPL.

4.8.1 Assessment Methods

The assessment of the presence of DNAPL was conducted by both OCC/CRA and the Agencies/Weston Solutions using different methods. Both assessments were based on a common data set. The assessment methods used are presented below.

Kueper-Davies Method

The delineation of VOC source zones by OCC/CRA was based on the methods described in Kueper and Davies (2009). This method uses field screening and laboratory data to determine the likelihood of DNAPL presence at a location. Consistent with the procedures described in Kueper and Davies (2009), multiple lines of evidence were used to delineate areas of confirmed and potential DNAPL.

Indicators of confirmed DNAPL included:

- Visible NAPL in a sample
- A positive dye test result
- Soil chemical concentrations above the DNAPL saturation threshold (set at 5%) for that compound (Kueper and Davies Calculation #1)

Indicators of potential DNAPL included:

- High PID readings and chemical odor in a sample
- Staining and chemical odor in a sample
- Concentrations in a soil sample above the partitioning threshold (Kueper and Davies Calculation #4) based on six chlorinated ethenes: PCE, TCE, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, and VC
- Concentrations in a groundwater sample above 1% of the effective solubility (Kueper and Davies Calculation #6) based on six chlorinated ethenes: PCE, TCE, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, and VC

The DNAPL indicators were plotted in plan view by depth zone and the areas of confirmed and potential DNAPL were delineated based on the DNAPL indicators, knowledge of potential source locations defined in Section 5.2, and professional judgment.

NAPL Calculator Method

The Agencies/Weston solutions used the available soil data from the Site to calculate DNAPL saturation (NSAT) at each sample location where the result of the Kueper and Davies Calculation #4 was equal to or greater than 0.1. The calculations were completed using an analytical model called NAPL Calculator (NAPL-CALC) developed by the Savannah River National Laboratory. NAPL-CALC is a self-executing Microsoft Excel based, analytical model. The model solves standard partitioning equations (the same as those used in Kueper and Davies [2009]) and provides DNAPL saturation at each soil sample location. NSAT values were determined using the concentrations of five chlorinated ethenes (PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and VC) and soil physical properties (volumetric water content, porosity, fraction of organic carbon).

To determine the extent of the DNAPL source zones, the NSAT values were interpolated using the 3-D geospatial model EarthVision 8.2 by Dynamic Graphics. The source zone model was then processed to develop estimates of NAPL mass and volume. The NSAT plume was partitioned into isoshells using NSAT values of 0.1, 0.2, 0.5, 2, 5, 10, and 20%.

The complete details of the assessment method and results are presented in Appendix S.

4.8.2 VOC Source Zone Extent

Kueper-Davies Method

The DNAPL indicators and the data used in the evaluation and calculations completed are provided in Appendix S. The DNAPL indicators were separated by the seven depth zones (15-ft,

25-ft, 50-ft, 75-ft, 100-ft, 130-ft, and 160-ft zones) and plotted on maps of the Site (one for each depth zone). Where multiple samples were taken for a single location in a depth zone, the indicators for confirmed DNAPL were given precedence over the indicators for potential DNAPL or absence of DNAPL. This is a conservative approach, as DNAPL is difficult to detect. Consistent with the procedures outlined in Kueper and Davies, the areas of DNAPL for each depth zone were delineated using professional judgment, based not only on the field and laboratory indicators, but also on the locations of the known potential source areas.

The results of the delineation are presented on Figures 4.32 through 4.38. Examination of these figures shows that confirmed DNAPL is found mainly in the 15-ft, 25-ft, and 130-ft zones. Note that there was no confirmed DNAPL detected in the 50-ft and 75-ft zones. The confirmed DNAPL source zones in the 15-ft zone are located in the former solvent production area, primarily in the area of WMU-G and WMU-A. These source zones appear to have migrated plant north. Vertical migration from the 15-ft zone to the 25-ft zone occurred as evidenced by the confirmed DNAPL source zones below WMU-G and the former solvent production plant. Another area where DNAPL entered the subsurface is along the Waterway. Here the principal potential sources were the effluent settling barge (WMU-F), former discharge line, and WMU-D. These potential sources may have resulted in the deeper confirmed DNAPL source zones located in the 130- and 160-ft depth zones.

NAPL Calculator Method

In addition to the evaluation of DNAPL saturation, Weston Solutions also developed figures and cross-sections illustrating VOC source zones. These figures are provided in Appendix T. Weston Solutions provided three estimates of the probable DNAPL source zone extent (best estimate extent, maximum extent, and minimum extent) based on sensitivity analysis. These are shown on Figures 3.4 to 3.6 of Appendix S. These figures represent the zone of residual NAPL (similar to confirmed DNAPL in the Kueper-Davies method). Examination of these figures shows that the predicted DNAPL source zones using this method are thin and lenticular in shape with no vertical connection. The absence of a vertical connection is most likely due to the high anisotropy (factor of 250) applied in the kriging process to allow horizontal connection. The lateral spreading of the DNAPL source zones shown on Figures 3.4 to 3.6 in Appendix S is consistent with the conceptual model of DNAPL spreading laterally on lower hydraulic conductivity units. However, the absence of any vertical connection among DNAPL source zones is inconsistent with the known potential sources at the Site. DNAPL migrated vertically downward from the VOC potential source areas associated with the former WMUs illustrated on Figures 1.2 and 5.1. This vertical migration would result in a residual "trail" between the depth zones.

A close review of Figures 3.4 to 3.6 in Appendix S shows one of the short-comings of the NAPL-CALC method. There are boreholes where positive dye tests were noted in the soil core; but the associated soil sample had an NSAT value of 0.1% or less (e.g., WMUR-9, WMUR-10, and SB-B). Kueper and Davies (2009) use positive dye tests as a line of evidence to confirm the presence of DNAPL at the sample depth. However, the confirmed presence of DNAPL without an NSAT value above the threshold was not considered in the delineation of DNAPL source zones. If the positive dye tests were considered, the DNAPL source zones would be more vertically extensive than currently depicted by this method.

The NSAT method does show that the DNAPL source zones have the greatest extent in the 100- and 130-ft zone, similar to the results of the Kueper and Davies method.

Given the above, it is likely that the distribution of DNAPL source zones determined by the NAPL-CALC method underestimates the actual extent of confirmed DNAPL source zones. This is principally due to the use of a single line of evidence (i.e., NSAT values) in delineating the DNAPL source zones.

4.8.3 DNAPL Composition

As discussed in Section 1.5, TCE was produced at the Hooker Chemical/OCC facility from 1947 to 1973. PCE was produced from 1960 to 1973. Plant records indicate a fairly consistent production rate of 1,100,000 and 660,000 pounds per month of TCE and PCE, respectively. TCE and PCE were stored and handled at the Site. Both TCE and PCE are denser than water and are the principal components of the VOC source zones defined on Figures 4.32 through 4.38. An evaluation of the variability of DNAPL composition was undertaken and is presented below.

During Site investigations, free-phase DNAPL was not encountered. As a result, no DNAPL analysis is available. Soil analyses for soil samples that exceeded the partitioning threshold were used as a surrogate to evaluate the variability in DNAPL composition. A total of 132 soil samples had partitioning threshold values greater than 1 and were used in the evaluation as summarized below:

<i>Depth Zone</i>	<i>Number of Samples</i>	<i>Percentage of Samples</i>	<i>PCE/TCE Ratio</i>			<i>Samples PCE/TCE<1</i>
			<i>Average</i>	<i>Minimum</i>	<i>Maximum</i>	
15	29	22	27.4	0.3	228.0	5
25	25	19	10.3	0.2	142.0	7
50	22	17	7.5	0.1	28.5	1
75	5	4	7.0	0.8	28.5	1
100	15	11	3.4	0.1	22.6	6
130	28	21	0.9	0.0	2.4	20
160	8	6	1.3	0.5	6.0	6

Examination of the summary above shows that the greatest number of samples exceeding the partitioning threshold occurred in the shallow depth zones. In total, 76 of the 132 samples (58%) occurred in the 15-, 25-, and 50-ft zones. In these shallow depths, PCE was generally found at higher concentrations than TCE, although both compounds were detected in all of these soil samples. Only 13 of the 76 soil samples which exceeded the partitioning threshold had TCE concentrations greater than PCE. The DNAPL in the shallow depth zones likely originated during the period when both TCE and PCE were produced at the Site (i.e., 1960 to 1973). Even though TCE was produced in greater quantities over this period, the DNAPL, for the most part, is PCE dominant. This is most likely due to the higher effective solubility of TCE in a mixed component DNAPL resulting in differential weathering and higher residual PCE content.

In the 75- and 100-ft zones, the composition of the DNAPL is more equally distributed between PCE and TCE, with slightly greater PCE content. The DNAPL in these zones may have resulted from migration through the shallower zones from the former production plant, settling barge, and WMUs D, G, and H.

In the 130- and 160-ft zones, the DNAPL has a higher TCE content. This may be due to the fact the DNAPL source zones in these intervals are located farthest from the VOC potential source areas and likely represents DNAPL released earlier in the solvent production period when only TCE was produced. TCE was produced for 13 years (1947-1960) before PCE production began.

Based on the soil samples examined, DNAPL at the Site consists primarily of PCE and TCE. The composition varies with depth, with PCE being dominant in the shallower depth zones (15-, 25-, and 50-ft zones). TCE is the major component in the 130- and 160-ft zones. In the 75- and 100-ft zones the composition is generally equal content of PCE and TCE.

4.8.4 Estimated DNAPL Mass

Kueper-Davies Method

The DNAPL source zone areas and volumes, and DNAPL mass were calculated for both confirmed DNAPL and potential DNAPL in each depth zone based on the source zone extents shown on Figures 4.32 through 4.38. The volumes of the DNAPL source zones were calculated by multiplying the areas presented by the thickness of the zone grouping plane where the DNAPL was detected. The assumption was that the DNAPL presence was uniform over the entire thickness of each depth zone. While this assumption may result in a greater source zone volume, it is consistent with the fact that DNAPL will migrate vertically downward from the surface potential source areas (i.e., former production plant, settling barge, and WMUs D, G, and H).

The DNAPL source zone volume (in ft³) was converted to liters, and the DNAPL mass present in the zone was calculated assuming 100% PCE composition at a DNAPL saturation of 1% (0.01). The volume of PCE was multiplied by the density of PCE (1.623 kg/L) to estimate the total DNAPL mass in kg. The DNAPL composition is known to be principally PCE and TCE (see Section 4.8.3). PCE is present in the DNAPL in all depth zones and is the dominant component in all depth zones except the 130-ft zone. Therefore, the simplifying assumption of single-component DNAPL does not markedly affect the estimated mass. The application of a DNAPL saturation of 1% (0.01) throughout the DNAPL source zone was selected to reflect the expected variability in DNAPL saturation and is considered reasonably conservative.

A summary of the area and mass estimates for the confirmed and potential DNAPL zones are presented in Tables 4.38 and 4.39, respectively. The tables show that the estimated total confirmed DNAPL mass is approximately 6.4 million pounds (2.9 million kg). The greatest percentage of this total mass (58%) occurs within the 130-ft zone. Approximately 26% of the total mass occurs in the 15- and 25-ft zones.

NAPL Calculator Method

The DNAPL saturation values generated using NAPL CALC were used as inputs into the EarthVision geospatial model. Ordinary kriging was used to calculate a 3-D grid of NSAT values and to volumes of the DNAPL-impacted soil at various NSAT values (isoshells). The DNAPL volume for each zone grouping plane was calculated using EarthVision by slicing the 3-D model using the upper and lower limits of each horizontal zone grouping plane. The impacted soil volume within the zone grouping plane was split into zones (area between isoshells) based on NSAT values. The volume of each isoshell was multiplied by the median NSAT value for that volume and then multiplied by porosity (0.43) to provide the volume of DNAPL within that soil

volume. The DNAPL mass was calculated by multiplying the DNAPL volume by a density of 1.58 kg/L.

The DNAPL mass and volume estimates are presented in Table 3.4 in Appendix S. The best-case total estimated DNAPL mass is 606,270 pounds (275,000 kg) and the total volume is 46,000 gallons. Much like for the Kueper-Davies model, the greatest proportion (67%) of the DNAPL mass occurred in the 130-ft zone, and more than 90% was calculated to be in and below the 100-ft depth zone. However, the percentage of mass in the shallower zones (25-ft and 50-ft zones) predicted using NSAT values is much less than that obtained in the Kueper-Davies method.

By way of comparison, the groundwater treatment and containment system has removed approximately 150,000 pounds of VOCs in the period from January 2000 to June 2014. The groundwater extraction wells were installed to prevent plume migration and were placed on the edges of the areas of highest concentration (see Figure 2.2). The mass removed by the groundwater treatment and containment system is approximately 25% of the best-case DNAPL mass determined by the NAPL-CALC method. Given the location of the extraction wells (i.e., around the area of highest CVOC concentration) and that the influent concentrations are relatively stable, this percentage of DNAPL mass removal is high. This may indicate that the DNAPL mass estimated by the NAPL-CALC method is too low.

The total mass of DNAPL estimated using the NAPL-CALC method is approximately a factor of ten less than the mass estimated using the Kueper-Davies method. The much lower mass predicted by the NAPL-CALC method is due to the much smaller DNAPL source zones defined. As stated previously, the DNAPL source zones developed using NSAT values only do not reflect vertical migration for the known surface potential sources and did not consider zones where positive dye test were noted. Thus, the mass estimated by the NAPL-CALC method likely underestimates the residual DNAPL mass at the Site.

Summary and Discussion

The following table summarizes the mass of confirmed and potential DNAPL using the Kueper-Davies method and the confirmed DNAPL mass determined using the NAPL-CALC method.

	<i>Kueper-Davies Method</i>		<i>NAPL-CALC Method</i>	
	<i>(lbs)</i>	<i>(kg)</i>	<i>(lbs)</i>	<i>(kg)</i>
Confirmed Mass	6,451,059	2,926,151	606,270	275,000
Potential Mass	48,501,066	22,045,939	Not considered	Not considered
TOTAL DNAPL MASS	54,952,125	24,972,090	606,270	275,000

As stated in Section 1.5, the total solvent production at the Hooker/OCC facility was on the order of 457 million pounds. The above estimates of in situ DNAPL mass are small compared to the production volumes.

The results shown above for the mass of confirmed DNAPL differ by an order-of-magnitude. The reason for the differences in mass estimates is due to the assumptions in the two methods. The table below provides a comparison of the two methods used to estimate the total confirmed DNAPL mass in the subsurface:

<i>Kueper-Davies Method</i>	<i>NAPL-CALC Method</i>
<ul style="list-style-type: none"> • Qualitative method • Six chlorinated ethenes used in calculations • Assumed DNAPL density equivalent to PCE (1.623 kg/L) • Area of DNAPL drawn by hand • Assumed DNAPL source zone extended through entire depth zone • Assumed uniform DNAPL saturation (1%) for total volume to calculate mass 	<ul style="list-style-type: none"> • Quantitative method • Five chlorinated ethenes used in calculations • Assumed DNAPL density of 1.58 kg/L • Positive dye test results not considered • Volume of residual DNAPL calculated by kriging with high anisotropy, using medial residual saturation for each calculated isoshell • Does not consider potential DNAPL zones

Based on the above, it appears that the DNAPL source zones depicted by the NAPL-CALC method may underestimate the extent of DNAPL. The depicted zones do not show any vertical connection, which is inconsistent with known potential sources. Also, the NAPL-CALC method used only NSAT values and did not consider other lines of evidence such as positive dye tests. Also, the estimated DNAPL mass determined by the NAPL-CALC method seems too low when compared to the mass recovered to date by the groundwater treatment and containment system.

The Kueper-Davies method is more qualitative; but the delineation of DNAPL source zones is based on numerous lines of evidence. The assumption that the source zone extends through the entire depth zone may overestimate the source zone volume; but is consistent with vertical

migration from known potential sources. The potential overestimate in source zone volume was offset by assuming a uniform residual saturation of only 1%.

4.9 Groundwater/Surface Water Interface (Seeps)

A Seepage Meter Monitoring Program (SMMP) was conducted by CMA in the subtidal portion of the Waterway to determine the nature and extent of groundwater discharge into the Waterway during various phases of the tidal cycle.

Table 4.40 presents the analytical results from the groundwater discharge samples collected during the SMMP for the Site COCs. The analytical results have been corrected using the discharge factors calculated and presented by CMA in their Seepage Meter Monitoring Report. CMA's calculated discharge factors account for the dilution that occurs within the seepage meter funnels. The corrected concentrations were calculated as follows:

$$C_{corrected} = \frac{C_{lab}}{DF} \quad \text{Equation 4.1}$$

Where:

$C_{corrected}$ is the corrected concentration for sample i

C_{lab} is the concentration measured by analytical laboratory for sample i

DF is the discharge fraction calculated by CMA for sample i

The corrected analytical results are compared to the groundwater screening criteria listed in Table 4.8. Corrected concentrations that exceed their respective groundwater screening criteria are highlighted with a box.

Figure 4.39 presents the maximum corrected concentrations of PCE, TCE, and VC in the groundwater discharge samples collected from the seepage meters.

The following summarizes the groundwater discharge analytical results from the SMMP:

- i) Concentrations of VOCs exceeded the groundwater screening criteria at 5 of the 19 seepage meter locations where discharge samples were collected. VOC parameters that exceeded the groundwater screening criteria include PCE, TCE, and VC. The maximum exceedance occurred at seepage meter location SM-5, where VC exceeded the groundwater screening criteria by an EF of 8.

- ii) Concentrations of SVOCs did not exceed the groundwater screening criteria at any of the 6 seepage meter locations where discharge samples were collected for SVOC analysis.
- iii) Concentrations of metals exceeded the groundwater screening criteria at all 12 of the seepage meter locations where discharge samples were collected for metals analysis. Metals parameters that exceeded the groundwater screening criteria include arsenic, total chromium, copper, lead, mercury, nickel, and zinc. The greatest exceedance occurred at seepage meter location SM-2 where arsenic exceeded the groundwater screening criteria by an EF of 6585.
- iv) pH measurements did not exceed the Site criteria of 8.5 su at any of the 19 seepage meter locations where discharge samples were collected.

In addition to the SMMP data, the investigations to characterize the nature and extent of groundwater discharge to the Waterway have included:

- i) Subtidal groundwater samples collected within 3 ft of the Waterway mudline (i.e., within the sediment) and presented in Tables 4.17 through 4.23.
- ii) Seep samples collected from the intertidal zone of the embankment and presented in Table 4.41.
- iii) SPLP analytical data obtained from sediment samples collected within the intertidal zone of the embankment and presented in Table 4.42.

For the purposes of characterization, samples collected within 3 ft of the Waterway mudline have been conservatively considered to represent the nature of groundwater discharge. The point of compliance, however, is defined as the base of the biologically active zone. The biologically active zone within the Waterway does not generally extend deeper than 10 cm below the sediment surface. Therefore, cleanup levels will generally be applicable to a depth of 10 cm rather than the 3 ft conservatively considered for the characterization presented below.

4.9.1 Subtidal Groundwater Discharge

Figure 4.40 presents the areal distribution of chemical concentrations for Site VOCs and SVOCs in groundwater discharge. The sample locations are color coded on the figure to represent the maximum EF at that location.

As shown, the exceedances of groundwater screening criteria for Site VOCs and SVOCs are limited to PCE, TCE, and VC. PCE exceeds its groundwater screening criterion on the embankment near the south end of Dock 2 and adjacent to the N Landfill. TCE exceeds its

groundwater screening criterion in the center of Area 5106. The exceedances of VC generally extend from Area 5106 east to the other side of the shipping channel.

It should be noted that of the 18 locations where groundwater screening criteria are exceeded, only two of the samples (SM1 and SM5) were collected within the generally defined 10 cm biologically active zone.

Figure 4.41 presents the areal distribution of chemical concentrations for PCBs in groundwater discharge. The sample locations are color coded on the figure to represent the maximum EF at that location. As shown, PCBs exceed the groundwater screening criteria on the embankment near Dock 1 and adjacent to the N Landfill, and in Area 5106.

Figure 4.42 presents the areal distribution of chemical concentrations for metals COCs in groundwater discharge. The sample locations are color coded on the figure to represent the maximum EF at that location.

4.9.2 Embankment Seeps

During the Embankment Area Investigation (1998), the Supplemental Embankment Area Investigation (1998), the Rapid pH Assessment (2002/2004), and the 709/721 Alexander Investigation (2004), seep samples were collected along the embankment within the intertidal zone. Seep sample locations are shown on Figure 4.43.

Chemistry

The concentrations in seeps exceed the groundwater screening criteria for 15 of the Site COCs. Table 4.43 summarizes the nature and extent of the contaminants present in the seeps. Figures 4.44 through 4.48 present the areal distribution of the seep concentrations of the Site VOCs, SVOCs, pesticides, PCBs, and metals, respectively. The sample locations are color coded on the figures to represent the maximum EF at that location.

Seep concentrations exceed the groundwater screening criteria for Site COCs throughout the embankment. The exceedances appear to be more concentrated near Dock 2, the N Landfill, and the Navy dock. The majority of the exceedances of groundwater screening criteria are for metal COCs.

pH

Table 4.43 also summarizes the extent of the pH present in the seeps. Figure 4.49 presents the areal distribution of pH measurements in seeps at the Site. The sample locations are color coded on the figure to represent the pH measured at each seep location.

The pH data demonstrate that there are two main areas of the embankment where seeps exceeding the groundwater screening criterion for pH are discharging to the Waterway. These areas are located in the vicinity of Dock 2 and the Navy dock.

Geochemistry

The geochemical data for the embankment seeps and the Waterway collected during the Rapid pH Assessment (2002/2004) have been plotted on Piper diagrams and presented on Figures 4.50 through 4.55. Review of the Piper diagrams shows that the composition of the seeps and the Waterway are essentially the same, predominantly sodium, potassium, and chloride.

The geochemical data for the groundwater samples collected during the Rapid pH Assessment (2002/2004) have also been plotted on Piper diagrams and presented on Figures 4.56 through 4.58. Comparison of the Piper diagrams for seeps and groundwater in each segment reveals the following:

- i) **Segment 1:** the composition of both seep water and groundwater in Segment 1 is predominantly sodium, potassium, and chloride. However, the concentrations of these elements are higher in the groundwater than in the seeps. There is little variation in geochemical composition of groundwater at varying depths.
- ii) **Segment 2:** the composition of groundwater in the northern portion of Segment 2 (sample ESI-2-17) is somewhat different than in the southern portion (samples ESI-2-14, 3-25, and 3-50) and there is some variability by depth. Groundwater in the northern portion exhibits higher concentrations of sodium and potassium than in the south. In addition, carbonate and bicarbonate concentrations are higher at 15 ft BGS than deeper and chloride is significantly lower. With the exception of the 25-ft depth in the area of monitoring well nest 3, groundwater in the southern portion of Segment 2 closely resembles the groundwater in Segment 1 as well as the embankment seeps in Segment 2. The sample collected from monitoring well 3-25 exhibited low pH (5.9) as well as high calcium and lower chloride compared to the other samples. The low pH measured in the sample collected from well 3-25 is consistent with historic data from this location.
- iii) **Segments 3 and 4:** the composition of groundwater in Segments 3 and 4 is similar to that in the other segments with the exception of the 25-ft depth level in Segment 4. In this sample, ESI-4-7(25), carbonates and bicarbonates are higher than elsewhere and this is accompanied by lower chloride concentration. More variability between the composition of groundwater and seeps is observed in Segments 3 and 4 than in the other segments. This may be influenced by the distance of the groundwater sample

locations from the Waterway which was not a factor in Segments 1 or 2 where all groundwater samples were collected within approximately 70 ft of the top of the bank.

The evaluation of the embankment seep and groundwater data suggests that the embankment seeps consist primarily of groundwater discharging from the bank diluted by tidal effects. The variability in the geochemical composition of the groundwater in the different segments suggests different sources of impact on groundwater. The lower concentrations present in the seeps indicate that attenuation of the compounds present in groundwater is occurring before the groundwater discharges to the Waterway as seeps.

4.9.3 Milky Seeps

During the Embankment Area Investigation (1998) and the Rapid pH Assessment (2002/2004) samples were collected from so-called "milky seeps" in the sub-tidal zone of the embankment. Twelve (12) milky seeps, shown on Figure 4.43 as Milky Seep-1, Milky Seep-2, and MS-1 through MS-10, were sampled during these investigations. As shown, the milky seeps were all located in Segment 2 in the vicinity of Dock 2.

Milky seeps are visually characterized by one or more of the following appearances:

- i) The appearance of the overlying water, suspended white solids in the water column giving it the "milky" appearance
- ii) The presence of encrusted white solids overlying the seep discharge point
- iii) The strong upward discharge flow which is apparent by the column of milky water which extends vertically up into the Waterway over the seep discharge point

The elevations of the milky seep discharge points are at or below the lowest lower tide elevations. Therefore, the milky seeps are rarely exposed and direct sampling of discharging water is not possible. During the Rapid pH Assessment (2002/2004), to obtain representative samples of the discharging water, sediment core samples were collected and porewater was extracted at a soils laboratory. Samples of the porewaters extracted were then analyzed to characterize the quality of the milky seep discharge.

Chemistry

The concentrations of milky seeps exceed the groundwater screening criteria for 3 of the Site COCs. Figures 4.44 through 4.48 present the areal distribution of the milky seep concentrations (with the embankment seep concentrations) of the Site VOCs, SVOCs, pesticides, PCBs, and metals, respectively.

pH

Figure 4.49 presents the areal distribution of the milky seep concentrations (with the embankment seep concentrations) for pH. The sample locations are color coded on the figures to represent the pH measured at each seep location.

The milky seeps are included in Table 4.43, which summarizes the extent of the pH present in the embankment seeps.

Geochemistry

The geochemical data from the analyses of milky seep porewater samples collected during the Rapid pH Assessment (2002/2004) (MS-1 through MS-10) have been plotted on a Piper diagram and presented on Figure 4.59. Comparison of the milky seep Piper diagrams to the embankment seep Piper diagrams shows that the milky seep porewaters exhibit greater variability in their characteristics than the embankment seeps. This comparison also shows that the milky seep porewaters are generally more similar to Segment 2 groundwater prior to dilution from surface water than to either Waterway water or embankment seeps. As discussed in Section 4.9.2, the embankment seeps appear to represent bank storage where significant dilution from tidal exchange with surface water has occurred.

The milky seeps are the result of the high pH seep water, which is high in silicates, mixing with Waterway water, which is high in dissolved solids, specifically magnesium and calcium containing solids. The water that is emitted from seeps MS-1, and MS-3 to MS-10 has a pH higher than 9.5, soluble magnesium and calcium concentrations in the range of 1.4 to 203 mg/L, and dissolved silica concentrations one or more magnitudes higher than embankment seeps in the same area. Waterway water has a pH of 7.7, soluble calcium and magnesium concentrations of 435 and 1200 mg/L, respectively, and dissolved silica concentrations similar to those of the embankment seeps. When the elevated pH seep water mixes with the Waterway water as the seep discharges, the high pH of the seep water causes the soluble minerals in the Waterway water to precipitate, either as hydroxide or carbonate. In addition, as the pH of the milky seep discharge is lowered, silicates come out of solution and mix with the Waterway precipitates. The precipitates formed from the mixed waters are white and cause the milky appearance observed in the water column overlying the seep discharge point. The precipitates settle near the seep discharge point forming mounds of white solid materials. Hydroxides present in the solids are slowly converted to carbonates by excess carbon dioxide dissolved in the Waterway water. The magnesium and calcium carbonates and water form a solid crystalline mass that sets to form a hard solid material (encrustation) composed of calcium and magnesium from the Waterway water reacted with hydroxide, carbonate and silica from the seep.

As part of the pH Treatability Study performed for the Rapid pH Assessment (2002/2004), tests were performed to determine the effects that high pH groundwater has upon contact with the Waterway water. Titration of high pH groundwater into Waterway water at the CRA laboratory produced a milky precipitate similar to that observed in the Waterway. The precipitate was separated by filtration and analyzed to determine its composition. Analyses included metals and silica. This data was reported in the Treatability Study Report.

The quality of the porewater obtained from location MS-2 is not consistent with the other milky seep porewater samples. The sample from MS-2 exhibited a positive redox potential and significantly higher dissolved magnesium and calcium content than the other milky seep samples. This more closely resembles Waterway water than groundwater in Segment 2. No flow was apparent at MS-2 at the time of sampling. Samples were collected because sediments in the area exhibited an appearance suggesting that precipitates were present. Based on the analytical data from MS-2, this was not a milky seep at the time of sampling. The presence of apparent precipitate in the area of MS-2 is likely a result of historic or intermittent discharge in this area.

4.9.4 Leachate Discharge

The SPLP procedure involves pulverizing and mixing of a solid sample which creates a leachate which is "worst case." The embankment materials have been in place and undisturbed for many years. The actual leachability of the constituents contained in the embankment materials is expected to be lower than predicted by the SPLP leachate data.

The concentrations of SPLP leachate exceed the groundwater screening criteria for 14 of the Site COCs. Table 4.44 summarizes the nature and extent of the contaminants present in the SPLP leachate. Figures 4.60 through 4.64 present the areal distribution of the SPLP leachate concentrations of the Site VOCs, SVOCs, pesticides, PCBs, and metals, respectively.

SPLP leachate concentrations exceed the groundwater screening criteria for Site COCs throughout the embankment. The relative magnitudes and distribution of the exceedances, however, show that there are no identifiable areas which are distinct from the rest of the embankment.

4.10 Summary of Chemical Characterization

The characterization of the nature and extent of the subsurface presence of Site COCs and the environmental media impacted is summarized in the following subsections.

4.10.1 Unsaturated Soil

The nature and extent of contamination in unsaturated soil is summarized as follows:

- i) CVOCs, primarily as PCE, are present in unsaturated soils at concentrations exceeding the unsaturated soil screening criteria. This presence is limited primarily to the vicinity of WMU A, WMU G, WMU H, and the N Landfill.
- ii) Site SVOCs, primarily HCB and HCBd, are present in unsaturated soils at concentrations exceeding the soil screening criteria within the same general areas as CVOCs, as well as at several embankment locations.
- iii) PCBs are present in unsaturated soil at concentrations exceeding the soil screening criteria primarily near the former Navy-Todd Dump and the N Landfill.
- iv) Metals, primarily copper, but to a lesser degree arsenic, zinc, and nickel, are present at concentrations exceeding the soil screening criteria in the vicinity of WMU G, the former Caustic House, and the N Landfill.

4.10.2 Saturated Soil

The nature and extent of contamination in saturated soil is summarized as follows:

- i) CVOCs, primarily as PCE, TCE, and associated degradation products, are present in saturated soils at concentrations exceeding the saturated soil screening criteria. This presence is greatest below the Facility near WMU A, WMU G, and WMU R, as well as below the Waterway. CVOCs are present to a lesser degree along the embankment and in the vicinity of the N Landfill.
- ii) Site SVOCs, primarily as HCB, are present in saturated soils at concentrations exceeding the soil screening criteria within the same general areas as CVOCs.
- iii) Pesticides and PCBs are present in saturated soil at concentrations exceeding the soil screening criteria along the embankment primarily near the former Navy-Todd Dump and the N Landfill.
- iv) The greatest exceedance for metals was for mercury in the vicinity of the N Landfill. Other metals, primarily copper, total chromium, nickel, arsenic, and zinc, are present at concentrations exceeding the soil screening criteria in almost all samples analyzed for metals. The highest concentrations occur along the embankment and in the vicinity of the N Landfill.

4.10.3 Groundwater

The nature and extent of contamination in groundwater is summarized as follows:

- i) The presence of DNAPL has been confirmed in the vicinity of WMU-G and WMU-R within the 15-ft, 25-ft, and 130-ft zones:
- ii) CVOCs are present in groundwater at concentrations above the groundwater screening criteria:
 - 25-ft zone – The areas of highest concentrations are located near WMU A and WMU G
 - 50-ft zone – The extent of PCE and TCE is similar to the 25-ft zone, but the extent of VC increases significantly within the 50-ft zone area beyond the limits of PCE and TCE toward the eastern side of the Waterway
 - 75-ft zone – The highest CVOC concentrations extend eastward under the Waterway, with lower concentrations extending further north
 - 100-ft zone – The area of highest concentration is somewhat reduced, but has migrated further north
 - 130-ft zone – The area of highest concentration are somewhat reduced, but have migrated north and east when compared to the 100-ft zone
 - 160-ft zone – CVOC concentrations in the 160-ft zone are reduced compared to the 130-ft zone, but the plume continues to migrate northward
- iii) Site SVOCs, primarily HCB and HCBd, are present along the embankment and beneath the Waterway at depths up to 111 ft BGS upland and 164 ft BML below the Waterway.
- iv) PCBs are present in groundwater primarily along the embankment in the vicinity of the Navy-Todd Dump and N Landfill and below the Waterway.
- v) Metals, primarily arsenic, copper, and nickel, are present at concentrations exceeding the groundwater screening criteria. The highest concentrations occur in the vicinity of the Salt Pad, along the embankment, and beneath the Waterway.
- vi) Elevated pH groundwater is present above the groundwater screening criteria:
 - 25-ft zone – elevated pH was measured across the Site, with the highest values (>13 su) detected along the eastern portion of the Site beneath the former plant production areas
 - 50-ft zone – the extent of the highest pH values increases in size relative to the 25-ft zone and is located more to the north toward the Salt Pad

- 75-ft zone – the extent of the pH plume within the 75-ft zone is reduced relative to the 50-ft zone, but has migrated east with the highest groundwater pH (>12 su) located in the vicinity of the former caustic tanks and the south end of Dock 1
 - 100-ft zone – the pH plume has migrated north and east, with the highest pH near the north end of Dock 1, but is limited to beneath the Facility and Waterway
 - 130-ft zone – the pH plume continues to migrate northeast
 - 160-ft zone – the area of high pH values is much smaller in the 160-ft zone, with the highest readings diminishing
- vii) The seep study performed in the Waterway confirmed that seepage of impacted groundwater was occurring to some extent into the Waterway.

4.10.4 Sediment

The nature and extent of contamination in sediment is summarized as follows:

- i) PCE is present in sediment at concentrations exceeding the sediment cleanup level. This presence is limited primarily to Area 5106 and adjacent to the N Landfill
- ii) Site SVOCs, primarily as HCB and HCBd, are present in sediment at concentrations exceeding the sediment cleanup levels within the same general areas as PCE, as well as along the embankment near Dock 1
- iii) Pesticides, primarily 4,4'-DDD, are present in sediment along the embankment near Dock 1 and the N Landfill
- iv) PCBs are present in sediment along the embankment at concentrations exceeding the sediment cleanup level primarily near Pier 25, the former Navy-Todd Dump, and the N Landfill
- v) Metals, primarily lead, are present in sediment at concentrations exceeding the sediment cleanup levels along the embankment

4.10.5 Soil Vapor/Indoor Air

The most frequently attributed sources for IA screening level exceedances were as follows:

- i) **Indoor Sources:** 1,2,4-trimethylbenzene, 1,4-dichlorobenzene, benzene, chloroform, ethylbenzene, naphthalene, TCE, PCE, o-xylene, and styrene
- ii) **Outdoor Sources:** benzene, carbon tetrachloride, chloroform, and ethylbenzene.
- iii) **Sub-slab source:** TCE

Section 5.0 Contaminant Fate and Transport

5.1 Introduction

Site investigations have confirmed that there are four primary groundwater plumes: the ADP, pH plume, CVOCs, and metals. Other COCs at the Site include SVOCs, PCBs, and dioxins/furans. The distributions of these COCs have been defined through the Site monitoring well network as presented in Section 4.0. An understanding of the physical and chemical fate and transport processes is important for describing the behavior of the COCs at the Site. The following section describes the subsurface fate and mobility of the Site-related COCs and is divided into the following sections:

- 5.2 Potential sources of contamination – which describes the potential sources of COCs at the Site
- 5.3 Overview of routes of migration – which presents an overview of the COC migration routes
- 5.4 Contaminant Transport processes – which describes the various physical, chemical, and processes biological that affect the fate and transport of COCs
- 5.5 Degradation Processes – which describes the various processes that lead to the destruction of COC mass in the groundwater
- 5.6 Conceptual Site Model (CSM) – which presents a summary of the Site conditions and describes COC transport at the Site

5.2 Potential Sources of Contamination

Manufacturing operations at the Site generated wastes that were managed on Site. Waste management practices included: wastewater treatment (settling) ponds, settling barges, landfills, disposal pits, and waste piles. In total, seventeen (17) WMUs were historically located at the Site, in addition to the Navy Todd Dump. Detailed discussions of the WMUs and the chemicals associated with them are presented in Section 2.2.2. WMUs that are significant potential sources of COCs are identified below.

Environmental investigations at the Site began in the 1980s and have shown that the following parameters are the principal COCs:

- Chlorinated volatile organic compounds (CVOCs)
- Fuel-related volatile organic compounds (fuel-related VOCs)
- Caustic (sodium hydroxide)

- Salt (NaCl)
- Metals (arsenic, chromium, copper, lead, mercury, nickel, thallium, zinc)
- Semi-volatile organic compounds (SVOCs) (HCB and HCBd, which are by-products of solvent production)
- PCBs
- Dioxins/furans

Several of the principal COCs were used, produced, and stored in many locations across the Site. In addition, wastes generated in the production processes were managed on Site. Key potential "source areas" where the vast majority of releases occurred are described below.

The metals listed above as principal COCs were used in former OCC operations at the Site. Geochemical conditions created by the release of caustic and brine (dissolved NaCl), and reducing conditions in groundwater, have resulted in the mobilization of some of these metals in the subsurface. Some of the metals listed above as principal COCs were used in the ship building, maintenance, and dismantling operations at the Site. Other metals were used and produced on Site (e.g., aluminum oxide, sodium aluminate, calcium chloride). However, these metals are not COCs.

The principal COCs listed above do not represent every chemical detected in the subsurface at the Site. However, examination of these principal COCs provides the range of potential source locations, migration pathways, and ultimate distributions necessary to illustrate the CSM for the Site presented in Section 5.4.

5.2.1 VOC Potential Sources

Chlorinated solvents (TCE and PCE) were produced at the Site from 1947 to 1973. The former solvent production plant and associated WMUs are shown on Figure 5.1. A single area around the former solvent production plant and WMUs is shown on Figure 5.1 as the potential "CVOC Source Area". The TCE and PCE impacts in soil and groundwater appear to be primarily associated with the former solvent production plant (S1), former settling ponds (WMU A [S3], WMU G [S4], and WMU H [S5]), former settling barge (WMU F [S2]), and Area 5106. Lime sludge and solvent residue from the chlorinated solvents process were sent to settling ponds and the settling barge over time, and in the first year of operation were discharged to the Waterway through the direct discharge line shown on Figure 1.3.

The chlorinated solvents were present in the solvent residue released to the environment over time, and once released would behave as a dense non-aqueous phase liquid (DNAPL). The DNAPL potential source locations correspond to the WMUs within the potential CVOC Source

Area. Areas of confirmed DNAPL have been identified below the groundwater table through hydrophobic dye testing and evaluation of soil and groundwater concentrations. Suspected DNAPL has been identified in areas surrounding the confirmed DNAPL. The DNAPL zones are on-going sources of CVOCs to groundwater. Considering the wide distribution of the DNAPL areas and the several decades that have passed since releases occurred, the DNAPL likely exists as residual ganglia that are largely stable and no longer mobile.

CVOC and fuel-related VOC groundwater contamination is present on the 709 and 721 Alexander Avenue properties. These properties will be further investigated under MTCA Agreed Order No. DE 9835 effective October 3, 2013, being implemented by Mariana Properties, Inc. and the POT under Ecology oversight. Response actions conducted under the MTCA Agreed Order and the Occidental Site AOC, respectively, will be coordinated.

5.2.2 Caustic Potential Sources

The elevated pH present in groundwater at the Site is primarily due to the release of sodium hydroxide (caustic soda) produced at the Site. Historical locations of the production and handling of caustic soda are shown on Figure 5.2. The principal potential source area appears to be the Caustic House (S8). A single area around the locations of the Caustic House and caustic soda storage/handling is shown on Figure 5.2 as the potential "Caustic Source Area".

The sodium hydroxide released to the subsurface resulted in elevated soil alkalinity. Some of the hydroxide ions subsequently reacted with silicon dioxide (found in sand) to release silicate ions, so that a portion of the alkalinity currently present in the soil and groundwater is attributable to those ions. Soil alkalinity is highest in the potential Caustic Source Area, and the soil acts as a continuing source of ions that elevate the pH of the groundwater. As water with lower pH infiltrates through soil in this area, the hydroxide and silicate ions currently in the soil solution will be flushed out, but others will be released from the soil to replace them. Eventually (albeit only after a long time if no acids are injected into the ground), the vast majority of the hydroxide and silicate ions will be flushed out of the system, although a small fraction of the silicate will be converted back to silicon dioxide solids.

5.2.3 Salt Potential Sources

Salt was used as a feedstock in the production of chlorine, chlorinated solvents, and caustic soda. Salt was delivered to the Site by ship and stored in open piles on the asphalt Salt Pad. Figure 5.3 shows the location of the Salt Pad. Uncovered salt piles were maintained on this pad from the early 1960s until operations ceased. Water was sprayed on the salt piles to make brine. The asphalt pad was diked and sloped to a sump; however, cracks in the asphalt pad or leaks in the sump likely led to the salt impacts beneath the Salt Pad.

The produced brine was collected in the sump and pumped for purification and processing before use in the chemical production processes. Brine sludge, or residue, resulted from impurities in the brine after it was filtered and may have been kept in storage tanks on the southern portion of the Site (the southern portion of S10 and S11 as shown on Figure 5.2) prior to disposal. Brine sludge is not known to have been disposed on Site as it was reportedly taken to an industrial landfill, although some may have been disposed in the N Landfill.

5.2.4 Metals Potential Sources

Figure 5.4 shows the N Landfill and the Navy Todd Dump located adjacent to the embankment of the Waterway. The N Landfill was used between 1929 and 1971 and received the following waste materials: lead, corrosives, chlorinated organics, and non-burnable wastes. N Landfill investigations have shown that the waste material contains metals (primarily copper and lead). The Navy Todd Dump was created in approximately 1945, as a result of World War II ship construction and waste disposal/incineration activities. Navy Today Dump investigations have shown that the waste material contains metals (primarily cadmium, chromium, copper, mercury, nickel, and zinc). The N Landfill and Navy Todd Dump are considered a metals potential source.

Figure 5.4 also shows the approximate boundary of metals contaminated embankment contaminated fill areas. In addition to the N Landfill and Navy Todd Dump, metals contaminated waste material, derived from shipbuilding and dismantling activities during and after World War II and chemical production using electrolysis methods, were disposed along the embankment of the Waterway.

The vast majority of metals in the groundwater are present across the areal extent of the Site as a result of geochemical conditions (high pH and ionic strength) created by the release of other COCs. The geochemical conditions mobilize (dissolve) metals at concentrations above what would naturally be observed in groundwater. This process is described in Section 5.4.5.3.

5.2.5 SVOC Potential Sources

Potential sources of SVOCs are shown on Figure 5.5. The two SVOCs detected most often at concentrations above their respective criteria are HCB and HCBd. These compounds are by-products of the production of chlorinated solvents, and are found (to some degree) in areas where chlorinated solvents were manufactured, or where the waste products of this process were handled and disposed.

About 36,000 cubic yards (cy) of VOC and SVOC contaminated sediment were removed from Area 5106 in 2002-2003 (EPA, 2002). Post-dredging characterization of the Area 5106 footprint identified SVOC (mostly HCB and HCBd) and VOC contamination in subsurface sediment and groundwater. Concentrations of HCB and HCBd above Site screening levels have been found (mixed with VOCs) in upland soil beneath and adjacent to potential source areas.

5.2.6 PCB and Dioxins/Furans Potential Sources

Potential sources of the PCBs in the soils and sediments at the Site would be spills from equipment such as transformers and capacitors filled with PCBs. Another significant potential source of PCBs at the Site would be from the US Navy shipbuilding operations performed at the Site. The World War II shipyard purchased and used many transformers, according to purchase and inventory records obtained from the National Archives. World War II site diagrams from the National Archives depict transformer houses located immediately adjacent to the Waterway bulkhead line and along the outfitting piers at 401 Alexander Avenue in and near the Site.

The Navy used PCB-containing materials such as hydraulic fluids, electrical equipment fluids and paints in their shipbuilding operations. Waste materials, including the PCB-containing materials, from the shipbuilding operations performed at the Site were disposed at the Navy-Todd Dump and were burned in the Navy's on-site incinerator.

Records from the Port of Tacoma confirm the presence of PCBs in transformers at 401 Alexander Avenue, and provide evidence of PCB releases from those transformers. The reports generated during the sampling of the storm water catch basins at 401 Alexander Avenue provide data regarding the contamination resulting from flows discharging to the Site. Contaminants detected included PCBs, lead, arsenic, mercury, copper, and zinc (Letter from Port of Tacoma to Ecology dated November 19, 1993, containing sampling reports and laboratory data from Harding Lawson Associates). According to historical site data, PCBs were detected in the 401 Alexander Avenue storm sewers after the sewer system was cleaned twice. The sampling was performed to assess the cleaning process. While pre-cleaning data (if any) have not been located, the post-cleaning data showed PCB concentrations as high as 2,050 ppb remained in the sewers even after the second cleaning. The upland storm sewer catch basins drained the transformer bank area at 401 Alexander Avenue, and fed the sewer line that empties onto the shoreline sampling area where PCBs were detected by the Hylebos Cleanup Committee at 24,000 ppb (Station 5203I). The data, maps, diagrams, and photographs summarized in Appendix B demonstrate that past operations related to ship construction, maintenance, and demolition, as well as transformer releases, were significant contributors of PCBs to the Site.

Figure 5.6 presents the suspected potential sources of PCBs at the Site.

Dioxins (the common name for polychlorinated dibenzo-para-dioxins) and furans (polychlorinated dibenzofurans) are two closely related groups of chemical byproducts that are found at background levels in most industrial areas.

Both groups consist of chlorinated compounds that have a range of congeners (members of the same structural group with different configurations). The congeners differ in terms of the number, position and combination of chlorine atoms on the molecule. There are 75 possible dioxins (PCDD) and 135 possible furans (PCDF). They differ by the position and number of chlorine atoms attached to the two benzene rings. The different forms are referred to as "congeners." The dioxin and furan congeners thought to be most toxic to humans are the seven dioxins and ten furans with a particular pattern of chlorines known as the 2,3,7,8-substituted dioxins and furans.

Dioxins and furans are not synthesized or formulated for industrial or domestic use. They are formed from the thermal breakdown and molecular rearrangement of chlorinated precursor compounds. Almost any chlorinated compound has the potential to form dioxin if subjected to high temperatures (such as in a fire). Typically, incidental formation of dioxins requires a source of carbon, chlorine, and oxygen, and a temperature of at least 300°C. Some precursor compounds include PCBs, chlorinated phenols, and chlorinated benzenes. Combustion is the primary source of dioxin/furan formation, and Cleverly et al., (1997) reported that combustion sources will typically emit all 2, 3, 7, 8-substituted dioxins/furans, although the relative congener concentrations vary.

A potential source of dioxins/furans was the incinerator installed and used at the Site for waste disposal by the United States Navy and Todd Shipyards during World War II. Site maps/diagrams from the National Archives prepared during World War II depict the location of the incinerator on the "North Ten Acres" of 605 Alexander Avenue in a scrap disposal and salvage yard, which is the Navy-Todd Dump.

A photograph of that location dated August 29, 1945, indicates that some of the waste materials in the Navy-Todd Dump were burned in place. The composition of wastes incinerated at the Site and located in the Navy-Todd Dump are revealed, in part, by two indexes from the National Archives containing specifications for Navy ship components prepared by the U.S. Bureau of Ships for the Navy during World War II. Those indexes identify numerous components containing the hazardous substances that have been detected at the Site, including transformer oil and other PCB-containing materials. The burning of such wastes in the incinerator and along the embankment at the Navy-Todd Dump, including PCB-containing wastes and fluids, would have been a prime potential source for dioxins/furans detected at the

Site. Various other forms of combustion and smelting processes (e.g., welding), occurred at the World War II shipyard, which also may have produced dioxins/furans.

Another potential source of dioxins/furans is spent graphite anodes used at the former chemical production facility, and disposed on site (European Commission, 2001). Other potential sources of dioxins/furans at the Site would have included overheated electrical equipment (such as transformers and capacitors) filled with PCBs. The World War II shipyard purchased and used many transformers located adjacent to the Waterway, according to records obtained from the National Archives. Figure 5.6 presents the suspected potential sources of dioxins/furans at the Site.

5.2.7 Anthropogenic Density Plume Potential Sources

A plume of elevated groundwater density, termed the "Anthropogenic Density Plume" (ADP), exists beneath the Site due to releases of high density materials from historical operations. The potential sources for the ADP consist of:

- Chlorinated solvents/solvent residue, as well as lime sludge, were sent to WMUs A, F, G, H, and C shown on Figure 5.1. Lime sludge (calcium chloride) is miscible in water, and a calcium chloride solution with water can have a specific gravity of approximately 1.3 (at 15 degrees Celsius). The chlorinated solvents/solvent residue consisted mainly of TCE and PCE each having a specific gravity in pure form of 1.46 and 1.62, respectively. Lime sludge and solvent residue were sent to in WMU A, WMU F, WMU G, and WMU H, while lime/calcium chloride was placed in WMU C, and represent potential source locations for the ADP.
- Caustic soda, with a specific gravity of approximately 1.3 to 1.5, is another component of the ADP. The potential Caustic Source Area shown on Figure 5.2 represents a potential source location for the ADP.
- Brine (sodium chloride) was created at the Salt Pad and had a specific gravity of approximately 1.2 and is a further component of the ADP. The Salt Pad, shown on Figure 5.3, represents a potential source location for the ADP.

The effects of the ADP on contaminant transport at the Site are described in Sections 5.4.

5.3 Overview of Routes of Migration

Site investigations have confirmed that there are four primary impacted groundwater plumes: the ADP, pH plume, CVOCs, and metals. These plumes have been defined through the Site monitoring well network. Other COCs have not developed large, distinct groundwater plumes.

This is likely due to a combination of factors, such as low mobility in groundwater, limited contaminant mass, and attenuation processes.

Contaminants may migrate from the potential source areas noted in Section 5.2 via several routes of migration:

- Density-dependent flow
- Migration of dissolved-phase with the ADP
- Displacement migration at the perimeter of the ADP
- Migration of dissolved-phase with fresh groundwater
- Volatilization to indoor and ambient air
- Migration with surface runoff

These potential routes of migration are defined below.

The potential sources of COCs originated at the surface or near surface in various locations around the Site. The organic COCs are from liquids disposed on or released at the surface. The ADP is derived from the dissolution of salt, caustic, and lime sludge, the solubilities of which were enhanced by high-pH source materials.

When a DNAPL is released, it will migrate downward through the unsaturated zone primarily by gravity-driven, density-dependent flow. Depending on the volumes released, the DNAPL can be trapped by capillary forces and result in residual DNAPL. If sufficient volume is released, migration to the water table and beyond can occur. Based on data collected, DNAPL at the Site has penetrated over 100 ft into the subsurface.

The ADP behaves similarly to a DNAPL, in that the liquid has a higher density than natural fresh water and salt water, and therefore will migrate downward by density-dependent flow. Also, like a DNAPL, the density plume will not mix readily with the groundwater due to the density difference between the groundwater and the ADP.

Groundwater flowing past DNAPL can dissolve a quantity of the COCs and transport them away from the release locations. The shallow groundwater has the potential to discharge to the Waterway, and the deeper groundwater may discharge to Commencement Bay. This would result in the discharge of dissolved COCs to the adjacent waterways.

Precipitation, as runoff, could have carried COCs released to the surface into the storm sewers and/or into adjacent water bodies. The waste liquids would have also penetrated into the soil and migrated downward, contacting the groundwater and soil beneath the Site.

Once away from the potential source areas, the VOCs dissolved in the Shallow groundwater may volatilize into the soil gas and potentially into the air near the Site.

The metals in the soil and groundwater at the Site originate not only from Site-related processes, but are also occurring naturally in the soil to some extent. The metals can be mobilized into the groundwater from contact with liquid waste (e.g., high-pH water) and/or infiltrating precipitation. The metals would then migrate downward to the water table and would be transported by the groundwater to potentially discharge to the Waterway adjacent to the Site. The high density flow would also transport the metals deeper beneath the Site potentially discharging to Commencement Bay.

The primary groundwater plumes have migrated from the potential sources noted in Section 5.2 via several transport mechanisms that are summarized below.

5.4 Contaminant Transport Processes

5.4.1 DNAPL Migration

The subsurface migration of DNAPL is a complex process that is strongly influenced by geology, properties of the DNAPL, and release location. DNAPL has a high density and tends to migrate vertically downward, similar to the ADP. The DNAPL density is greater than that of the ADP and can displace the high density water within the ADP. Unlike the ADP which is totally miscible in water, DNAPL is essentially immiscible. During transport, some DNAPL is immobilized in pore spaces in the form of disconnected blobs and ganglia referred to as residual DNAPL. In this way, the volume of DNAPL is gradually distributed along the flow path, and the mass of DNAPL subject to active migration is depleted. The DNAPL will continue to migrate until the DNAPL mass becomes immobile, or stable (i.e., remains as residual bound in pore spaces, or "pools" above a low permeability layer).

The distribution of DNAPL in the subsurface is shown on Figure 5.7. This figure shows the general distribution of the confirmed and suspected DNAPL beneath the Site. DNAPL is observed beneath the former solvent production plant, WMU A, and WMU G. Historical DNAPL release rates and mass would likely have been highly variable, resulting in the separation between confirmed DNAPL at the upper and lower depths within the Shallow Aquifer shown on Figure 5.7. During vertical migration of the DNAPL, significant lateral migration has occurred, likely due to the DNAPL encountering low permeability lenses within the deltaic deposits, and,

in some areas, the glacial deposits. DNAPL is also spread to the north at depth, apparently following the northward dipping slope of the top surface of the zone of confining effect in the deeper deltaic deposits. Given the significant timeframe since the initial releases occurred, the tortuous migration of the DNAPL through the heterogeneous deltaic deposits and lower permeability of the zone of confining effect, the current DNAPL distribution is likely stable.

Residual DNAPL will result in a continuing source of CVOCs. Additionally, diffusion into lower permeability (i.e., silt and clay) lenses adjacent to DNAPL will accumulate CVOC mass. The silt and clay then act as secondary sources of aqueous contamination through back-diffusion once groundwater concentrations in higher permeability zones decline. The process of back-diffusion from lower permeability lenses into higher permeability zones, where the bulk of the active groundwater flow occurs, will significantly prolong groundwater remediation timeframes.

5.4.2 Density-Dependent Flow

The ADP has evolved from the release locations at ground surface by migrating vertically downwards through gravity-driven density-dependent flow. Figure 5.8 shows the current distribution of total CVOCs in groundwater at the Site. The CVOC potential sources were in close proximity to ADP potential sources (e.g., settling barge, settling ponds, Salt Pad) and as a result, dissolved CVOCs have comeingled and migrated with the ADP.

While migrating downwards, the ADP displaces the fresh or salt water initially present beneath the release locations. As the ADP displaced fresh groundwater or salt water in the subsurface, comeingled CVOCs within the ADP were transported by the ADP as it migrated laterally and vertically.

Mixing between the ADP and the groundwater is limited due to the density differences between the groundwater and the ADP. Therefore CVOCs already dissolved in groundwater at the periphery of the ADP would have been forced to migrate laterally and vertically in advance of the ADP migration. The lateral ADP migration is the reason for the presence of CVOCs beneath the Waterway east of the CVOC potential source areas. This eastward migration with the ADP is contrary to the observed general north to northwest groundwater flow direction.

5.4.3 Dissolution

The solubility of a chemical is the maximum amount of the chemical that will dissolve in water at a specific temperature. Highly soluble contaminants are distributed more rapidly in the environment. The pure phase solubility values of the Site organic COCs are presented in Table 5.1. In mixed contaminant plumes, such as the one at the Site, the presence of multiple

organic compounds in the groundwater can affect the solubility values of the organic compounds. For most compounds, this results in a lower solubility value than pure-phase solubility. It is also possible that the presence of some compounds can enhance the solubility of other compounds. The probability of this co-solvency effect occurring over much of the Site is low, however, because it requires concentrations of the second solvent to be above 10,000,000 µg/L, which is above the solubility of the Site COCs. In the absence of significant ionizable organics, solute-solute interactions of non-polar organics are negligible (USEPA, 1991). Therefore, co-solvency is not considered an important transport process at the Site.

There is a potential that lower chlorinated dioxins, furans, and PCBs will be more soluble than the higher chlorinated congeners creating a chromatography effect where solvent mobilization would result in lower chlorinated congeners migrating while the higher chlorinated congeners would remain in place. This effect could also contribute to weathering, where the lower chlorinated congeners by virtue of their higher solubility are more likely to be degraded than the higher chlorinated congeners. The chromatographic effect is not expected to be pronounced in samples that are spaced close together.

Solubility values for metals are not presented due to the many variables in the environment that dictate the solubility of a metal. For example, the pH of groundwater has a strong influence on the solubility of most metals.

5.4.4 Advection/Dispersion

Advection refers to the transport of contaminants along with the bulk flow of the groundwater. Advection spreads the contamination out from a source area along the groundwater flow path.

Dispersion refers to the contaminant spreading out due to the tortuous flow of groundwater in porous or fractured media, reducing the concentration (but not the mass) of contaminants in solution. Dispersion results from the micro-scale variations in speed of groundwater flow through a porous or fractured medium depending on the flow path of the groundwater. The variations are due to groundwater moving faster in larger pores relative to smaller ones, groundwater moving faster in the center of pores relative to the sides, and the variability in tortuosity of the groundwater flow as the groundwater moves through different pores. The spreading of the contaminants can be in any direction from the same direction as the bulk groundwater flow (longitudinal dispersion), to perpendicular to groundwater flow (transverse dispersion).

5.4.5 Sorption

Contaminants in the environment are distributed among different matrices (i.e., groundwater, soil) due to various processes that may be generally quantified by partition coefficients. A partition coefficient is the ratio of the equilibrium concentration of a contaminant in one environmental matrix with respect to another matrix, such as the equilibrium partitioning of contaminant concentrations between soil and groundwater.

The simplest and most common method of estimating the adsorption onto soil of a contaminant is based on the distribution coefficient (K_d). K_d relates the equilibrium partitioning of a contaminant between the solid and aqueous phases. This soil-water distribution coefficient is the ratio of a contaminant's sorbed concentration to the dissolved concentration at equilibrium. For organic contaminants, K_d can be estimated by multiplying the K_{oc} by the fraction of organic carbon content (f_{oc}) in soil.

The soil-water organic carbon partition coefficient (K_{oc}) is the ratio of the mass of a contaminant that is adsorbed onto soil per unit mass of organic carbon in soil per the equilibrium chemical concentration. The soil organic carbon partition coefficient describes the degree that a contaminant tends to adsorb to soil or sediment. K_{oc} values reflect the mobility of organic contaminants in groundwater where high K_{oc} values indicate that a contaminant has a greater tendency to adsorb onto soil, and thus, is less mobile. Low K_{oc} values indicate that a contaminant has less of a tendency to adsorb onto soil, and thus, is more mobile.

5.4.5.1 Effect of Site Geochemical Conditions on Sorption of Organics

A literature review was conducted on the effect of Site geochemical conditions, particularly pH and ORP, on the mobility of organic COCs, particularly chlorinated ethenes. Based on the literature review, it was determined that Site conditions of high pH, low ORP, and high ionic strength will not have a direct effect on the mobility of non-polar organic compounds. These compounds do not readily dissolve in water, as they exist as electrically neutral species, and do not have a charge or valence state that will be altered by changes in the pH, ORP, or ionic strength of the solution. Sorption of non-polar molecules such as chlorinated ethenes to organic matter is not affected by changes in Eh or pH.

The only effect that Eh, pH, or ionic strength may have on the sorption/retardation of non-polar organic compounds would be indirect. The effect would be as a result of changes that may occur to the organic matter in the soil and groundwater. Organic matter provides the bulk of these attachment (sorption) sites in the subsurface (Stumm and Morgan, 1996; Fetter, 1999). Partitioning in this way into the organic matter in soil is controlled by the distribution coefficient (K_d), which is related to its octanol-water partitioning coefficient (K_{ow}). The more

chlorine atoms a chlorinated ethene has, the more likely it is to sorb to non-polar areas of organic matter (Site, 2001). Sorption of chlorinated ethenes to soil particles is dominated by the type and amount of organic matter (Allen-King et al., 1997). Changes in pH will affect pH-dependent exchange sites and surface complex formation, but will not affect sorption to hydrophobic sites. Under hyperalkaline conditions such as those found at the Site, the high concentration of hydroxide ions increases the number of negatively charged exchange sites available on minerals and organic matter surfaces (Stumm and Morgan, 1996). In column studies using a fine-medium sand with 1.04% organic matter, Sahoo and Smith (1997) found that TCE sorption decreased by 7% at a pH of 10 ($K_d = 0.68 \pm 0.022$ L/kg) relative to sorption at a pH of 7. They postulated that this small decrease was likely due to swelling of the organic matter due to like-charge repulsion within the organic matter, which would increase under high pH conditions. This may have increased its polarity and reduced its affinity for TCE. Pavlostathis and Jaglal (1991) found the effect of pH to be negligible when examining the desorption behavior of TCE in a contaminated silty clay (TOC = 0.13%) at pH values of 3, 5, 7, 9, 11, and 13.

Redox potential does not affect the sorption of non-polar organic molecules for the same reasons that pH does not affect their sorption (Site, 2001). Some degradation of organic matter typically occurs under reducing conditions, but it is unlikely that the soil organic matter will be affected such that a significant portion of relevant sorption sites would become unavailable (Appelo and Postma, 2005).

Site data indicate that soil organic matter is not affected significantly by variable geochemical conditions. Measured total organic carbon (TOC) content of aquifer materials on Site was compared to the corresponding pH and Eh values measured in those samples. There is no indication of a correlation between changing redox and pH conditions at the site and concentrations of TOC in soil.

For the organic COCs, Site-specific K_d values for soil values were calculated using the K_{oc} values established for the Site COCs, multiplied by the average fraction of organic carbon content in soil (TOC = 0.057 g/g) measured during the investigations conducted at the Site. K_{oc} values are published by the USEPA and vary depending on the literature source. Typically, K_{oc} values range from 1 to 10^7 L/kg. Table 5.1 presents the K_{oc} values established for the Site COCs from USEPA.

Dioxins, furans, and PCBs are very insoluble in water and therefore will be very strongly bound to the organic carbon in soils and sediments. The presence of high concentrations (1%) of secondary solvents can increase the solubility of dioxins and furans, although the relatively low concentrations of solvents detected in the Site groundwater will not significantly increase dissolution of dioxins or furans from soils or sediments.

5.4.5.2 Effect of Site Geochemical Conditions on Sorption of Metals

For metals partitioning, various competing conditions such as ion exchange, oxidation—reduction (redox) reactions, pH, complexation, and precipitation may complicate metals migration in groundwater. Precipitation of mineral phases can be an important attenuation mechanism for metals in some cases. However it is more likely that sorption reactions, which happen quickly, will be more important than precipitation reactions, which tend to happen more slowly.

Metals, which are generally positively-charged in solution, adsorb to minerals with increasing affinity as pH increases and mineral surface charge becomes more negative. However, at pH values greater than 9, aqueous hydroxo species (i.e., OH^-) can strip cations from the mineral surface causing increased metals concentrations in solution. Similarly, anions will adsorb to mineral surfaces when there is a positive charge on the mineral, and will be increasingly found in solution at high pH values because of the increasingly negative charge on the mineral surface.

Metals may exist in solution as free ions, but more commonly they form various oxides, mobile organic/inorganic ligands, or are associated with mobile organic or mineral colloids. These processes are susceptible to changes in pH and Eh. The formation of precipitates may depend on the presence of other species, such as sulfate.

The metals of concern at the Site include arsenic, chromium, copper, lead, mercury, nickel, thallium, and zinc. The following discusses the solubility of these metals based on published literature within the context of the Site environmental conditions.

Arsenic

In the environment, arsenic can be present in several oxidation states: arsine (-3); arsenic metal (0); and arsenite (+3) and arsenate (+5), which are the trivalent and pentavalent states that form stable compounds. The mobility of arsenic in the environment depends strongly on the pH of groundwater and redox conditions. The alkali metal arsenites and arsenates are very soluble in water over a wide pH range, while the other arsenites and arsenates are soluble only under acidic conditions. Arsenic is capable of dissolution in pH ranges from 2.0 to 11.0, under suitable physical and chemical conditions. Arsenic can also be very sensitive to solubilization at typical groundwater pH values, which range from 6.5 to 8.5. Arsenic is also mobile under both oxidizing and reducing redox conditions. Arsenic is an amphoteric metal and is soluble under the high pH conditions as well as under acidic conditions. It is less soluble at a neutral pH. Arsenic sorbs to the surface of metal oxide (e.g., iron hydroxide) coatings on soil grains and therefore the mobility of arsenic can also be affected by changes in the geochemical conditions that affect the solubility of iron oxides. Under oxidizing conditions, iron oxides will form solids

and provide sorption sites for arsenates, but under reducing conditions, the iron oxides will dissolve, reducing the number of available sorption sites for arsenic species, thereby releasing arsenic into solution.

Redox conditions at the Site are generally reducing and therefore iron oxides will tend to dissolve, increasing the amount of arsenic in solution. The pH at the Site ranges from neutral to above 13, which will also result in higher arsenic mobility.

Chromium

Chromium (VI) is the more mobile and the more toxic form of chromium. The chromium (VI) anion is highly soluble and mobile as chromate (CrO_4^{2-}) or as bichromate (HCrO_4^-). Generally, chromium will become soluble as the pH of a solution decreases, but Evanko and Dzombak (1997) stated that the leachability of chromium may also increase as the soil pH increases. Under reducing redox conditions, chromium (VI) may convert to chromium (III), which is insoluble, will strongly adsorb onto soil particles, and is less toxic (Ellis et al., 2002). Like arsenic, chromium is an amphoteric metal and is soluble under the high pH conditions as well as under acidic conditions. It is less soluble at a neutral pH.

Site conditions are generally reducing, and therefore the chromium will tend to be chromium (III) which is less mobile. However, the high pH values in Site groundwater will enhance the mobility of the chromium in groundwater.

Copper

Copper is not redox-sensitive, and has a high affinity to soluble organic ligands and the formation of these complexes may greatly increase its mobility in groundwater. It is relatively insoluble at the high pH conditions encountered at the Site.

Lead

Due to the amphoteric nature of lead, its compounds may be soluble at low pH and at high pH. In general, lead will become adsorbed to soil with increased cation exchange capacity, organic carbon content, redox potential, and phosphate levels. At the Site, the redox conditions are reducing and the pH values are very high over a large area, enhancing the mobility of lead.

Mercury

The transport and partitioning of mercury in groundwater, surface water, and soil is influenced by the form of mercury. Inorganic forms of mercury include 0, 1 and 2 valences (i.e., metallic, mercurous ion and mercuric ion, respectively). Mercury cells were not used at the Site, however, and so elemental mercury is not present at the Site in significant quantities.

The ionic forms of mercury form compounds with sulfur, sulfate, chloride, hydroxide, oxygen and nitrate, with preference according to typical rules of metallic compound formation (charge density) and the oxidation states and pH of the soil solution or groundwater.

The most soluble form of mercury is mercuric chloride (70,000 mg/L), which can form under oxidizing conditions, which are typical of many shallow groundwater sites. Under reducing conditions, such as those encountered over much of the Site, mercuric sulfide is the most stable form of mercury. Mercuric sulfide has a very low solubility, on the order of 2 µg/L, as a result of the low polarity of metallic sulfide compounds.

The higher pH values encountered at the Site can result in the formation of mercuric hydroxide and mercuric oxides, even at relatively low Eh (to 0 meV). Although not as soluble as mercuric chloride, mercuric oxides are far more soluble than mercuric sulfide.

Organic forms of mercury, including methyl mercury, dimethyl mercury and ethyl mercury (collectively organomercury compounds), can form under reducing conditions. However, Kongchum, et al (2006) determined that methylation is inhibited by high salinity conditions and elevated sulfate concentrations, such as those encountered over much of the Site.

Nickel

For nickel, as the pH decreases, nickel may become more mobile (solubility increases). Most nickel compounds are relatively soluble at pH values less than 6.5. Nickel is not an amphoteric metal, and will therefore be relatively insoluble at the high pH conditions encountered at the Site.

Thallium

The chemical behavior of thallium is similar to that of lead; it occurs almost exclusively in natural waters as monovalent thallium (Tl^{+1}). The solubility of thallos (Tl^{+1}) compounds (e.g., thallos hydroxide) is relatively high so that Tl^{+1} is readily transported in the aqueous phase within the environment. At the Site, the redox conditions are reducing and the pH values are very high over a large area, enhancing the mobility of thallium.

Zinc

Zinc may exhibit amphoteric behavior in the environment. Studies show that zinc may precipitate at pH values greater than 8.0. It may also form stable organic complexes, with organics such as humic and fulvic acids. Zinc solubility in groundwater may increase with increases in redox potential (E_h). The solubility may also increase with decreasing pH (Pedroli et al., 1990). Zinc is an amphoteric metal and is soluble under the high pH conditions

as well as under acidic conditions. It is less soluble at a pH of around 10. The redox and the high pH conditions at the Site will therefore enhance the mobility of zinc.

The University of Washington, at the direction of Ecology, conducted a study to investigate the effects of pH and ORP on the K_d of various heavy metals within Site soils. The University of Washington report is included as Appendix W. The report makes several conclusions with respect to the relationships and sensitivity of varying pH and ORP on the values of K_d . The K_d values determined through the study are presented in the University of Washington report.

A summary of some of the principal findings of the report are as follows:

- i) Heavy metals at the site are likely to be sorbed on the surfaces of, and/or occluded in the bulk of minerals formed by iron oxyhydroxides, or mixed aluminum-iron solid phases.
- ii) The site soils can be operationally separated into two major groups. The first group (denoted as Group A) comprises soils for the site areas that do not appear to have been affected by high pH plumes and reducing conditions. The second group (denoted as Group B) comprises soils from the areas deemed affected by high pH and reducing conditions.
- iii) The log K_d values determined for Group A soils tend to increase nearly linearly with the pH when it is varied in an 8 to 14 range. This indicates that metal mobility decreases with pH for these soils. In contrast with the results for Group A, the log K_d values for Group B soils tend to exhibit little sensitivity to pH variations.
- iv) The data for Group A and Group B soils can be combined to determine pH-specific log K_d constants for the entire set of the examined soils. This approach allows generating reasonably strong linear functions correlating pH and metal-specific log K_d values. Calculations employing these linear correlations can yield log K_d values for any particular pH.
- v) Variations of redox potential for Group A soils are accompanied by decreases of the log K_d constants that are nearly linearly correlated with the redox potential. This is indicative of increased metal release from Group A soils when they interact with oxygen-free water.
- vi) In contrast with the sensitivity of Group A soils to variations of redox potential, metal release from Group B soils was largely unaffected by the presence of reducing agent.
- vii) Redox and pH variations are of relatively little importance for metal release in the most affected areas of the site.

5.4.6 Discharge to Surface Water

Shallow groundwater containing dissolved COCs has the potential to discharge to the waterways adjacent to the Site.

5.4.7 Air-Water Partitioning

Where surface water comes into contact with the atmosphere or shallow groundwater comes into contact with the soil gas at the water table, the COCs dissolved in the groundwater have the potential to volatilize into the air. The Henry's Law Constant (H_{cc}) provides a measure of the extent a contaminant will partition between the air and water phases. This parameter determines whether a contaminant will volatilize from groundwater to air. As a general guideline, for contaminants where H_{cc} (unit-less form) ranges from 4.5×10^{-6} to 4.5×10^{-4} , volatilization is low. For Site-related COCs, only organic COCs and mercury are considered to have the potential to partition into the soil gas. Table 5.1 presents the Henry's Law Constants established for the Site COCs. Once partitioned into the soil gas, the COCs have the potential to migrate into the ambient or indoor air, where there is the potential for human exposure.

Although the Henry's law constant predicts a potential for volatility, the dioxins, furans, and PCBs would not be very volatile, but would remain adsorbed to particulates rather than dissolve or be volatilized. This means that dioxins, furans, and PCBs would not be very mobile in the groundwater and would not form large, distinct plumes. The area of impact would be relatively small and close to a source area(s).

5.5 Degradation

5.5.1 Biotic Degradation

Microbial biodegradation involves the utilization of carbon from an organic compound (the primary substrate) for microbial cell growth. As part of the biodegradation process, electrons are transferred from the primary substrate (electron donor) to an available electron acceptor. This transfer of electrons is defined as a redox reaction. Energy derived from this transfer of electrons is utilized by soil microorganisms for cellular respiration.

Microbial biodegradation will only occur if suitable quantities of the primary substrate and electron acceptors are available for the necessary redox reactions. Certain forms of organic matter (e.g., fuel hydrocarbons, landfill leachate, and natural organic matter) are readily utilized as primary growth substrates during microbial biodegradation. The biodegradation of a primary substrate often will result in the cometabolic biodegradation of a secondary substrate, such as VOCs. The secondary substrate is defined as an organic compound that does not

undergo direct biodegradation, but is transformed to degradation products as a secondary reaction.

Typical electron acceptors available in groundwater, in the order of those that release the greatest energy to those that release the least energy, are: DO, nitrate, manganese and iron coatings on soil, dissolved sulfate, and carbon dioxide. The sequential use of these electron acceptors occurs as groundwater becomes increasingly reducing during the biodegradation of organic compounds.

The redox conditions at a Site are important to understand as they control the types of degradation reactions possible at a Site and the rates of these reactions. A natural attenuation evaluation for the Site was completed and the results are presented in Appendix U and are summarized in Section 5.5.3. As part of this evaluation, the redox parameter concentrations were evaluated, and it was concluded that conditions at the Site range from mildly aerobic to methanogenic. Conditions at the Site are generally reducing, especially at depth.

5.5.1.1 Biodegradability of Chlorinated Ethenes

PCE, TCE, cis-DCE, and VC are the chlorinated COCs primarily present in groundwater at the Site, both beneath the Waterway area and the upland areas at the Site. A brief discussion of the biodegradation of chlorinated ethenes and ethanes in general is presented below, with emphasis on PCE, TCE, cis-DCE, and VC biodegradation.

As stated above, biodegradation of chlorinated ethenes is mediated through a series of redox reactions, in which electrons are transferred between electron donors and electron acceptors. Biodegradation of chlorinated ethenes and ethanes occurs through any one of the following three mechanisms:

- i) The organic compound is used directly by microorganisms as an electron donor (i.e., primary substrate)
- ii) The organic compound is used directly by microorganisms as an electron acceptor
- iii) The organic compound undergoes biodegradation as a secondary reaction during microbial biodegradation of another organic compound

PCE and TCE Biodegradation

PCE is the most oxidized of the chlorinated ethenes and is not susceptible to oxidation mechanisms (electron donor) for biodegradation (i.e., PCE cannot be used as a primary substrate) unless it is via a cometabolic pathway. However, reductive dechlorination is a fully documented pathway for biodegradation of PCE. Therefore, PCE is biologically recalcitrant

under aerobic conditions and typically requires an anaerobic environment in order to undergo biodegradation. The reductive dechlorination pathways for chlorinated ethenes and ethanes are summarized on Figure 5.9.

TCE also is highly oxidized and is typically not susceptible to oxidation reactions. TCE is mainly biodegraded by reductive dechlorination under anaerobic conditions. Although the main biodegradation mechanism for TCE is reductive dechlorination, TCE may, in some cases, undergo aerobic cometabolism resulting in partial dechlorination.

cis-DCE and VC Biodegradation

cis-DCE and VC (the most reduced chlorinated ethenes) are susceptible to both aerobic degradation (through oxidation) and anaerobic degradation (through oxidation or reduction). cis-DCE and VC biodegradation has been documented to occur by each of the three principal biodegradation mechanisms (i.e., anaerobic, aerobic, and cometabolism).

VC is the most susceptible of the chlorinated ethenes to electron donor reactions. cis-DCE is also susceptible. Oxidation (also referred to as mineralization) of cis-DCE and VC is associated with the transformation of cis-DCE and VC to carbon dioxide, water, and chloride. Aerobic oxidation of cis-DCE and VC is characterized by a loss of mass and a decreasing molar ratio of cis-DCE and VC compared to that of other chlorinated ethenes.

cis-DCE and VC are the least susceptible to electron acceptor (i.e., reduction) reactions because they are the most reduced forms of the chlorinated ethenes; therefore, reductive dechlorination of cis-DCE and VC is slow relative to other degradation mechanisms. Reductive dechlorination of cis-DCE and VC has been documented in anaerobic environments, and is characterized by reductions in mass, increased concentrations of chloride ions, and production of daughter products, which are VC for cis-DCE and ethene for VC. The occurrence of reductive dechlorination relies on the presence of a primary substrate (i.e., electron donor).

At the Site, the reducing conditions present are conducive to the reductive dechlorination of chlorinated ethenes. The presence of VC and cis-DCE at the Site is good evidence that the biodegradation of PCE and TCE is occurring. The concentrations of cis-DCE are much higher than the concentrations of trans-DCE and 1,1-DCE in many locations, indicating that the presence of cis-DCE is the result of biodegradation and not the release of DCE. The presence of ethene in the groundwater in the potential source area is also good evidence that VC is being fully degraded to some extent.

5.5.1.2 Biodegradability of Hexachlorobutadiene and Hexachlorobenzene

Tabak et al. (1981) conducted biodegradation of HCB, at concentrations of 5 to 10 mg/liter, using aerobic microorganisms from an inoculum from settled domestic waste water. Another study found that a bacterium can utilize HCB as sole carbon and energy sources (Li et al., 2008).

Studies have found that HCB can undergo anaerobic reductive chlorination (Chang et al., 1996) (Adrian and Görisch, 2002). Kengara et al. (2013) were able to enhance HCB biodegradation using two anaerobic - aerobic cycles in model laboratory experiments.

The redox conditions at the Site are generally reducing and range up to methanogenic, indicating that conditions are conducive to the degradation of HCB, but may be less conducive for HCB.

5.5.1.3 Biodegradability of Dioxins, Furans and PCBs

Bacterial degradation of dioxins/furans and PCBs is possible but studies have shown it to be a very slow process. Biodegradation may be limited by the populations of organisms in the native soil. ATSDR (1998) estimated that the half-life for dioxin/furans in surface soils may range from 1 to 3 years. However, for contaminants a few inches below the surface, the half-life may be 10 to 12 years or more.

Biodegradation of PCBs may occur under aerobic or anaerobic conditions that will, theoretically, yield carbon dioxide and other innocuous compounds such as chlorine and water. Biodegradation of PCBs is dependent upon the position of the chlorine atoms attached to the biphenyl molecule and the degree of chlorination. In general, higher chlorinated PCBs (five or more chlorine atoms) are more persistent and not easily bio-transformed. Specific biodegradation processes that may alter PCBs include aerobic dechlorination, hydrolytic dehalogenation, and anaerobic reductive dechlorination. The heavier PCB congeners (tetra- and penta-) will generally biodegrade anaerobically, while the lighter congeners (mono-, di-, and tri-) will biodegrade aerobically (USEPA, 2003).

The redox conditions at the Site are generally reducing and range up to methanogenic, indicating that conditions are conducive to the degradation of some dioxins, furans, and PCBs, even if these processes can be very slow.

5.5.1.4 Biodegradability of Other Organic COCs

1,1,2,2-TeCA and 1,1,2-TCA

Similar to all highly chlorinated aliphatic compounds, 1,1,2,2-TeCA biodegrades under anaerobic conditions through reductive dechlorination. During reductive dechlorination, chlorine atoms are sequentially removed from the 1,1,2,2-tetrachloroethane molecule to form 1,1,2-TCA, 1,2-dichloroethane (1,2-DCA), chloroethane (CA), and finally ethane. Strong reducing environments are necessary for biodegradation to occur. Reductive dechlorination of 1,1,2,2-TeCA and 1,1,2-TCA is most rapid under methanogenic conditions, but will also occur under sulfate-reducing and iron-reducing conditions at a slower rate (Aronson and Howard, 1997). The reductive dechlorination pathways for chlorinated ethanes are presented on Figure 5.9.

Carbon tetrachloride and trichloromethane

CTeT and TCM are highly oxidized chlorinated compounds and therefore only readily degrade under anaerobic conditions (Aronson and Howard, 1997). During anaerobic (reductive) biodegradation chlorine atoms are sequentially removed from the carbon tetrachloride molecule to form primarily trichloromethane, then dichloromethane, then methyl chloride, and finally methane. Reductive dechlorination quickly occurs under methanogenic conditions and at a slower rate under sulfate-reducing and iron-reducing conditions.

Methylene chloride

DCM is a less highly chlorinated compound and will biodegrade under both aerobic and anaerobic conditions. Numerous studies have shown that DCM is fairly readily biodegraded under most aerobic environmental conditions to form formaldehyde and hydrochloric acid.

During anaerobic (reductive) biodegradation chlorine atoms are sequentially removed from the dichloromethane molecule to form methyl chloride, and finally methane. Other potential biodegradation products of dichloromethane under anaerobic conditions include methanol, acetic acid, and carbon dioxide. Some studies have demonstrated that biodegradation of dichloromethane (DCM) to environmentally acceptable products even when DCM is the only carbon source occurs under methanogenic conditions (Freedman and Gussett, 1991; and Braus-Stromeyer et al., 1993). Another study has demonstrated that biodegradation of DCM in contaminated aquifers may occur under nitrate-reducing conditions via oxidation pathways (Freedman et al., 1997).

The redox conditions at the Site are generally reducing and range up to methanogenic, indicating that conditions are conducive over parts of the Site for the degradation of 1,1,2,2-TeCA, 1,1,2-TCA, CTeT, TCM, and DCM.

5.5.2 Abiotic Degradation

It has been recognized that while biological degradation is the most important degradation mechanism for chlorinated solvents, some of the compounds can degrade abiotically (USEPA, 1998; Lee and Batchelor, 2002). Potential abiotic reactions include hydrolysis (addition of OH⁻), dehydrohalogenation (removal of a chlorine and hydrogen atom to form a carbon-carbon double bond), hydrogenolysis (replacement of a chlorine atom with hydrogen), and dihaloelimination (removal of two chlorines and the formation of a carbon-carbon double bond). Only hydrogenolysis and dihaloelimination occur under reducing conditions, such as those encountered at the Site. The abiotic degradation of PCE, TCE, and DCE can also produce acetylene under anaerobic conditions such as those found at the Site.

In 2012, select wells were analyzed for the presence of acetylene, and the results (presented in Appendix U) indicate that acetylene is present in the groundwater at the Site, and concentrations are greatest at locations where the concentration of VOCs is also greatest. This is good evidence that the abiotic degradation of chlorinated ethenes is occurring to some extent.

1,1,2,2-tetrachloroethane can degrade abiotically by hydrogenolysis to TCE. Under continued reducing conditions, the TCE produced from the abiotic degradation of 1,1,2,2-tetrachloroethane can be degraded to 1,1-dichloroethene (1,1-DCE), cis- and trans-1,2-dichloroethene, vinyl chloride and ultimately to ethene (Aronson and Howard, 1997).

Information regarding abiotic degradation of dioxins, furans, PCBs, and other Site-related COCs appears to be limited and therefore any degradation of these compounds is expected to be minor.

5.5.3 Natural Attenuation Overview

An evaluation of the natural attenuation at the Site was completed to determine the types and, if possible, the rates of natural attenuation processes at the Site. The complete evaluation is presented in Appendix U.

For all COC groups, physical attenuation mechanisms (dispersion, diffusion, and dilution) occur at every site. This natural attenuation evaluation focused on the biological and chemical attenuation processes that are occurring at the Site.

For chlorinated VOCs, it was determined that reductive dechlorination was occurring at the Site. This evidence was based on the redox conditions, which are conducive to reductive

dechlorination, and the presence of degradation products including ethene, which indicates that complete degradation of chlorinated solvents is occurring to some extent at the Site. The presence of acetylene also indicates that the abiotic degradation of PCE and/or TCE is occurring to some extent at the Site.

The natural concentration changes over time could not be evaluated at the Site due to the presence of the groundwater extraction system and the low number of sampling events in the areas outside the influence of the groundwater extraction system. However, approximate biodegradation half-lives for the chlorinated solvents along the northern flow path were estimated using BIOCHLOR, and are as follows:

- PCE 8 years
- TCE 23 years
- cis-DCE 17 years
- VC 9 years

Multiple BIOCHLOR simulations were performed to estimate the biodegradation half-lives presented above. Observed concentrations for each of the above CVOCs at each monitoring well along the northern flowpath were used as a calibration targets, along with the estimated groundwater flow and transport parameters along the northern flowpath. The wells chosen were those that lie along the apparent centerline of the northern flowpath. The half-life for PCE was first altered until the BIOCHLOR results most closely matched the observed PCE concentrations. The process then was repeated in sequence for TCE, cis-DCE, and VC.

At first, it may seem counter-intuitive that the half-life of VC is lower than the half-life for cis-DCE when considering VC is consistently detected in groundwater at the Site. However, because the biodegradation of CVOCs and their daughter products is a first-order process, the amount degraded depends not only on the rate, but also on the amount of CVOCs present. Because cis-DCE biodegrades to VC, the concentration of VC depends not only on the biodegradation rates of both VC and cis-DCE, but also on the amount of cis-DCE present. At the wells used as calibration targets for the BIOCHLOR simulations, the cis-DCE concentrations were much greater than the VC concentrations. The greater cis-DCE concentrations led to the production of greater VC concentrations, and a lower VC half-life was required to reduce these VC concentrations to levels that matched the observed VC concentrations. Thus, the greater cis-DCE concentrations had a high degree of influence on determining the half-life for VC. In fact, because of the greater cis-DCE concentrations, the BIOCHLOR model results were fairly insensitive to changes in the half-life for VC required to match the observed VC concentrations. The half-lives presented above are the best estimates obtained based on matching the observed Site data.

The effect of Site geochemical conditions on the rate of biodegradation was evaluated, but could not be determined due to the complexity of the geochemical interactions at the Site. The degree of biodegradation did not show a strong correlation to pH, ORP, nitrate, iron, alkalinity, or sulfate concentrations.

The other compounds that comprise the ADP do not degrade, but are susceptible to physical attenuation mechanisms. Attenuation rates could not be calculated for chloride or any other inorganic constituents of the ADP, however, because concentrations of these same elements are also elevated in the salt water surrounding the Site.

SVOCs, PCBs, dioxins, and furans can be degraded under the reducing conditions at the Site, but the literature indicates that rates will be slower than under oxidizing conditions. Distinct plumes of these compounds were not delineated outside the potential source area, and therefore degradation rates along the flow path could not be calculated. Degradation products of these compounds have not been analyzed; therefore, the types of degradation that may be occurring are unconfirmed.

The concentration of natural DOC at the Site is generally at or below 10 mg/L, which is enough to support biodegradation, but is less than the optimal level for robust dechlorination of CVOCs to occur. While the concentrations in the groundwater at the Site are generally below 10 mg/L; concentrations of ethene, which is a degradation product of VC, were detected at some locations. The presence of ethene is good evidence that some biodegradation of VC is occurring, even if the concentration of DOC is less than the optimal level for robust dechlorination of CVOCs to occur.

While the biodegradation of CVOCs is occurring at the Site, the CVOCs are migrating off the former OCC property and are discharging to the Waterway. This means that natural attenuation alone is not an appropriate remedy for the Site.

5.6 Contaminant Transport Conceptual Site Model

The CSM describes the key processes that influence groundwater flow directions, and thus contaminant migration, beneath the Site. The CSM is derived by considering separately, and then reconciling, three primary components: the observed geologic conditions, the observed hydraulic data, and the interpreted contaminant migration. Section 3.7 provides a summary of the CSM of geologic and hydrogeologic conditions for the Puyallup River Valley and Bluffs in the Site vicinity. An overview of the CSM is presented in Section 5.6.1. Contaminant transport processes for the key Site COCs based on the CSM are described in Section 5.6.2.

5.6.1 Site Geologic/Hydrogeologic Conditions

Site Geologic Conditions

The Site is part of the Puget Sound Lowlands, which are surrounded by the Puget Sound Bluffs (Bluffs). The Bluffs extend along the sides of the Puyallup River Valley, and correspond to the highland areas at the east and west sides of the POT. Figure 3.53 shows the CSM of geologic conditions for the Puyallup River Valley and Bluffs in the Site vicinity. The CSM of geologic conditions consists of (from ground surface): fill; deltaic deposits; and glacial deposits. The fill was placed on top of the former native tidal mud flats that existed at the mouth of the Puyallup River Valley under pre-development conditions. The Site stratigraphic data indicate that there is an increased frequency of lower permeability lenses, comprised mainly of silt and clay, in the lower deltaic deposits, as depicted schematically on Figure 3.53. Figure 3.53 also shows an alternating sequence of sand/gravel and silt/clay layers within the Bluffs based on the regional geologic conditions.

Site Hydrogeologic Conditions

Figure 3.71 shows the conceptual model of hydrogeologic conditions for the Puyallup River Valley and Bluffs in the Site vicinity. Groundwater beneath the Site discharges to the surrounding surface water bodies. Fresh groundwater inflow toward the Site peninsula occurs from the south due to upland regional groundwater flow along the Puyallup River Valley, and from the east due to regional groundwater flow in the Bluffs aquifers discharging to the Valley. Infiltration of precipitation over the Site peninsula contributes a further source of fresh groundwater, and establishes a shallow radial groundwater flow pattern towards the surface water bodies.

The groundwater table at the Site peninsula is located in the fill that was placed on top of the native mud flats. The mud flats are assumed to have hydraulic conductivity similar to silts and clays identified within the deltaic deposits, but have been shown to create a hydraulic separation between the fill and the underlying deltaic deposits in the southern portion of the Site. The mud flats are colored dark brown on Figure 3.71 where the hydraulic separation between the fill and deltaic deposits is observed in the southern portion of the Site, and a lighter brown where this hydraulic separation is not confirmed.

The majority of the Site-related contamination exists within the deltaic deposits. Groundwater quality data indicates that the vertical limit of contamination appears to coincide with the increased frequency of lower permeability lenses in the lower deltaic deposits. Although a discrete continuous layer of low permeability material is not observed in Site borings in the lower deltaic deposits, the groundwater quality, density, and hydraulic evidence supports the

concept that the increased frequency of lower permeability lenses limits vertical flow creating a zone of apparent confining effect in the lower deltaic deposits.

The glacial deposits appear to be an aquifer system composed of several glacially-derived aquifers and aquitards that are separated from the deltaic deposits by the zone of apparent confining effect. The fresh groundwater in the glacial deposits is derived from upgradient regional inflow. The regional inflow, combined with the zone of apparent confining effect, likely causes higher hydraulic pressures within the glacial deposits that result in the upward vertical hydraulic gradients from the upper glacial deposits to the lower deltaic deposits.

Salt water occurs in the Hylebos and Blair Waterways and Commencement Bay surrounding the Site peninsula. The density difference between salt water and fresh groundwater results in the development of fresh groundwater and salt water distributions within the Site groundwater flow system. The observed salt water and fresh groundwater distributions are translated to the CSM of hydrogeologic conditions in the Site vicinity on Figure 3.71. The salt water distributions and groundwater flow conditions illustrated on Figure 3.71 are generalized representations of pre-contamination conditions, as described in Section 3.7.

The presence of both salt water and fresh groundwater beneath the Site, as well as elevated groundwater densities associated with the ADP, creates density-dependent groundwater flow conditions. Releases of high density liquids from historical Site operations/processes (lime sludge/solvent residue, caustic soda, and salt brine) that have created the ADP have a critical influence on groundwater flow and contaminant transport, as described in Section 5.6.2.

5.6.2 Contaminant Transport and Fate

Site investigations have confirmed that there are four primary groundwater plumes: the ADP, pH plume, CVOCs, and metals. These plumes have been defined through the Site monitoring well network as described in Section 3.0. Other COCs have not developed large, distinct groundwater plumes. This is likely due to a combination of factors, such as low mobility in groundwater, limited contaminant mass, and attenuation processes.

The Site monitoring well network consists of wells screened within seven depth zones, or ZGPs, representing nominal depths of 15, 25, 50, 75, 100, 130, and 160 ft BGS. The depth zones are referred to as the 15-ft zone, 25-ft zone, 50-ft zone, 75-ft zone, 100-ft zone, 130-ft zone, and 160-ft zone. These depth zones are indicated on Figure 5.10.

The primary groundwater plumes have migrated from the potential sources noted in Section 5.0 via several transport mechanisms that are summarized below.

<i>COC Type</i>	<i>Transport Mechanism</i>
ADP	<ul style="list-style-type: none"> • Density-dependent flow • Migration with groundwater
pH plume	<ul style="list-style-type: none"> • Density-dependent flow • Migration with groundwater
CVOCs	<ul style="list-style-type: none"> • DNAPL migration • Migration with the ADP • Displacement by the ADP • Migration with groundwater • Volatilization to ambient air and indoor air
Metals	<ul style="list-style-type: none"> • Migration with the ADP • Migration with groundwater • Surface water runoff
SVOCs	<ul style="list-style-type: none"> • Migration with groundwater • Surface water runoff • Volatilization to ambient air and indoor air
PCBs	<ul style="list-style-type: none"> • Migration with groundwater • Surface water runoff
Dioxins/Furans	<ul style="list-style-type: none"> • Migration with groundwater • Surface water runoff

5.6.2.1 COC Migration Rate

Bulk Migration Rate

A conceptual average bulk COC migration rate is estimated for the dissolved groundwater plumes for each main group of COCs. The distance each COC group has traveled from the suspected potential source areas was divided by the time since the potential source is thought to have been in place. Due to the uncertainty in the starting time for the potential sources, a range of values were used for the start times (1940 – 1960).

The table below presents the conceptual migration rates for each of the COC groups.

COC Group	Assumed Starting Area	Estimated Lateral Migration Distance as of 2013 (ft)	Range in Estimated Migration Rates (ft/yr)
CVOCs (vinyl chloride)	WMU H	1,700	23 - 32
Caustic (pH)	Caustic House	1,500	21 - 29
ADP	Salt Pad/WMUs C, F, G, H	1,600	22 - 30
Metals	Navy-Todd Dump	400	6 - 8

Vinyl chloride and zinc were chosen because, of the COCs from their respective groupings, they have traveled farthest from their respective potential source areas. SVOCs, PCBs, and dioxins/furans were not included because these COCs do not form distinct enough groundwater plumes to allow the calculation of migration rates.

It should be noted that the estimated migration rates presented above are conceptual in nature. These historical plume migration rate estimates are not representative of current conditions and are not predictive of future migration rates.

Uncertainty in the estimates is due to the following:

- i) Higher density releases, greater than what is currently observed in the ADP, likely occurred at early time and likely caused faster initial (downward) migration rates. As dilution of the ADP has occurred over time, the migration rates due to density effects have likely slowed.
- ii) The assumption of a starting point: Input to the subsurface would have started immediately after the initial discharge of solvent waste to the subsurface. However, the time for the initial release of a large enough volume of product to cause DNAPL migration is not available.
- iii) The assumption that the flow was uniform over time: The presence of DNAPL at depth beneath the Site is direct evidence that a dense, separate phase migrated downward vertically from discharge point(s) at the surface. Accounts of experimental vertical DNAPL migration from the literature indicate that the DNAPL migration rates would be different from the dissolved groundwater plume migration rates. Currently there is no reliable method to separate DNAPL migration rates from estimates of dissolved groundwater plume migration rates.
- iv) The presence of the ADP: The conceptual migration calculation method proposed requires the assumption the groundwater flow field was uniform, which would not have been the case with the density effects associated with the early time high density

releases. It is understood that the mixing of the high-density and low density waters is limited. Therefore the migration rate of CVOCs within the ADP will depend, to some extent, on the ADP migration, and will be different from the migration rate within the groundwater outside the ADP. There is no way to account for these differences that occurred historically.

Groundwater Flow-Based Migration Rates

A migration rate for each of the COC groups was calculated based on the estimated groundwater flow rate and the transport properties of the most mobile member of each of the COC group. The distribution coefficient (K_d) was calculated using the organic carbon partitioning coefficient (K_{oc}) to obtain a conservative distribution coefficient to represent each COC group. Vinyl chloride was used for CVOCs, Aroclor 1221 for PCBs, HCBd for SVOCs, and dibenzofuran for dioxins and furans. Maximum and minimum K_d values were calculated using the maximum and minimum organic carbon contents measured on-Site. The coefficient of retardation (R) was calculated for each group assuming linear sorption. Mean Site values for porosity, hydraulic conductivity, and bulk density were used. A Site-specific range of hydraulic gradients were used to calculate groundwater velocity and migration rates. Full details are presented in Appendix U and the results are summarized in the table below.

COC Group	K_d		R		Migration Rate (ft/yr)	
	Min	Max	Min	Max	Min	Max
CVOCs (vinyl chloride)	0.0035	0.48	1.0	2.8	2.7	67
SVOCs (HCBd)	0.14	19	1.5	71	0.11	45
PCBs (Aroclor 1221)	1.3	180	6.0	690	0.011	11
Dioxins/Furans (dibenzofuran)	1.5	200	6.5	760	0.010	10
ADP (Cl^-)	0	0	1.0	1.0	7.5	67
pH (OH^-)	0	0	1.0	1.0	7.5	67

The previously calculated bulk migration ranges for CVOCs, ADP and pH fall within the broader range of compound-specific migration rates. These values account for adsorption only, and do not consider the contribution of degradation to the organic COC migration rates.

5.6.2.2 Anthropogenic Density Plume

Historical Site operations resulted in surface releases of high density fluids from the potential sources described in Section 5.2 (primarily the settling ponds/barge, Caustic Source Area, and Salt Pad). Mixing of lime sludge/solvent residue, caustic soda (sodium hydroxide), and brine (sodium chloride) in groundwater has resulted in a comingled plume of high density that under

current conditions consists of specific gravity values ranging from >1.02 (density of $>63.7 \text{ lbs/ft}^3$) to approximately 1.2 (density of 74.9 lbs/ft^3). The ADP tends to sink due to its higher density impacted water (relative to the density of fresh groundwater and salt water). A conceptual figure showing the ADP during the early period of Site operations is shown on Figure 5.11. The early time ADP is envisioned as being within the fill and upper portion of the deltaic deposits below the settling ponds/barge (WMU C, F, G, and H¹¹), Salt Pad, and Caustic Source Area. The solvent residue, comprised of PCE and TCE, is the highest density material that was released, and thus the early time ADP is shown to extend somewhat deeper under the settling ponds/barge on Figure 5.11.

Over time, the ADP migrated away from the potential source areas via density-dependent (i.e., gravity-driven) flow. While migrating downwards, the higher density plume displaced the fresh and salt water initially present beneath the release locations. The fresh groundwater and salt water displacement caused by the downward density plume migration caused lateral groundwater flow that has contributed to the lateral spreading of the density plume, as well as the spreading of the impacted groundwater surrounding or comingled with the density plume. This lateral spreading has resulted in a portion of the CVOC plume migrating eastward, beneath the Waterway, opposite the average groundwater flow directions currently observed. The lateral spreading of the CVOC plume caused by the early time ADP is illustrated on Figure 5.12. The primary CVOC found beneath the Waterway currently is vinyl chloride, which is the biodegradation product of the initially released PCE and TCE.

The ADP has spread laterally and migrated vertically until encountering lower permeability soil layers or counterbalancing hydraulic pressures, as follows:

- i) Lateral migration will continue until reaching equilibrium, or counterbalancing hydraulic pressures (i.e., opposing horizontal hydraulic gradients counterbalancing the lateral density-driven gradients), or until encountering a vertical low permeability barrier, such as the buried valley wall along the Bluffs east of the Waterway. These factors prevent eastward migration of the ADP into the sediments beneath the Bluffs.
- ii) Vertical migration will continue until reaching a combination of the upward vertical hydraulic gradients from the upper glacial deposits to lower deltaic deposits and the increased frequency of lower permeability lenses in the lower deltaic deposits (i.e., the zone of apparent confining effect). Upward vertical hydraulic gradients in the upper glacial deposits counterbalance the tendency of the dense water to sink, and the increased frequency of lower permeability lenses in the lower deltaic deposits limits the vertical rate of migration.

¹¹ Although lime sludge/solvent residue reportedly was sent to WMU A, the ADP under current conditions is not focused beneath this area. As a result, WMU A was not shown on Figure 5.3 as a source location for the ADP.

The distribution of the current ADP is shown on Figure 5.13. The ADP is centered beneath the settling ponds/barge and Salt Pad, with the southern portion of the ADP underlying the potential Caustic Source Area. The ADP has remained relatively consistent since 2006.

The highest densities of the ADP are well below the groundwater table, reflecting the fact that the major density potential sources ceased or were removed prior to Site investigations. The ADP has also spread laterally beneath the Waterway and to the north towards Commencement Bay. The vertical migration of the ADP is limited by the zone of apparent confining effect in the lower deltaic deposits and upward vertical hydraulic gradients within the upper glacial deposits. The ADP has migrated northwards into the salt water transition zone with Commencement Bay due to northward-directed hydraulic gradients. The northward ADP migration also appears to be influenced by a northwestward dipping trough in the glacial deposits observed beneath the northeastern portion of the Site peninsula. The zone of apparent confining effect in the lower deltaic deposits appears to follow the trough, and correspondingly the ADP above this. Once the density-driven gradients of the ADP dissipate, diffusion and groundwater advection will be the predominant mechanism for any further migration of the ADP, and COCs comingled with the ADP.

The distribution of the ADP shown on Figure 5.13 is based on, and is consistent with, the observed density data. The highest density observations occur east of the Salt Pad, corresponding to the locations of the settling ponds/barge, and elevated density observations also occur to the north/northwest of the Salt Pad. The highest density beneath the settling ponds/barge indicates this area is where the releases of highest density material occurred historically, consistent with the release of lime sludge and solvent residue in this area. The elevated density to the north/northwest of the Salt Pad is consistent with the trough in the surface of the glacial deposits that appears to slope downward to the northwest. The current ADP distribution appears centered beneath the settling ponds/barge just east of the Salt Pad, where the release of highest density material occurred, spreads radially outward from this area and then northwestward consistent with the zone of apparent confining effect in the lower deltaic deposits following the trough in the glacial deposits.

Much of the ADP is composed of inorganic compounds (e.g., salt, caustics, and dissolved minerals) which will not degrade. The salt will also not likely form precipitates to reduce the mass in solution. Therefore, the reduction in the ADP concentrations will mainly come from mechanical attenuation: dispersion, diffusion, and dilution.

5.6.2.3 pH Plume

Historical Site operations resulted in surface releases of high density/high pH caustic fluids from the potential Caustic Source Area described in Section 5.2. The caustic fluids co-mingled with the brine released from the Salt Pad to form the ADP. Thus, the pH plume is largely consistent with the ADP plume. The distribution of the current pH plume is shown on Figure 5.14.

Interaction of historical caustic releases with the aquifer materials has resulted in the formation of new mineral phases, primarily within the shallow fill material. These new minerals react with fresh precipitation infiltration to produce high pH groundwater. Thus, shallow soils that were impacted with caustic are a continuing source of elevated pH to groundwater.

Reaction of the pH plume with the aquifer material is an exothermic reaction that results in a localized increase in groundwater temperature. This process is most apparent in the areas of the highest pH groundwater where geochemical reactions are actively occurring. Currently the temperature data indicate this is occurring under the Salt Pad and surrounding area where the reactions would be most vigorous. Groundwater temperatures measured under the Salt Pad and surrounding area are up to 10 degrees Celsius warmer than the groundwater temperatures measured upgradient of the Site.

The position and extents of the pH plume has remained relatively consistent since 2006.

5.6.2.4 CVOCs

The migration of CVOCs occurs by several mechanisms:

- DNAPL migration
- Migration of dissolved-phase with the ADP
- Displacement migration at the perimeter of the ADP
- Migration of dissolved-phase with fresh groundwater
- Migration to indoor and ambient air

These CVOC migration mechanisms are summarized below.

5.6.2.4.1 DNAPL Migration

The subsurface migration of DNAPL is a complex process that is strongly influenced by geology, properties of the DNAPL, and release location. DNAPL has a high density and tends to migrate vertically downward. The DNAPL density is greater than that of the ADP and can displace the

high density water within the ADP. Unlike the ADP which is totally miscible in water, DNAPL is essentially immiscible. During transport, some DNAPL is immobilized in pore spaces in the form of disconnected blobs and ganglia referred to as residual DNAPL. In this way, the volume of DNAPL is gradually distributed along the flow path, and the mass of DNAPL subject to active migration is depleted. The DNAPL will continue to migrate until the DNAPL mass becomes immobile, or stable (i.e., remains as residual bound in pore spaces, or "pools" above a low permeability layer).

The distribution of DNAPL in the subsurface is shown on Figure 5.7. This figure shows the general distribution of the confirmed and suspected DNAPL beneath the Site. DNAPL is observed beneath the former solvent production plant, WMU A, and WMU G. Historical DNAPL release rates and mass would likely have been highly variable, resulting in the separation between confirmed DNAPL at the upper and lower depths within the Shallow Aquifer shown on Figure 5.7. During vertical migration of the DNAPL, significant lateral migration has occurred, likely due to the DNAPL encountering low permeability lenses within the deltaic deposits that increase in frequency in the lower portion of the deltaic deposits. DNAPL has also moved northwestward at depth consistent with the zone of apparent confining effect in the lower deltaic deposits following the trough in the glacial deposits. Given the significant timeframe since the initial releases occurred, the tortuous migration of the DNAPL through the heterogeneous deltaic deposits, and increased frequency of lower permeability lenses in the lower deltaic deposits, the current DNAPL distribution is likely stable.

Residual DNAPL will result in a continuing source of CVOCs. Additionally, diffusion into lower permeability (i.e., silt and clay) lenses adjacent to DNAPL will accumulate CVOC mass. The silt and clay then act as secondary sources of aqueous contamination through back-diffusion once groundwater concentrations in higher permeability zones decline. The process of back-diffusion from lower permeability lenses into higher permeability zones, where the bulk of the active groundwater flow occurs, will significantly prolong groundwater remediation timeframes.

5.6.2.4.2 Migration with the ADP

Figure 5.8 shows the current distribution of total CVOCs in groundwater at the Site. The CVOC potential sources were in close proximity to the Salt Pad, and as a result, dissolved CVOCs have comeingled and migrated with the ADP. As the ADP displaced fresh groundwater or salt water in the subsurface, comeingled CVOCs within the ADP were carried by the ADP as it migrated laterally and downward. In addition, CVOCs already dissolved in groundwater at the periphery of the ADP would have been displaced laterally and vertically in advance of the ADP migration. The lateral ADP migration is a primary reason for the presence of CVOCs beneath the Waterway

east of the CVOC potential source areas even though the average groundwater flow direction observed under current conditions is more north to northwest.

5.6.2.4.3 Migration in Fresh Groundwater

Dissolved-phase CVOCs in groundwater beyond the ADP will migrate with fresh groundwater. This will lead to northward migration as the regional groundwater flow direction in the deltaic deposits is generally toward Commencement Bay, with groundwater discharge to the surrounding surface water bodies. This northward flow has resulted in an apparent shallow component of total CVOC plume at the northern end of the Site peninsula illustrated on Figure 5.8. Some eastward flow is also occurring, where shallow groundwater is discharging to the Waterway.

Migration of dissolved-phase CVOCs in groundwater is attenuated by the following processes: adsorption; diffusion into low permeability (i.e., silt and clay) lenses; and degradation.

Adsorption of CVOCs onto soil particles depends on the amount of organic matter naturally present in soil and the relative affinity of individual hydrophobic compounds to adhere to organic matter. Adsorption results in the dissolved-phase CVOC plume migrating more slowly than the average groundwater flow velocity.

Diffusion of dissolved-phase CVOCs into lower permeability (i.e., silt and clay) lenses also slows the rate of CVOC migration relative to the average groundwater flow velocity in higher permeability zones. The silt and clay then act as secondary sources of dissolved-phase contamination through back-diffusion once groundwater concentrations in higher permeability zones decline.

The concentrations of CVOCs at the base of the Waterway are much lower than groundwater concentrations at depth. The shallow concentrations are attenuated because of flushing (dilution) with surface water, which is enhanced via tidal fluctuation. Also, within the salt water zone adjacent to the waterway mudline, the expected net flow condition is for salt water recharge to the aquifer to maintain salt water zone. The lower concentrations could also be due to surface water influence during sampling and dilution from unimpacted groundwater migrating from the bluff. These processes contribute to the presence of low to non-detectable CVOC concentrations near the mudline observed at some Waterway sample locations. In particular, this is expected to occur in areas that are not affected by the ADP where high density groundwater discharge can occur against the salt water equilibrium or in areas that are not affected by high water levels from the eastern bluffs, although, impacted groundwater has been detected near the mudline along the center and eastern shores of the Waterway.

Degradation of the CVOCs is occurring both biologically and abiotically. Figure 5.9 shows generally accepted degradation pathways for PCE and TCE (USEPA, 1998; Weidemeier et al., 1999). Biological degradation of PCE and TCE (parent compounds) has produced cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride (daughter products) at the Site. The distribution of the parent and daughter products in groundwater is shown on Figures 5.15 through 5.17. In general, PCE/TCE occur near the surface potential sources and DNAPL source zones. The daughter products occur in the source zones and beyond the PCE/TCE plume. The presence of cis-1,2-DCE and vinyl chloride, daughter products of the biological degradation of PCE and TCE, confirms that PCE/TCE biodegradation is occurring. The abiotic degradation of PCE and TCE also is occurring as indicated by the presence of dissolved acetylene in groundwater.

It does not appear that the high ionic strength of the sea water, ADP, and pH plume have a direct effect on CVOC migration because CVOCs are non-polar molecules. However, biological activity is normally inhibited under high pH conditions. An evaluation was completed to determine the degree to which the Site pH inhibits the microbial activity. The results, presented as part of the natural attenuation evaluation in Appendix U, indicate that there is no clear relationship between pH and the degree of biodegradation at the Site.

The lack of an obvious relationship does not indicate that microbial activity is unaffected by high pH conditions, but, the lack of a simple relationship between pH and the degree of biodegradation is likely because there are many complex geochemical and microbiological interactions occurring simultaneously at the Site, which cannot be characterized by a simple relationship.

The literature indicates that elevated biological activity is inhibited under high pH values. The USEPA Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water (USEPA, 1998) indicates that the pH values between 5 and 9 comprise the optimal range for the reductive dechlorination of chlorinated solvents. It will, therefore, be assumed that microbial activity will be inhibited (but not necessarily prevented) above a pH value of 9.0.

Appendix U also presents the results of the evaluation of the effects of DOC on the degree of biodegradation. It is recognized that a sufficient amount of DOC is required for robust microbial activity (e.g., biodegradation); however, the Site data do not show a distinct relationship between the amount of DOC and the degree of biodegradation. The complexity of the geochemical conditions at the Site may prevent the observation of simple relationships expected between parameters and processes.

5.6.2.4.4 Migration to Ambient Air and Indoor Air

CVOCs will volatilize from impacted shallow groundwater or from the impacted vadose zone soils. CVOCs in the vapor phase will then migrate by diffusive and advective mechanisms through the unsaturated soil and be emitted to ambient air and potentially indoor air of enclosed buildings.

5.6.2.5 Metals

The migration of metals occurs by several mechanisms:

- Migration of dissolved metals with the ADP
- Migration of dissolved-phase with fresh groundwater
- Metals transport in surface water runoff

These metals migration mechanisms are shown schematically on Figure 5.18 and are summarized below.

5.6.2.5.1 Migration with the ADP

As the ADP displaced fresh groundwater or salt water in the subsurface, comingled dissolved metals within the ADP were carried by the ADP as it migrated laterally and downward. In addition, metals already dissolved in groundwater at the periphery of the ADP would have been forced to migrate laterally and vertically in advance of the ADP migration.

5.6.2.5.2 Migration in Groundwater

Infiltrating groundwater that comes into contact with soils containing metals will dissolve some of the metals, carrying them to the water table and into groundwater. Once in groundwater, the metals will be transported along with groundwater flow, and will eventually discharge to the Waterway and Commencement Bay, if the metals remain in solution.

The metals concentrations and migration in groundwater are influenced by numerous mechanisms, the most important at the Site are:

- Sorption onto naturally occurring ferric oxide coatings on aquifer soil particles. This sorption slows the transport of metals in groundwater
- Suppression of sorption onto the ferric oxide coatings by the high pH of the water in the pH plume mobilizing metals (that would otherwise be adsorbed) and keeping the metals in solution longer

- Enhancement of the solubility of some metals in soil (both naturally occurring and anthropogenic) by the high pH of the water in the pH plume
- Limitation of the sorption of metals due to ion-ion interactions associated with the high ionic strength of the ADP (i.e., competition for sorption sites) keeping the metals in solution

Remediation of metals in groundwater is highly dependent on addressing the pH plume and the ADP. Metals do not biodegrade; the most active attenuation mechanisms are physical (dispersion, diffusion and dilution) and chemical (sorption, precipitation). Once the groundwater pH decreases and the ADP dissipates, natural sorption processes will result in the sorption and precipitation of metals thereby reducing their concentrations dissolved in groundwater.

5.6.2.5.3 Surface Runoff

Precipitation at the Site comes into contact with impacted surficial soil and carries soil particles with the surface runoff, especially during heavy rainfall events. The surface water at the Site is conveyed by overland flow and the storm sewer system to adjacent surface water bodies.

There has been a storm sewer monitoring program undertaken at the Site designed to determine if storm water discharge is within regulatory limits. The monitoring program has not identified any significant impacts. It is unlikely that future impacts will occur and this migration pathway is not considered significant.

5.6.2.6 SVOCs

The migration of SVOCs could potentially occur via several mechanisms:

- DNAPL migration
- Migration of dissolved phase with the ADP
- Migration of dissolved phase with fresh groundwater
- Migration to indoor and ambient air

5.6.2.6.1 DNAPL Migration

Because the SVOCs were formed as by-products of the solvent manufacturing process, they could be present in the DNAPL released to the subsurface at the Site. The SVOCs would have then migrated downward along with the DNAPL as described in Section 5.6.2.4.1. The presence of HCB and HCBd in deep soil and sediment samples is consistent with this hypothesis.

5.6.2.6.2 Migration in Groundwater

In general, SVOCs tend to sorb strongly to the soil and are conceptualized as having limited mobility in groundwater compared to the CVOCs. Some dissolution will occur, as will the sorption to suspended particles (i.e., colloids) in groundwater. However, the migration of the SVOCs in the groundwater will be minimal. This observation is consistent with the distribution of SVOCs in the groundwater, which indicates detected concentrations tend to be near to the identified potential source areas described in Section 5.2.

HCB and HCBd can degrade under anaerobic conditions, such as those found over much of the Site. The degradation rates are likely to be fairly slow however, and the elevated pH will likely inhibit the microbial activity responsible for the biodegradation. Although the pH value is unclear, it will be assumed that the threshold above which microbial activity is inhibited will be 9 su, as presented in Section 5.6.2.4.3.

5.6.2.6.3 Migration to Ambient Air and Indoor Air

More volatile SVOCs (e.g., HCBd) will volatilize from impacted shallow groundwater or from the impacted vadose zone soils. SVOCs in the vapor phase will then migrate by diffusive and advective mechanisms through the unsaturated soil and be emitted to ambient air and potentially indoor air of enclosed buildings.

5.6.2.7 PCBs and Dioxins/Furans

PCBs and dioxins/furans sorb very strongly to soil particles and are relatively insoluble in water; therefore migration in the groundwater is limited, although some sorption to colloids may occur, which could result in a limited enhancement of PCBs and dioxins/furans migration. Surface runoff could carry suspended soil particles with PCBs or dioxins/furans into surface water bodies, and sediment impacted with PCBs and dioxins/furans could be carried along the waterways adjacent to the Site.

However, the mobility of PCBs and dioxins/furans is considered to be very limited. This observation is consistent with the distribution of PCBs and dioxins/furans in groundwater, which indicates detected concentrations tend to be near to the identified potential source areas described in Section 5.2.

The biodegradation of PCBs has been documented, but the rate of degradation tends to be slow and very dependent on the congener (Pieper and Seeger, 2008). While biodegradation of dioxins and furans is possible, these compounds are regarded as resistant to biodegradation.

Section 6.0 Exposure Pathway Assessment

Based on the analytical results, an Exposure Pathway Assessment (assessment) was conducted in accordance with Ecology and USEPA guidance. The assessment included both human health exposure pathway assessment (HHEPA) and ecological exposure pathway assessment (EEPA) and evaluated potential impacts on Properties (605 and 709 Alexander Avenue) and off Properties (beyond 605 and 709 Alexander Avenue), and is included as Appendix V. A brief summary of the assessment is provided below.

The purpose of the assessment was to identify media and locations that may need corrective action, risk management measures, or further evaluation during remedy design. For this purpose, risk-based concentrations (RBCs) were developed and used to identify potentially impacted media and locations. The RBCs were developed to be protective of all potential human health and ecological receptors exposed to Constituents of Concern (COCs) in on-Properties and off-Properties media under current and continued future industrial use, assuming no additional remedial actions are taken. The Properties and off-Properties were evaluated separately due to the institutional controls that have been implemented on the Properties through the use of deed restrictions.

While risk assessments often include development of quantitative risk estimates that are used to identify media and locations requiring corrective action, RBCs were used in this assessment for this purpose for the following reasons:

- i) Multiple receptors were included in this assessment, and for certain of these receptors (i.e., outdoor industrial/commercial worker and trespasser), identification of exposure areas and determining areal average contaminant levels (i.e., development of 95% upper confidence levels in risk estimates) is appropriate. However, for other receptors such as the indoor worker and construction worker, potential exposures can be much more localized. In these cases, areal averaging of contaminant concentrations is arguably inappropriate. Therefore, for consistency, a screening-level approach was considered appropriate for all receptors.
- ii) For certain pathways, MTCA specifies that media concentrations need to be compared to screening criteria. In particular, because groundwater at the Site is non-potable and shallow groundwater could potentially discharge to surface water via seeps and subtidal discharge along the embankment immediately adjacent to the Waterway, MTCA requires that groundwater concentrations should not exceed applicable surface water criteria. Therefore, a screening-level approach for the groundwater-to-surface water pathway is required by MTCA. As noted previously, for consistency a screening-level approach was considered appropriate for all receptors.

- iii) In many locations, impacts from multiple chemicals were evident that exceeded RBCs developed for the screening-level evaluation. In these media and locations, development of quantitative risk estimates would not likely add to, or help inform, decision-making related to the need for corrective action or risk management measures.
- iv) Vapor intrusion (VI) pathway investigation is in progress and will more directly determine the need for mitigation relative to that exposure pathway.

For the reasons listed above, a screening level exposure pathway assessment was deemed most appropriate to identify media and locations that may need corrective action, risk management measures, or further evaluation during remedy design.

This section is structured as follows:

Section 6.1 Human Health Exposure Pathway Assessment

Section 6.2 Ecological Health Exposure Pathway Assessment

6.1 Human Health Exposure Pathway Assessment

This section is structured as follows:

Section 6.1.1 Identification of Complete Exposure Pathways

Section 6.1.2 Summary of Potential Human Health Exposures

6.1.1 Identification of Complete Exposure Pathways

The Site is located in the industrial tidelands area of Tacoma, Washington. The zoning of the properties which comprise the Site is "S-10" (Port Industrial Shoreline District), "M-3" (Heavy Industrial District), and "PMI" (Port Maritime Industrial). Restrictive covenants restricting land use on the properties to non-residential industrial use are contained and set forth in the Quit Claim Deed (Corrected) recorded on April 28, 1997, in the records of the Pierce County Auditor (Recording No. 9704280734). Pertinent property owned by the POT is the subject of a restrictive covenant recorded on May 5, 2003, in the records of the Pierce County Auditor (Recording No. 200305050452) that prohibits groundwater extraction, supply or use for drinking or other human consumption or domestic use of any kind.

The nearest residential properties are situated approximately 1 mile to the east, on the bluff across the Waterway from the Site, 3/4 of a mile across the Waterway to the northeast, and approximately 3 miles to the south.

Based on the information noted above, the current and foreseeable future land use for on-Properties and adjacent off-Properties is commercial/industrial. Therefore, the identified receptors that may be present include an outdoor industrial/commercial worker, an indoor industrial/commercial worker, a construction/utility worker, and a trespasser. Because shallow groundwater on-Properties and adjacent off-Properties is impacted and potentially discharges to the Waterway via seeps and subtidal discharge along the embankment, a fisher receptor was also included in the HHEPA.

In consideration of the restrictions on the Properties, the following media and potential human exposures were identified for quantitative evaluation for on and off Properties:

Media and Potential Human Exposure	On-Properties	Off-Properties
Industrial/commercial worker inhalation exposure to chemicals in indoor air due to migration of volatile chemicals in soil and groundwater	√	√
Trespasser and industrial/commercial worker direct contact (incidental ingestion and dermal contact) and ambient air inhalation exposure to chemicals in surface soil	√	√
Trespasser and industrial/commercial worker direct contact (incidental ingestion and dermal contact) exposure to chemicals in sediment	√	√
Trespasser and industrial/commercial worker inhalation exposure to chemicals in ambient air due to migration of volatile chemicals in groundwater	√	√
Construction/utility worker direct contact (incidental ingestion and dermal contact) and ambient air inhalation exposure to chemicals in surface and subsurface soil		√
Construction/utility worker direct contact (incidental ingestion and dermal contact) and ambient air inhalation exposure to chemicals in groundwater		√
Fisher ingestion exposure to chemicals in ingested fish tissue	√	√

These potentially complete exposure pathways and receptors are shown schematically on Figure 6.1.

The soil data considered in the HHEPA consisted of all soils less than or equal to 10 ft BGS (based on the maximum expected depth of excavation for utilities).

The sediment data considered in the HHEPA consisted of all sediment data collected within 3 ft of the Waterway mudline, located above the approximate lowest tide elevation of -10.32 ft NGVD (-4 ft MLLW).

The groundwater data considered in the HHEPA consisted of all groundwater data collected during the period of January 2002 through October 2013. For monitoring wells, the most recent groundwater data for each COC collected during this period was considered. A shallow groundwater data set was derived consisting of all groundwater data collected within 25 ft of the upland ground surface, and was used in the HHEPA to evaluate volatilization of COCs from groundwater to indoor air and from groundwater to ambient air. The evaluation was limited to shallow groundwater because only the shallow groundwater will directly impact these media. All deeper volatile impacts would need to pass through the shallow groundwater prior to impacting indoor air or ambient air. This shallow groundwater data set was also used to evaluate the groundwater-to-surface water pathway because hydraulic monitoring shows that there is the potential for shallow groundwater adjacent to the embankment along the Waterway to discharge to surface water within the Waterway by seeps through the embankment and by shallow subtidal groundwater discharge along the embankment (see Section 3.6). In addition, shallow fresh groundwater at the northern end of the peninsula will discharge to Commencement Bay. The hydraulic monitoring showed that deep impacted groundwater may not directly discharge to the Waterway or Commencement Bay, or the discharge may be limited, due to the naturally occurring inland salt water distribution from these two salt water bodies. On the Site, downward vertical hydraulic gradients occur due to density effects caused by the elevated groundwater densities associated with the ADP. The vertical migration of the ADP is limited by the zone of apparent confining effect in the lower deltaic deposits and upward vertical hydraulic gradients within the upper glacial deposits. The ADP has migrated northward due to northward-directed hydraulic gradients. The northward ADP migration also appears to be influenced by a northwestward dipping trough in the glacial deposits observed beneath the northeastern portion of the Site peninsula. The zone of apparent confining effect in the lower deltaic deposits appears to follow the trough, and correspondingly the ADP above this. Once the density-driven gradients of the ADP dissipate, diffusion and groundwater advection will be the predominant mechanism for any further migration of the ADP, and COCs comingled with the ADP. Lateral migration at depth to Commencement Bay may be limited by inland-directed hydraulic gradients associated with the naturally occurring inland salt water distribution from Commencement Bay.

6.1.2 Summary of Potential Human Health Exposures

The results of the HHEPA showed that corrective action, risk management measures, or further evaluation during remedy design may be needed to address impacts to soil, sediment, and groundwater on-Properties and off-Properties. Exceedances of RBCs by exposure pathway in each of the environmental media are discussed in the following sections:

Section 6.1.2.1	On-Properties
Section 6.1.2.2	Off-Properties
Section 6.1.2.3	On-/Off-Properties

6.1.2.1 On-Properties

Soil

- The soil-to-indoor air RBCs developed for the industrial/commercial worker were exceeded by 1,1,2,2-tetrachloroethane, benzene, carbon tetrachloride, chloroform, ethylbenzene, methylene chloride, PCE, TCE, vinyl chloride, 1,2,4-trimethylbenzene, HCB, HCBD, and mercury in on-Properties shallow soil. Figure 3.1 in Appendix V shows the location of the exceedances of the RBCs in on-Properties shallow soil. Based on the Vapor Investigation, the OCC Office Building was found to need mitigation measures as discussed previously.
- The soil direct contact RBCs developed for the trespasser were exceeded by chloroform, total PCBs, 2,3,7,8-TCDD (TEQ), arsenic, and lead in on-Properties shallow soil. Figure 3.3 in Appendix V shows the location of the exceedances of the RBCs in on-Properties shallow soil.
- The soil direct contact RBCs developed for the industrial/commercial worker were exceeded by benzene, chloroform, PCE, TCE, HCB, HCBD, total PCBs, 2,3,7,8-TCDD (TEQ), arsenic, and lead in on-Properties shallow soil. Figure 3.5 in Appendix V shows the location of the exceedances of the RBCs in on-Properties shallow soil.

Sediment

- The sediment direct contact RBCs developed for the trespasser were exceeded by total PCBs, arsenic, and lead in on-Properties intertidal sediment. Figure 3.14 in Appendix V shows the location of the exceedances of the RBCs in on-Properties intertidal sediment.
- The sediment direct contact RBCs developed for the industrial/commercial worker were exceeded by total PCBs, arsenic, and lead in on-Properties intertidal sediment. Figure 3.16 in Appendix V shows the location of RBC exceedances in on-Properties intertidal sediment.

Groundwater

- The groundwater-to-indoor air RBCs developed for the industrial/commercial worker were exceeded by 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, benzene, carbon tetrachloride, chloroform, PCE, trans-1,2-dichloroethene, TCE, and vinyl chloride in on-Properties shallow groundwater. Figure 3.8 in Appendix V shows the location of exceedances of the RBCs in on-Properties shallow groundwater. Based on the Vapor Investigation, the OCC Office Building was found to need mitigation measures as discussed previously.
- The groundwater-to-ambient air RBCs, developed for the trespasser, were exceeded by vinyl chloride in on-Properties shallow groundwater. Figure 3.10 in Appendix V shows the location of exceedances of the RBCs in on-Properties shallow groundwater.
- The groundwater-to-ambient air RBCs, developed for the industrial/commercial worker, were exceeded by chloroform, TCE, and vinyl chloride in on-Properties shallow groundwater. Figure 3.11 in Appendix V shows the location of exceedances of the RBCs in on-Properties shallow groundwater.

6.1.2.2 Off-Properties

Soil

- The soil-to-indoor air RBCs, developed for the indoor industrial/commercial worker, were exceeded by 1,1,2,2-tetrachloroethane, benzene, ethylbenzene, tetrachloroethene, and mercury in off-Properties shallow soil. Figure 3.2 in Appendix V shows the location of the exceedances of the RBCs in off-Properties shallow soil. Based on the Vapor Investigation, POT Buildings 326 and 532 were found to need mitigation measures as discussed previously.
- The soil direct contact RBCs, developed for the trespasser, were exceeded by benzene in off-Properties shallow soil. Figure 3.4 in Appendix V shows the location of the exceedances of the RBCs in off-Properties shallow soil.
- The soil direct contact RBCs, developed for the industrial/commercial worker, were exceeded by 1,1,2,2-tetrachloroethane, benzene, and arsenic in off-Properties shallow soil. Figure 3.6 in Appendix V shows the location of the exceedances of the RBCs in off-Properties shallow soil.
- The soil direct contact RBCs, developed for the construction/utility worker, were exceeded by lead in off-Properties shallow soil. Figure 3.7 in Appendix V shows the location of the exceedances of the RBCs in off-Properties shallow soil.

Sediment

- The sediment direct contact RBCs, developed for the trespasser, were exceeded by total PCBs in off-Properties intertidal sediment. Figure 3.15 in Appendix V shows the location of the exceedances of the RBCs in off-Properties intertidal sediment.
- The sediment direct contact RBCs developed for the industrial/commercial worker were exceeded by total PCBs and 2,3,7,8 TCDD (TEQ) in off-Properties intertidal sediment. Figure 3.17 in Appendix V shows the location of the RBC exceedances in off-Properties intertidal sediment.

Groundwater

- The groundwater-to-indoor air RBCs developed for the industrial/commercial worker were exceeded by benzene, chloroform, PCE, trans-1,2-dichloroethene, TCE, and vinyl chloride in off-Properties shallow groundwater. Figure 3.9 in Appendix V shows the location of exceedances of the RBCs in off-Properties groundwater. . Based on the Vapor Investigation, POT Buildings 326 and 532 were found to need mitigation measures as discussed previously.
- The groundwater-to-ambient air RBCs, developed for the trespasser, were not exceeded for any COCs in off-Properties shallow groundwater.
- The groundwater-to-ambient air RBCs, developed for the industrial/commercial worker, were exceeded by vinyl chloride in off-Properties shallow groundwater. Figure 3.12 in Appendix V shows the location of exceedances of the RBCs in off-Properties shallow groundwater.
- The groundwater direct contact RBCs, developed for the construction/utility worker, were exceeded by benzene, chloroform, cis-1,2-dichloroethene, PCE, trans-1,2-dichloroethene, TCE, and vinyl chloride in off-Properties shallow groundwater. Figure 3.13 in Appendix V shows the location of exceedances of the RBCs in off-Properties shallow groundwater.

6.1.2.3 On-/Off-Properties

The groundwater RBCs for the fisher based on preliminary surface water cleanup levels were exceeded by 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, benzene, carbon tetrachloride, chloroform, methylene chloride, PCE, TCE, vinyl chloride, pentachlorophenol, 2,3,7,8-TCDD (TEQ), arsenic, chromium, copper, lead, mercury, nickel, thallium, and zinc conservatively assuming no mixing of shallow Site groundwater with surface waters. Figure 3.18 in Appendix V shows the location of exceedances of the preliminary cleanup levels for groundwater

6.2 Ecological Health Exposure Pathway Assessment

This section is structured as follows:

Section 6.2.1 Identification of Complete Exposure Pathways and Potentially Affected Ecological Receptors

Section 6.2.2 Media Screened in the EEPA

Section 6.2.3 Selection of Ecological Screening Values

Section 6.2.4 Summary of Ecological Screening

6.2.1 Identification of Complete Exposure Pathways and Potentially Affected Ecological Receptors

Potential ecological receptors and complete exposure pathways were identified based on consideration of the available habitat, and the distribution, fate and transport characteristics of the Site COCs. These ecological receptors and exposure pathways are shown schematically on Figure 6.1. Exposure pathways between terrestrial ecological receptors and Site COCs in soil and groundwater were considered incomplete because of the following factors:

1. The upland portion of the Site has no functional terrestrial habitat and is subject to ongoing human activity that discourages habitation by terrestrial wildlife
2. Adjacent properties are similarly devoid of terrestrial habitat and also subject to human disturbance
3. Much of the upland portion of the Site is covered with impermeable covers or buildings that will prevent contact between ecological receptors and Site COCs in soil

Consequently, exposure to Site COCs and attendant risks to terrestrial ecological receptors was assumed to be negligible.

Ecologically significant exposures to biota in nearshore Commencement Bay sediments were also considered to be negligible even though a plume of high CVOC concentrations occurs at the northern end of the peninsula, proximate to Commencement Bay. However, the highest CVOC concentrations occur deep below the mudline and are within the dense salt water zones and the ADP. These CVOCs migrated down into the salt water zones with the ADP. Given the relatively high density of the ADP and its considerable depth below the mudline, the high concentrations of CVOCs within the salt water zones likely will not discharge to nearshore Commencement Bay sediments. A much less concentrated CVOC plume exists at shallower depths within freshwater lens atop the ADP. These CVOCs will discharge to nearshore Commencement Bay sediments; however, the concentrations of CVOCs in shallow groundwater are below problematic levels.

Complete exposure pathways do exist between Site COCs and the biota of the nearby Waterway. The EEPA focused on potential risks to aquatic and semi-aquatic biota of the Waterway. The following exposure pathway-receptors were explicitly considered.

- i) The primary exposure pathway is from discharge of shallow contaminated groundwater to the Waterway via seeps and subtidal discharge along the embankment in the immediate vicinity of the Waterway. In turn, the primary ecological risks from shallow groundwater discharge to the Waterway pertain to direct toxicity to the benthic macroinvertebrates and sediment-associated fish (e.g., sole and other flatfish) that reside in or on the sediments.
- ii) A secondary exposure pathway exists between aquatic biota and Site COCs in surface sediments located in the embankment area and Area 5106. Although Area 5106 was dredged, residual chemicals persist in some of the surface sediments. The primary Site COCs present in Area 5106 do not readily bioaccumulate, so this exposure pathway pertains primarily to direct toxicity to aquatic benthos. Future planned sampling in the Waterway will determine the nature and extent of potential residual chemical concentrations in the sediments.
- iii) There are also small areas in which bioaccumulative compounds (PCBs, dioxin/furans, DDT and its metabolites) have been released to embankment materials and intertidal sediments. The primary receptors considered for these chemical were benthic fish, which were assessed to be both most exposed and most sensitive to these chemicals¹².

¹² Because the bioaccumulative substances are taken up by both benthic invertebrates and benthic fish, all of the organisms consuming these organisms also are exposed. However, the exposures to predators further up the food chain are greatly limited by the very small area of contamination compared to home and foraging ranges of upper predators. This limitation is well illustrated by considering risks to birds that forage on benthic invertebrates and fish impacted by the Site's PCBs. The area of sediments with elevated PCB concentrations is less than 4 acres and may be considerably smaller. This very small area is not amenable to foraging by wading birds such as herons because it is either subtidal or sharp-sloped intertidal. Hence, fish eating birds foraging here will be limited to diving predators, such as gulls, eagles, and osprey. These birds have very large home ranges. For example, EPA's 1993 Wildlife Exposure Factors Handbook Volume I states that osprey will travel "10 to 15 km" to forage. Using the lower number and assuming a half-circle of foraging area (as for foraging from a nest on a straight shoreline) suggests a foraging area of about 60 square miles, or about 39,000 acres. Conservatively dividing this area by 10 still suggests a foraging area of about 4,000 acres, which is at least 1,000 times larger than the area with elevated PCBs next to the Site. Exposure to fish eating birds to this small area also is reduced because these fish-eating birds primarily eat fish at the water surface, which are fish species facing comparatively limited exposure to sediment bound contaminants. Lastly, the nearshore where much of the higher PCB contamination occurs is an intertidal area of mostly rocky habitat. Bioaccumulation and food chain exposure to PCBs, which will adhere to silty sediments under and in the interstices of the rocks, will be very limited here because the food chain is largely epilithic (i.e., based on rock surfaces). The epilithic food chain essentially is based on the very negligible water column concentrations. Consequently, foraging birds' exposure is, as assumed above, considerably below that faced by benthic invertebrates and benthic fish, which are both conservatively assumed to always reside in the relatively small area contaminated with PCBs.

Other aquatic and semi-aquatic biota are exposed to Site COCs. However, their exposures to Site COCs are greatly limited by tidal dilution, fate processes, and/or by the small areal extent of contamination compared to the home ranges of biota. Hence, levels of Site COCs protective of benthic invertebrates and benthic fish were assumed to provide ample protection to the other biological communities of the Waterway.

6.2.2 Media Screened in the EEPA

Based on the complete exposure pathways identified above, the most critical exposures of Site COCs are to benthic macroinvertebrates and benthic fish. In turn, the most critical exposure media are the sediments and associated porewater in the surface sediments in which benthic organisms actually live (i.e., top 10 cm). Chemical concentrations have been measured in a variety of media that can potentially be used to estimate, with varying degrees of validity, chemical concentrations in those top layers of sediments. These include groundwater, seeps, surficial sediments, seepage meter samples, and groundwater collected in the top 3 ft of sediments. Conservatively, the last is treated as sediment porewater even though most of these samples were collected from sediment strata 1 ft or more below the biological zone.

6.2.3 Selection of Ecological Screening Values

The Site COCs fall into four general groups: high pH, non-polar organics (VOCs and SVOCs), heavy metals, and bioaccumulating substances (PCBs, dioxin/furans, and DDT and metabolites). Potential toxic effects of these four groups were considered separately as follows. Potential toxicity of high pH was assessed with Washington State's water quality criterion (WQC) for protection of aquatic life. Similarly, potential effects of metals in water were assessed with WQC, while those in bulk sediment were assessed with Commencement Bay SQOs.

Potential risks from non-polar organics were screened based on recent USEPA guidance (USEPA, 2008c). This guidance suggests that most all of the SVOCs and VOCs have the same mode of toxicity (narcosis). The potential narcotic toxicity of all of the SVOCs and VOCs was summed to account for the potential additive toxicity of all of the organics. The method produces targets for each organic in the water column, which are applicable to groundwater, seepage, and sediment porewater concentrations. These water column targets were then extrapolated to bulk sediment concentrations using equilibrium partitioning and Site-specific concentrations of organic carbon in surface sediments. In turn, these sediment targets can be used to screen bulk sediment concentrations for toxicity from the organics. The screening levels for non-polar organics described above differ from those previously used at the Site. In general, the previously-used screening levels for sediments and porewater pertain to human health risks and, thus, are not useful for assessing ecological risk.

Concentrations for bioaccumulative compounds including PCBs, DDT and metabolites, and dioxin/furans, were screened against the preliminary clean-up levels for the Site. In general, these clean-up levels were based on protection of human health rather than criteria protective of ecological receptors. However, these preliminary clean-up levels were found sufficiently protective of ecological receptors and were used for the EEPA.

6.2.4 Summary of Ecological Screening

To make the screening more informative, chemical concentrations in individual samples of relevant media were screened against ecological screening values (ESVs). This method identified the samples, media, areas, and chemicals that are potentially most problematic (i.e., having highest levels of chemicals compared to ESVs). In turn, these would be most warranting of further assessment or risk management or remediation. As noted above, individual samples of the five media were screened for potential risks from elevated pH, non-polar organics, metals, and the bioaccumulating substances.

As explained in more detail in Appendix V, ESVs are, by intent, very conservative and some ESVs, especially those for bulk sediments, lack a rigorous scientific basis. Consequently, minor to moderate exceedances of ESVs are not strong evidence of ecological impacts; rather, these exceedances suggest that more refined analyses should be conducted. Moreover, ecological risks pertain to communities and populations of animals; consequently, impacts on small areas or on small numbers of individuals are considered *de minimis*. These limitations of screening for ecological risk are discussed in more detail in the Exposure Pathway Analysis (Appendix V).

Screening of pH

While pH was above the WQC in some samples, these exceedances tended to occur most often in undiluted groundwater, the least valid surrogate for surficial sediment porewater. In contrast, pH was never above the WQC in the media most relevant to actual exposure (surficial sediments and seepage meter samples), and only infrequently in sediment porewater and seeps. Consequently, elevated pH is not likely to cause ecologically significant impacts because exceedances were limited to very small areas and in media that are less representative of actual exposure. In addition, societally important receptors such as finfish and crabs are not expected to be directly impacted by elevated pH because these more mobile species will just move away from the high pH seeps. However, impacts to sedentary benthos caused by elevated pH in limited areas cannot be dismissed, although these small-scale impacts are not likely to pose population level risks even to most exposed, sedentary benthos. Thus, it is uncertain whether these limited areas should prompt remediation and/or risk management.

Screening of Non-Polar Organics

Chemical concentrations of non-polar organics (SVOCs and VOCs) in groundwater under the Site frequently exceeded ESVs. However, groundwater is the medium least relevant to actual exposure to benthos. Although shallow impacted groundwater beneath the Site can discharge to the Waterway, actual data from the more relevant exposure media (i.e., surface sediments, sediment porewater, seepage meter samples, and seeps) are almost always below ESVs. There are infrequently elevated concentrations in some Area 5106 sediments and embankment intertidal sediments. The areal extents of these exceedances is too small to cause ecologically-significant population level impacts on benthos.

In summary, non-polar organics likely do not currently pose ecologically significant impacts to aquatic life, although potential impacts in small localized areas are possible. As with pH, these potential localized impacts are not likely to cause population-level effects. Therefore, it is uncertain whether these small, localized areas may need remediation, risk management, and/or further refined risk assessment.

Screening of Metals

Based on metals concentrations in bulk sediments, most surface sediments are likely not toxic to benthos. However, a small number of sediment samples collected along the embankment exceeded their respective conservative ESVs.

Concentrations of metals measured in water media (groundwater, sediment porewater, seeps, and seepage meter samples) appear to be biased high due to interferences associated with the Site's groundwater matrix. Therefore for the purposes of the EEPA, empirically derived correction factors were applied to measured concentrations of arsenic, chromium, copper, nickel, and zinc. The corrected water concentrations were then compared to ESVs protective of aquatic life. The low level of potential risk associated with bulk sediment chemistry was generally corroborated by the corrected metals concentrations measured in seepage meter samples, groundwater, and sediment porewater. However, concentrations of metals in several embankment water samples were above the ESVs. In general, however, the exceedances were due to metals, such as lead and mercury, for which correction factors were not applied. Therefore, it is not known whether these exceedances are real or due to uncorrected matrix interference. Moreover, the levels of exceedances were often nominal - less than 5 times the ESV¹³, suggesting little potential for toxicity. Nonetheless, risks from metals in the embankment sediments and water media could not be dismissed with available information.

¹³ ESVs are intentionally conservative and sometimes lack good scientific basis and/or quality control. Given the very conservative nature of ESVs, concentrations of less than 5 times EVSs are typically considered ecologically unimportant.

Therefore, these areas may need remediation, risk management, and/or further refined risk assessment.

Screening of Bioaccumulating Substances

Concentrations of PCBs, DDT and its metabolites, and dioxin-furans exceeded their respective ESVs in a small number of the embankment sediment samples. Again, the areal extent and magnitude of these exceedances are potentially too small to cause population level impacts, but ecological risks from these chemicals cannot be dismissed with the available information. Therefore, these areas may require some remediation, risk management, and/or further refined risk assessment.

6.3 Conclusions

Human health and ecological exposures are discussed in Sections 6.3.1 and 6.3.2, respectively. Primary risk drivers are summarized in Section 6.3.3.

6.3.1 Human Health Exposures

Corrective action, risk management measures, or further evaluation during remedy design may be needed to mitigate potential human exposure to COCs in various media on and off Properties. Figures 6.1 through 6.7 in Appendix V present on- and off-Properties locations where the concentration of one or more COCs exceeded the risk-based standards (RBSs) developed for the various Site media.

- Figures 6.1 and 6.6 in Appendix V present areas that may need further action based on indoor air inhalation exposure due to vapor intrusion of: a) COCs in soils (5 areas); or b) COCs in groundwater (5 areas), respectively. Based on the Vapor Investigation, POT Buildings 326 and 532 and the OCC Office Building were found to need mitigation measures as discussed previously
- Figures 6.2 and 6.3 in Appendix V present areas that may need further action based on direct contact with COCs in: a) soils (5 areas); or b) sediments (2 areas), respectively
- Figures 6.4 and 6.5 in Appendix V present areas that may need further action based on inhalation exposure to COCs volatilizing from: a) soil vapor-to-ambient air (4 areas); or b) groundwater-to-ambient air (3 areas), respectively
- Figure 6.7 in Appendix V presents areas that may need further action based on direct contact with off-Properties shallow groundwater (4 areas)

As noted previously, Figure 3.18 in Appendix V presents locations that may need corrective action, risk management measures, or further evaluation during the remedy design to address the groundwater-to-surface water pathway.

6.3.2 Ecological Exposures

In general, the EEPA did not find evidence of unacceptable ecological risk. Moreover, for the bulk of the Waterway aquatic ecosystem (e.g., the water column everywhere and sediments of the dredged channel bottom and far shore embankment), ecological risks could be dismissed with certainty. However, ecological risks associated with some receptor/COC combinations in the nearshore embankment could not be dismissed with available data or could potentially pose risk under some future scenarios.

For example, pH exceeds ARARs in some seeps and sediment porewater samples of the embankment. These areas are too limited in size compared to the total sediment area and too limited in terms of severity of impact to cause unacceptable ecological risk. Additionally, exceedances of pH did not occur in the media that more reliably indicate actual exposure (e.g., surface sediment samples, seepage meter samples). Similarly, small areas of embankment sediment exceeded ESVs for bioaccumulating organics (e.g., PCBs, DDT and metabolites). Again, however, these areas and levels of exceedance are probably both too limited to cause ecological impacts. In both cases, then, the receptor/COC combinations may need additional information/input to reduce the uncertainty about the ecological risk. For example, the Site-specific bioavailability of these bioaccumulative chemicals is uncertain and critical to refining estimates of risk. Alternately, these receptor/COC combinations may need risk management, especially in those areas where multiple contaminants are elevated.

Concentrations of metals in sediments, porewater, seeps, and groundwater were above screening levels in some areas of the nearshore embankment area. As with pH and bioaccumulating organics, the spatial extent and level of exceedances for heavy metals are both generally limited, again suggesting limited potential for ecologically significant risks. However, the assessment for metals is limited by uncertainty concerning the quantification of metals, which was apparently significantly impacted by matrix interference. Thus, potential risk to aquatic benthos from metals may need additional analyses to better assess actual metals concentrations and refine the risks from heavy metals. Future planned sampling in the Waterway will determine the nature and extent of potential residual metals concentrations in the sediments.

A last issue pertains to VOCs and SVOCs. These COCs pose additive risk to aquatic life. As a result, the potential toxicity and risks of these different classes of compounds were conservatively, and appropriately, considered together in the EEPA. In general, there were very

little if any areas where these organics were found to be problematic in more reliable exposure media (e.g., surface sediments, porewater, or seepage meter samples). Thus, current ecological risks from combined toxicity of VOCs and SVOCs likely are not problematic. However, high concentrations of VOCs/SVOCs were found in groundwater under the Site adjacent to the Waterway. This concentrated VOC/SVOC plume could cause ecologically significant effects if it discharged to the Waterway without attenuation in the future.

6.3.3 Primary Risk Drivers

Figure 6.2 presents a schematic CSM of the various exposure pathways for both human and ecological receptors evaluated within the Exposure Pathway Assessment as well as the primary risk drivers in the Site media.

Section 7.0 Summary, Conclusion, and Recommendation

7.1 Summary

OCC has been working with the USEPA and Ecology to address remaining environmental issues at the Alexander Avenue Site located in Tacoma, Washington, under an AOC [USEPA Docket No. 10-07-0011 CERCLA]. The work activities required under the AOC are outlined in the "Statement of Work for the Administrative Order on Consent" (SOW) (CRA, 2005). OCC has completed field investigations required under all Tasks of the SOW. Additional work not anticipated in the SOW has also been scheduled and conducted consistent with the AOC.

The purpose of this Site characterization is to evaluate the data collected from all investigations at the Site and to adequately characterize the contamination of soil, sediment, and groundwater underlying the Site; evaluate the environmental risks posed; and allow development and evaluation of remedial design alternatives to address those risks. The Site characterization presented in this SCR is based upon the analytical and hydraulic data collected from various groundwater, soil, and sediment investigations performed at the Site. The presented data includes both "new" data collected during the most recent investigations (May 2005 through October 2013) and relevant "historical" data collected during previous investigations (1993 through 2004).

Site Description

The Site is located on the eastern-most peninsula of the area of ownership and operations of the POT that extends into Commencement Bay at the mouth of the Puyallup River Valley and is defined in the AOC. The properties owned and/or operated on by OCC or its predecessors include: 605 and 709 Alexander Avenue. These properties are bounded on the west, north,

and south by former U.S. Navy property (now owned by the POT or U.S. Navy), and on the east by the Waterway.

Prior to 1920, the properties which comprise the Site were undeveloped tidal mudflats. Between 1920 and 1936, the area was filled with approximately 16 ft of dredge material, primarily sand, as part of an upland expansion project.

OCC and its predecessor's chemical manufacturing operations began at the Site in 1929 and continued until 2002. OCC Tacoma, a wholly owned subsidiary of OCC, acquired the property at 709 Alexander Avenue from PRI Northwest, Inc. (PRI) in 1997. Previous owners of the 709 Alexander Avenue property included Fletcher Oil, which acquired it in 1938 from Norton and Mary Clapp. Historic activities conducted on the property at 709 Alexander Avenue, as well as the POT property at 721 Alexander Avenue, have included fuel storage, blending, and distribution activities.

Physical Setting

The geologic deposits beneath the Site consist of the following:

- Fill - variable mixture of sand, silt, and gravel material placed through dredging of the Hylebos and Blair Waterways to develop the Site peninsula. The thickness of the fill across the Site ranges from approximately 10 to 16 ft).
- Deltaic deposits - heterogeneous mixture of interbedded sands, silts, and clays. The thickness of the deltaic deposits across the Site ranges from approximately 30 ft to 200 ft in the eastern and northeastern portion of the Site to greater than approximately 300 ft in the southwestern portion of the Site.
- Glacial deposits - heterogeneous mixture of interbedded gravel, sands, silts, and clays. The thickness of the glacial deposits beneath the Site is more than 1,000 ft. The top surface of the glacially-derived deposits slopes downward to the north, west, and south from a mound observed under the central portion of the Site. The glacial deposits were not encountered at borings in the west, southwest, and south portion of the Site peninsula and is inferred to dip downward in this area below the depth of the Site borings.

The Site stratigraphic data indicate that there is an increased frequency of lower permeability lenses, comprised mainly of silt and clay, in the lower deltaic deposits. A discrete continuous layer of low permeability material is not observed in Site borings in the lower deltaic deposits. However, the groundwater quality, density, and hydraulic evidence supports the concept that the increased frequency of lower permeability lenses limits vertical flow creating a zone of apparent confining effect in the lower deltaic deposits.

Groundwater beneath the Site discharges to the surrounding surface water bodies. Fresh groundwater inflow toward the Site peninsula occurs from the south due to upland regional groundwater flow along the Puyallup River Valley, and from the east due to regional groundwater flow in the Bluffs aquifers discharging to the Valley. Infiltration of precipitation over the Site peninsula contributes a further source of fresh groundwater, and establishes a shallow radial groundwater flow pattern towards the surface water bodies. Naturally occurring influences on groundwater flow at the Site include:

- The presence of discontinuous, low-permeability mud flats that, where present, create a hydraulic separation with the underlying deltaic deposits
- The presence of a zone of apparent confining effect in the lower deltaic deposits that results in upward vertical hydraulic gradients between the upper glacial and lower deltaic deposits
- Fresh groundwater and salt water distributions exist adjacent to the salt water bodies that are influenced by aquifer heterogeneities, hydraulic pressure and fresh groundwater flow rate in the aquifer, thickness and hydraulic properties of the aquifer and adjacent confining units, and relative densities of salt water and fresh groundwater
- The fresh groundwater and salt water zones are separated by a transition zone within which there is mixing between fresh groundwater and salt water

Releases of high density liquids from historical Site operations/processes (lime sludge/solvent residue, caustic soda, and salt brine) have a critical influence on groundwater flow and contaminant transport.

Nature and Extent of Contamination

The SCR describes the nature and extent of contamination in the following media: unsaturated soil, saturated soil, groundwater, sediment, soil vapor, ambient air, and indoor air.

The nature and extent of contamination in unsaturated soil is summarized as follows:

- CVOCs, primarily as PCE, are present in unsaturated soils at concentrations exceeding the CSI soil screening criteria for unsaturated soils. This presence is limited primarily to the vicinity of WMU A, the Salt Pad/WMU G, WMU H, and the N Landfill
- Site SVOCs, primarily as HCB, are present in unsaturated soils at concentrations exceeding the CSI soil screening criteria within the same general areas as CVOCs
- PCBs are present in unsaturated soil at concentrations exceeding the CSI soil screening criteria primarily near the former Navy-Todd Dump and the N Landfill

- Metals, primarily copper, but to a lesser degree arsenic, total chromium, and nickel, are present at concentrations exceeding the CSI soil screening criteria in the vicinity of the Salt Pad/WMU G and along the embankment

The nature and extent of contamination in saturated soil is summarized as follows:

- CVOCs, primarily as PCE, TCE, and associated degradation products, are present in saturated soils at concentrations exceeding the CSI soil screening criteria for saturated soils. This presence is greatest below the Facility near WMU A, the Salt Pad/WMU G, and WMU R, as well as below the Waterway. CVOCs are present to a lesser degree along the embankment and in the vicinity of the N Landfill.
- Site SVOCs, primarily as HCB, are present in saturated soils at concentrations exceeding the CSI soil screening criteria within the same general areas as CVOCs.
- Pesticides and PCBs are present in saturated soil at concentrations exceeding the CSI soil screening criteria along the embankment primarily near the former Navy-Todd Dump and the N Landfill.
- The greatest exceedance for metals occurs in the vicinity of the N Landfill, where mercury exceeds the CSI soil screening criteria by an EF of 88,550. Other metals, primarily copper, total chromium, nickel, and zinc, are present at concentrations exceeding the CSI soil screening criteria in almost all samples analyzed for metals. The highest concentrations occur along the embankment and in the vicinity of the N Landfill.

The nature and extent of contamination in groundwater is summarized as follows:

- The presence of DNAPL has been confirmed in the vicinity of the Salt Pad/WMU-G and WMU-R within the 25-ft and 130-ft zones
- CVOCs are present in groundwater at concentrations above the groundwater screening criteria
 - 25-ft zone – The areas of highest concentrations are located near the Salt Pad and WMU A
 - 50-ft zone – The extent of PCE and TCE is similar to the 25-ft zone, but the extent of VC increases significantly within the 50-ft zone area beyond the limits of PCE and TCE toward the eastern side of the Waterway
 - 75-ft zone – The highest CVOC concentrations extend eastward under the Waterway, with lower concentrations extending further north
 - 100-ft zone – The area of highest concentration is somewhat reduced, but has migrated further north

- 130-ft zone – The area of highest concentration are somewhat reduced, but have migrated north and east when compared to the 100-ft zone
- 160-ft zone – CVOC concentrations in the 160-ft zone are reduced compared to the 130-ft zone, but the plume continues to migrate northward
- Site SVOCs, primarily as HCB, are present along the embankment and beneath the Waterway at depths up to 122 ft BGS
- PCBs are present in groundwater primarily along the embankment in the vicinity of the Navy-Todd Dump and N Landfill and below the Waterway
- Metals, primarily copper, nickel, and arsenic are present at concentrations exceeding the groundwater screening criteria. The highest concentrations occur in the vicinity of the Salt Pad, along the embankment, and beneath the Waterway
- Elevated pH groundwater is present above the groundwater screening criteria
 - 25-ft zone – elevated pH was measured across the Site, with the highest values (>13 su) detected along the eastern portion of the Site beneath the former plant production areas
 - 50-ft zone – the extent of the highest pH values increases in size relative to the 25-ft zone and is located more to the north toward the Salt Pad
 - 75-ft zone – the extent of the pH plume within the 75-ft zone is reduced relative to the 50-ft zone, but has migrated east with the highest groundwater pH (>12 su) located in the vicinity of the former caustic tanks and the south end of Dock 1
 - 100-ft zone – the pH plume has migrated north and east, with the highest pH near the north end of Dock 1, but is limited to beneath the Facility and Waterway
 - 130-ft zone – the pH plume continues to migrate northeast
 - 160-ft zone – the area of high pH values is much smaller in the 160-ft zone, with the highest readings diminishing
- The seep study performed in the Waterway confirmed that seepage of impacted groundwater was occurring to some extent into the Waterway

The nature and extent of contamination in sediment is summarized as follows:

- PCE is present in sediment at concentrations exceeding the sediment cleanup level. This presence is limited primarily to Area 5106 and adjacent to the N Landfill
- Site SVOCs, primarily as HCB and HCBD, are present in sediment at concentrations exceeding the sediment cleanup levels within the same general areas as PCE, as well as along the embankment near Dock 1

- Pesticides, primarily 4,4'-DDD, are present in sediment along the embankment near Dock 1 and the N Landfill
- PCBs are present in sediment along the embankment at concentrations exceeding the sediment cleanup level primarily near Pier 25, the former Navy-Todd Dump, and the N Landfill
- Metals, primarily lead, are present in sediment at concentrations exceeding the sediment cleanup levels along the embankment

The nature and extent of contamination in soil vapor and indoor air is summarized as follows:

- Indoor sources: 1,2,4-TMB, 1,4-DCB, BZ, chloroform, EB, naphthalene, TCE, PCE, o-xylene, and styrene
- Outdoor sources: BZ, CT, chloroform, and EB
- Sub-slab source: TCE

The nature and extent of VOC Source Zones is summarized as follows:

- DNAPL is found mainly in the 15-ft, 25-ft and 130-ft zones
- No confirmed DNAPL was detected in the 50 and 75 ft zones
- The confirmed DNAPL source zone in the 15-ft zone is primarily located in the area of WMU-G and appears to have migrated plant north
- The estimated total confirmed DNAPL mass is approximately 6.4 million pounds (2.9 million kg)
- The greatest percentage of confirmed DNAPL mass (58%) occurs within the 130-ft zone
- Approximately 26% of the confirmed DNAPL mass occurs in the 15- and 25-ft zones

Contaminant Fate and Transport Processes

Site investigations have confirmed that there are four primary groundwater plumes: the ADP, pH plume, CVOCs, and metals. Other COCs at the Site include SVOCs, PCBs, and dioxins/furans. Manufacturing operations at the Site generated wastes that were managed on Site. Waste management practices included: wastewater treatment (settling) ponds, settling barges, landfills, disposal pits, and waste piles. In total, seventeen (17) WMUs were historically located at the Site, in addition to the Navy Todd Dump. Key potential "source areas" where the vast majority of releases of the principal COCs occurred have been defined as summarized below:

- VOC potential sources – former solvent production and WMUs

- Caustic potential sources – primarily sodium hydroxide released from the Caustic House and caustic storage/handling areas
- Salt potential sources – primarily piles of salt stored on the Salt Pad and brine sludge kept in storage tanks
- Metals potential sources – primarily Navy Todd Dump, N-Landfill, and metals contaminated embankment fill areas
- SVOC potential sources – HCB and HCBD are by-products of solvent production and are found in the areas of solvent production or waste handling/disposal areas
- PCB potential sources
- Dioxin/Furan potential sources

Contaminants may migrate from the potential source areas noted above via several routes of migration, as listed below:

- DNAPL migration
- Migration of dissolved-phase with the ADP
- Displacement migration at the perimeter of the ADP
- Migration of dissolved-phase with fresh groundwater
- Migration to indoor and ambient air

The potential sources of COCs originated at the surface or near surface in various locations around the Site. The organic COCs are from liquids disposed on or released at the surface. The ADP is derived from the dissolution of salt, caustic, and lime sludge, the solubilities of which were enhanced by high-pH source materials.

When a DNAPL is released, it migrates downward through the unsaturated zone by gravity-driven flow. Depending on the volumes released, the DNAPL can be trapped by capillary forces and result in residual DNAPL. If sufficient volume is released, migration to the water table and beyond can occur. Based on data collected, DNAPL at the Site has penetrated over 130 ft into the subsurface.

The ADP behaves similarly to a DNAPL, in that the liquid has a higher density than natural fresh water and salt water, and therefore will migrate downward by gravity-driven flow. Also, like a DNAPL, the density plume will not mix readily with the groundwater due to the density difference between the groundwater and the ADP. The ADP has migrated away from the potential source areas via density-dependent flow and has spread laterally.

Groundwater flowing past DNAPL can dissolve a quantity of the COCs and transport them away from the release locations. The shallow groundwater has the potential to discharge to the Waterway, and the deeper groundwater may discharge to Commencement Bay. This would result in the discharge of dissolved COCs to the adjacent waterways.

Precipitation, as runoff, could carry COCs released to the surface into the storm sewers and/or into adjacent water bodies. The waste liquids would have also penetrated into the soil and migrated downward, contacting the groundwater and soil beneath the Site.

Once away from the potential source areas, the VOCs dissolved in the shallow groundwater may volatilize into the soil gas and potentially into the indoor and ambient air at the Site.

The metals in the soil and groundwater at the Site originate not only from Site-related processes, but also occur naturally in the soil. The metals can be mobilized into the groundwater from contact with liquid waste (e.g., high-pH water) and/or infiltrating precipitation. The metals would then migrate downward to the water table and would be transported by the groundwater to potentially discharge to the Waterway adjacent to the Site. The high density flow would also transport the metals deeper beneath the Site.

Exposure Pathway Assessment

The HHEPA indicated that corrective action, risk management measures, or further evaluation during remedy design may be required to mitigate potential human exposure to COCs in various media on and off Properties. Potential complete exposure pathways include:

- Indoor air inhalation exposure due to vapor intrusion of: a) COCs in soils (5 areas); or b) COCs in groundwater (5 areas), respectively
- Direct contact with COCs in: a) soils (5 areas); or b) sediments (2 areas), respectively
- Ambient air inhalation exposure to COCs volatilizing from: a) soil vapor-to-ambient air (4 areas); or b) groundwater-to-ambient air (3 areas), respectively
- Direct contact with Off-Properties shallow groundwater (4 areas)
- Groundwater-to-surface water pathway

In general, the EEPA did not find evidence of unacceptable ecological exposure. For the bulk of the Waterway aquatic ecosystem (e.g., the water column everywhere and sediments of the dredged channel bottom and far shore embankment), ecological risks could be dismissed with

good confidence¹⁴. However, ecological exposures associated with some receptor/COC combinations in the nearshore embankment could not be dismissed with available data or could potentially result in unacceptable exposure under some future scenarios. It is noted that future planned sampling in the Waterway will determine the nature and extent of potential residual chemical concentrations in the sediments, and the conclusions of the EEPA will be revisited.

7.2 Conclusion and Recommendation

Based on the data collected and presented in this report, it is concluded that Site conditions have been sufficiently characterized, and it is recommended to proceed with development and evaluation of remedial alternatives.

Section 8.0 References

- Akagi, T., and H. Haraguchi, 1990. Simultaneous multi-element determination of trace metals using 10 mL of seawater by inductively coupled plasma atomic emission spectrometry with gallium coprecipitation and microsampling technique. *Analytical Chemistry*. 62:81-85.
- Allen-King, R.M., L.D. McKay, and M.R. Trudell, 1997. Organic Carbon Dominated Trichloroethene Sorption in a Clay-Rich Glacial Deposit. *Ground Water* 35(1):124-130.
- Appelo, C.A.J., and D. Postma, 1993. *Geochemistry, Groundwater and Pollution*, A.A. Balkema, Rotterdam, Netherlands.
- Aronson, D., Citra, M., Shuler, K., Printup, H., and Howard, P.H., 1999. *Aerobic Biodegradation of Organic Chemicals in Environmental Media: A Summary of Field and Laboratory Studies*, Environmental Science Center Syracuse Research Corporation.
- Aronson, D., and Howard, P.H., 1997. *Anaerobic Biodegradation of Organic Chemicals in Groundwater: A Summary of Field and Laboratory Studies*, Environmental Science Center Syracuse Research Corporation.
- ATSDR, 1998. Toxicological Profile for CDDs.
<http://www.atsdr.cdc.gov/toxprofiles/tp104-c5.pdf>.
- Baird, C., 1999. *Environmental Chemistry*. 2nd Edition. W.H Freeman and Co., New York.

¹⁴ There is some uncertainty regarding this issue since samples of dredged areas and far shore sediments were not analyzed for SVOCs. Thus, it is possible that Site-related SVOCs (e.g., HCB and HCBd) might occur in these areas. This is, however, a small uncertainty given that these compounds do not move readily in either groundwater or surface water. Moreover, this small potential will be addressed by the future planned sampling of the Waterway.

- Borden, R.K. and K.G. Troost, 2001. Late Pleistocene Stratigraphy in the South-Central Puget Lowland, Pierce County, Washington, Washington State Department of Natural Resources, Washington Division of Geology and Earth Resources, Report of Investigations 33. Available online at <http://www.dnr.wa.gov/geology/pdf/ri33.pdf>.
- Cleverly, D.J. Schaum, G. Schweer, J. Becker, and D. Winters, 1997. The congener profiles of anthropogenic sources of chlorinated dibenzo-p-dioxins and chlorinated dibenzofurans in the United States. *Organohal. Comp.* 32: 430–435.
- CMA, 2006. Seepage Meter Monitoring Report, Subtidal/Hydraulic Investigation, Groundwater and Sediment Remediation, Occidental Chemical Corporation, Tacoma, Washington, Draft, November.
- Cohen, R.M. and J.W. Mercer, 1993. DNAPL Site Evaluation, EPA/600/R-93/022, February 1993.
- CRA, 1994. Hylebos Waterway Pre-Remedial Design Report.
- CRA, 1996. Work Plan; Characterization of the Embankment Along the Hylebos Waterway at the OxyChem Tacoma Facility, ref. no. 7842 (1).
- CRA, 1996. PRI Source Identification Program Report, ref. no. 1002 (143), February.
- CRA, 1997. Sample and Analysis Plan – Embankment Area Removal Action, ref. no. 7842 (6), June.
- CRA, 1999. Embankment Area Characterization Report, ref. no. 7842 (12), January.
- CRA, 1999. Supplement A to the Embankment Area Characterization Report, ref. no. 7842 (13), July.
- CRA, 2003. Post-Treatment Work Plan, ref. no. 7421 (36), April.
- CRA, 2003. Draft Post-Treatment Characterization Report, ref. no. 7421 (37), September.
- CRA, 2004. Draft Work Plan 721 Alexander Avenue, Groundwater Investigation, ref. no. 7843 (58), June.
- CRA, 2004. Draft Rapid pH Assessment Report (Revised July 1, 2004), ref. no. 7843 (21), July.
- CRA, 2004. Draft Work Plan, Groundwater Remediation, Embankment Area Removal Action and Area 5106 Capping, ref. no. 7843 (58), June.
- CRA, 2004. Summary of Previous Investigations, March.
- CRA, 2004. Interim Groundwater Analytical Data Report, 709/721 Alexander Avenue, August.
- CRA, 2004. Interim Data Report, Supplemental Field Investigations, ref. no. 7843 (67), October.
- CRA, 2005. Statement of Work for Administrative Order of Consent, ref. no. 7843 (59), January.
- CRA, 2007. Interim Deliverable 4.6: Presentations of Hydraulic Data from 709/721 Alexander Investigation.
- CRA, 2012. Comprehensive Supplemental Investigation Work Plan, ref no. 7843 (111), April.

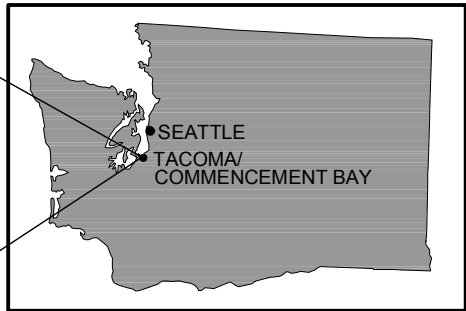
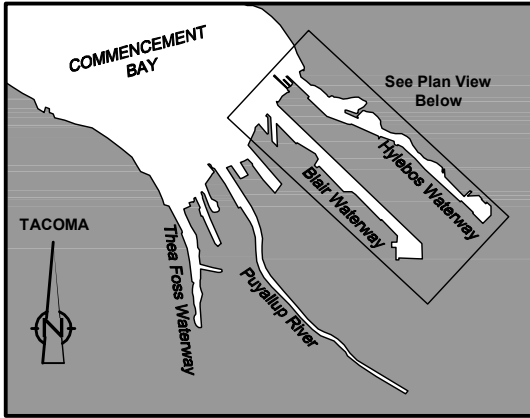
- CRA, 2013a. Extraction Well Pilot Test Installation Work Plan, ref no. 7843 (124), June.
- CRA, 2014a. Final Conceptual Site Model Report, ref no. 7843 (131), April.
- CRA, 2014b. Revised Draft Vapor Investigation Report, ref no. 7843 (129), May.
- CTech, 2007. MVS (Mining Visualization System)/EVS (Environmental Visualization System), Version 8.54, Kaneohe, Hawaii.
- Ecology, 2009. Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action, Toxics Cleanup Program, Publication No. 09 09 047, Review Draft, October.
- Ecology, 2009. Long-Term Marine Water Quality Data, Marine Water Monitoring, State of Washington, April 2, 2009
(<http://www.ecy.wa.gov/apps/eap/marinewq/mwdataset.asp?ec=no&scrolly=0&htmlcsvpref=csv&estuarycode=1&theyear=2004&themonth=2&staID=20>)
- Ellis, A.S., Johnson, T.M., and T.D. Bullen, 2002. Chromium Isotopes and the Fate of Hexavalent Chromium in the Environment. Science v. 295 no. 5562.
- European Commission, 2001. Integrated Pollution Prevention and Control (IPPC). Reference Document on Best Available Techniques in the Chlor-Alkali Manufacturing Industry. December. (http://eippcb.jrc.ec.europa.eu/reference/BREF/cak_bref_1201.pdf)
- Evanko, C.R., and Dzombak, D.A. (1997) Remediation of Metals-Contaminated Soil and Groundwater. Ground-Water Remediation Technologies Analysis Center.
- Fetter, C.W., 1999. Contaminant Hydrogeology. 2nd ed. Waveland Press Inc., Long Grove, IL.
- Frame, G.M., Cochran, J.W., and S.S. Bowadt, 1998. Complete PCB congener distributions for 17 aroclor mixtures determined by 3 HRGC systems optimized for comprehensive quantitative congener specific analysis. Journal of High Resolution Chromatography. Vol. 19, pp. 657-668.
- GRS and NGA, 2006. Final Draft of Geophysical Survey Report, Occidental Chemical Corporation, Tacoma, Washington, August 2006.
- Geokon Inc., 2005. Geokon Instruction Manual.
- Golden Software, Inc., 2002. Surfer, Version 8.05, Surface Mapping System.
- Greengrove, C., 2005. Water Resources and Pollution, Estuarine Field Studies, Course Number TESC 431, Spring 2005, University of Washington,
(<http://courses.washington.edu/uwtoce05/webg1/index.html>)
- Hart-Crowser and Associates, Inc., undated. Geology of the Port of Tacoma.
- Hart-Crowser and Associates, Inc., 1994. Preliminary Site Investigation Report, June.
- Hart-Crowser and Associates, Inc., 1994. Supplemental Monitoring Well Installation and Groundwater Sampling and Analysis Report.

- Hart-Crowser and Associates, Inc., 1995. Soil and Groundwater Investigation (March and August 1995).
- Hem, J.D., 1985. Study and Interpretation of the Chemical Characteristics of Natural Water, Third Edition, U.S. Geological Survey Water-Supply Paper 2254.
- Hermann, R., and Neumann-Mahlkau, P. (1985). The mobility of zinc, cadmium, copper, lead, iron and arsenic in ground water as a function of redox potential and pH. *The Science of the Total Environment*, 43: 1–12.
- Hirata et al., 2003. Determination of trace metals in seawater by on-line column preconcentration inductively coupled plasma mass spectrometry using metal alkoxide glass immobilized 8-quinolinol. *Analytica Chimica Acta* 499:157-165.
- HCC, 1993. Combined Sample and Analysis Place for the Commencement Bay Nearshore/Tideflats Superfund Site – Hylebos Waterway Problem Areas.
- HCC, 1999. Hylebos Waterway Pre-Remedial Design Evaluation Report.
- Johannessen, J. and A. MacLennan, 2007. Beaches and Bluffs of Puget Sound, Coastal Geologic Services, Inc., Technical Report 2007-004, 27 p.
- Jones, et al., 1999. Geologic Framework for the Puget Sound Aquifer System, Washington and British Columbia. USGS Professional Paper 1424-C. Available online at <http://pubs.er.usgs.gov/usgspubs/pp/pp1424C>.
- Jones, et al., 1999. Ground-Water Hydrology of the Tacoma -Puyallup Area, Pierce County, Washington, USGS Water-Resources Investigations Report 99-4013. Selected portions available online at <http://wa.water.usgs.gov/pubs/wrir/wrir.99-4013>.
- Kueper, B.H. and K.L. Davies, 2009. Assessment and Delineation of DNAPL Source Zones at Hazardous Waste Sites, EPA/600/R-09/119.
- Kongchum, M., I. Devai, R.D. DeLaune and A. Jugsujinda, 2006. Total mercury and methyl mercury in fresh water and salt water marsh soils of the Mississippi River Delta Plain. *Chemosphere* (2006) 1300-1303.
- Lee, W., and B. Batchelor, 2002. Abiotic reductive dechlorination of chlorinated ethylenes by iron-bearing soil minerals. 1. Pyrite and magnetite. *Environ. Sci. Technol.* 36:5147-5154.
- Lincoln, J.H., 2000. The Puget Sound Model Summary, Online Resource: http://exhibits.pacsci.org/puget_sound/PSSummary.html.
- Luszczynski, N.J., 1961. Head and flow of ground water of variable density, *Journal of Geophysical Research*, vol. 66, no 2, pp. 4247-4256.
- Lyngkilde, J., and T.H. Christensen, 1992a. Redox Zones of a Landfill Leachate Pollution Plume (Vejen, Denmark), *Journal of Contaminant Hydrology*, Vol. 10, pp. 273-289.

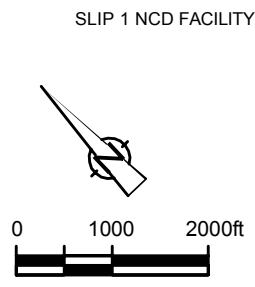
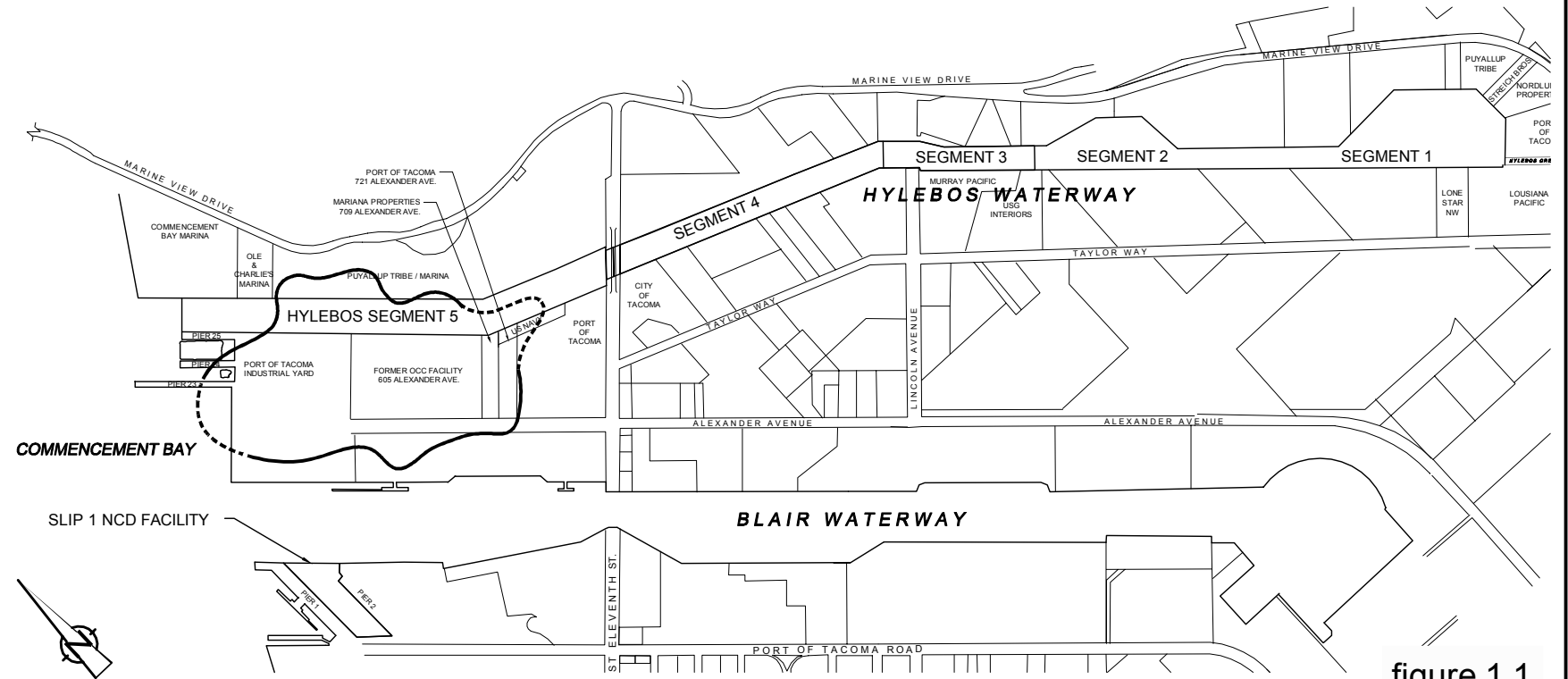
- Lyngkilde, J., and T.H. Christensen, 1992b. Fate of Organic Contaminants in the Redox Zones of a Landfill Leachate Pollution Plume (Vejen, Denmark), *Journal of Contaminant Hydrology*, Vol. 10, pp. 291-307.
- McGinnis and Jensen, 2007. Groundwater Metals Analytical methods, Port of Tacoma Pier 25, Commencement Bay Tacoma, WA. Memo of Feb. 7, 2007 from Hart Crowser to Bill Evans, Port of Tacoma.
- Molenaar, D., 1961. Water Supply Bulletin Number 16: Flowing Artesian Wells in Washington State, Department of Conservation. Available online at http://www.ecy.wa.gov/programs/eap/wsb/pdfs/WSB_16_Book.pdf and http://www.ecy.wa.gov/programs/eap/wsb/pdfs/WSB_16_Plate.pdf.
- Morgan, D.S. and J.L. Jones, 1996. Numerical Model Analysis of the Effects of Ground-Water Withdrawals on Discharge to Streams and Springs in Small Basins Typical of the Puget Sound Lowland, Washington, USGS Open-File Report 95-470. Available online at <http://pubs.er.usgs.gov/usgspubs/ofr/ofr95470>.
- Olmsted, T.L., 1969. Geological Aspects and Engineering Properties of Glacial Till in the Puget Lowland, Washington, Shannon & Wilson, Inc.
- Pavlostathis, S.G. and K. Jaglal, 1991. Desorptive Behavior of Trichloroethylene in Contaminated Soil. *Environ. Sci. Technol.* 25(2):274–279.
- Pedroli, G.B.M., Maasdam, W.A.C., and Verstraten, J.M. (1990). Zinc in poor sandy soils and associated groundwater. A case study. *The Science of the Total Environment*, 91: 59-77.
- Plantz et al., 1989. Separation of trace metal complexes for analysis of samples of high salt content by inductively coupled plasma mass spectrometry. *Analytical Chemistry* 61:149-153.
- Robinson & Noble, Inc., 1992. Hydrogeologic Analysis of the Federal Way Area, Washington, December.
- Sahoo, D. and J.A. Smith, 1997. Enhanced Trichloroethene Desorption from Long-Term Contaminated Soil Using Triton X-100 and pH Increases. *Environ. Sci. Technol.* 31(7):1910–1915.
- Savoca, M.E., W.B. Welch, K.H. Johnson, R.C. Lane, B.G. Clothier, and E.T. Fasser, 2010. Hydrogeologic Framework, Groundwater Movement, and Water Budget in the Chambers-Clover Creek Watershed and Vicinity, Pierce County, Washington, U.S. Geological Survey Scientific Investigations Report 2010–5055, 46 p.
- Serfes, M.E., 1991. Determining the mean hydraulic gradient of ground water affected by tidal fluctuations, *Ground Water*, vol. 29, no. 4, pp. 549-555.

- Site, A.D., 2001. Factors Affecting Sorption of Organic Compounds in Natural Sorbent/Water Systems and Sorption Coefficients for Selected Pollutants: A review. *J. Phys. Chem.* 30(1): 187-439.
- Spongberg, A.L., 2004. PCB contamination in surface sediments in the coastal waters of Costa Rica. *Rev. of Biol. Trop.* 52 (Suppl. 2): 1-10.
- Stumm, W. and J.J. Morgan, 1996. *Aquatic Chemistry: Chemical Equilibria and Rates in Natural Waters.* 3rd ed. John Wiley & Sons, Inc., New York. 1022 pp.
- Suarez, M., and Rifai, H., 1999. Biodegradation Rates for Fuel Hydrocarbons and Chlorinated Solvents in Groundwater, *Bioremediation Journal*, 3(4): 337-362
- UNEP, 1999. Guidelines for the identification of PCBs and materials containing PCBs. <http://www.chem.unep.ch/pops/pdf/PCBident/pcb1d1.pdf>.
- U.S. AFCEE, 1999. Technical Protocol for Implementing Intrinsic Remediation with Long-Term Monitoring for Natural Attenuation of Fuel Contamination Dissolved in Groundwater, March.
- USEPA, 1990. Commencement Bay / Port of Tacoma, Field Study - June 3, 1980, EPA 910/9-90-028.
- USEPA, 1991. Solubility, Sorption and Transport of Hydrophobic Organic Chemicals in Complex Mixtures, Office of Research and Development, Ada, OK, EPA/600/M-91/009, March.
- USEPA, 1992. Estimating Potential for Occurrence of DNAPL at Superfund Sites. Publication 9355.4-07FS, January 1992.
- USEPA, 1993. Evaluation of the Likelihood of DNAPL Presence at NPL Sites. Publication 9355.4-13, September 1993.
- USEPA, 1998. Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water, Office of research and Development, Washington, DC, EPA/600/R-98/128, September.
- USEPA, 1999. PCBs Update: Impacts on Fish Advisories. EPA-823-F-99-019 <http://www.epa.gov/waterscience/fish/files/pcbs.pdf>.
- USEPA, 2001. Characterization and Eh/pH-based leaching tests of mercury-containing mining wastes from the Sulfur Bank Mercury Mine, Lake County, California. EPA/600/R-02/032.
- USEPA, 2003. Dioxin-Like PCBs. http://www.epa.gov/greatlakes/bns/dioxin/pres/winters_dec2003.pdf.
- USEPA, 2009. Assessment and Delineation of DNAPL Source Zones at Hazardous Waste Sites. EPA/600/R-09/119.
- USEPA, 2009. Vapor Intrusion Framework, Interim Final, June 2009.

- Vaccaro, et al., 1998. Hydrogeologic Framework of the Puget Sound Aquifer System, Professional Paper 1424-D, USGS. Available online at <http://pubs.er.usgs.gov/usgspubs/pp/pp1424D>.
- Van den Berg, M., Birnbaum L, Bosveld A.T., Brunstrom B, Cook P, Feeley M, Giesy JP, Hanberg A, Hasegawa R, Kennedy SW, Kubiak, T., Larsen, J.C., van Leeuwen, FX, Liem, AK, Nolt, C., Peterson, R.E., Poellinger L, Safe S, Schrenk D, Tillitt D, Tysklind M, Younes M, Waern F, Zacharewski T., 1998. Toxic equivalency factors (TEFs) for PCBs, PCDDs, PCDFs for humans and wildlife. *Environmental Health Perspectives*. Dec; 106(12):775-92.
- Van den Berg, M., Birnbaum, L., Denison, M., De Vito, M., Farland, W., Feeley, M., Fiedler, H., Hakansson, H., Hanberg, A., Haws, R., Rose, M., Safe, S., Schrenk, D., Tohyama, C., Tritscher, A., Tuomisto, J., Tysklind, M., Walker, N., and Peterson, R.E., 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. *Toxicological Sciences*; 93(2):223-241.
- Walters, K.E. and G.E. Kimmel, 1968. Water Supply Bulletin Number 22: Ground-Water Occurrence and Stratigraphy of Unconsolidated Deposits, Central Pierce County, Washington, Department of Water Resources. Available online at http://www.ecy.wa.gov/programs/eap/wsb/pdfs/WSB_22_Book.pdf and http://www.ecy.wa.gov/programs/eap/wsb/pdfs/WSB_22_Plates.pdf.
- Walters, K.L., 1971. Reconnaissance of Sea-Water Intrusion Along Coastal Washington, 1966-68, State of Washington, Department of Ecology, Water-Supply Bulletin No. 32.
- Weidemeier, T.H., Rifai, H.S., Newell, C.J., and J.T. Wilson, 1999. Natural Attenuation of Fuels and Chlorinated Solvent in the Subsurface, John Wiley & Sons, Inc., New York, NY.
- Woolcott, C.G., Aronson, K.J., Hanna, W.M., SenGupta, S.K., McCready, D.R., Sterns, E.E., Miller, A.B., 2001. Organochlorines and breast cancer risk by receptor status, tumor size, and grade (Canada). *Cancer Causes and Control*.



LEGEND
 — OCCIDENTAL SITE APPROXIMATE
 MAXIMUM EXTENT OF
 GROUNDWATER PLUME



SOURCE: ELECTRONIC FILE PROVIDED BY ANCHOR ENVIRONMENTAL LLC, JUNE 01, 2004.

figure 1.1
VICINITY MAP
Occidental Chemical Corporation, Tacoma, Washington

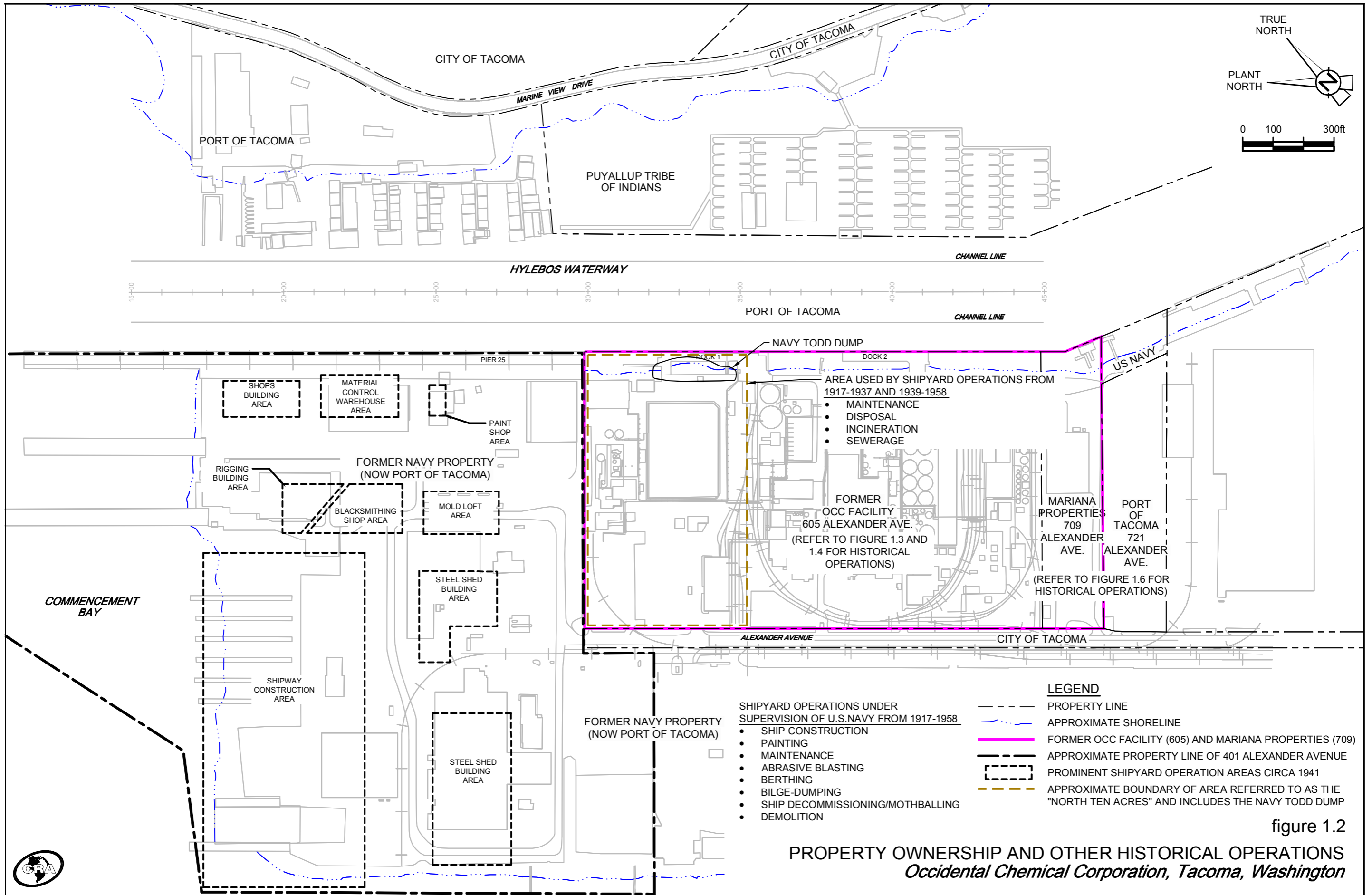


figure 1.2
PROPERTY OWNERSHIP AND OTHER HISTORICAL OPERATIONS
Occidental Chemical Corporation, Tacoma, Washington



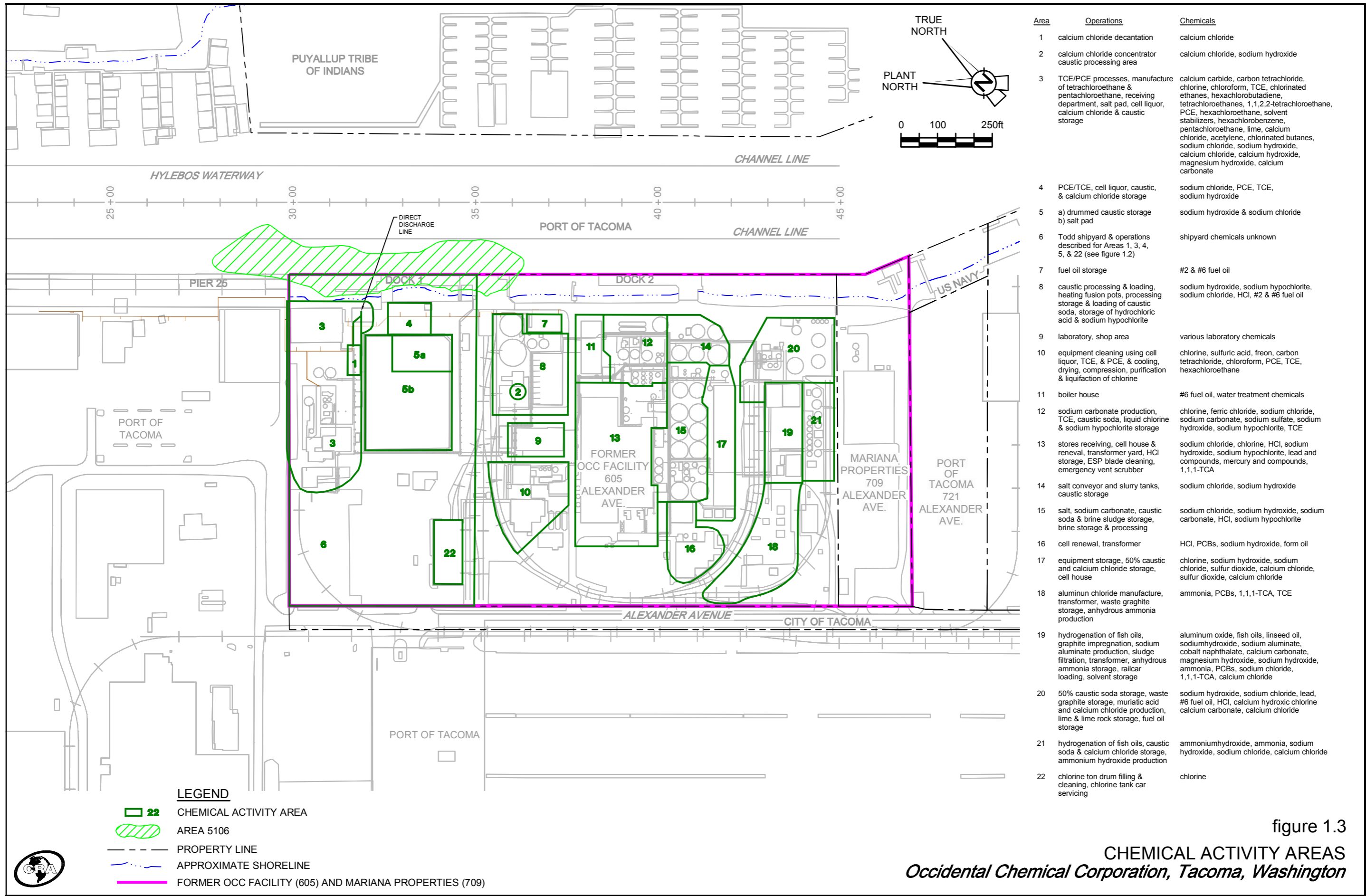


figure 1.3

CHEMICAL ACTIVITY AREAS
Occidental Chemical Corporation, Tacoma, Washington

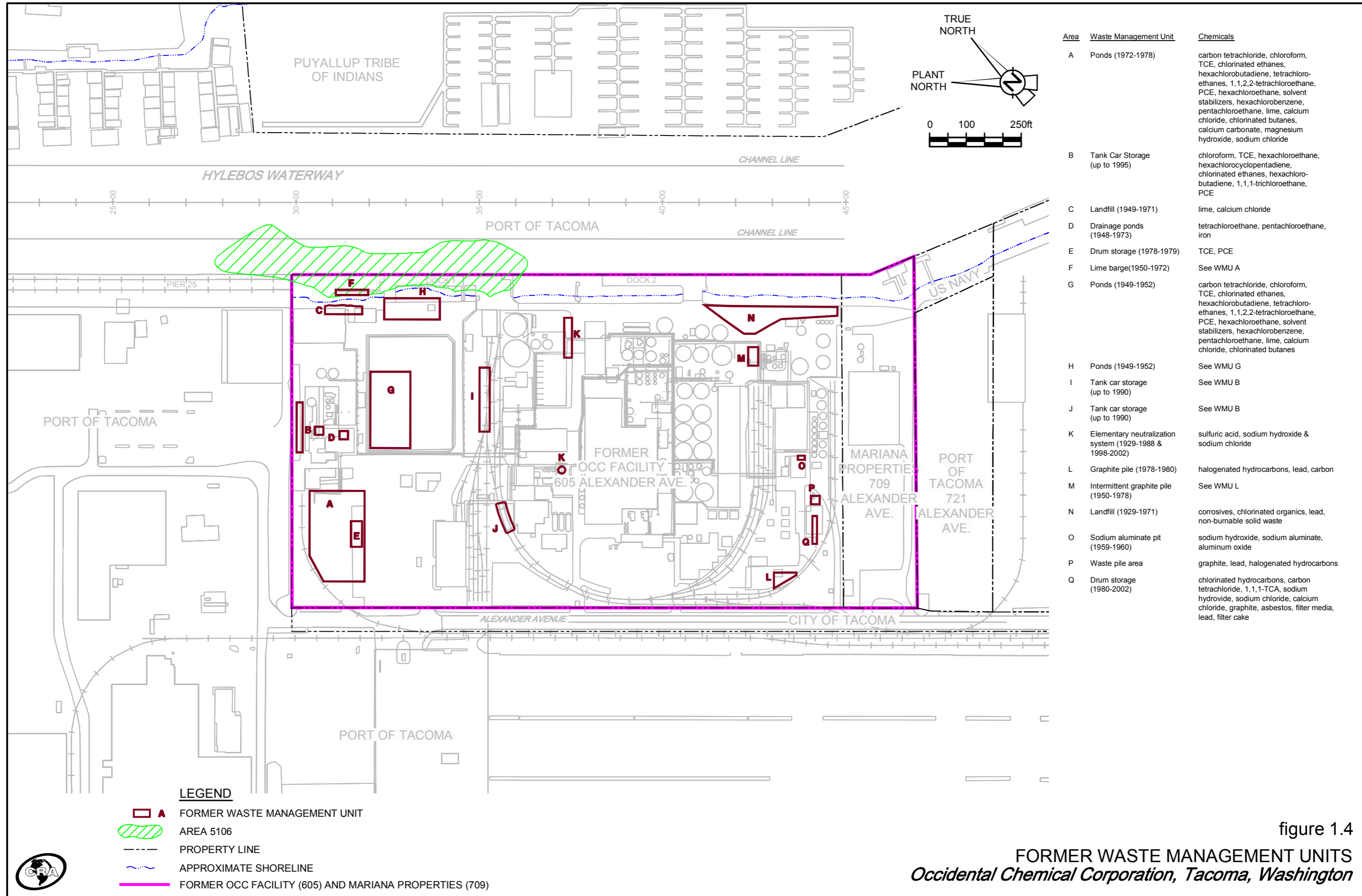
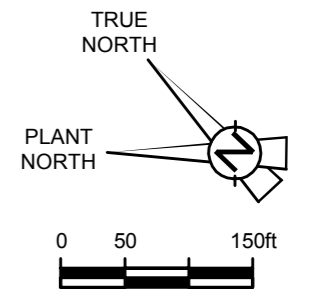
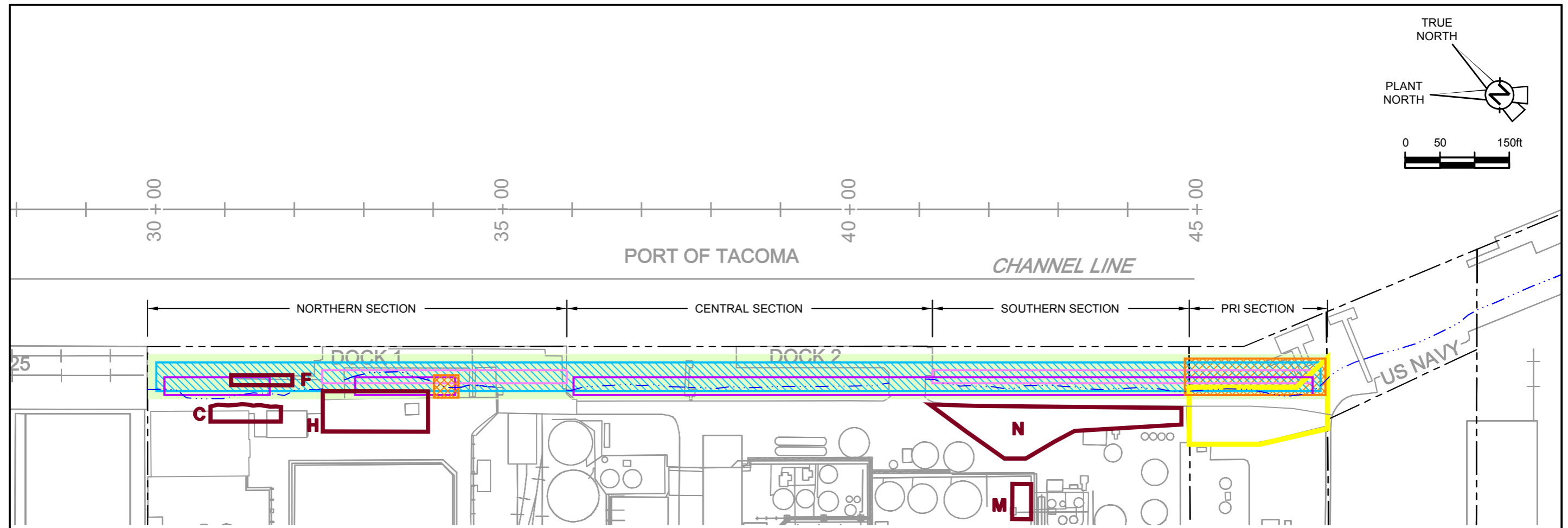


figure 1.4
FORMER WASTE MANAGEMENT UNITS
Occidental Chemical Corporation, Tacoma, Washington



LEGEND

- FORMER WASTE MANAGEMENT UNIT
- PROPERTY LINE
- APPROXIMATE SHORELINE
- 709 PROPERTY EMBANKMENT FILL AREA
- VOCs EXCEEDANCE
- METALS EXCEEDANCE
- SVOCs EXCEEDANCE
- PCBs EXCEEDANCE
- PESTICIDES EXCEEDANCE

Area	Waste Management Unit
C	Landfill (1949-1971)
F	Lime barge (1950-1972)
H	Ponds (1949-1952)
M	Intermittent graphite pile (1950-1978)
N	Landfill (1929-1971)

NOTE:
EXCEEDANCE REPRESENTS MINIMUM 2x FACTOR ABOVE APPLICABLE SQOs

figure 1.5
APPROXIMATE BOUNDARIES OF HYLEBOS EMBANKMENT
CONTAMINATED FILL AREAS
Occidental Chemical Corporation, Tacoma, Washington



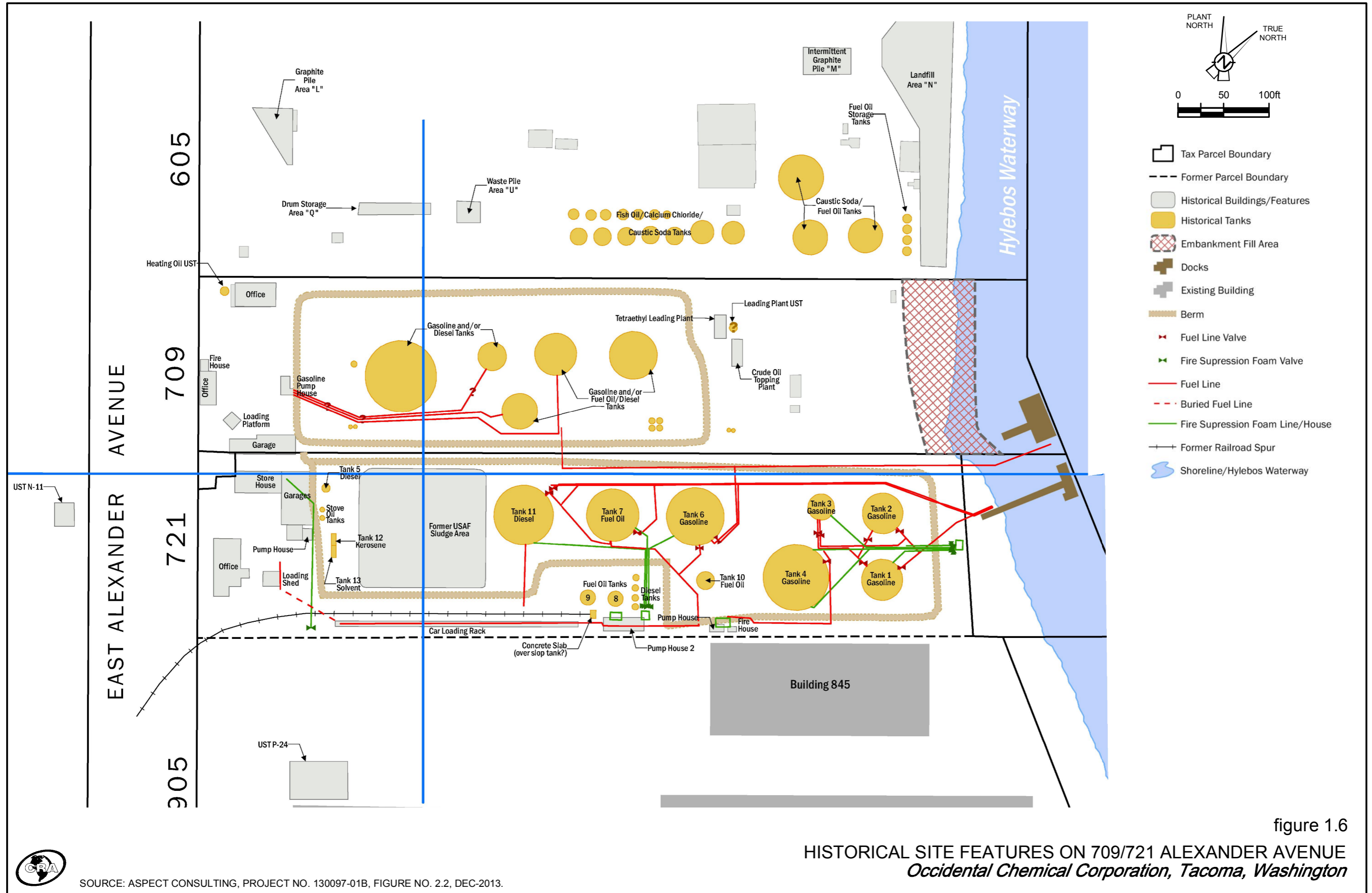
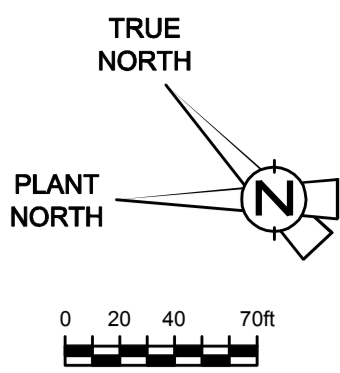


figure 1.6

HISTORICAL SITE FEATURES ON 709/721 ALEXANDER AVENUE
Occidental Chemical Corporation, Tacoma, Washington



SOURCE: ASPECT CONSULTING, PROJECT NO. 130097-01B, FIGURE NO. 2.2, DEC-2013.



- LEGEND**
- GROUNDWATER AND SEDIMENT/SOIL SAMPLING LOCATION
 - GROUNDWATER SAMPLING LOCATION
 - SEDIMENT/SOIL SAMPLING LOCATION
 - SEEP SAMPLING LOCATION
 - SPLP SAMPLING LOCATION
 - POREWATER SAMPLING LOCATION
 - AREA 5106 BOUNDARY
 - APPROXIMATE SHORELINE
 - VAPOR INVESTIGATION SAMPLING LOCATION



07643-46/1262N-WA111 JUL 31/2014

figure 2.1
CHARACTERIZATION SAMPLE LOCATIONS
Occidental Chemical Corporation, Tacoma, Washington

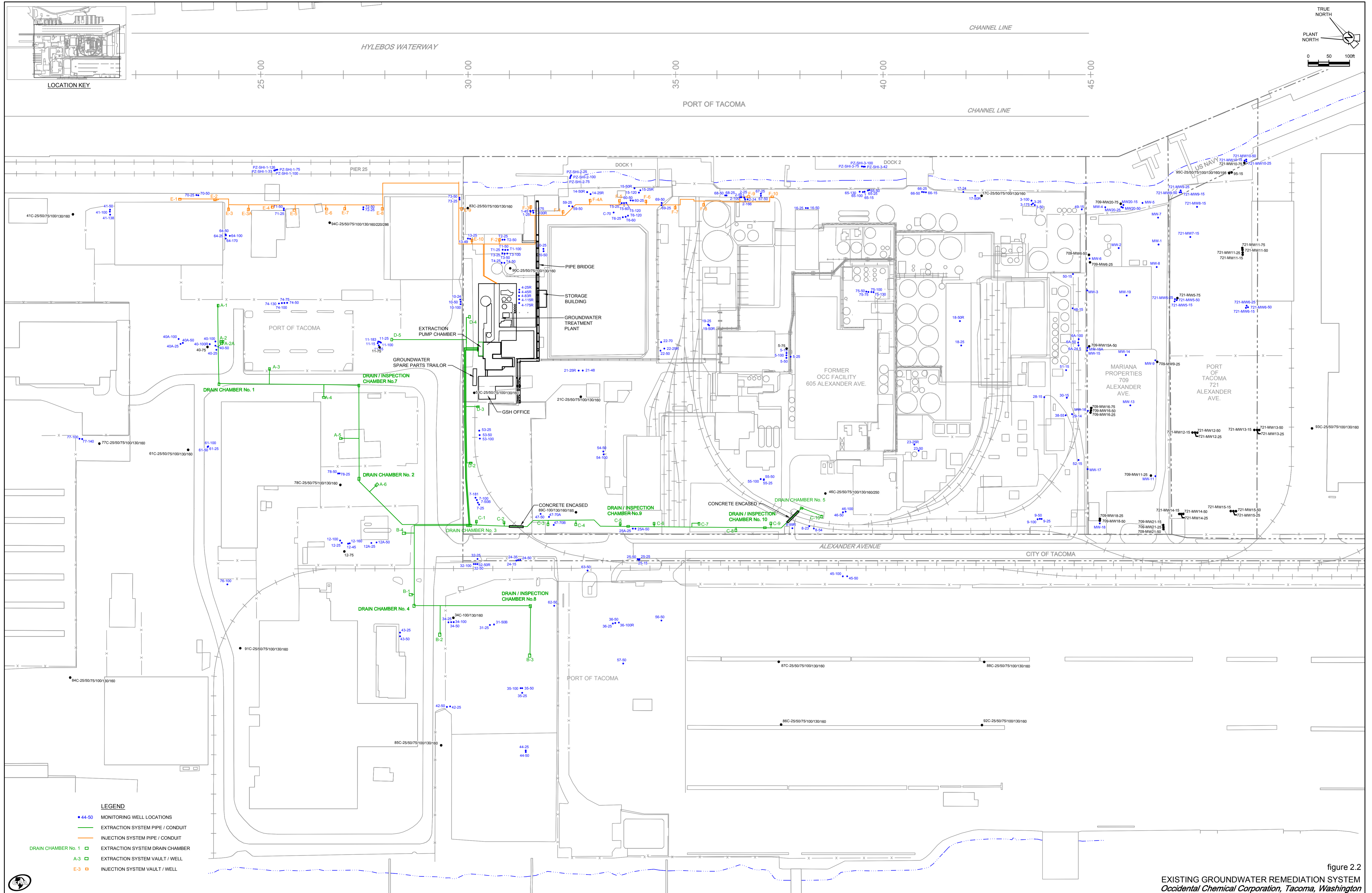
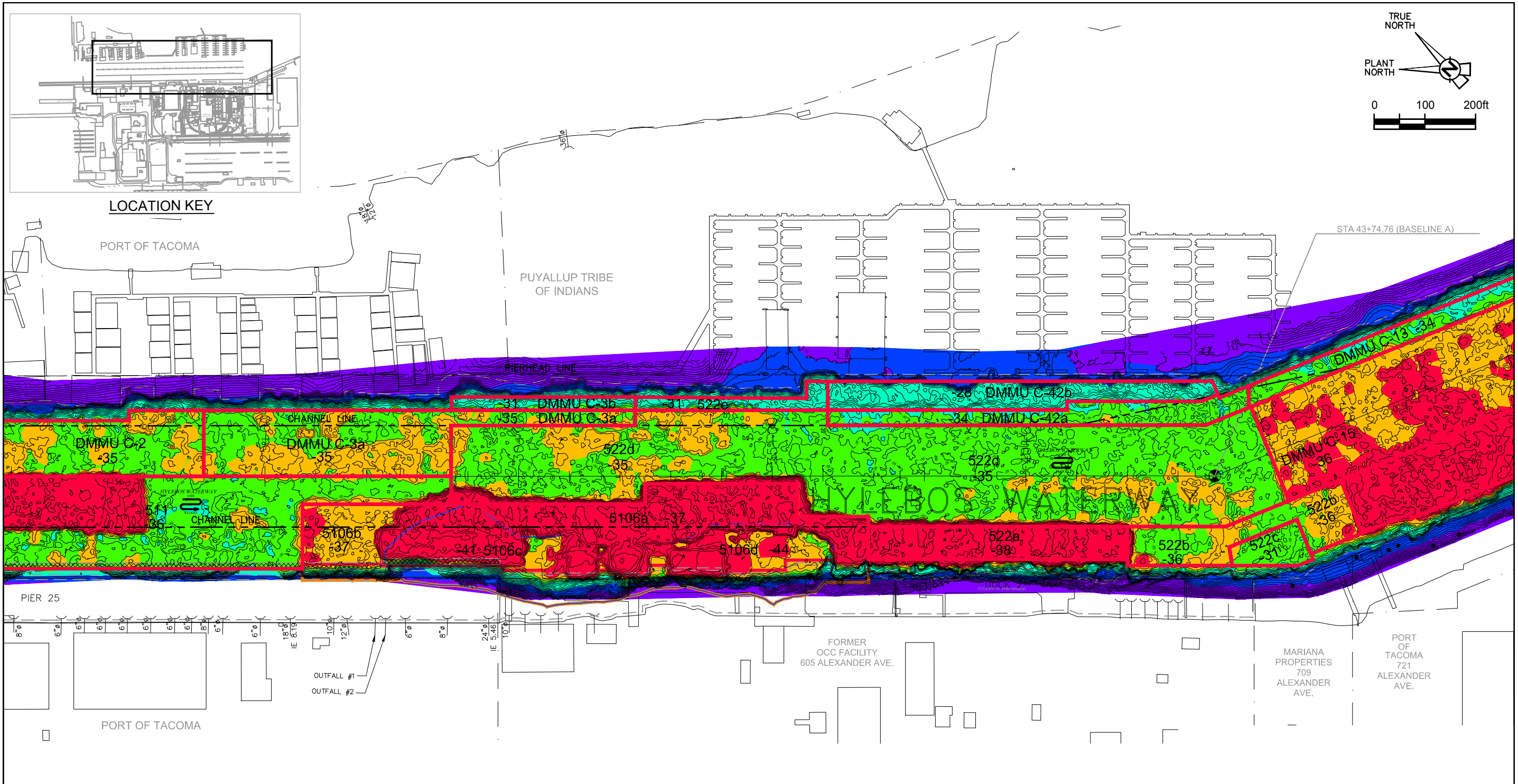


figure 2.2
 EXISTING GROUNDWATER REMEDIATION SYSTEM
 Occidental Chemical Corporation, Tacoma, Washington



LEGEND

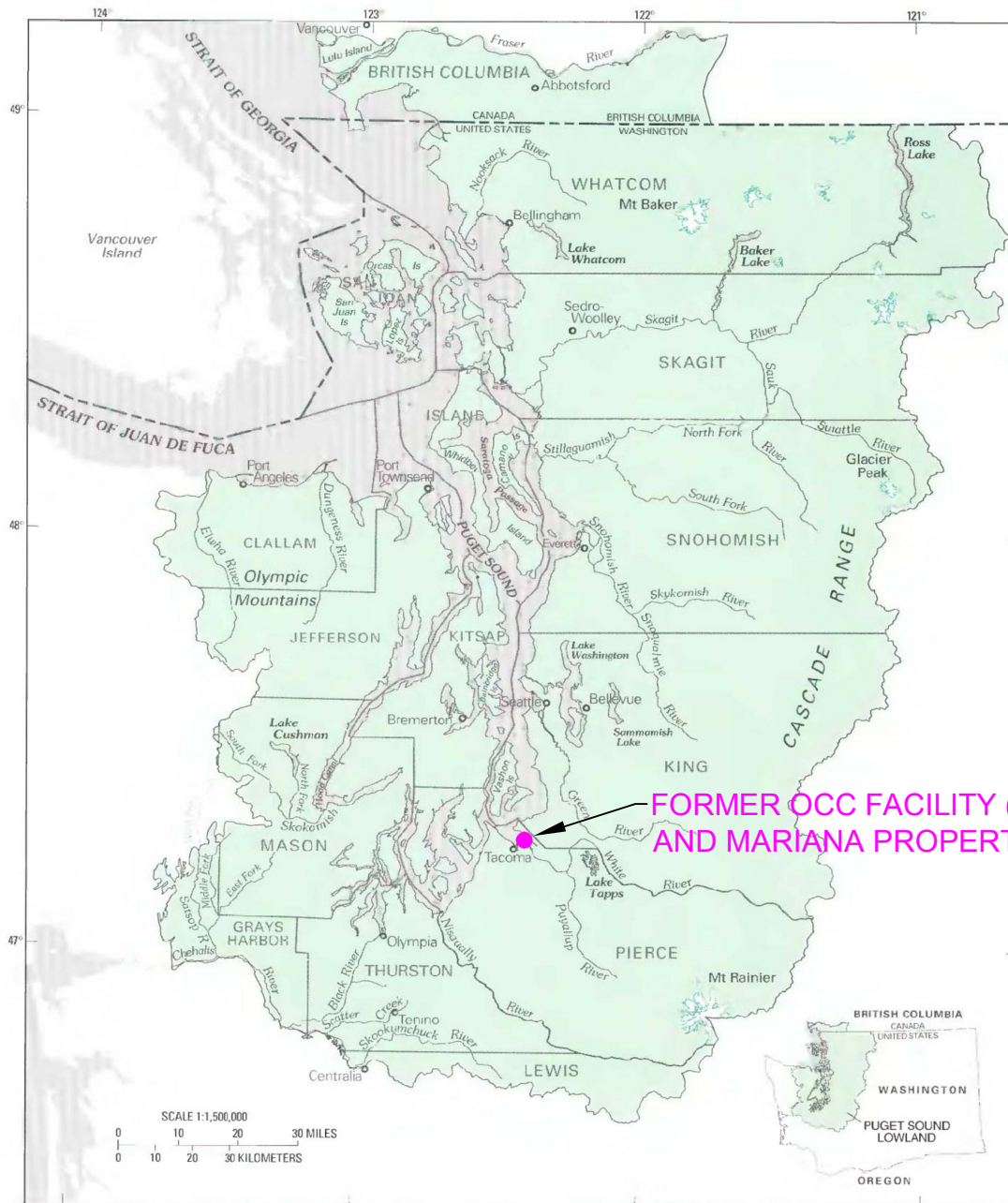
- SMA BOUNDARY/DMMU BOUNDARY
- ▲▲▲▲ ESTIMATED DAYLIGHT LINE OF DREDGING
- 44 DESIGN DREDGE DEPTH

- NOTES:**
1. DMMU - DREDGED MATERIAL MANAGEMENT UNIT
 2. SMA - SEDIMENT MANAGEMENT AREA
 3. CONTOUR INTERVAL 1 FT

Elevations Table		
Minimum Elevation	Maximum Elevation	Color
-45.00	-38.00	
-38.00	-36.00	
-36.00	-34.00	
-34.00	-27.00	
-27.00	-20.00	
-20.00	-2.00	

SOURCE: DRAWING PREPARED FROM ELECTRONIC FILE PROVIDED BY ANCHOR ENVIRONMENTAL LLC (DAVID EVANS & ASSOCIATES INC. PROJECT MLRC0000-0001 (Bathy_1-4.dwg 03/30/04) (INCA ENGINEERS INC. PROJECT 03-047 (SVHYL-2.dwg 8-27-03) (INCA ENGINEERS INC. PROJECT 03-047 (SVHYL-2B.dwg 9-02-03)

figure 2.3
HYLEBOS CLEANUP - DREDGING
Occidental Chemical Corporation, Tacoma, Washington



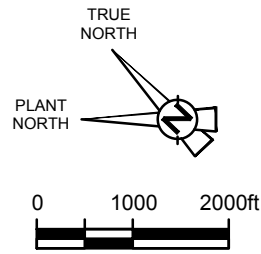
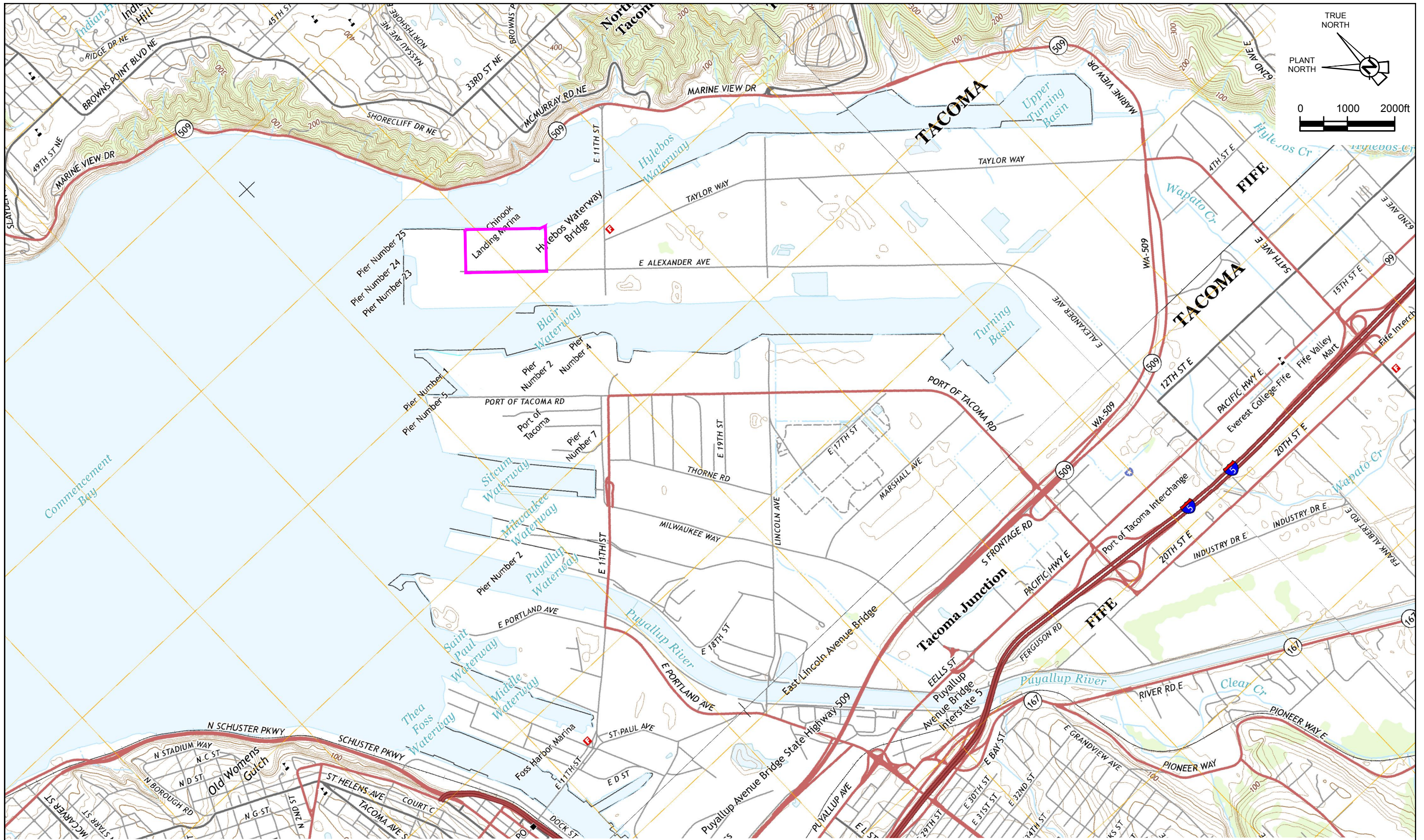
Base modified from U.S. Geological Survey digital data, 1:2,000,000, 1972

SOURCE: VACCARO, J.J., A.J. HANSEN, AND M.A. JONES, 1998. HYDROGEOLOGIC FRAMEWORK OF THE PUGET SOUND AQUIFER SYSTEM, PROFESSIONAL PAPER 1424-D, USGS.

figure 3.1

LOCATIONS AND FEATURES OF PUGET SOUND LOWLANDS
Occidental Chemical Corporation, Tacoma, Washington



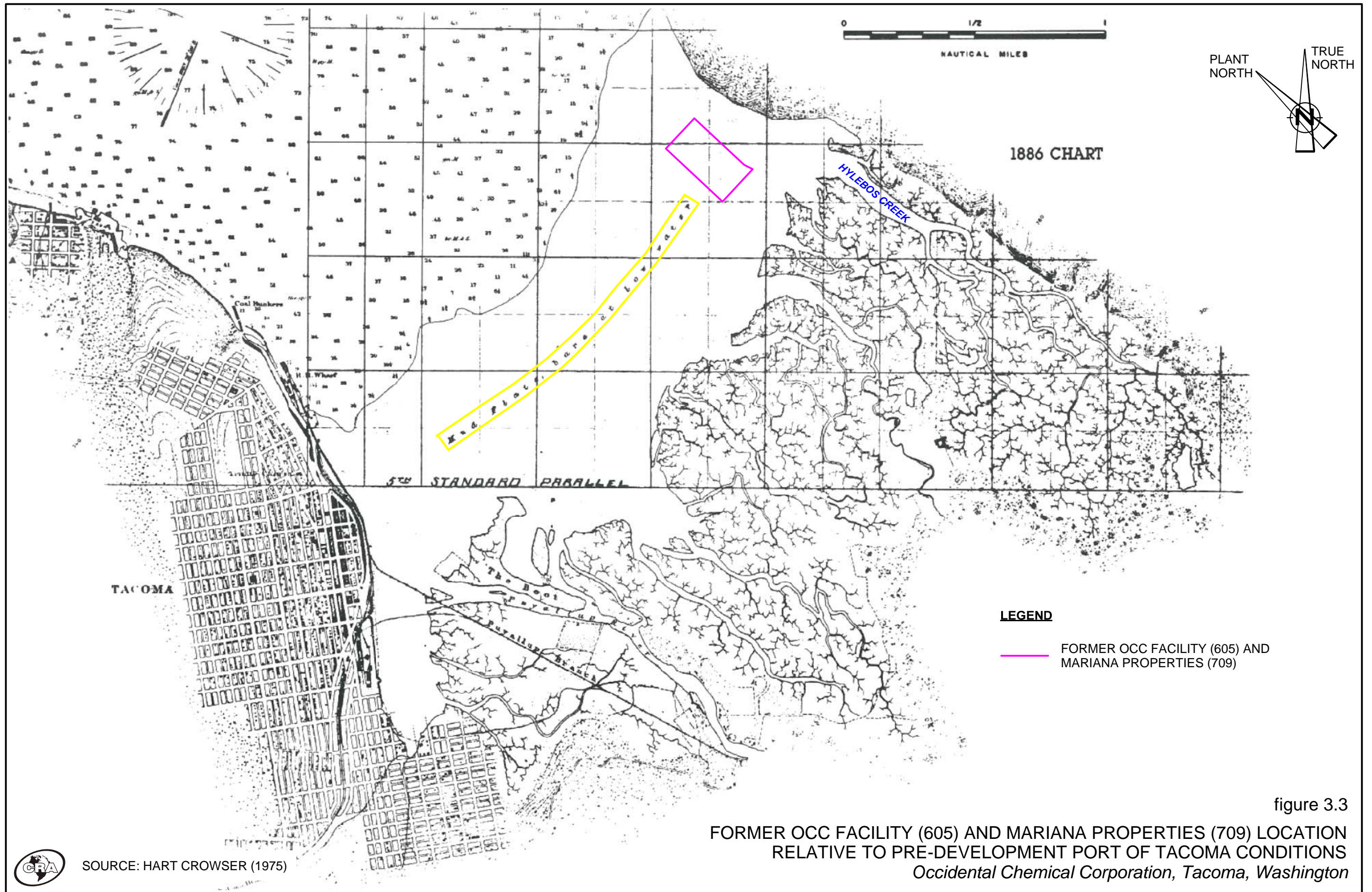


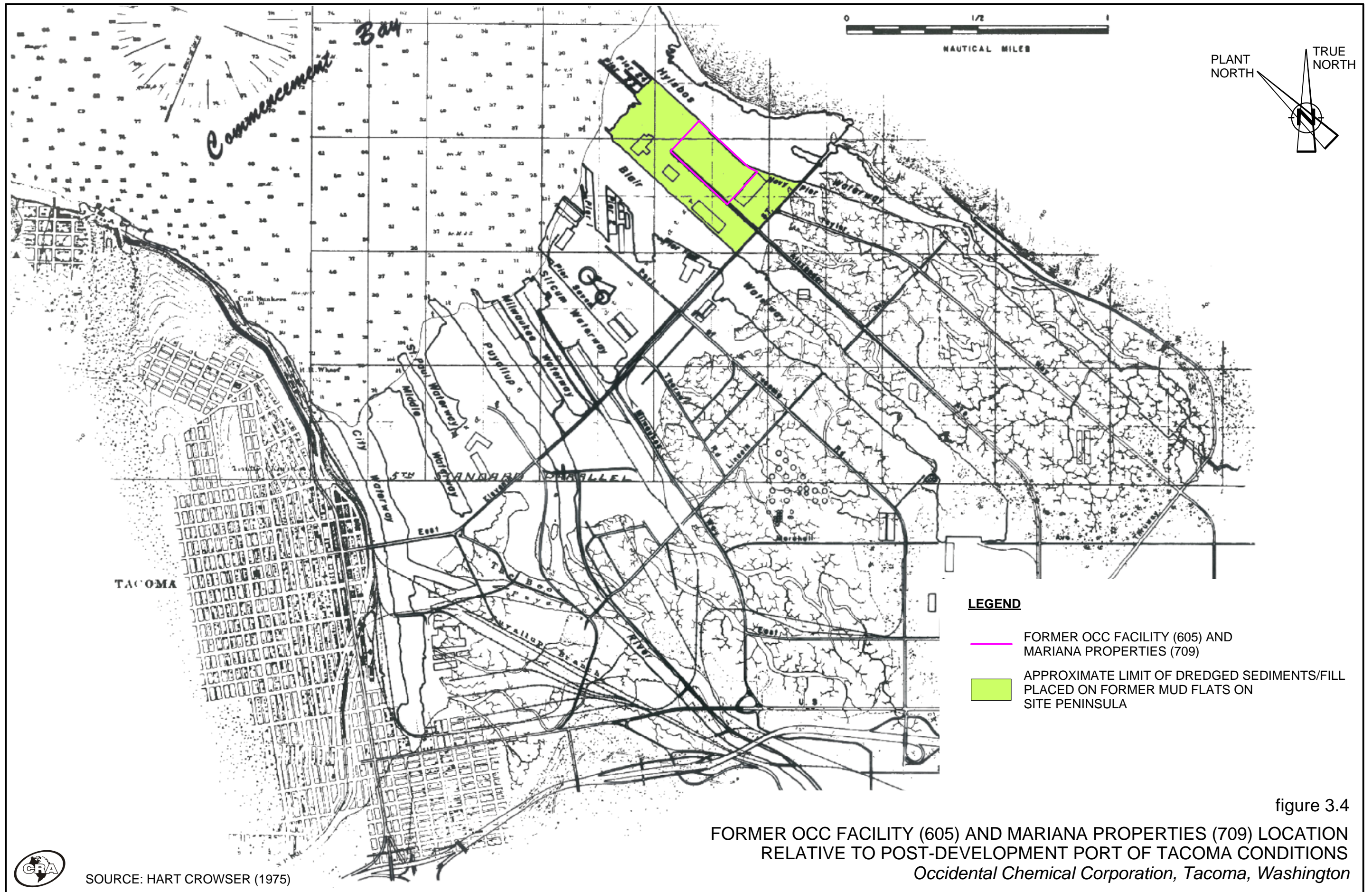
LEGEND

— FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)

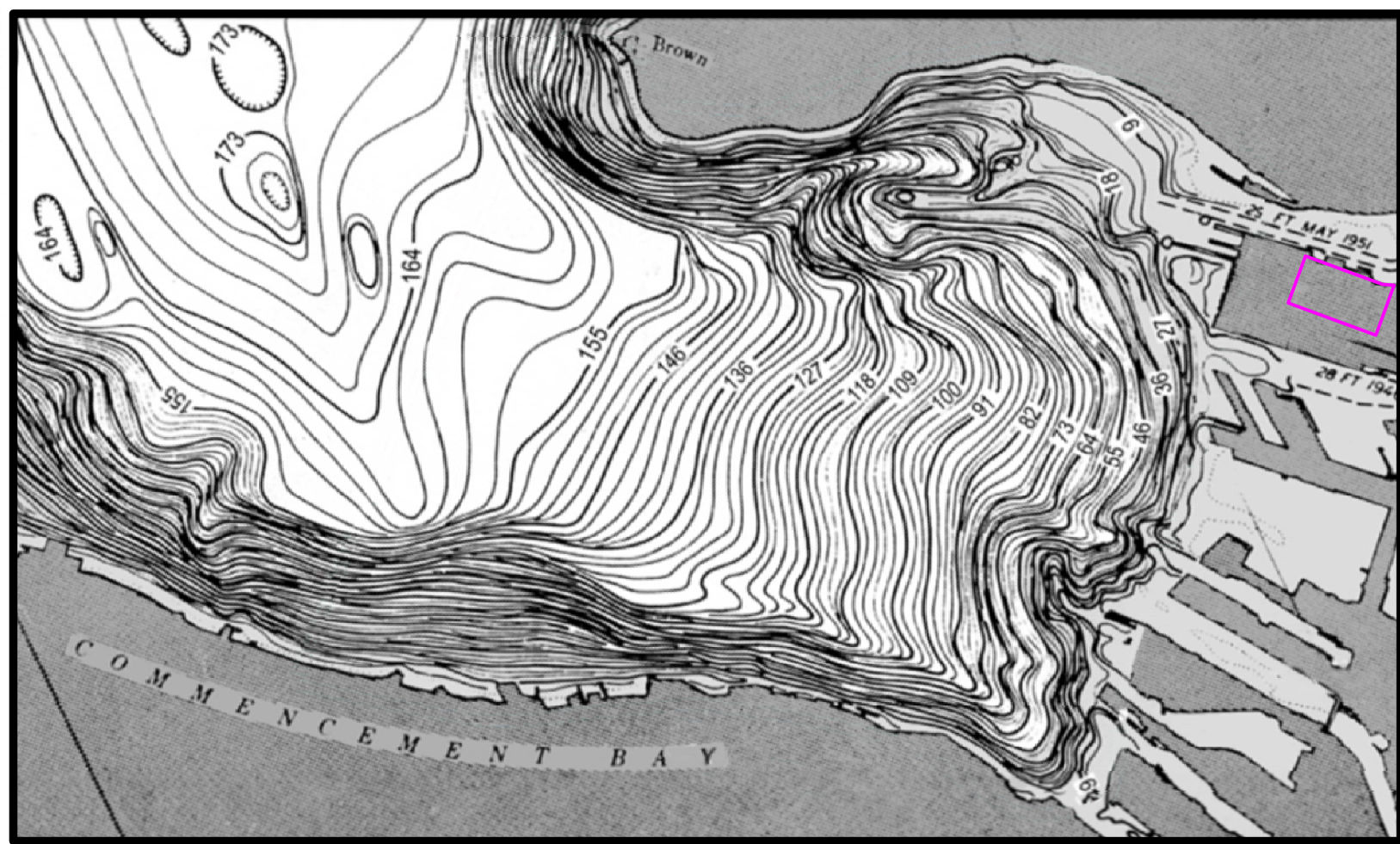
SOURCE: USGS QUADRANGLE MAPS; TACOMA NORTH, WA; TACOMA SOUTH, WA; PUYALLUP, WA; POVERTY BAY, WA; 2014.

figure 3.2
PORT OF TACOMA TOPOGRAPHY
Occidental Chemical Corporation, Tacoma, Washington





SOURCE: HART CROWSER (1975)



SOURCE: GARDNER ET AL. (2001). BATHYMETRY CONTOURS SHOWN IN METERS BELOW MEAN SEA LEVEL.

LEGEND

-  FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)

figure 3.5

COMMENCEMENT BAY BATHYMETRY
Occidental Chemical Corporation, Tacoma, Washington



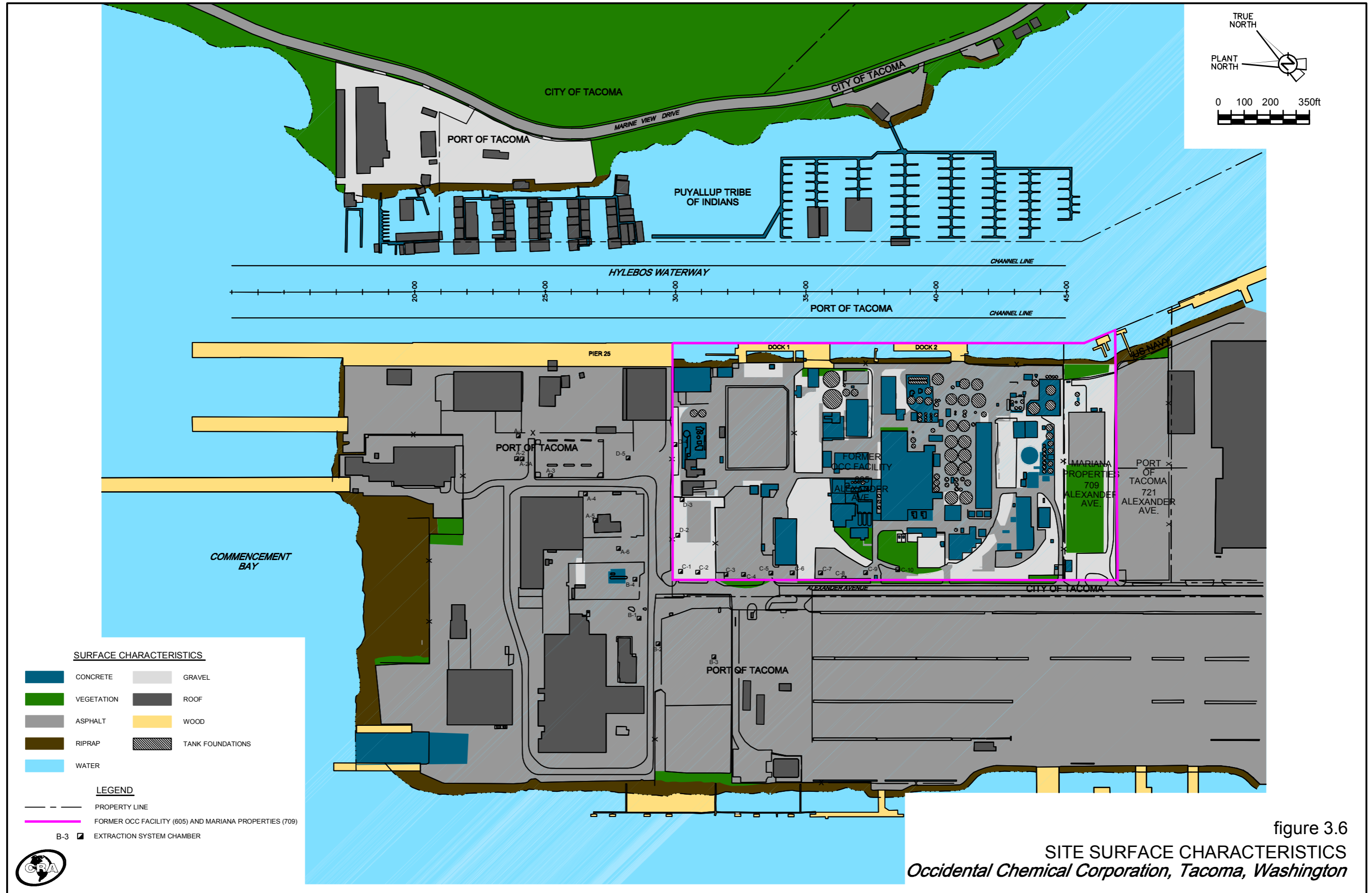
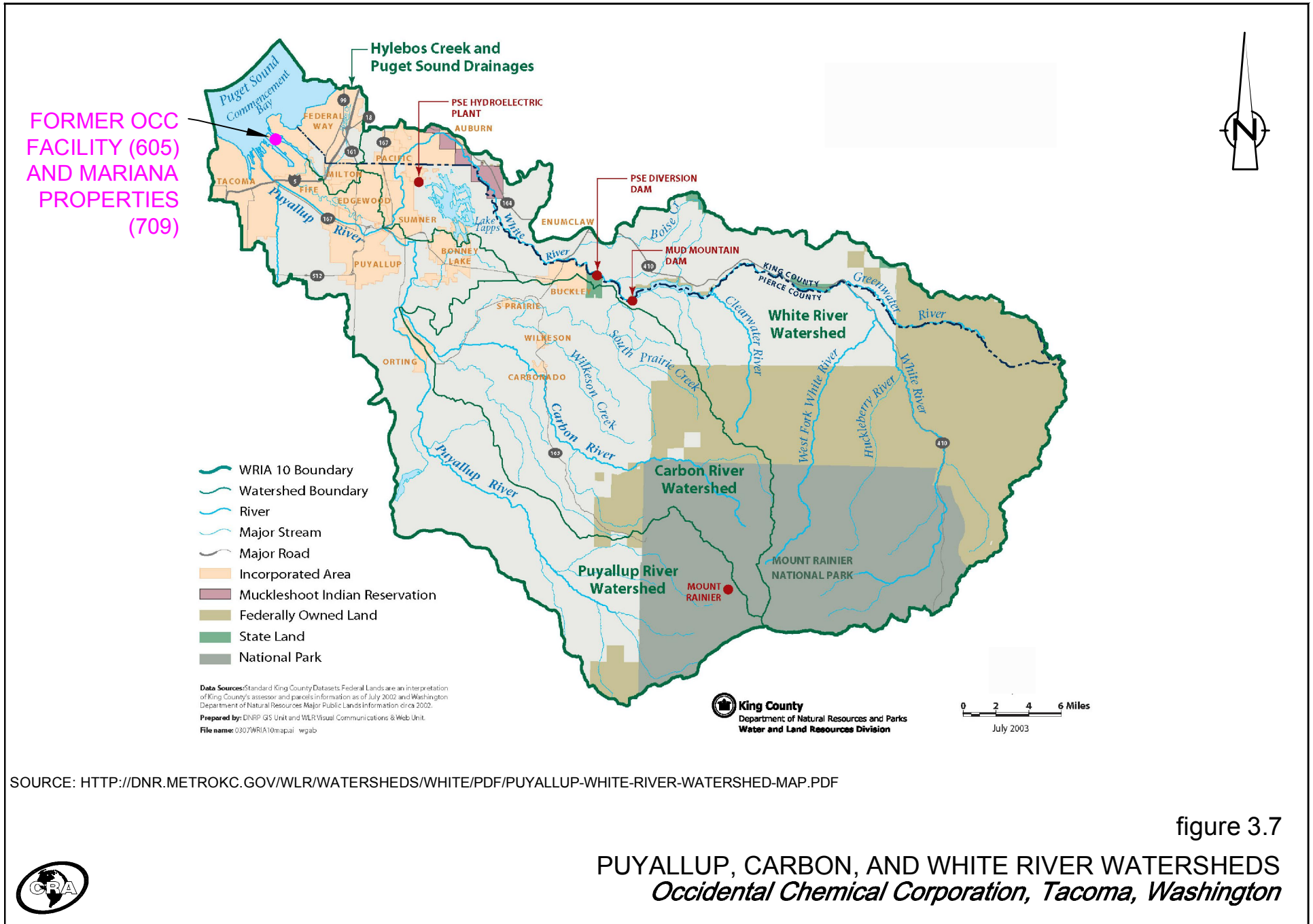


figure 3.6
 SITE SURFACE CHARACTERISTICS
Occidental Chemical Corporation, Tacoma, Washington



SOURCE: [HTTP://DNR.METROKC.GOV/WLR/WATERSHEDS/WHITE/PDF/PUYALLUP-WHITE-RIVER-WATERSHED-MAP.PDF](http://DNR.METROKC.GOV/WLR/WATERSHEDS/WHITE/PDF/PUYALLUP-WHITE-RIVER-WATERSHED-MAP.PDF)

figure 3.7

PUYALLUP, CARBON, AND WHITE RIVER WATERSHEDS
Occidental Chemical Corporation, Tacoma, Washington



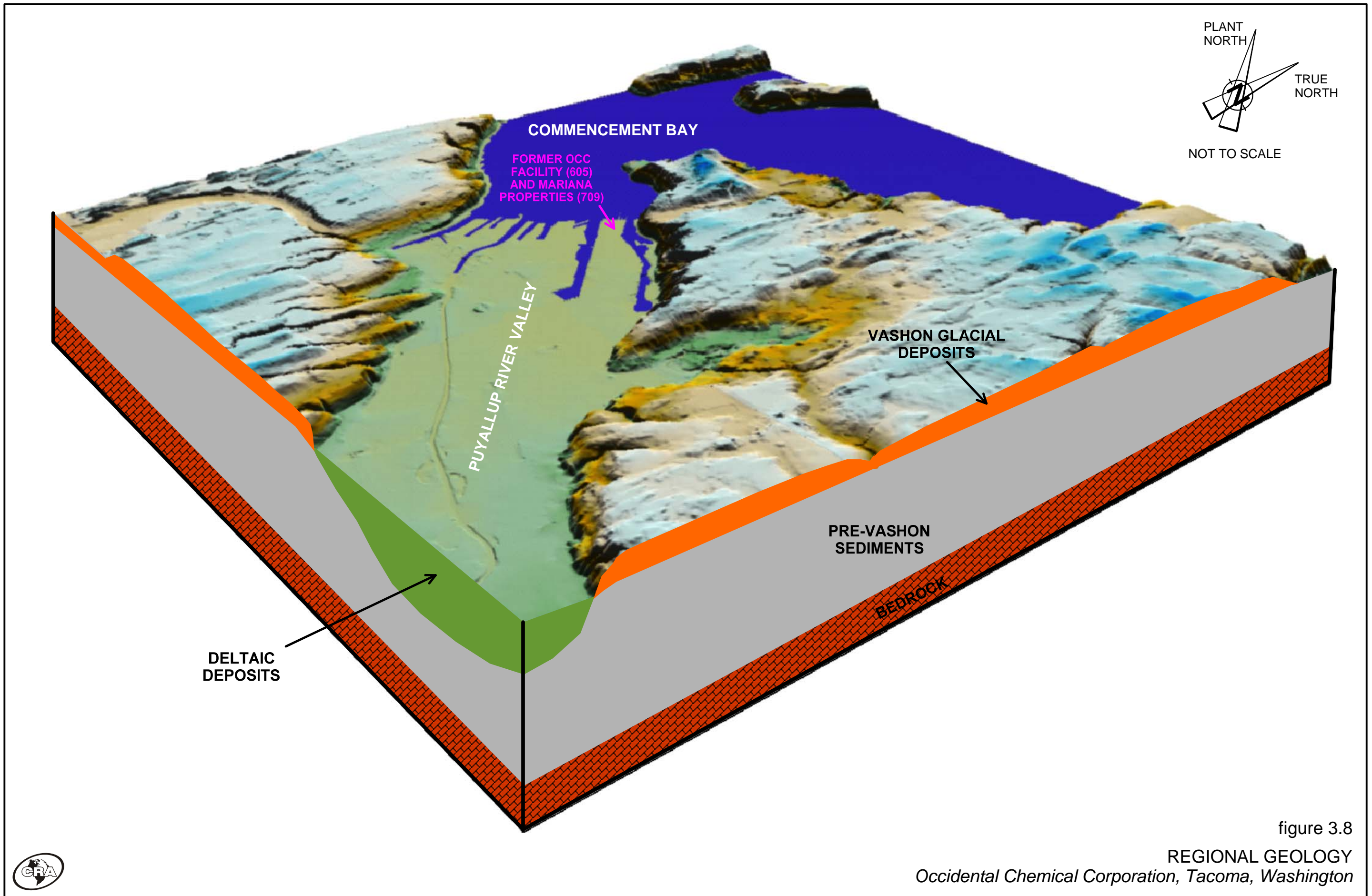
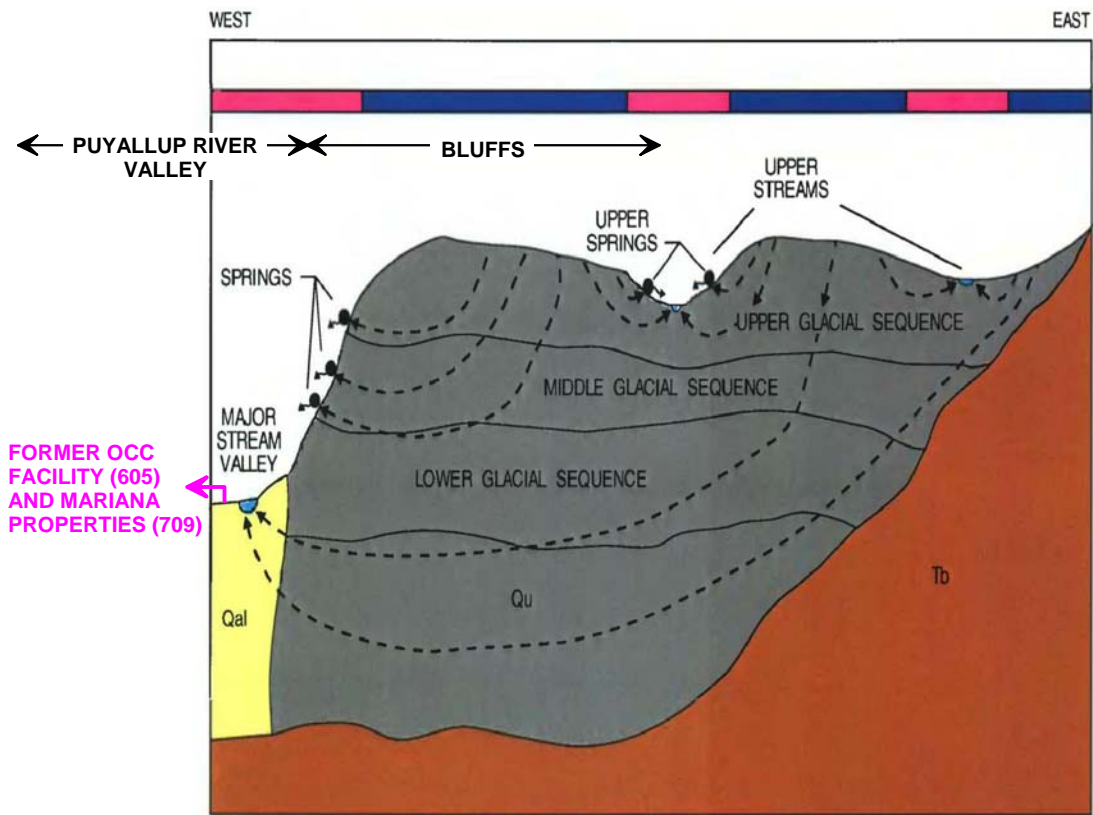


figure 3.8

REGIONAL GEOLOGY

Occidental Chemical Corporation, Tacoma, Washington





NOT DRAWN TO SCALE

SYMBOL	GEOLOGIC LAYER	HYDROGEOLOGIC CHARACTERISTICS
Qal	ALLUVIUM	AQUIFERS AND CONFINING LAYERS
UPPER GLACIAL SEQUENCE (DETAIL)	Qr	RECESSIONAL OUTWASH
	Qt	TILL
	Qa	ADVANCE OUTWASH
	Qf	INTERGLACIAL SEDIMENTS
Qr, Qt, Qa, Qf	MIDDLE GLACIAL SEQUENCE	AQUIFERS AND CONFINING LAYERS
Qr, Qt, Qa, Qf	LOWER GLACIAL SEQUENCE	AQUIFERS AND CONFINING LAYERS
Qu	UNDIFFERENTIATED DEPOSITS	AQUIFERS AND CONFINING LAYERS
Tb	BEDROCK	IMPERMEABLE BOUNDARY

EXPLANATION

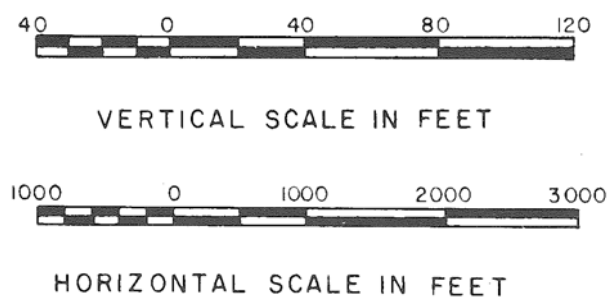
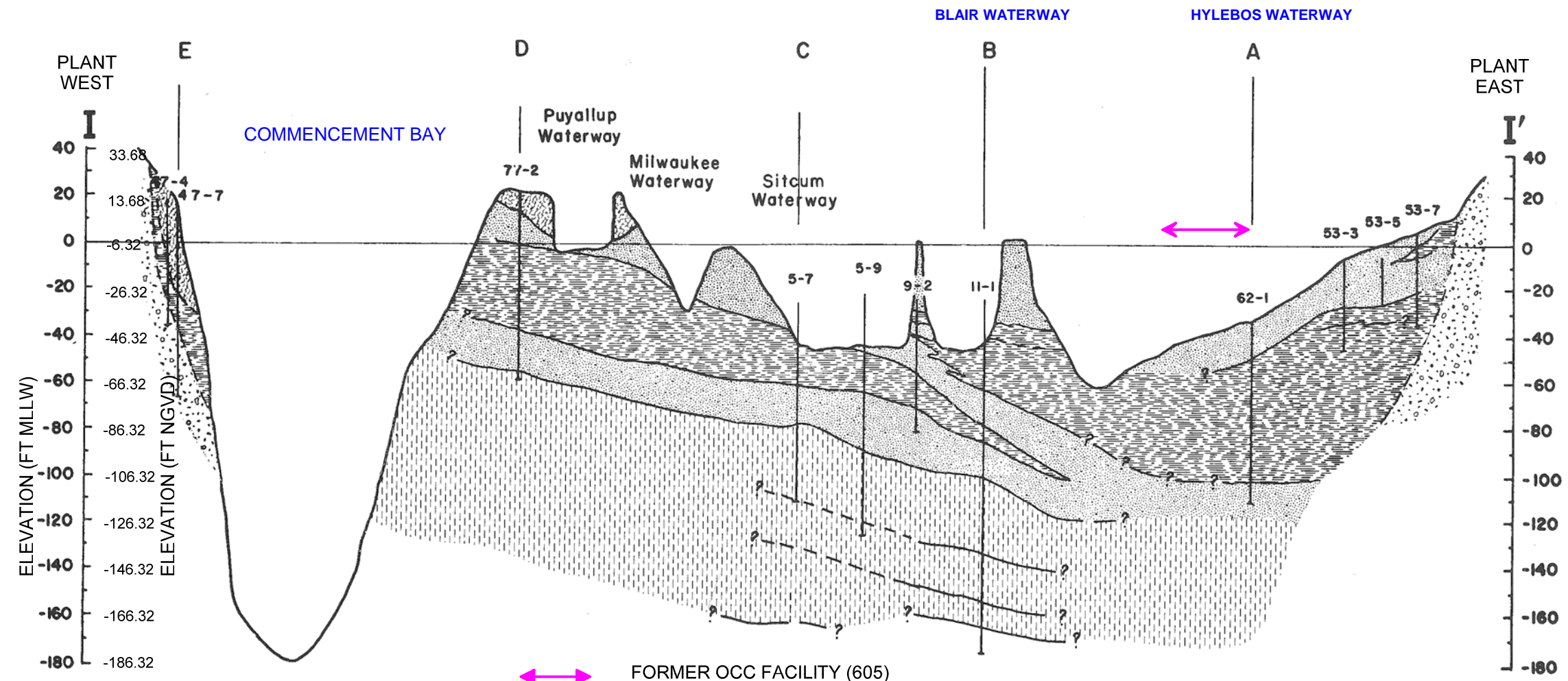
- GROUND-WATER DISCHARGE AREA
- GROUND-WATER RECHARGE AREA
- GROUND-WATER FLOW DIRECTION

SOURCE: MORGAN, D.S. AND J.L. JONES, 1996. NUMERICAL MODEL ANALYSIS OF THE EFFECTS OF GROUND-WATER WITHDRAWALS ON DISCHARGE TO STREAMS AND SPRINGS IN SMALL BASINS TYPICAL OF THE PUGET SOUND LOWLAND, WASHINGTON, USGS OPEN-FILE REPORT 95-470.

figure 3.9

GENERALIZED PUGET SOUND LOWLANDS
REGIONAL GEOLOGIC CONDITIONS
Occidental Chemical Corporation, Tacoma, Washington





- FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)
- FILL
- UPPER SILT (Zone I)
- MIDDLE SAND (Zone II)
- LOWER SILT (Zone III)
- DEEP SAND (Zone IV)
- GLACIAL DEPOSITS
- Contacts: Dashed where inferred, queried where speculated

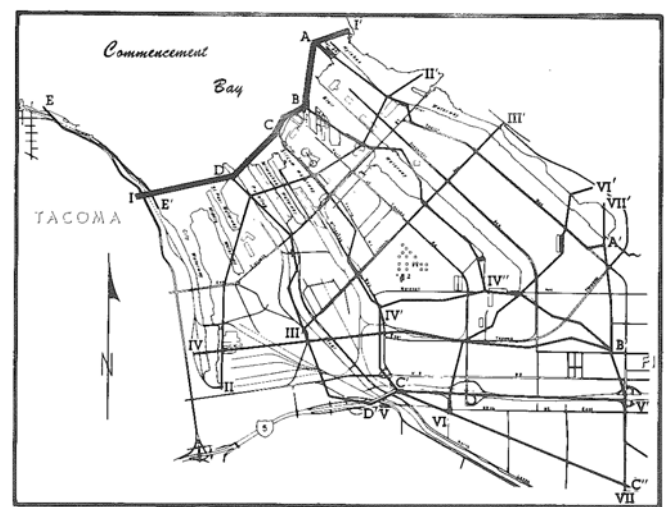


figure 3.10

HART CROWSER (1975) CROSS-SECTION I-I'
Occidental Chemical Corporation, Tacoma, Washington



SOURCE: HART CROWSER (1975)

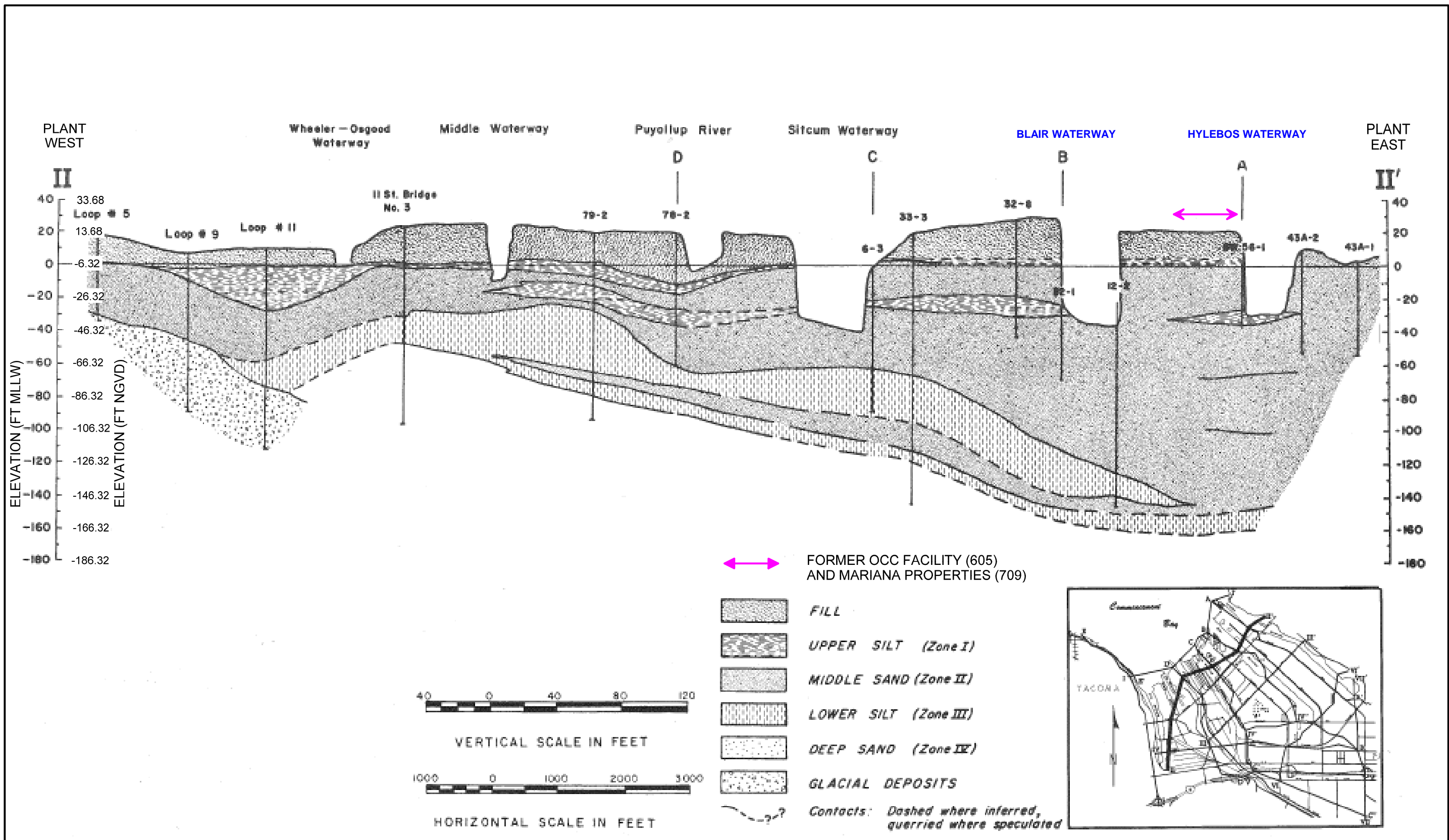


figure 3.11

HART CROWSER (1975) CROSS-SECTION II-II'
Occidental Chemical Corporation, Tacoma, Washington



SOURCE: HART CROWSER (1975)

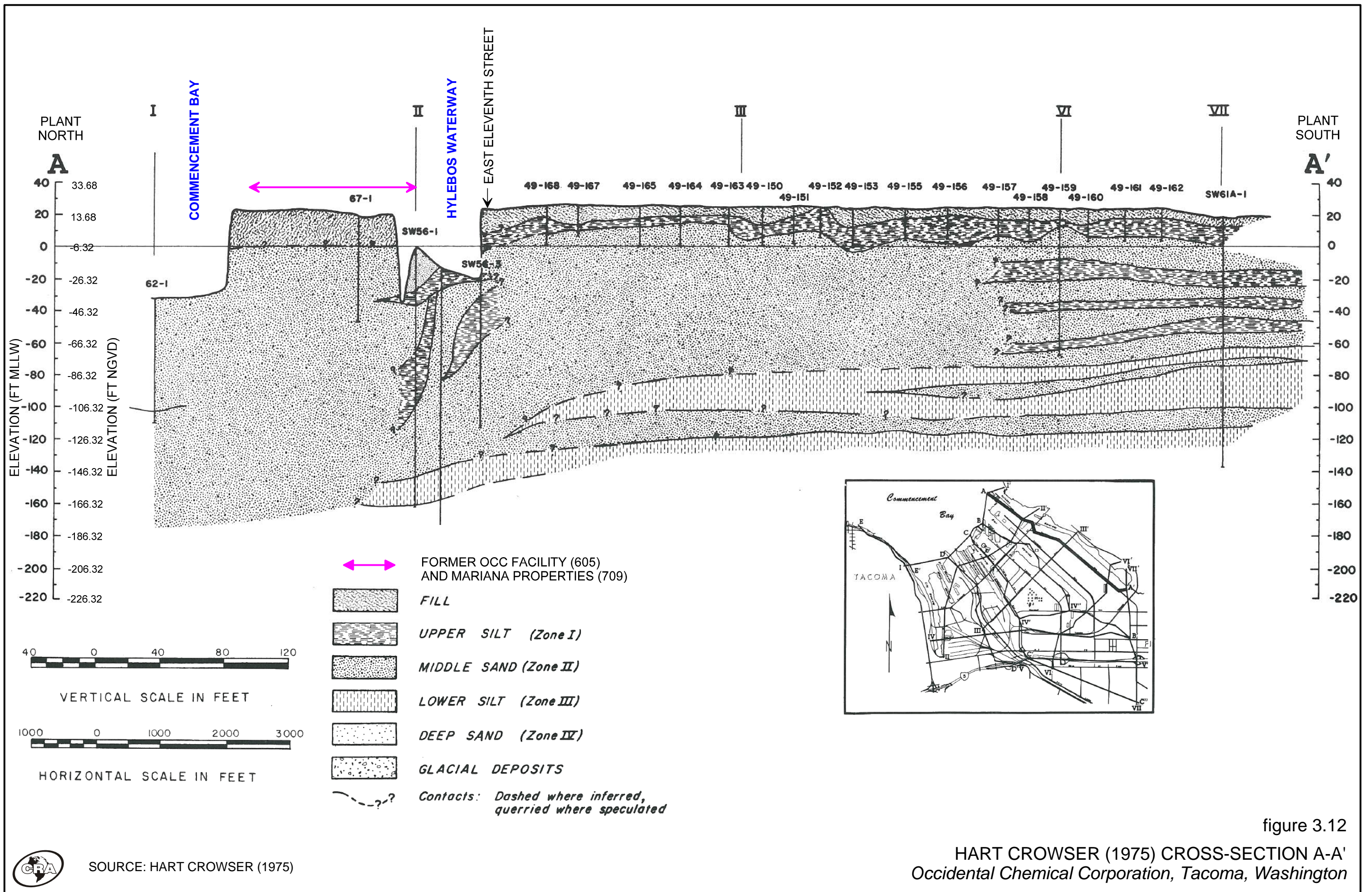
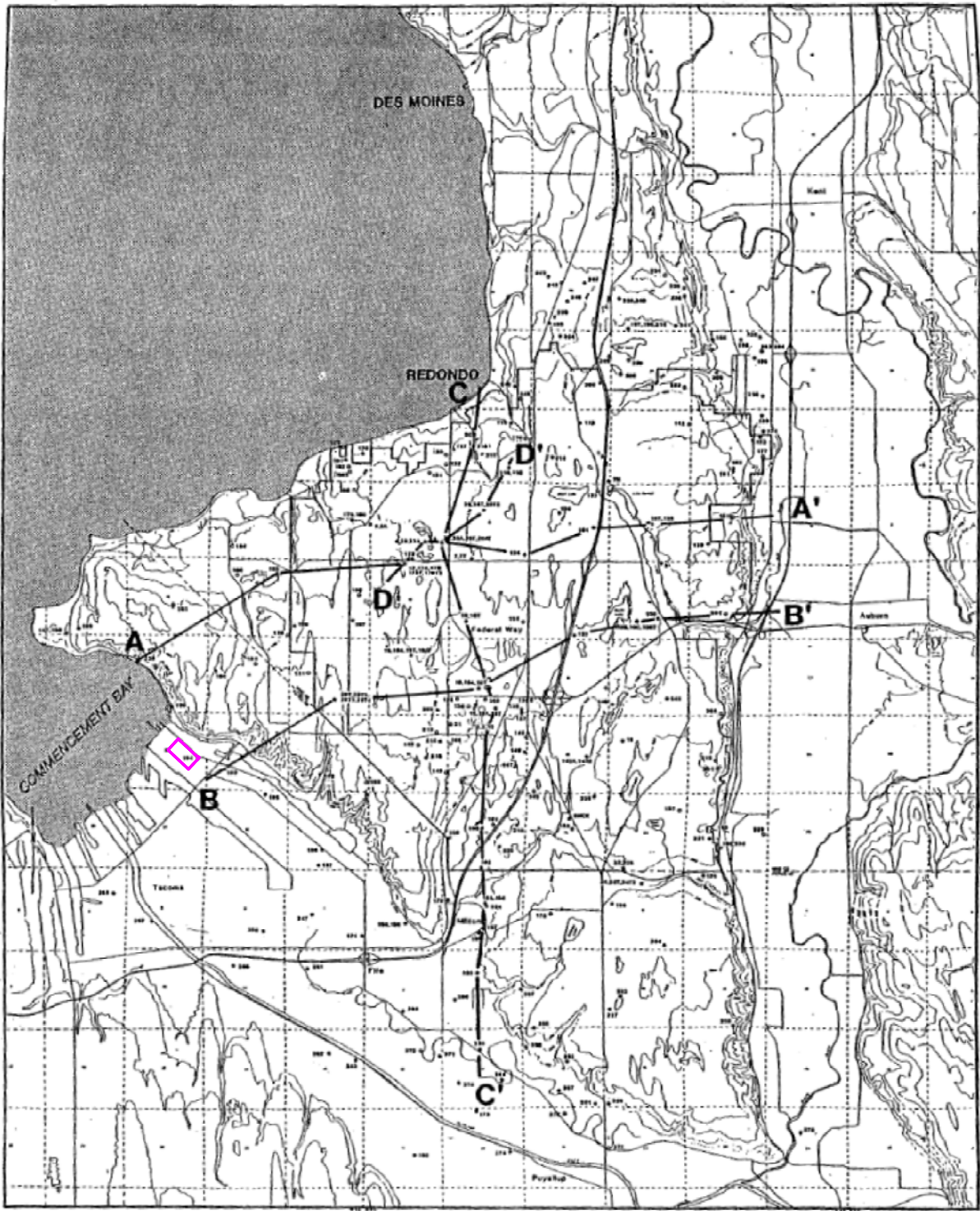


figure 3.12

HART CROWSER (1975) CROSS-SECTION A-A'
Occidental Chemical Corporation, Tacoma, Washington



SOURCE: HART CROWSER (1975)



SCALE 1:77,250 0 5000 10,000 FEET

 FORMER OCC FACILITY (605)
AND MARIANA PROPERTIES (709)

SOURCE: ROBINSON & NOBLE, INC. (1992)

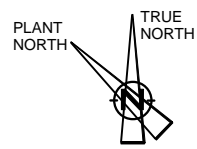
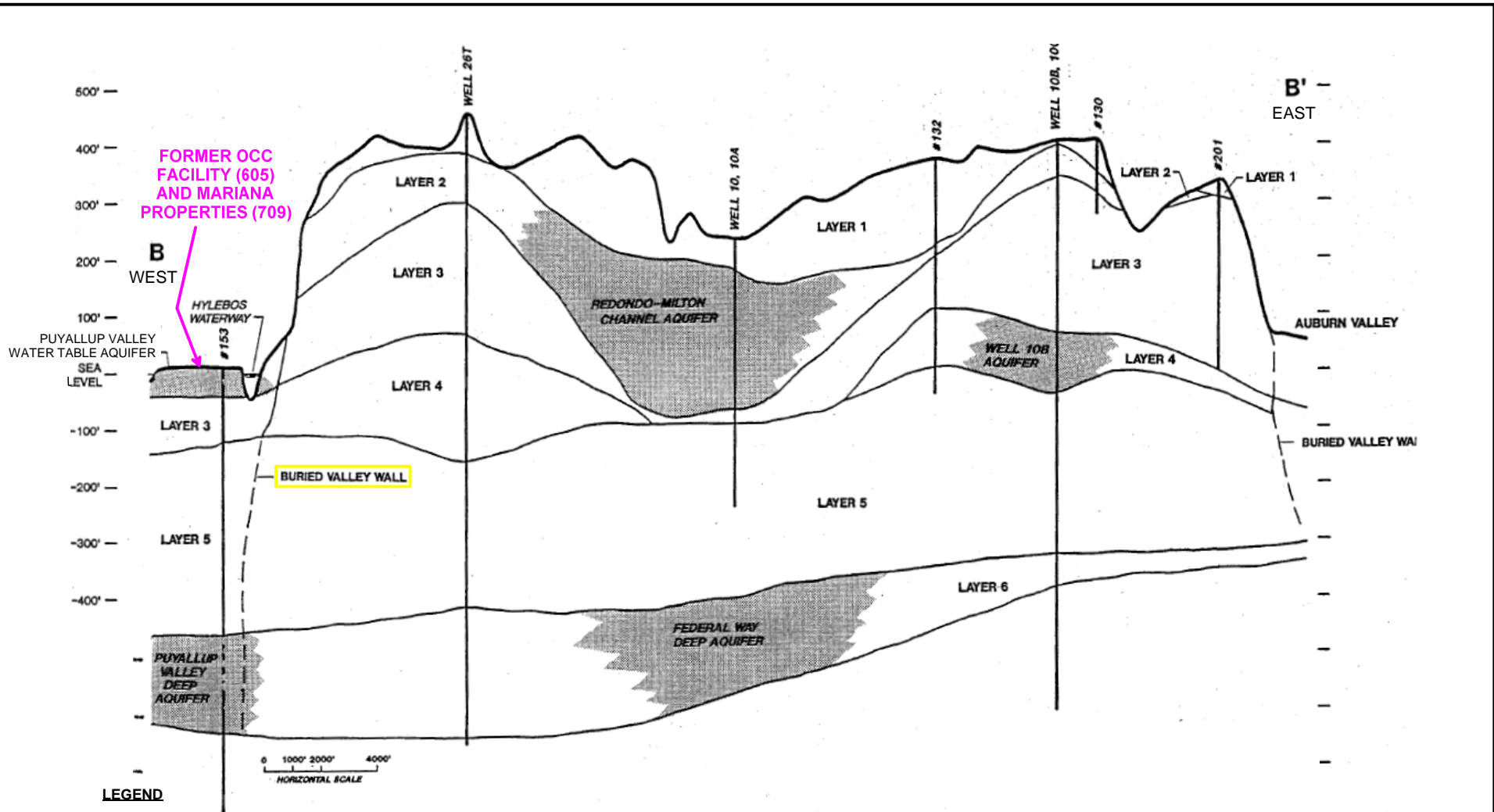


figure 3.13

ROBINSON & NOBLE (1992) CROSS-SECTION LOCATIONS
Occidental Chemical Corporation, Tacoma, Washington





LEGEND

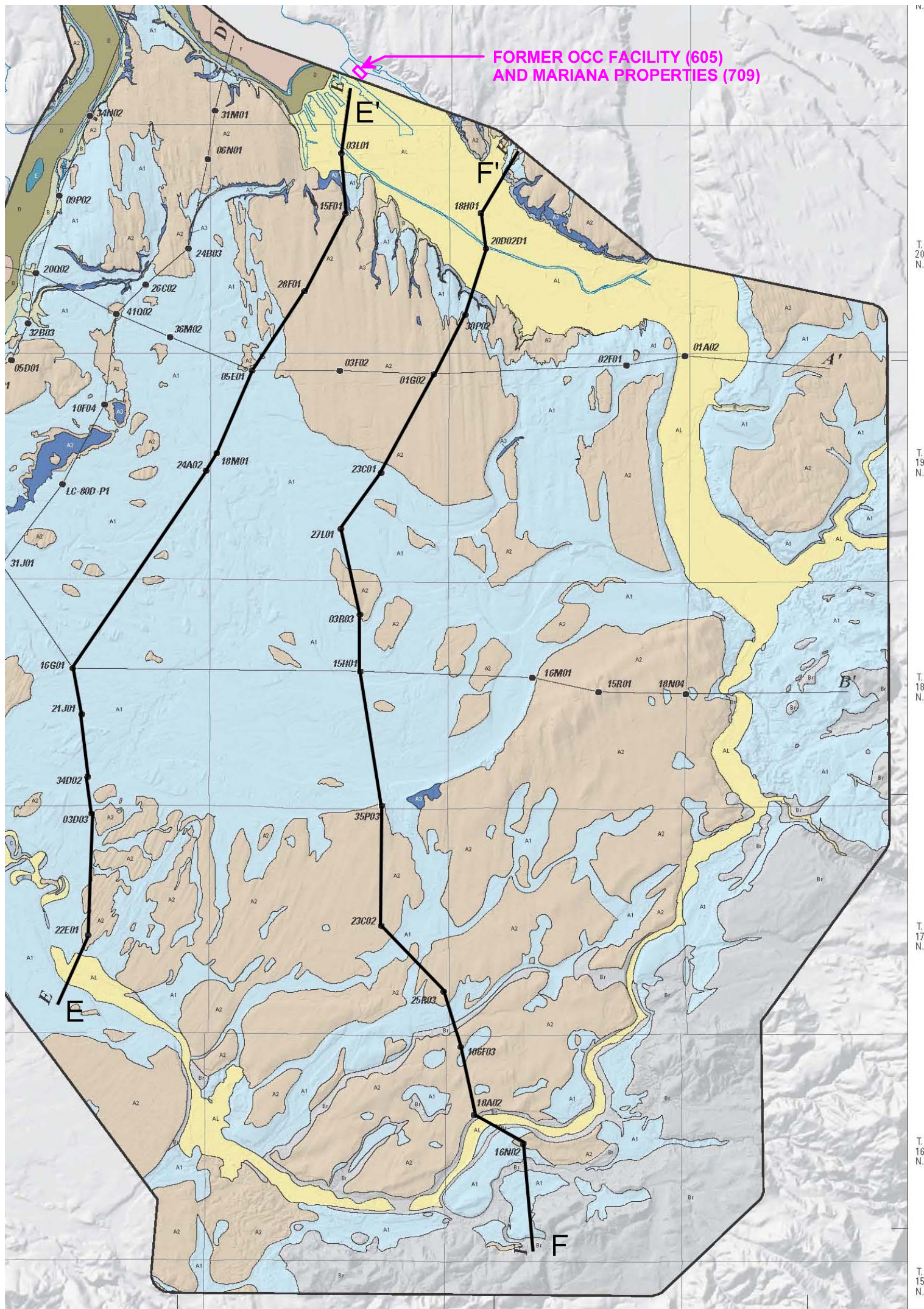
- UPPER AQUIFER SYSTEM
 - LAYER 1: PERCHED AQUIFERS OF LIMITED AERIAL EXTENTS
 - LAYER 2: VASHON AQUIFER SYSTEM
 - LAYER 3: LOW PERMEABILITY AQUITARD SYSTEM
- INTERMEDIATE AQUIFER SYSTEM
 - LAYER 4: RANDOMLY SPACED INTERMEDIATE AQUIFER SYSTEM WHERE AQUIFERS VARY GREATLY IN CHARACTER AND SIZE
 - LAYER 5: LOW PERMEABILITY AQUITARD SYSTEM
- DEEP AQUIFER SYSTEM
 - LAYER 6: CONSISTS OF LOW PERMEABILITY STRATA WITH ISOLATED AQUIFERS

SOURCE: ROBINSON & NOBLE, INC. (1992)

figure 3.14

ROBINSON & NOBLE (1992) CROSS-SECTION B-B'
Occidental Chemical Corporation, Tacoma, Washington

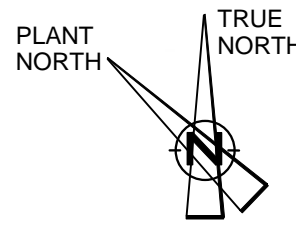




FORMER OCC FACILITY (605)
AND MARIANA PROPERTIES (709)

R. 02 E. R. 03 E. R. 04 E. R. 05 E.

0 1 2 3 4 5 6 7 8 9 10 MILES
0 1 2 3 4 5 6 7 8 9 10 KILOMETERS



EXPLANATION

Hydrogeologic unit

AL Alluvial valley aquifer	A3 Aquifer	D Confining unit	G Undifferentiated deposits (Note: not at land surface)
A1 Aquifer	B Confining unit	E Aquifer	Bedrock
A2 Confining unit	C Aquifer	F Confining unit	

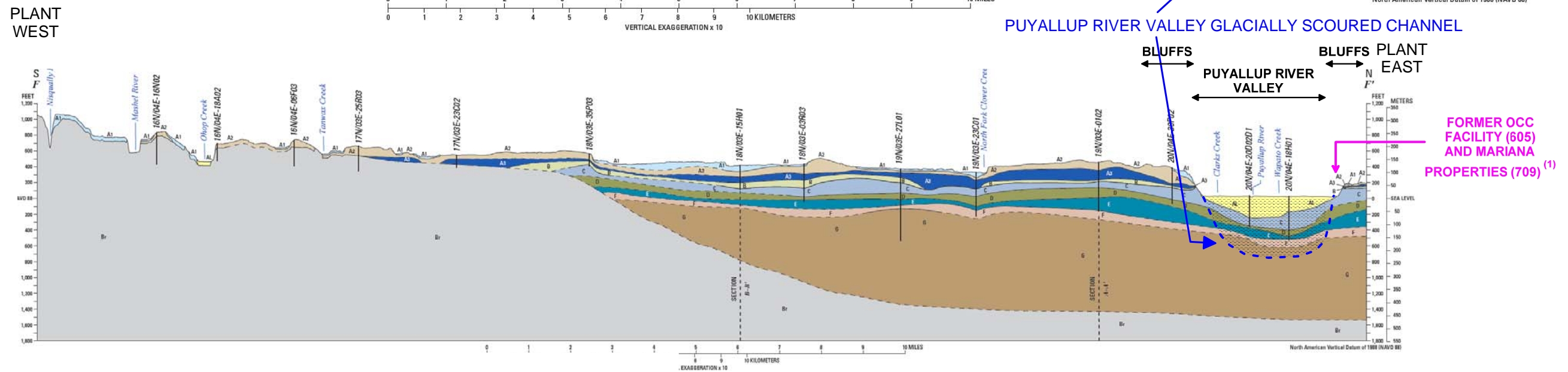
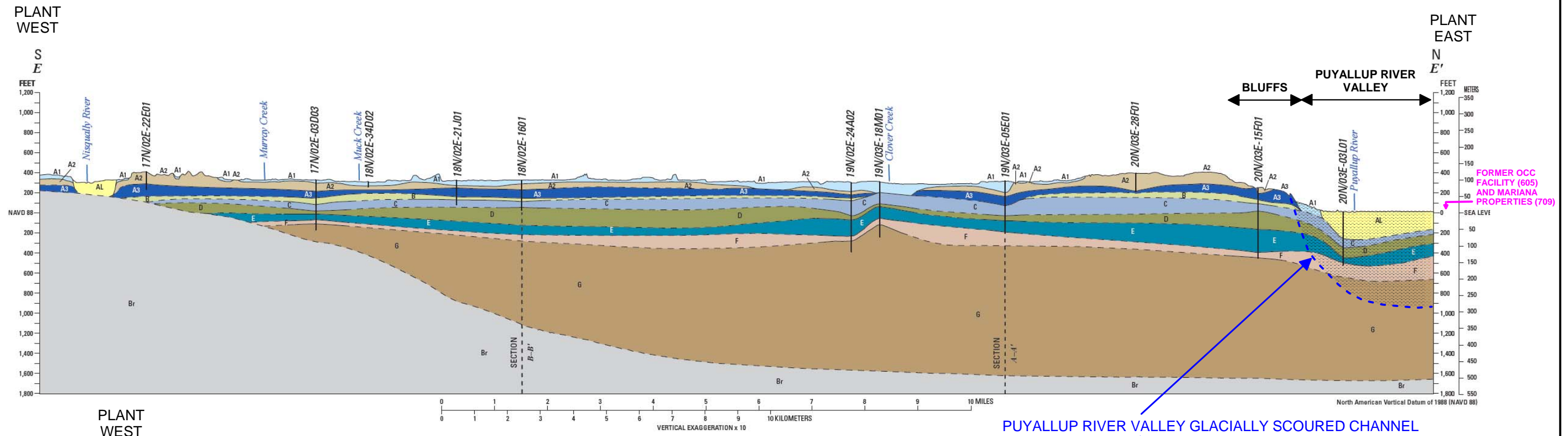
- Boundary of study area
- A A'** Line of hydrogeologic section
- Well used in construction of hydrogeologic sections
22P01

SOURCE: SAVOCA ET AL. (2010)

figure 3.15

SAVOCA ET AL. (2010) CROSS-SECTION LOCATIONS
Occidental Chemical Corporation, Tacoma, Washington





EXPLANATION

Hydrogeologic unit					
AL	AL Alluvial valley aquifer	A3	A3 Aquifer	G	G Undifferentiated deposits (Note: not at land surface)
A1	A1 Aquifer	B	B Confining unit	Br	Br Bedrock
A2	A2 Confining unit	C	C Aquifer		
		D	D Confining unit		
		E	E Aquifer		
		F	F Confining unit		
	PUYALLUP RIVER VALLEY GLACIALLY SCoured CHANNEL IN-FILLED BY MELT-WATER SEDIMENTS AND DELTAIC DEPOSITS				

— Water Surface
 - - - Contact—approximately located, dashed where uncertain
 Well No. (numbering system explained in text)
 Well used in construction of section
 Intersection of two hydrogeologic sections

SOURCE: SAVOCA ET AL. (2010)

NOTE:
 (1) LOCATED APPROXIMATELY 4 MILES PLANT-NORTH OF CROSS-SECTION F-F'.

figure 3.16
 SAVOCA ET AL. (2010) CROSS-SECTIONS E-E' AND F-F'
 Occidental Chemical Corporation, Tacoma, Washington



LEGEND

- 26NI ● REGIONAL BOREHOLE
EXTENDING DEEPER THAN -150 ft NGVD
 - APPROXIMATE SHORELINE
 - FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)
 - LOW PERMEABILITY GLACIAL MATERIAL PRESENT BETWEEN -150 ft NGVD AND -300 ft NGVD?**
 - 21/3-27J1 ● YES. ELEVATION INTERVAL WHERE
(-137 to -233) LOW PERMEABILITY GLACIAL MATERIAL IS PRESENT (ft NGVD).
 - 20/4-2Q1 ● NO. LOW PERMEABILITY GLACIAL MATERIAL IS NOT PRESENT.
(-166) ELEVATION OF BOTTOM OF BOREHOLE WHERE IT DOES NOT
EXTEND DEEPER THAN -300 ft NGVD (ft NGVD).
 - 21/3-36P1 ● POSSIBLY. ELEVATION INTERVAL WHERE LOW PERMEABILITY
(-128 to -158) GLACIAL MATERIAL IS POSSIBLY PRESENT (ft NGVD).
- REFER TO TABLE 3.1.

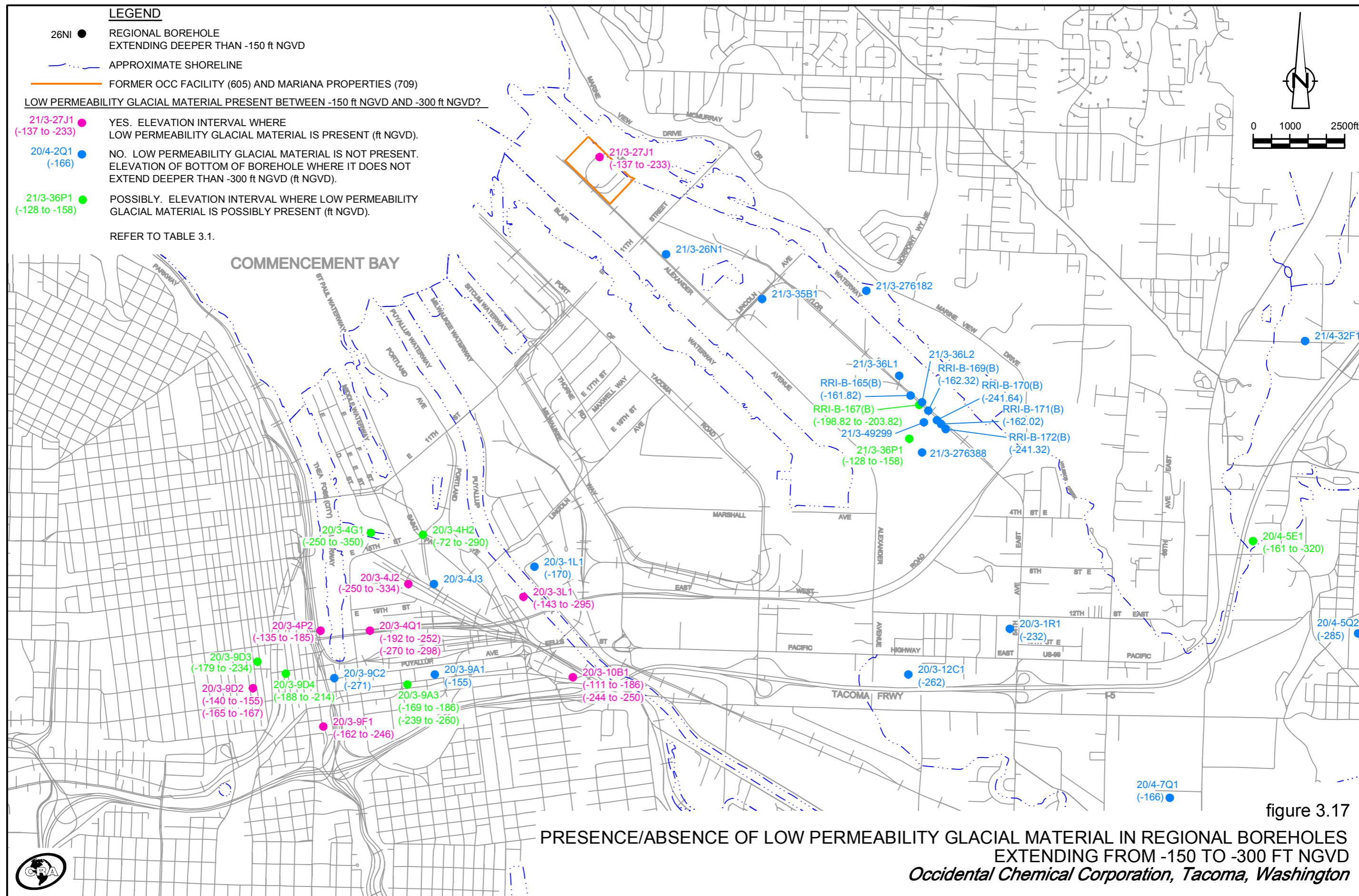
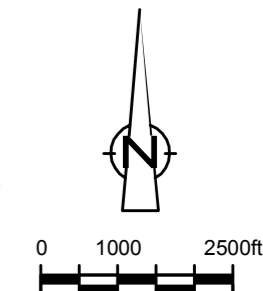


figure 3.17

**PRESENCE/ABSENCE OF LOW PERMEABILITY GLACIAL MATERIAL IN REGIONAL BOREHOLES
EXTENDING FROM -150 TO -300 FT NGVD
Occidental Chemical Corporation, Tacoma, Washington**



LEGEND

- 20/3-4J3 ● REGIONAL BOREHOLE EXTENDING DEEPER THAN -300 ft NGVD
- 30/3-9D2 ● REGIONAL BOREHOLE NOT EXTENDING TO -300 ft NGVD
ELEVATION OF BOREHOLE DEPTH INDICATED (ft NGVD)
- - - APPROXIMATE SHORELINE
- FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)

LOW PERMEABILITY GLACIAL MATERIAL PRESENT BELOW -300 ft NGVD?

- 20/3-4J3 ● YES. ELEVATION INTERVAL WHERE
LOW PERMEABILITY GLACIAL MATERIAL IS PRESENT (ft NGVD).
(-378 to -387)
- 20/3-4J3 ● YES. ELEVATION INTERVAL WHERE LOW PERMEABILITY
MATERIAL (NON-GLACIAL) IS PRESENT (ft NGVD).
(-300 to -307)
- * POSSIBLE LOW PERMEABILITY GLACIAL MATERIAL
- ** ONLY PART OF INTERVAL CLASSIFIED AS LOW PERMEABILITY
REFER TO TABLE 3.2.

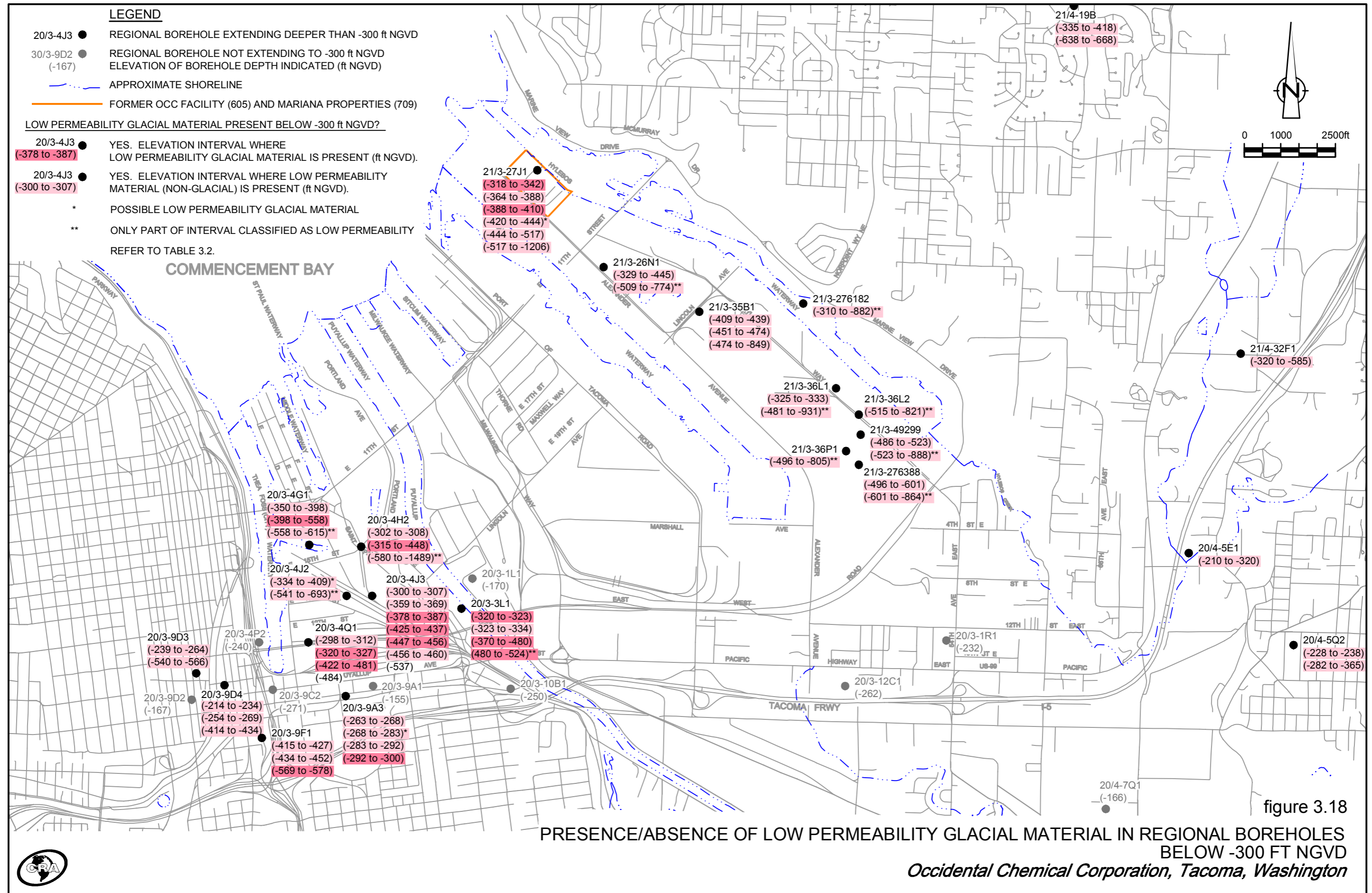
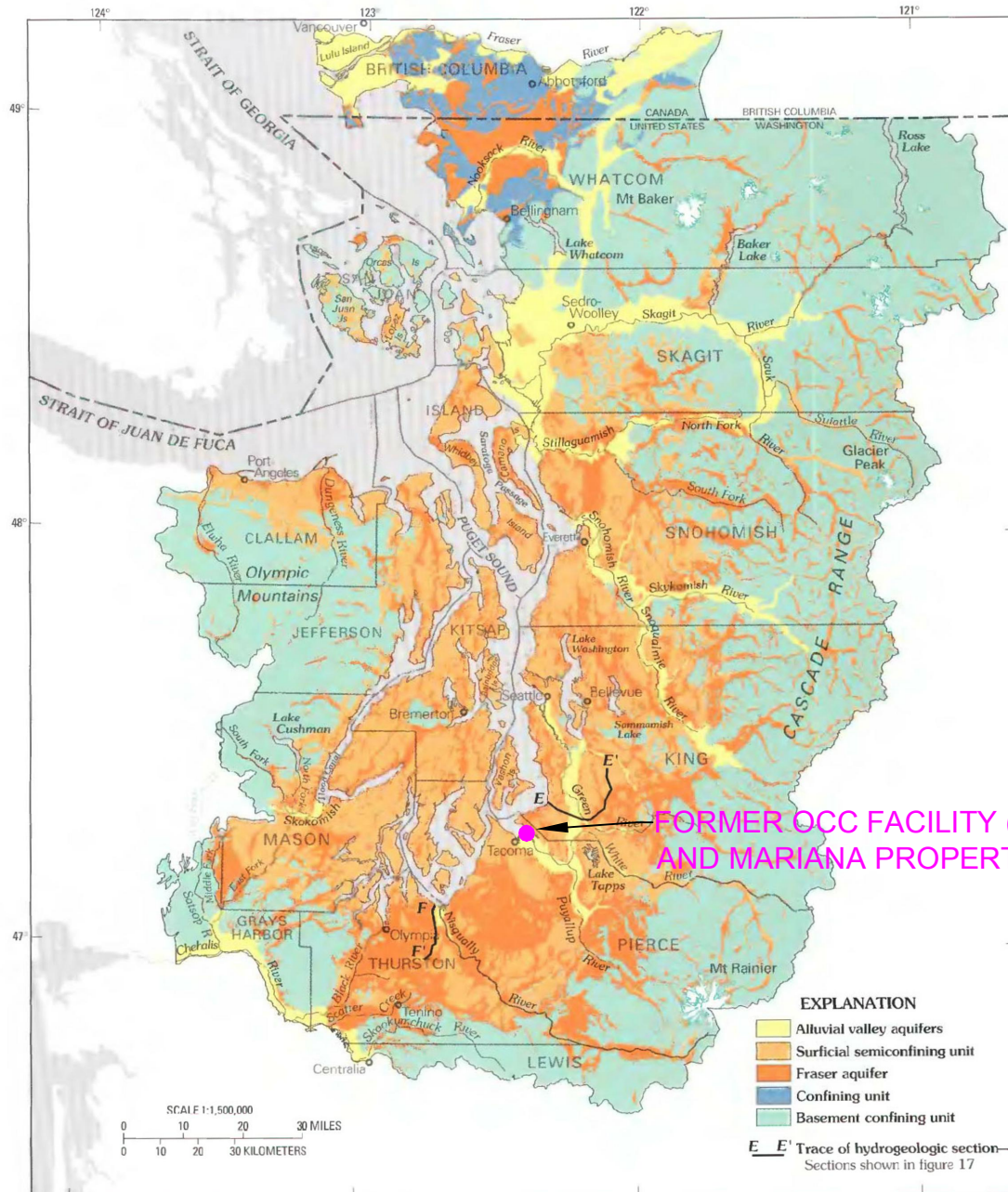


figure 3.18



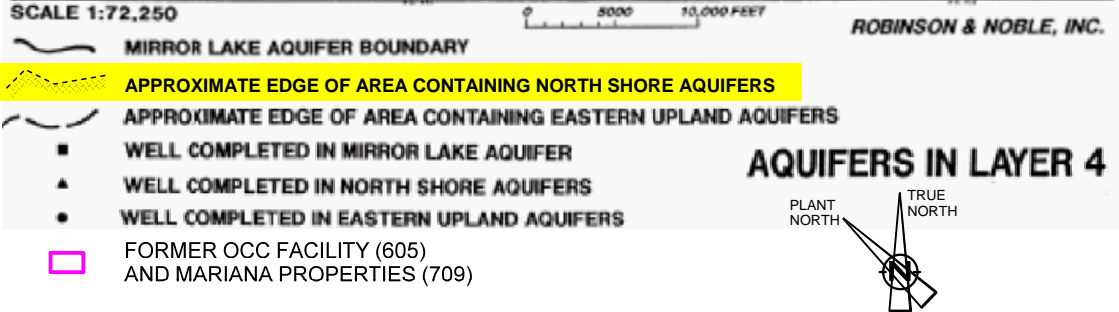
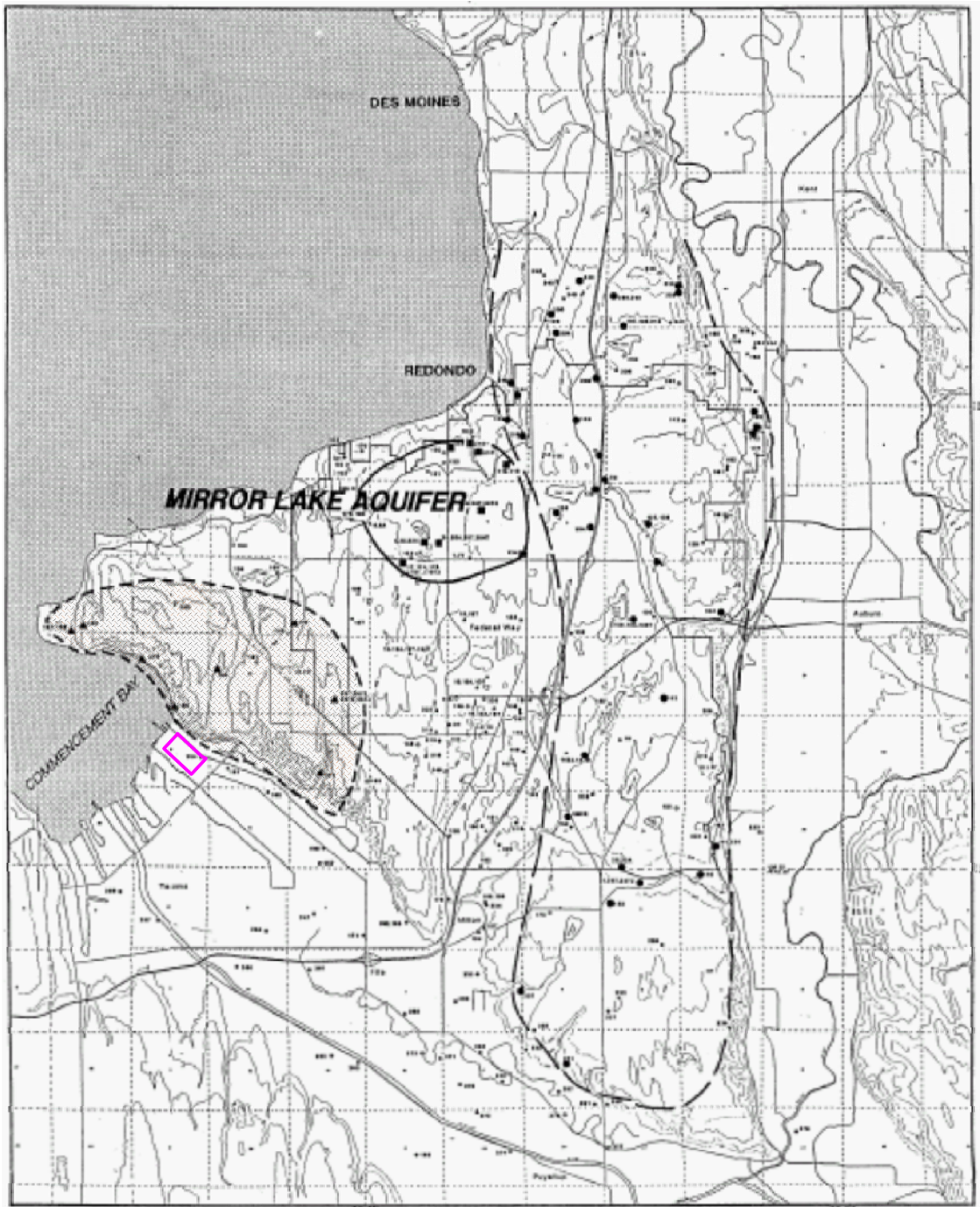
Base modified from U.S. Geological Survey digital data, 1:2,000,000, 1972

SOURCE: VACCARO, J.J., A.J. HANSEN, AND M.A. JONES, 1998. HYDROGEOLOGIC FRAMEWORK OF THE PUGET SOUND AQUIFER SYSTEM, PROFESSIONAL PAPER 1424-D, USGS.

figure 3.19

LATERAL EXTENTS OF PUGET SOUND LOWLANDS AQUIFER
Occidental Chemical Corporation, Tacoma, Washington



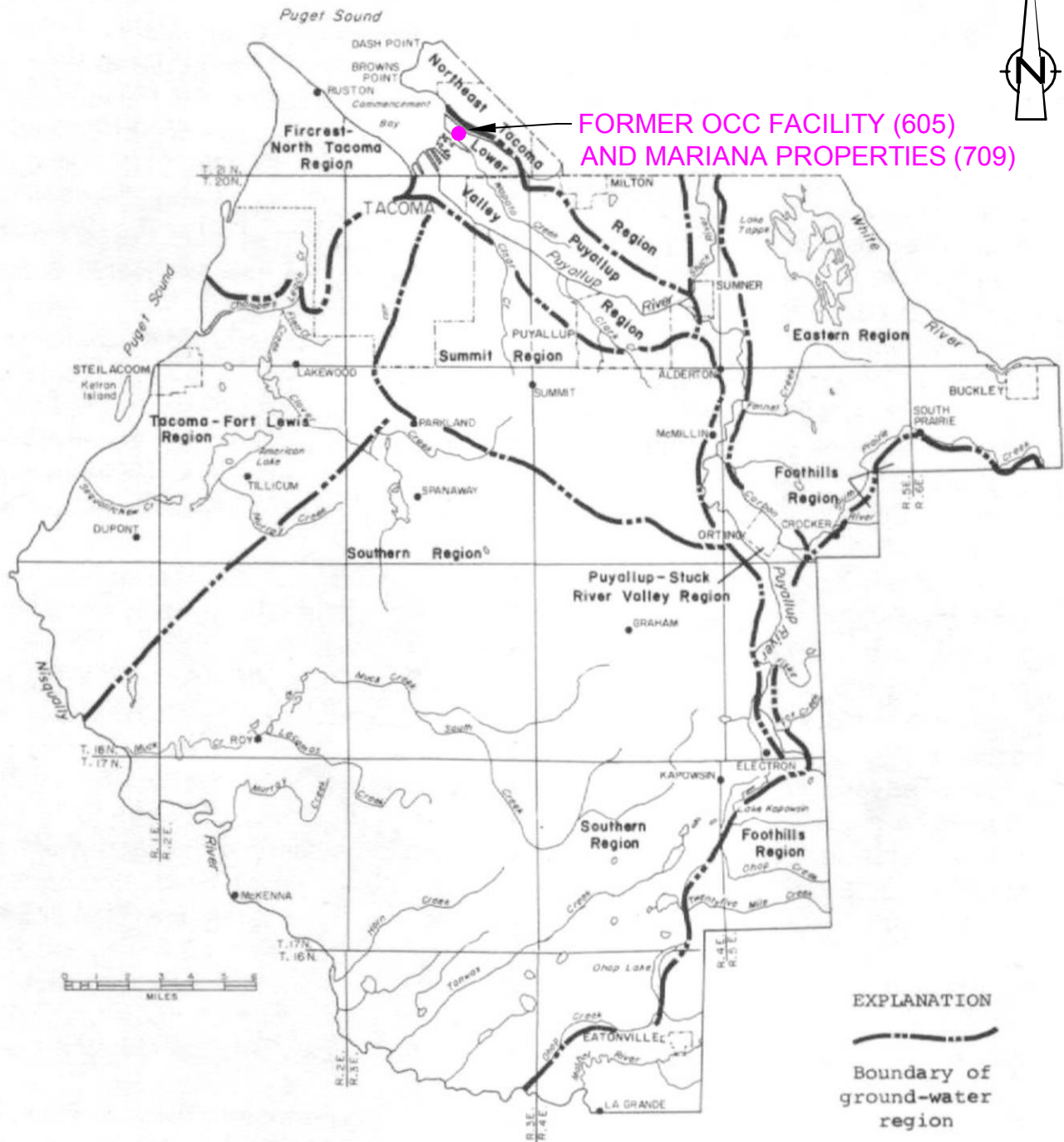
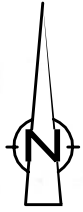


SOURCE: ROBINSON & NOBLE, INC. (1992)

figure 3.20



LOCATION OF NORTH SHORE AQUIFERS UNDER BLUFFS
Occidental Chemical Corporation, Tacoma, Washington

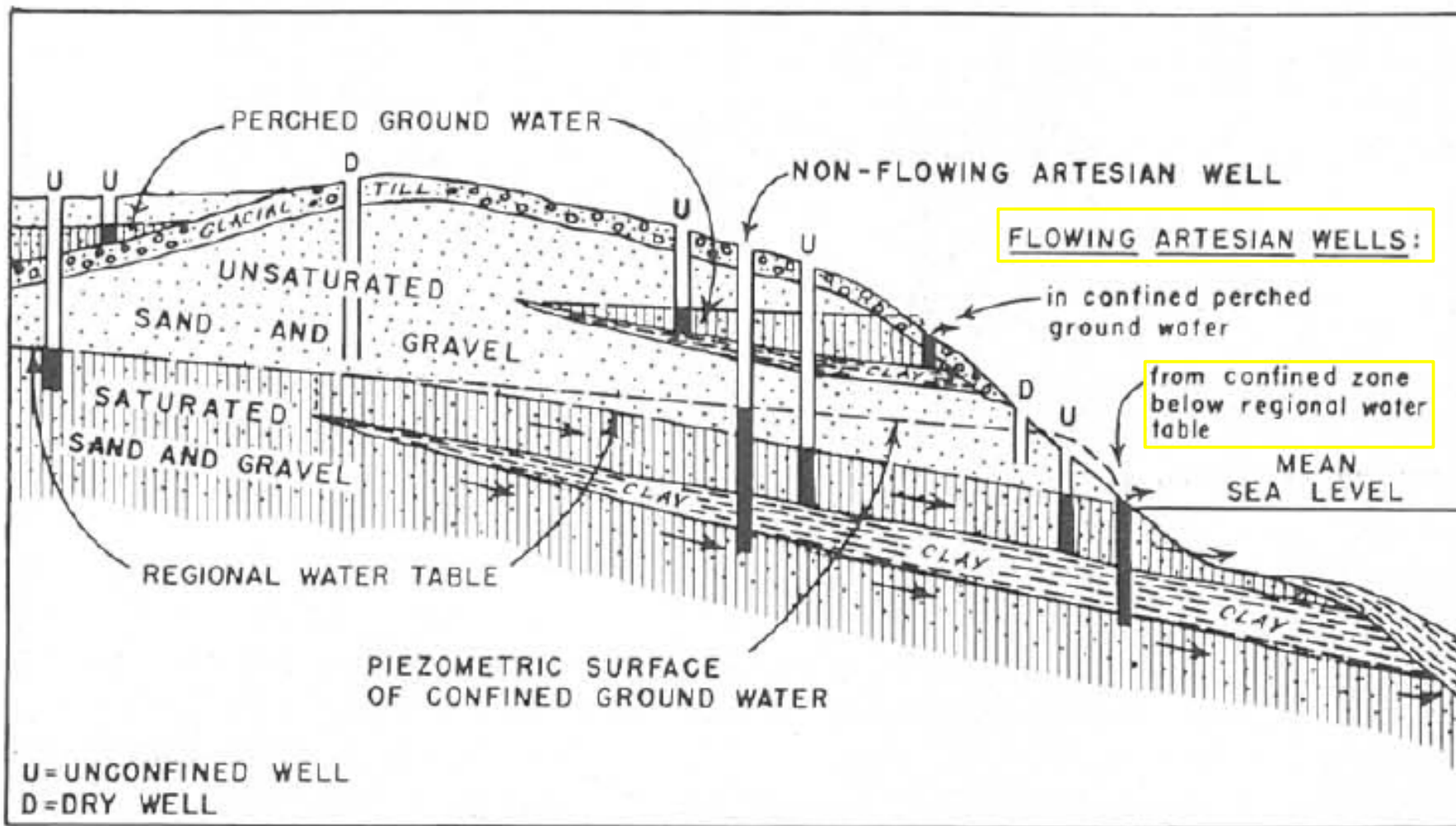


SOURCE: WALTERS, K.E. AND G.E. KIMMEL, 1968.
 WATER SUPPLY BULLETIN NUMBER 22:
 GROUND-WATER OCCURRENCE AND
 STRATIGRAPHY OF UNCONSOLIDATED DEPOSITS,
 CENTRAL PIERCE COUNTY, WASHINGTON,
 DEPARTMENT OF WATER RESOURCES.

figure 3.21

GROUNDWATER REGIONS IN CENTRAL PIERCE COUNTY
Occidental Chemical Corporation, Tacoma, Washington



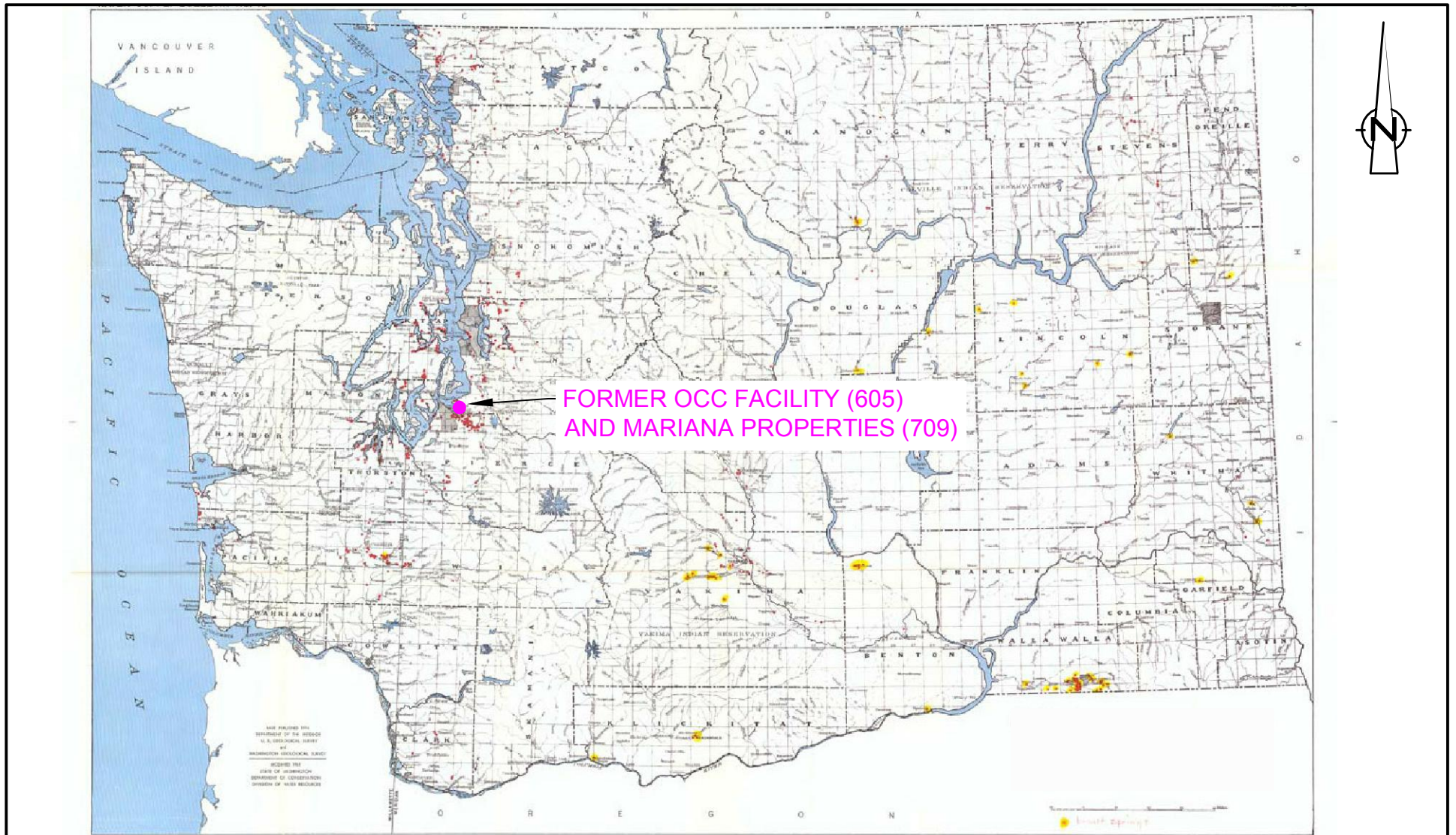


SOURCE: MOLENAAR (1961)

figure 3.22

GENERALIZED CONCEPT OF ARTESIAN GROUNDWATER
CONDITIONS IN THE STRAITS-PUGET BASIN
Occidental Chemical Corporation, Tacoma, Washington





SOURCE: MOLENAAR, D., 1961. WATER SUPPLY BULLETIN NUMBER 16:
 FLOWING ARTESIAN WELLS IN WASHINGTON STATE,
 DEPARTMENT OF CONSERVATION.

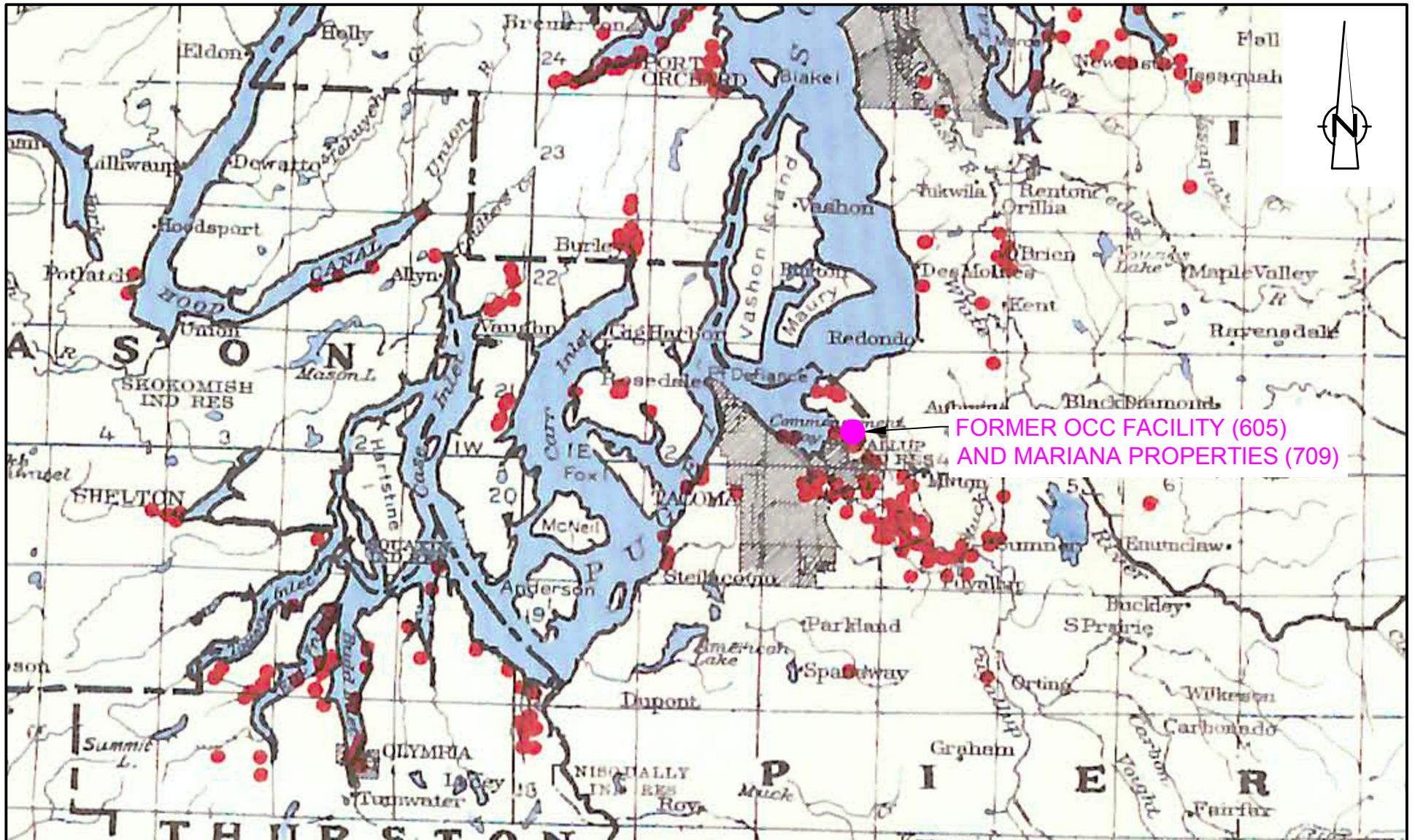
figure 3.23

FLOWING ARTESIAN WELLS IN WASHINGTON STATE
Occidental Chemical Corporation, Tacoma, Washington



LEGEND

- FLOWING ARTESIAN WELL



SOURCE: MOLENAAR, D., 1961. WATER SUPPLY BULLETIN NUMBER 16:
 FLOWING ARTESIAN WELLS IN WASHINGTON STATE,
 DEPARTMENT OF CONSERVATION.

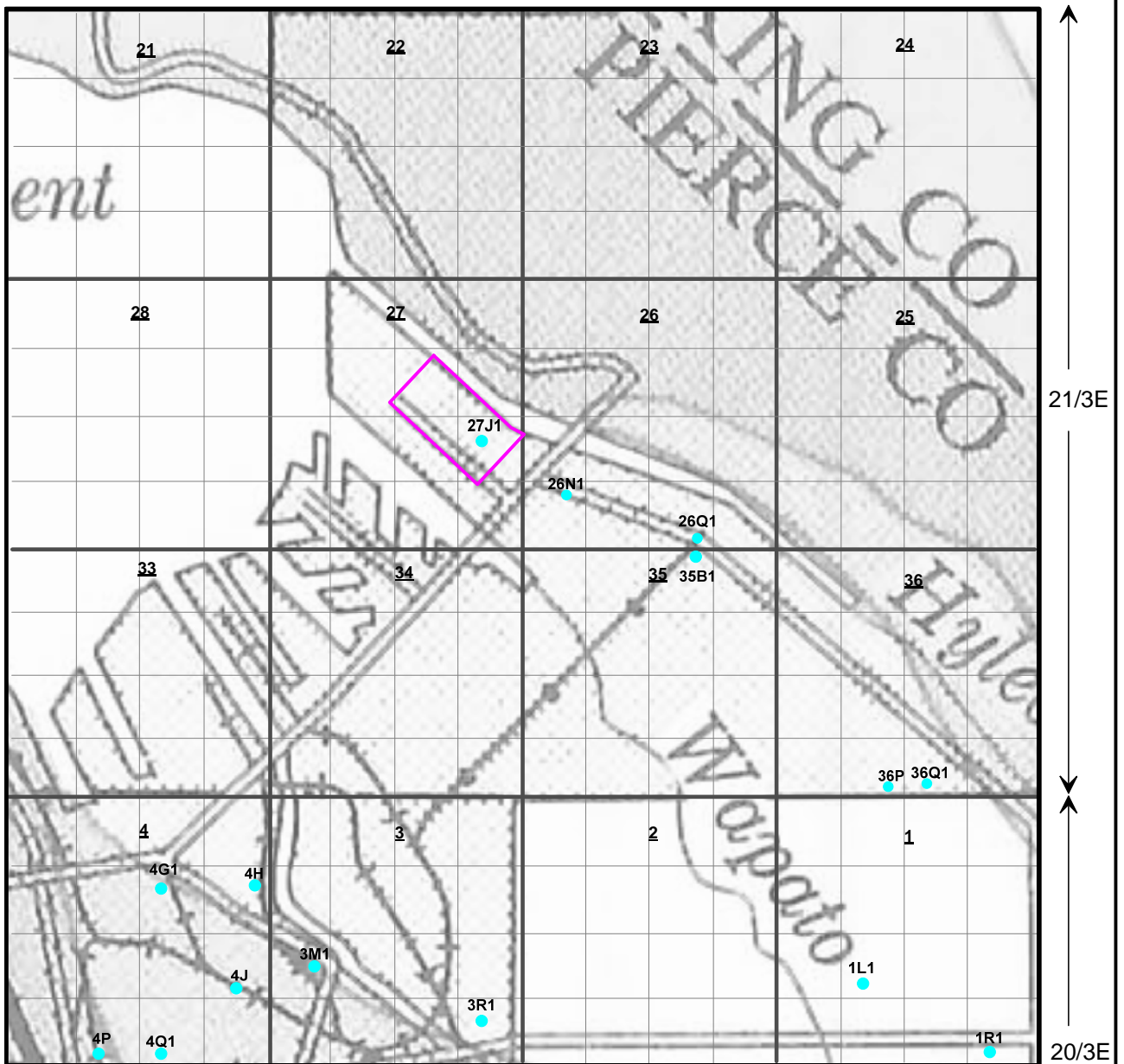
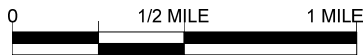
figure 3.24

FLOWING ARTESIAN WELLS IN SITE VICINITY
Occidental Chemical Corporation, Tacoma, Washington



LEGEND

● FLOWING ARTESIAN WELL



SOURCE: GRIFFIN ET AL.(1962)

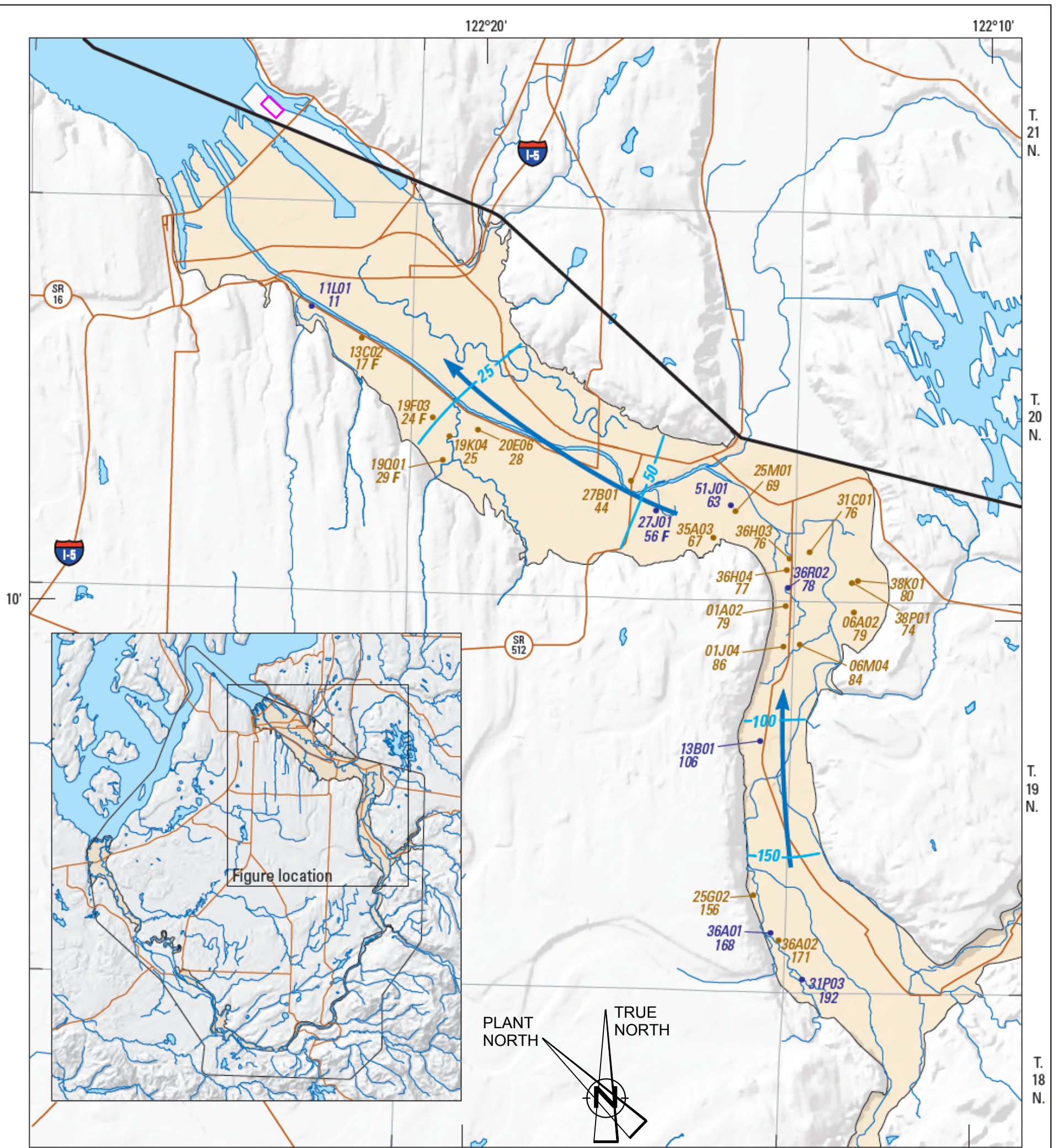
LEGEND

- ▭ FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)
- 21 GRID SECTION WITHIN TOWNSHIP (21 OR 20) AND RANGE (3E)
- 4Q1 APPROXIMATE LOCATION OF ARTESIAN WELL AND ID [IF NUMBER NOT PRESENT AFTER LETTER (i.e., 1Q INSTEAD OF 1Q1), THEN MULTIPLE WELLS AT LOCATION]

figure 3.25

DETAIL OF ARTESIAN WELLS IN SITE VICINITY
Occidental Chemical Corporation, Tacoma, Washington





R. 3 E.
 Base from U.S. Geological Survey and/or
 Washington Division of Geology and Earth Resources
 digital data, 1983, 1:100,000
 Universal Transverse Mercator projection, Zone 10
 Horizontal Datum: North American Datum of 1983 (NAD 83)

R. 4 E. R. 5 E.
 0 2 4 6 8 MILES
 0 2 4 6 8 KILOMETERS

EXPLANATION

- AL alluvial valley aquifer
- Boundary of study area
- Approximate water-level contour—Shows altitude of water level in alluvial valley aquifer, October 2006–September 2008. Contour interval, 25 and 50 feet. Datum is North American Vertical Datum of 1988 (NAVD 88)
- Inferred direction of groundwater flow
- FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)

- Measurement location and water-level altitude, in feet above North American Vertical Datum of 1988 (NAVD 88)**
- **31P03** 192 • Well used to measure water-level altitudes on a monthly basis—The mean water-level altitude for March 2007 through September 2008 was used to represent the water-level altitude at each of the wells monitored on a monthly basis. Numbers are well No. (top) and water-level altitude (bottom)
 - **36A02** 171 • Field inventory well used to measure synoptic water-level altitudes—Synoptic water-level altitude for September through December 2006 and February through April 2007 was used only in areas where monthly water-level data were not available. Numbers are well No. (top) and water-level altitude (bottom)
 - F **F** Flowing well

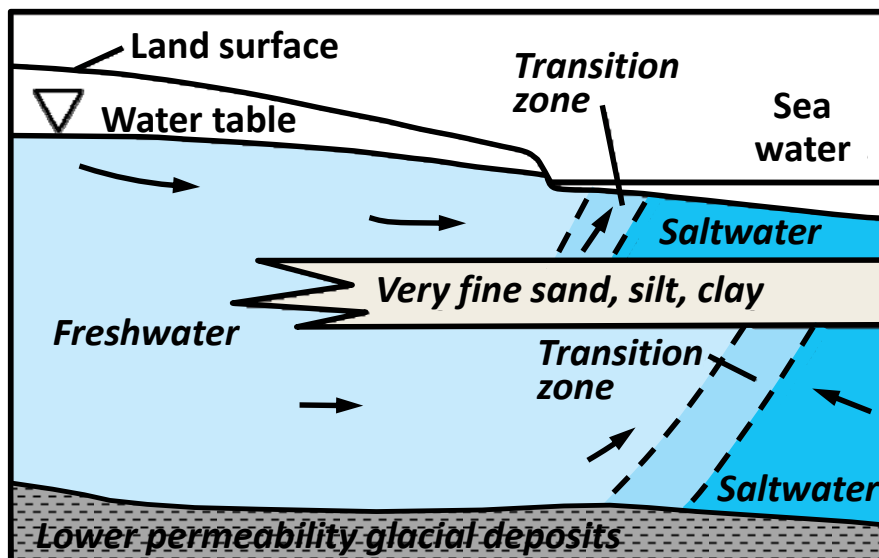
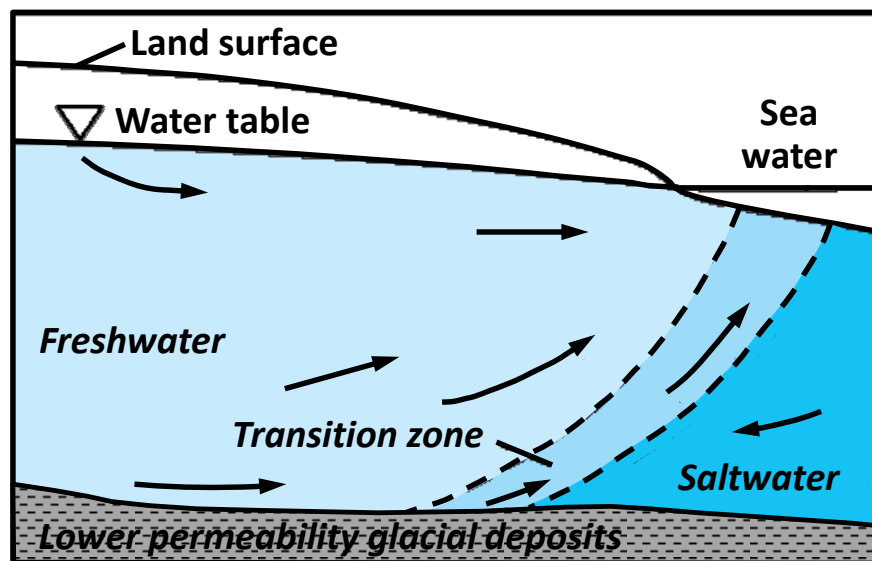
SOURCE: SAVOCA ET AL. (2010)

figure 3.26

REGIONAL GROUNDWATER ELEVATIONS AND FLOW DIRECTIONS THROUGH THE PUYALLUP RIVER ALLUVIAL AQUIFER
Occidental Chemical Corporation, Tacoma, Washington



A. GROUNDWATER DISCHARGE TO A SALT WATER BODY IN A RELATIVELY HOMOGENEOUS AQUIFER



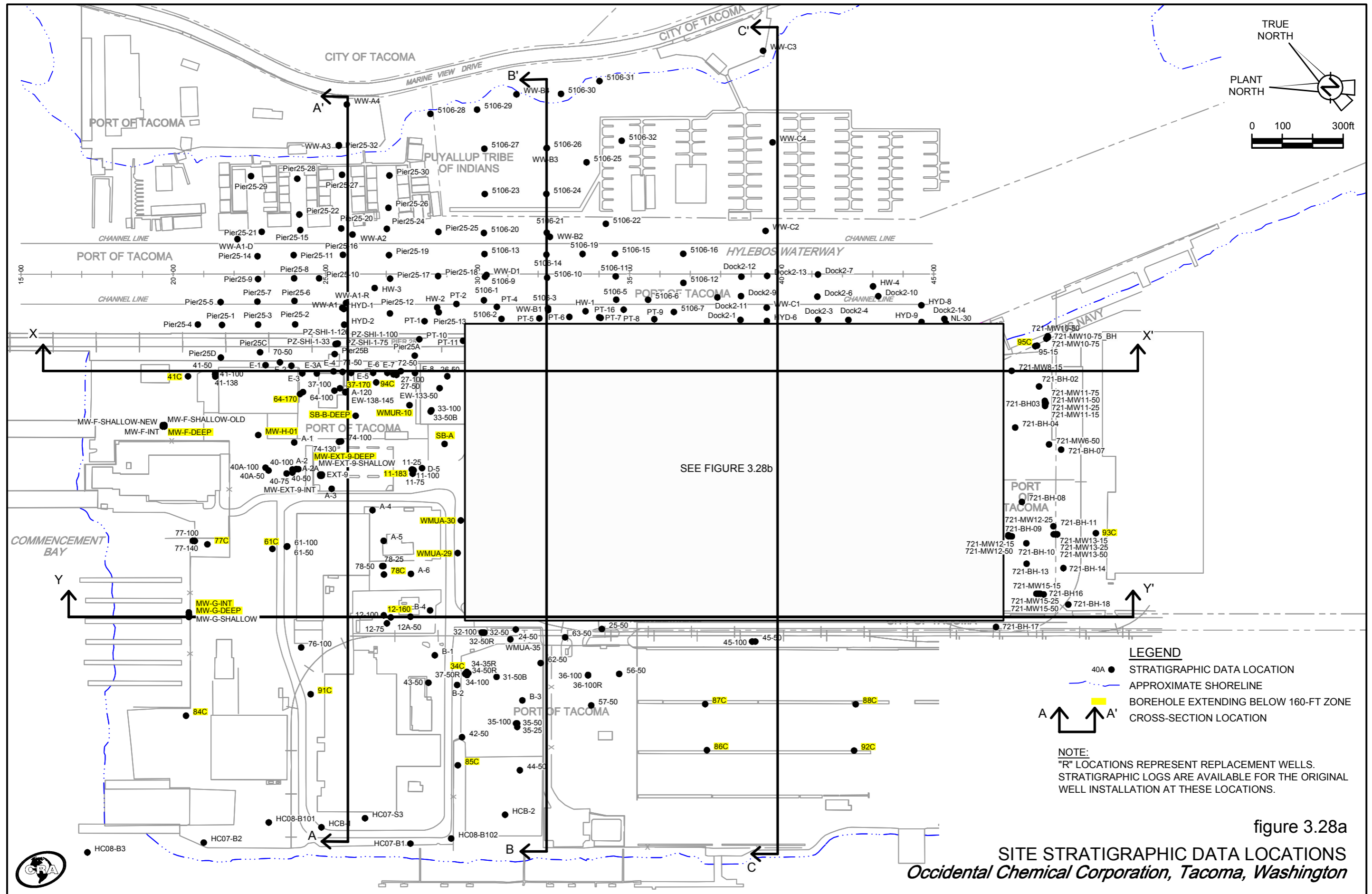
B. EXAMPLE EFFECT OF HETEROGENEITIES ON GROUNDWATER DISCHARGE TO A SALT WATER BODY

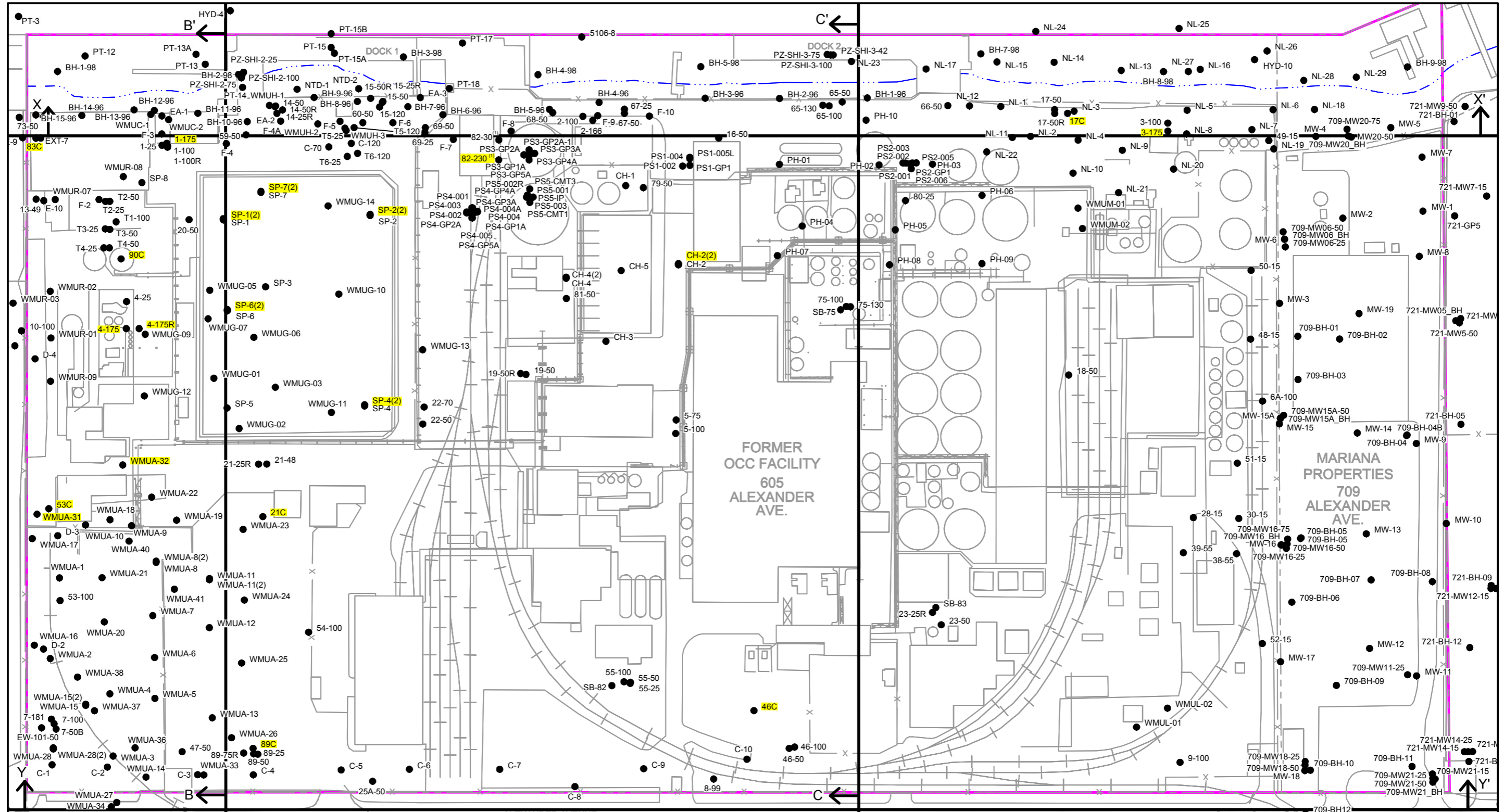
figure 3.27

GROUNDWATER DISCHARGE TO SALT WATER BODY
Occidental Chemical Corporation, Tacoma, Washington



SOURCE: BARLOW (2003)

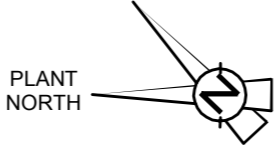




LEGEND

- 40A ● STRATIGRAPHIC DATA LOCATION
- FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)
- APPROXIMATE SHORELINE
- BOREHOLE EXTENDING BELOW 160-FT ZONE
- CROSS-SECTION LOCATION

TRUE NORTH



0 40 120ft

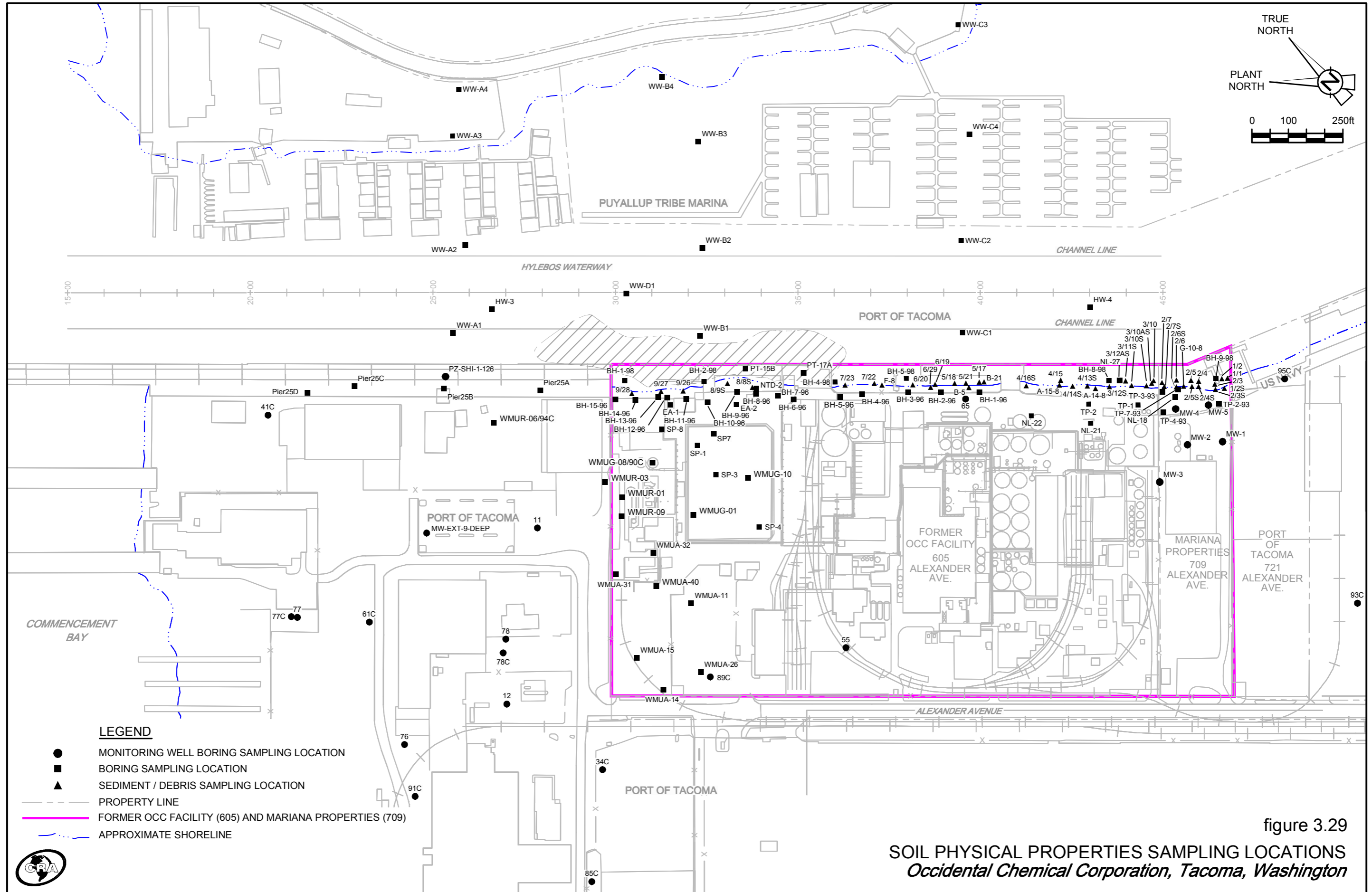
NOTES:

"R" LOCATIONS REPRESENT REPLACEMENT WELLS. STRATIGRAPHIC LOGS ARE AVAILABLE FOR THE ORIGINAL WELL INSTALLATION AT THESE LOCATIONS.

(1) 82-30 AND 82-230 WERE ADVANCED FOR THE PRODUCTION WELL INVESTIGATION. THE STRATIGRAPHIC DATA FOR THESE BORINGS ARE CONSISTENT WITH THE 3-D SITE STRATIGRAPHIC MODEL, ALTHOUGH NOT USED DIRECTLY IN ITS DEVELOPMENT.

figure 3.28b

SITE STRATIGRAPHIC DATA LOCATIONS
Occidental Chemical Corporation, Tacoma, Washington



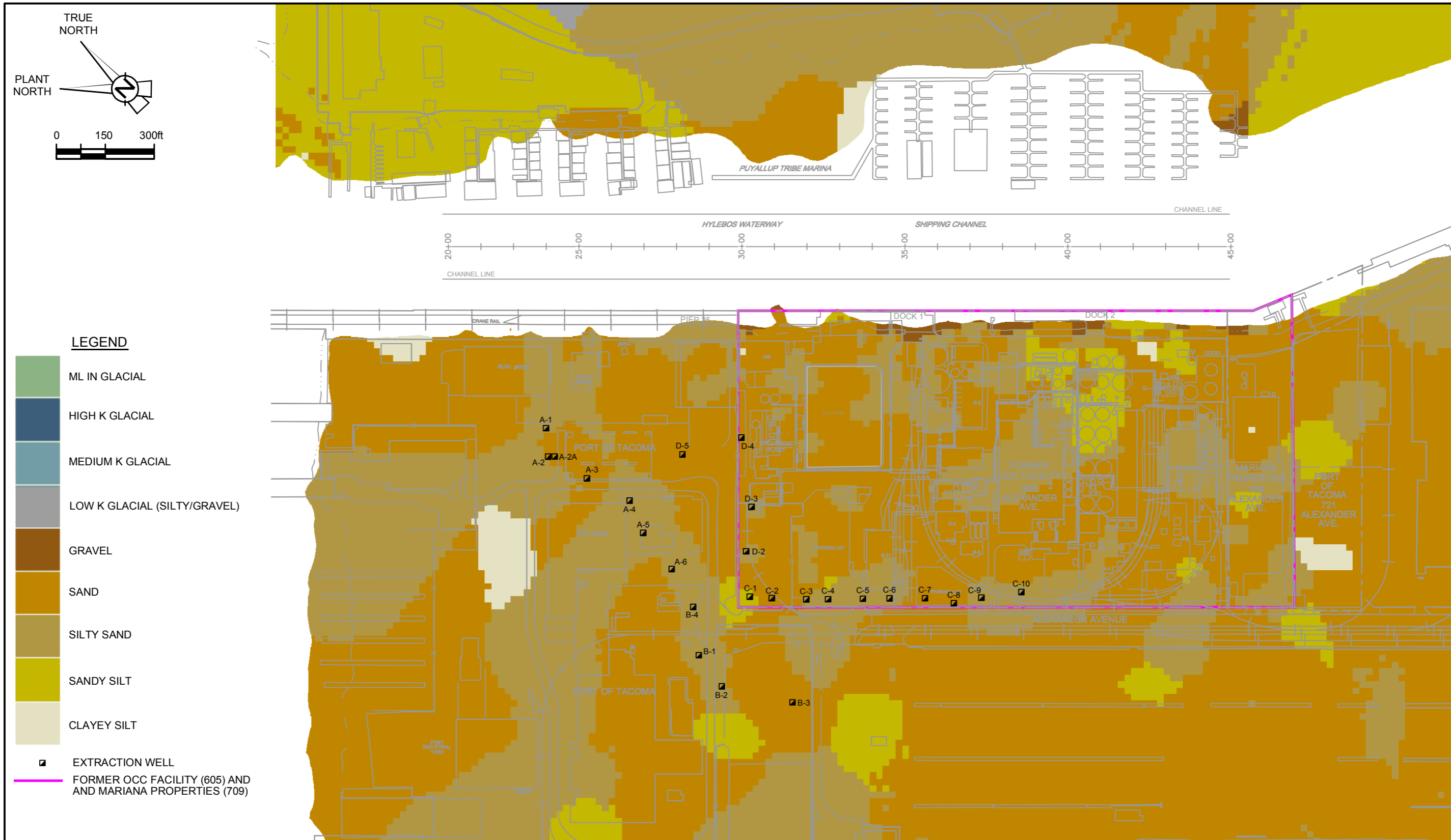


figure 3.30
 DETAILED STRATIGRAPHIC MODEL - 25-FT ZONE (ELEV = -10 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington



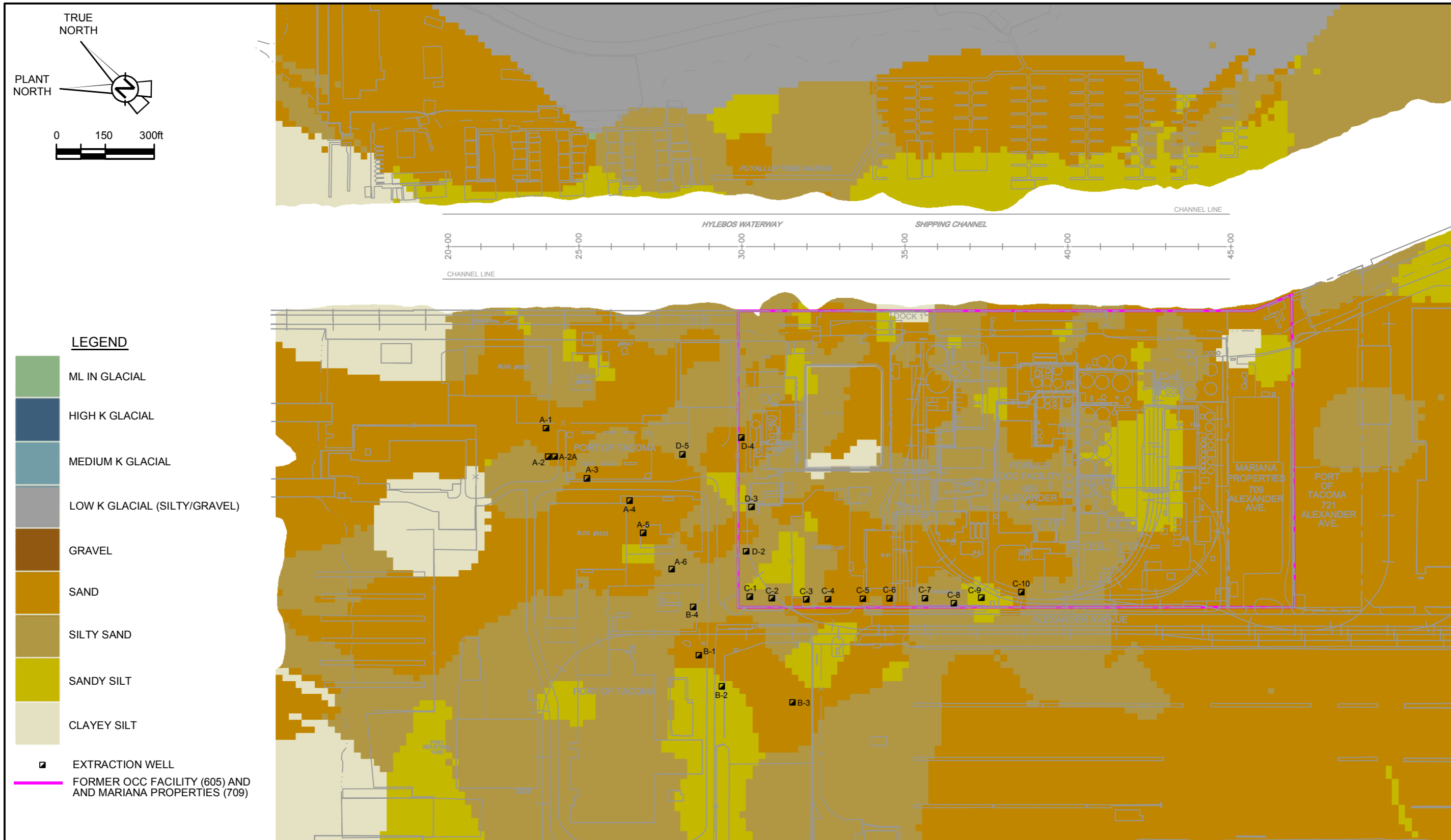


figure 3.31
 DETAILED STRATIGRAPHIC MODEL - 50-FT ZONE (ELEV = -35 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington



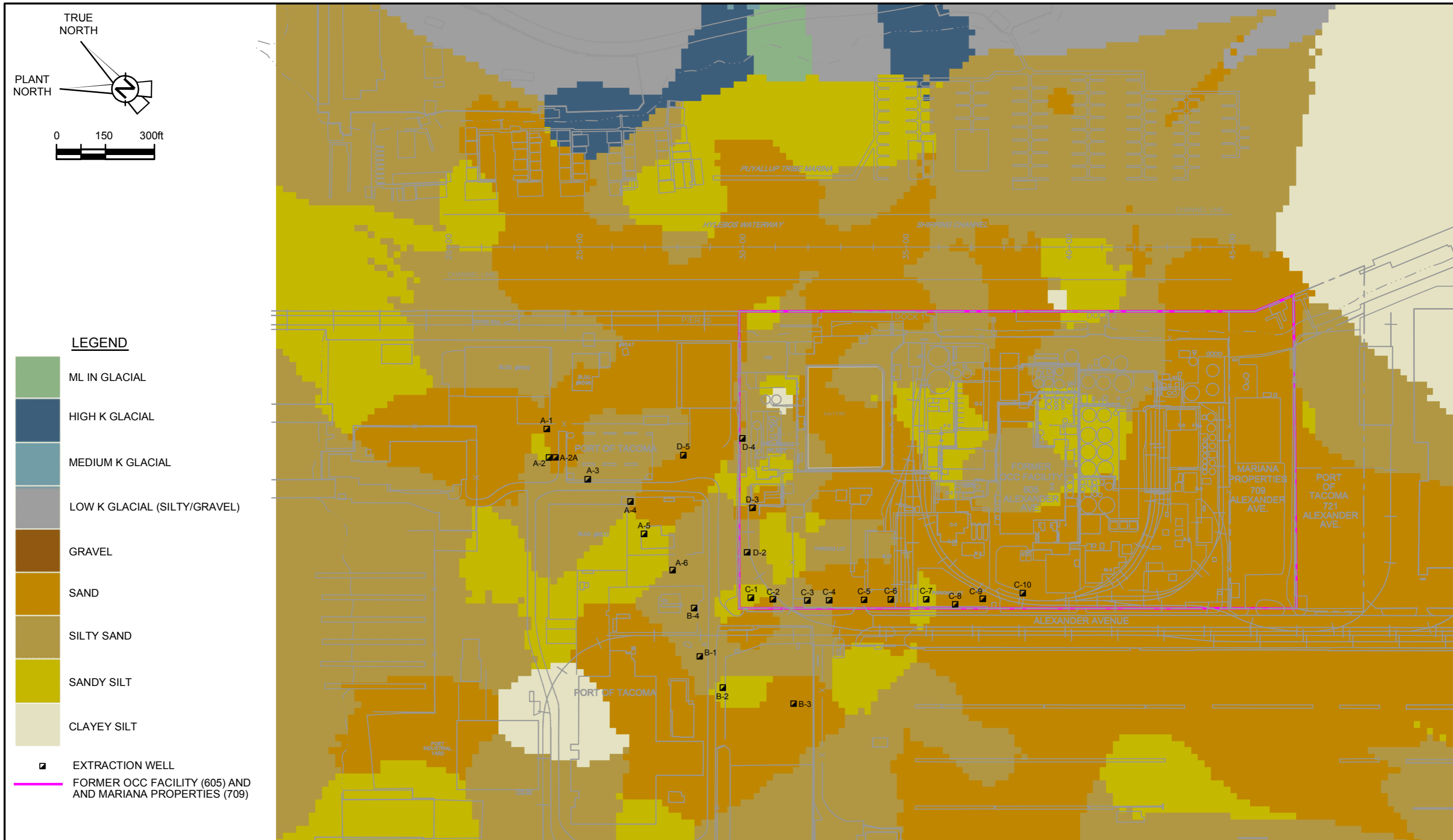


figure 3.32

DETAILED STRATIGRAPHIC MODEL - 75-FT ZONE (ELEV = -60 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington



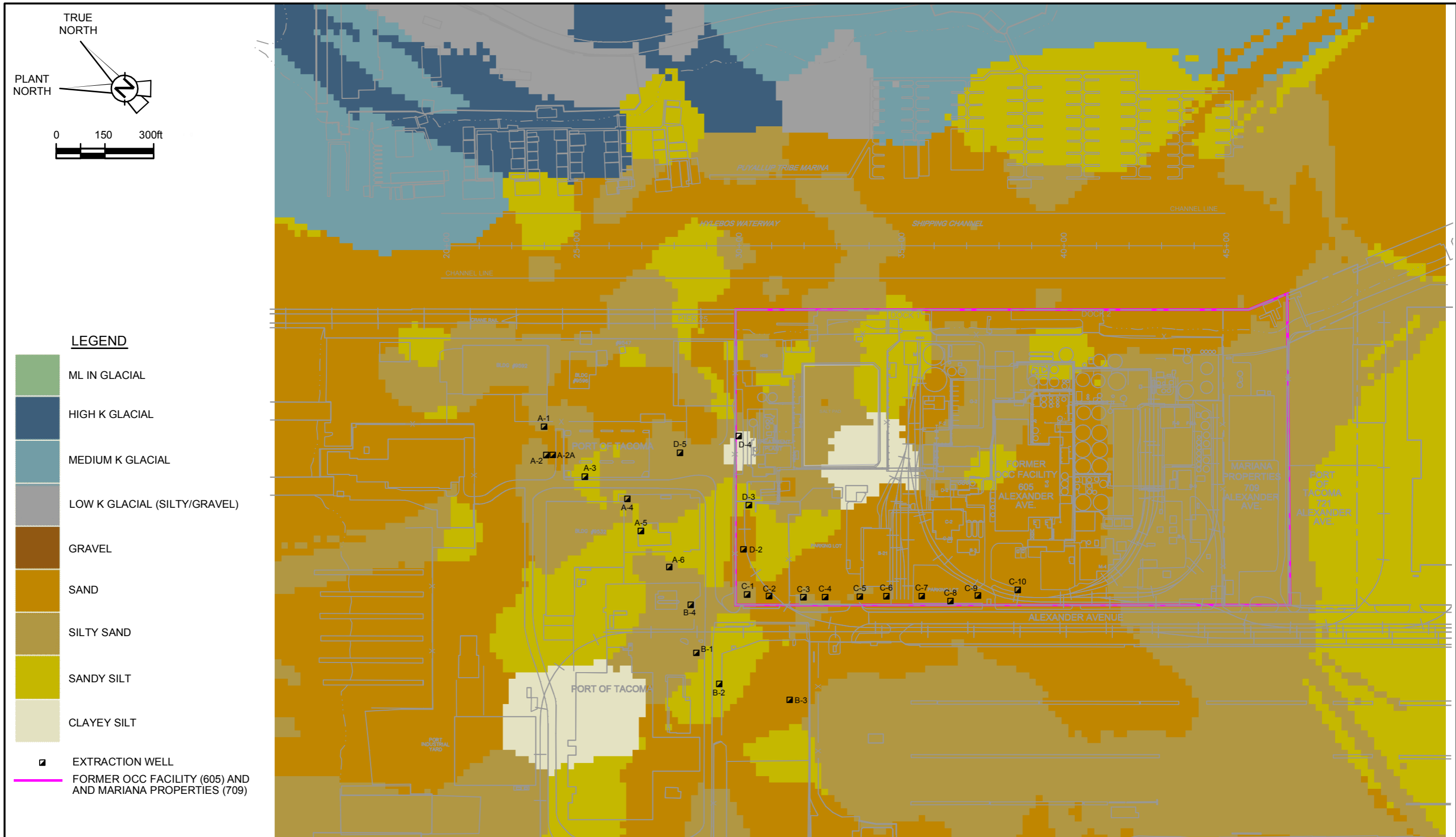


figure 3.33
 DETAILED STRATIGRAPHIC MODEL - 100-FT ZONE (ELEV = -85 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington



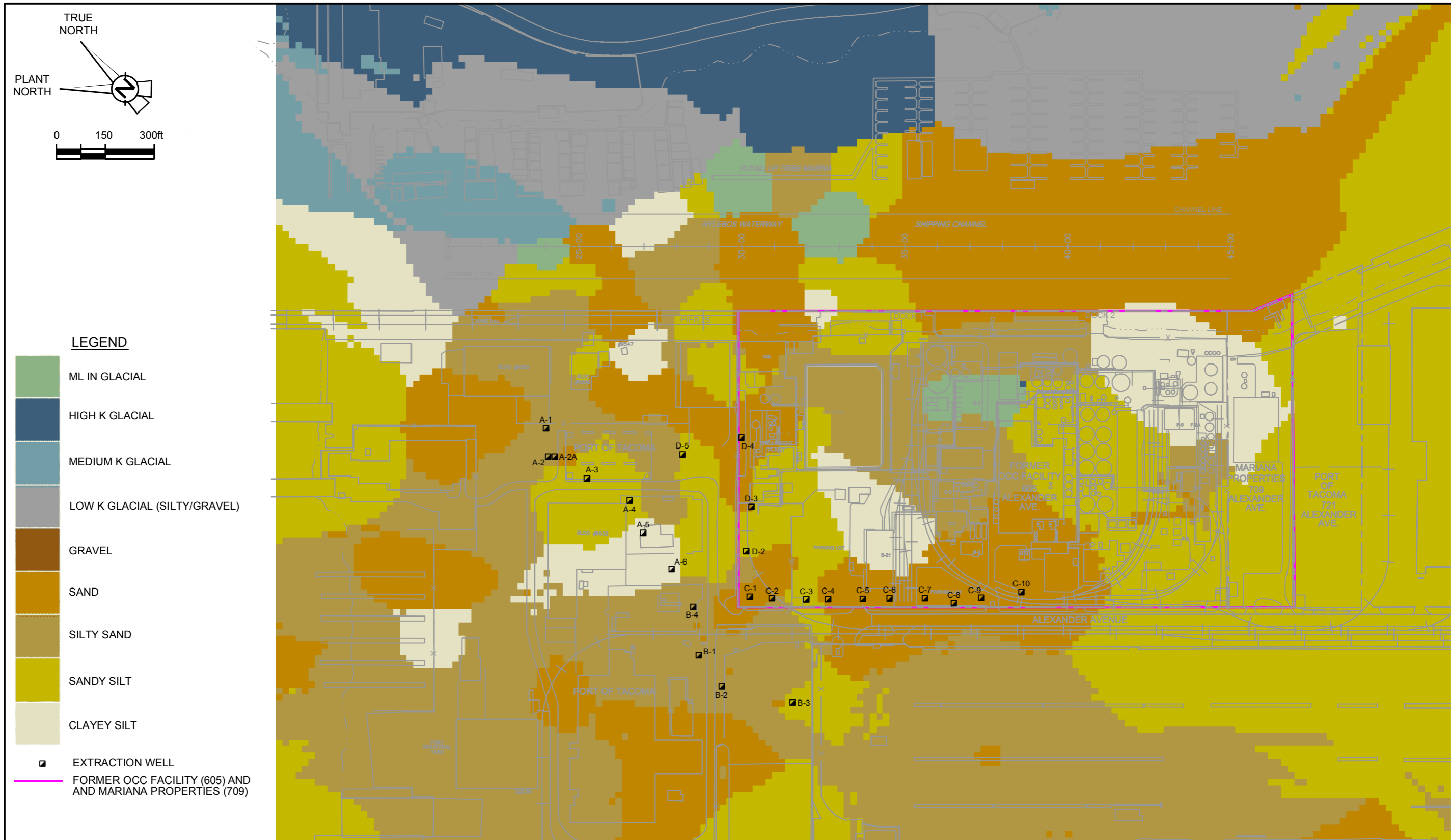


figure 3.34
 DETAILED STRATIGRAPHIC MODEL - 130-FT ZONE (ELEV = -115 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington



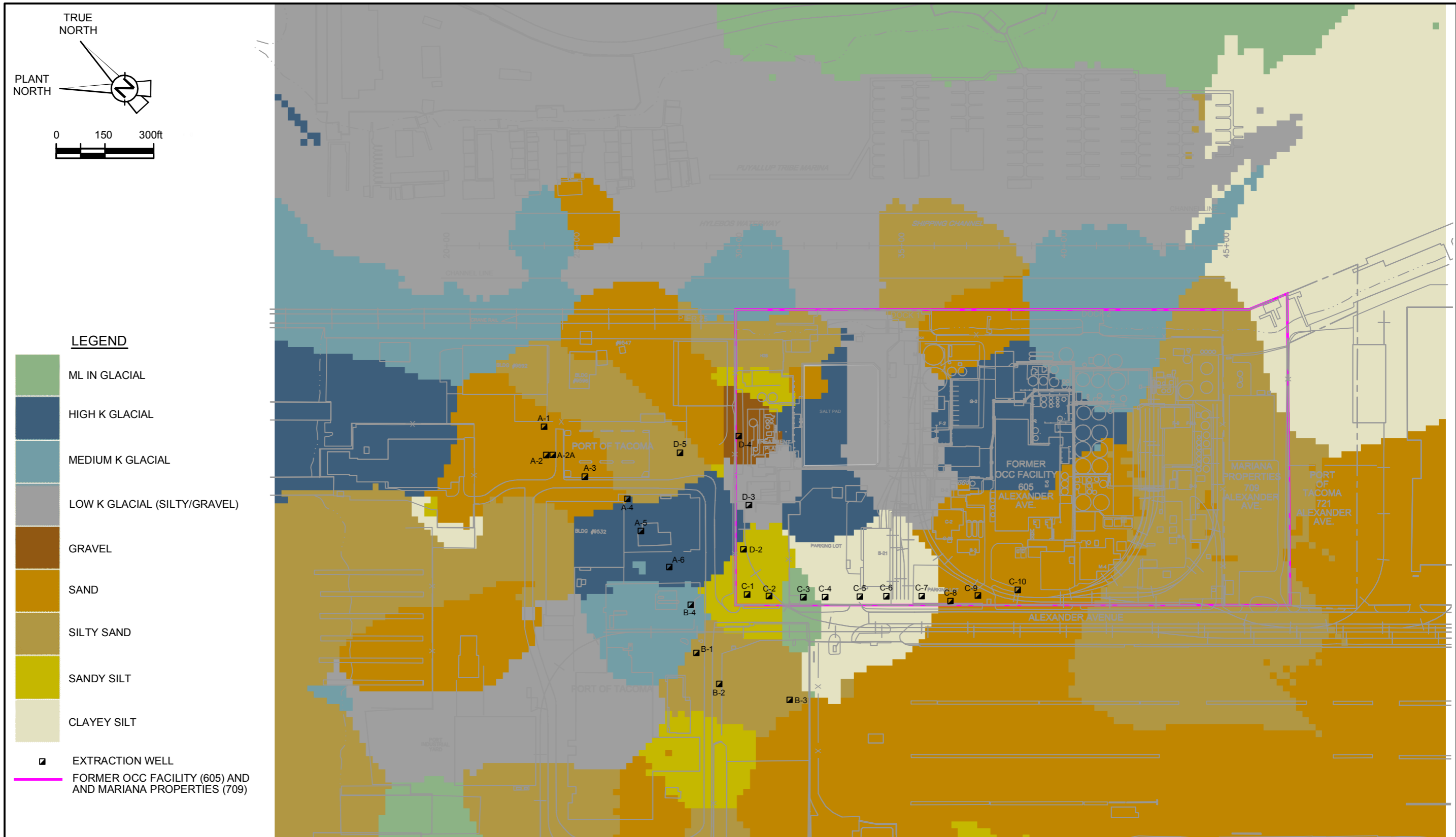
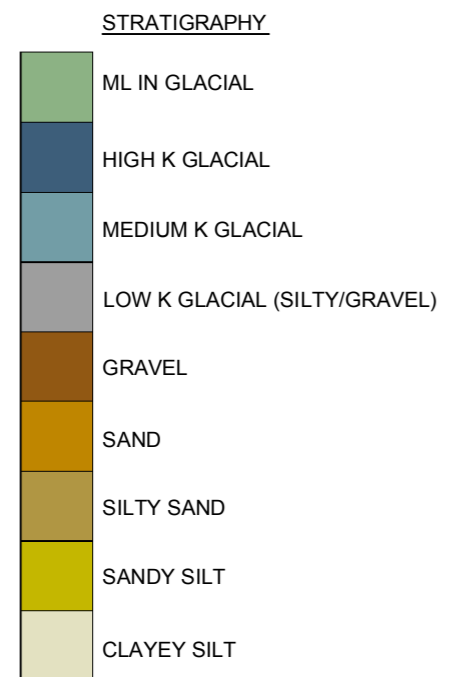
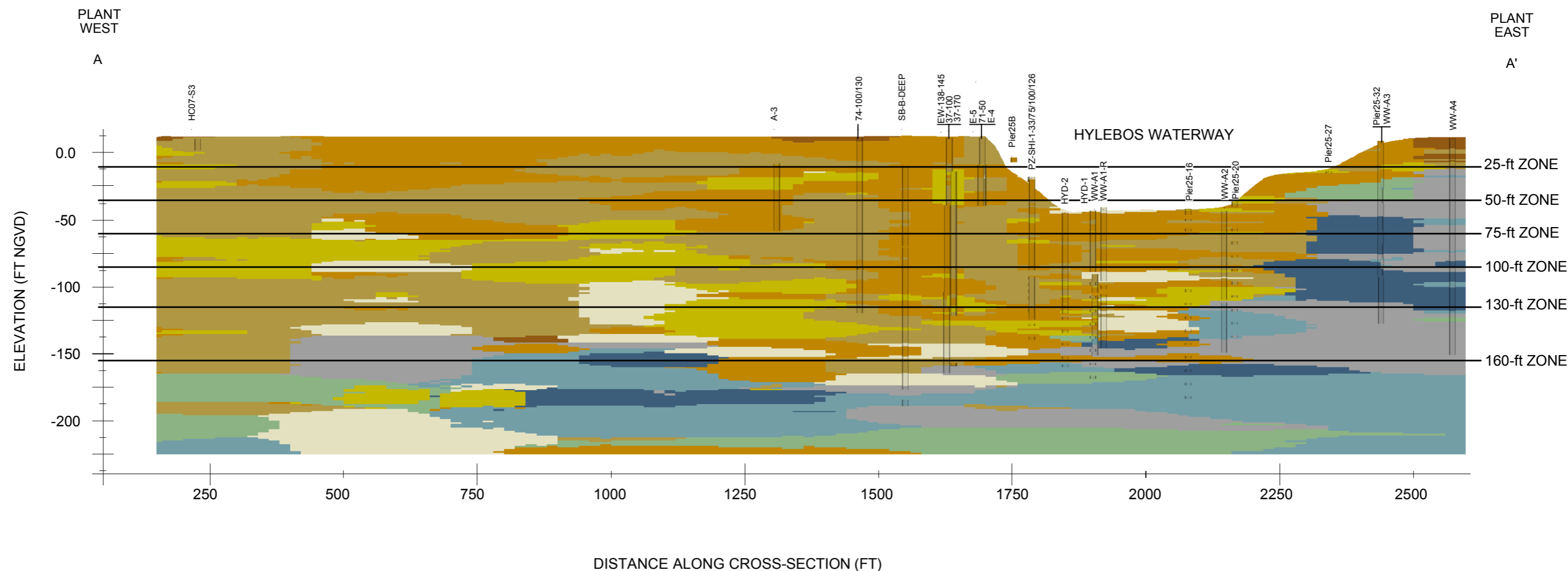


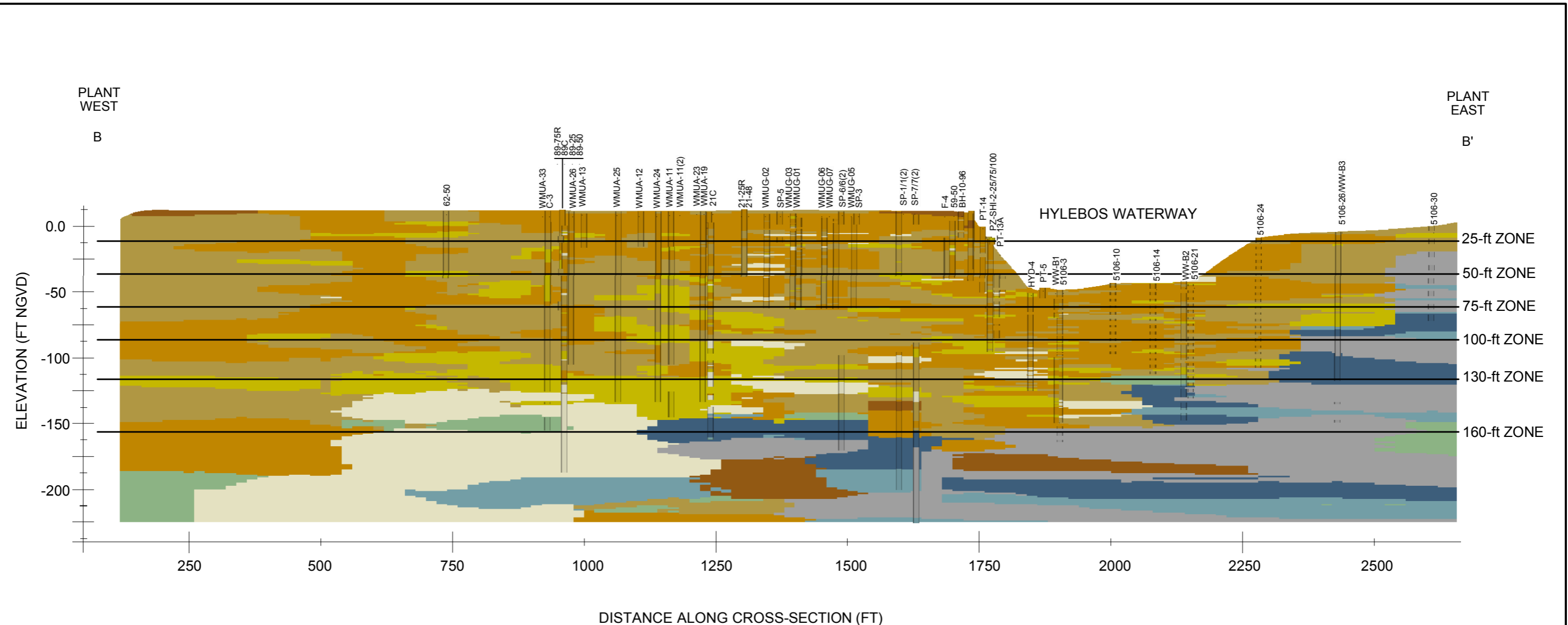
figure 3.35
 DETAILED STRATIGRAPHIC MODEL - 160-FT ZONE (ELEV = -155 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington





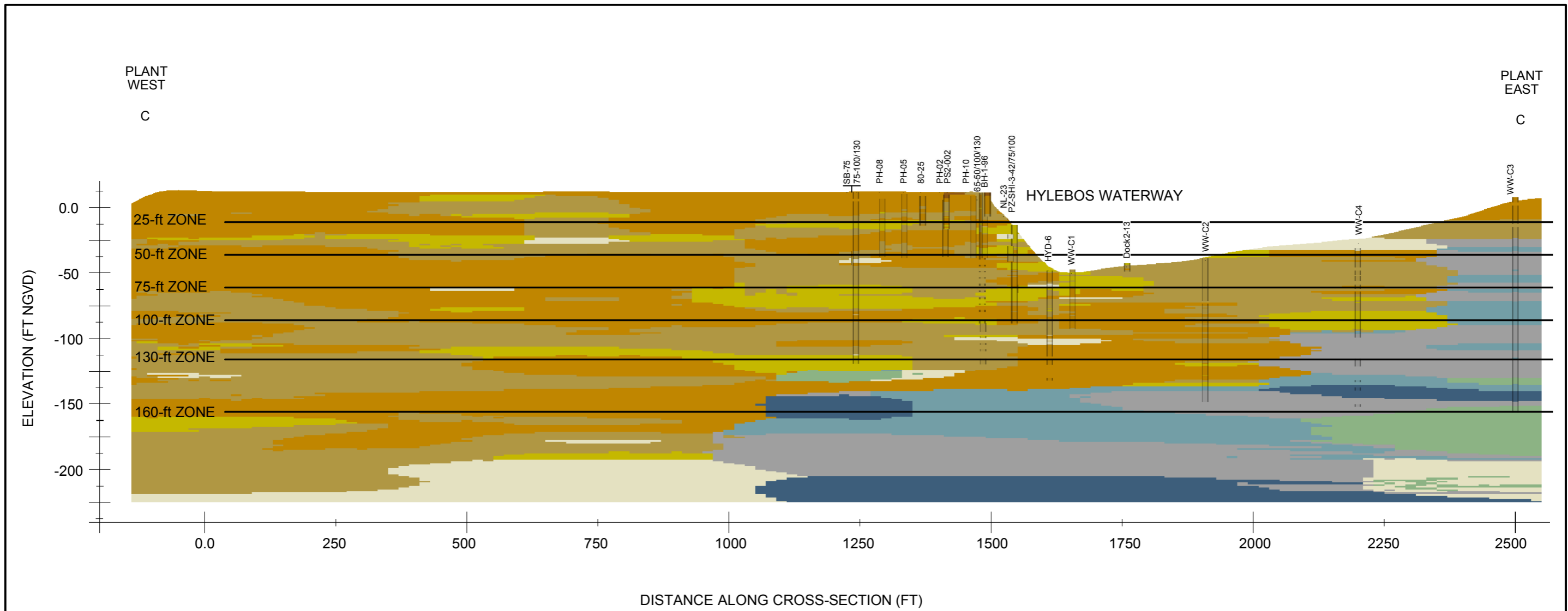
SCALE: 2.5X VERTICAL EXAGGERATION

figure 3.36
 DETAILED STRATIGRAPHIC MODEL CROSS-SECTION A-A'
Occidental Chemical Corporation, Tacoma, Washington



SCALE: 2.5X VERTICAL EXAGGERATION

figure 3.37
 DETAILED STRATIGRAPHIC MODEL CROSS-SECTION B-B'
Occidental Chemical Corporation, Tacoma, Washington



SCALE: 2.5X VERTICAL EXAGGERATION

figure 3.38
 DETAILED STRATIGRAPHIC MODEL CROSS-SECTION C-C'
Occidental Chemical Corporation, Tacoma, Washington



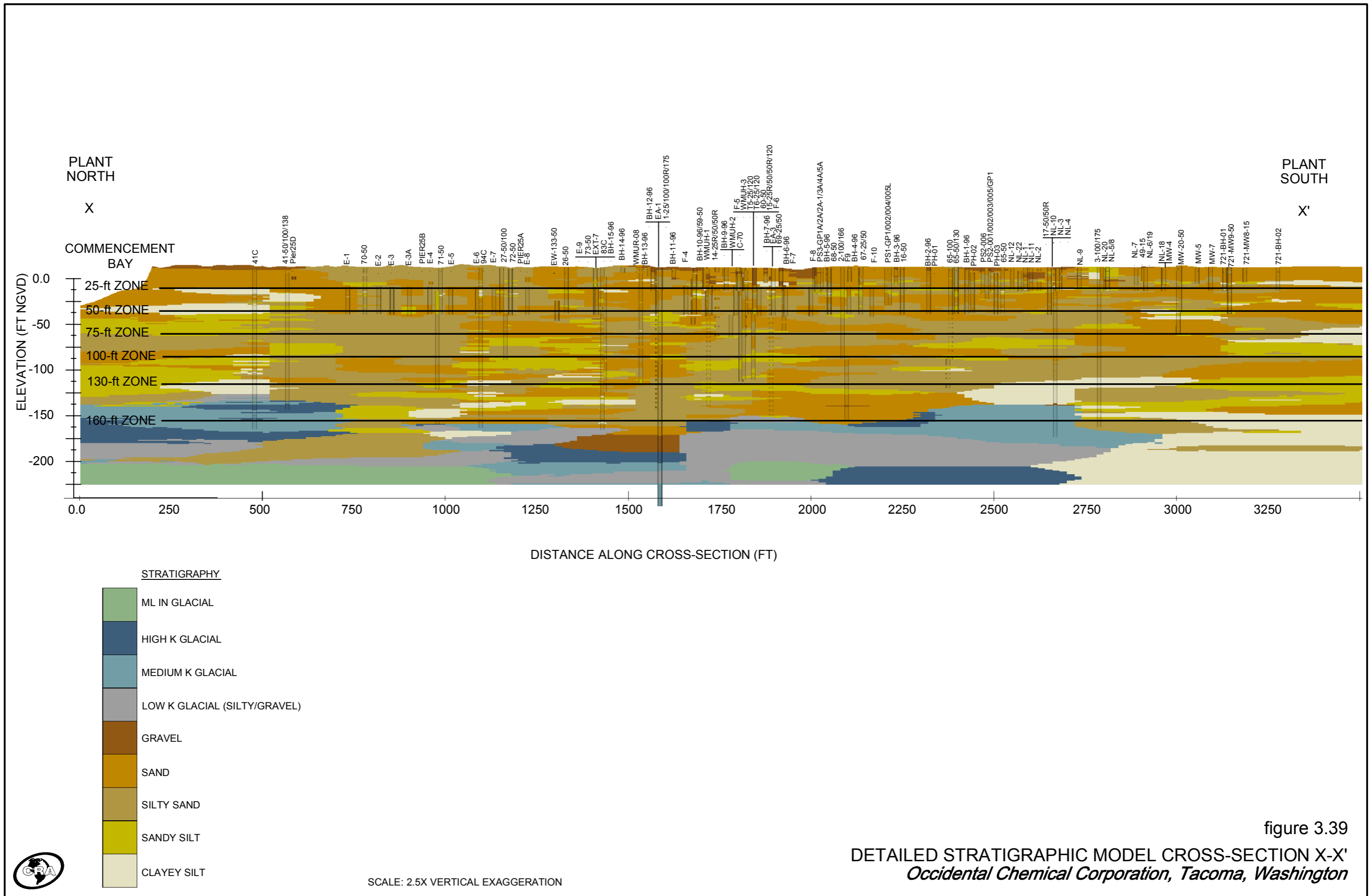
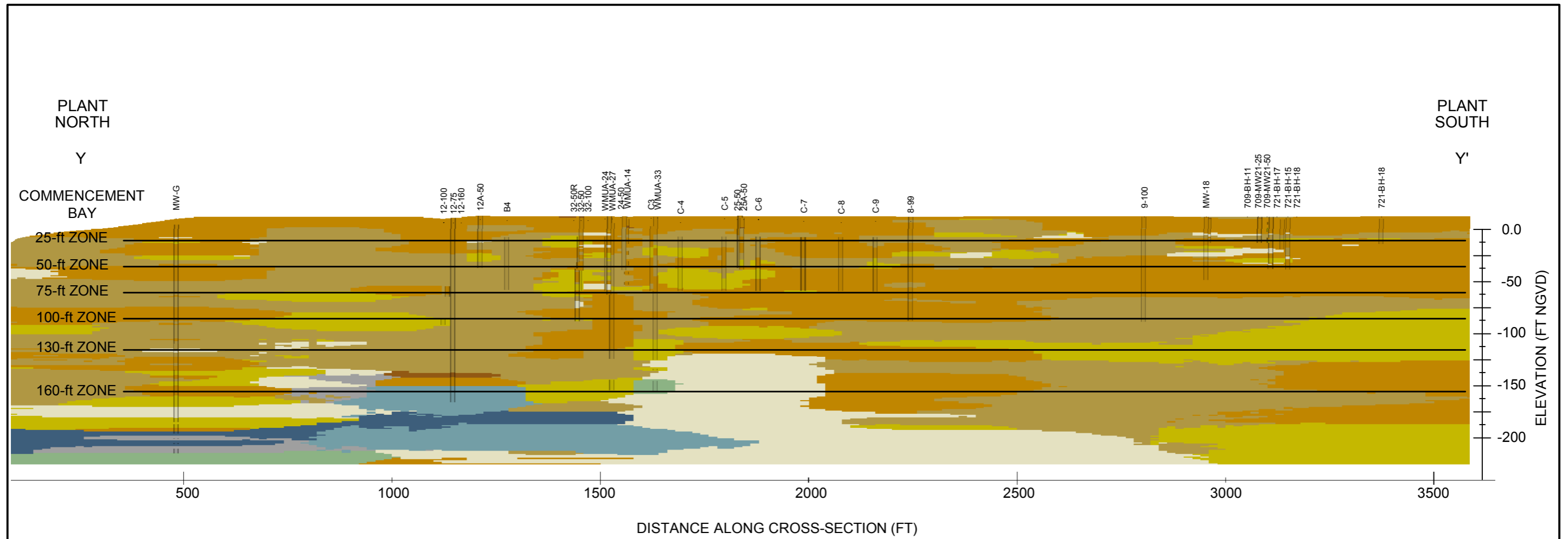


figure 3.39
 DETAILED STRATIGRAPHIC MODEL CROSS-SECTION X-X'
Occidental Chemical Corporation, Tacoma, Washington



STRATIGRAPHY

- ML IN GLACIAL
- HIGH K GLACIAL
- MEDIUM K GLACIAL
- LOW K GLACIAL (SILTY/GRAVEL)
- GRAVEL
- SAND
- SILTY SAND
- SANDY SILT
- CLAYEY SILT

SCALE: 2.5X VERTICAL EXAGGERATION

figure 3.40
 DETAILED STRATIGRAPHIC MODEL CROSS-SECTION Y-Y'
Occidental Chemical Corporation, Tacoma, Washington

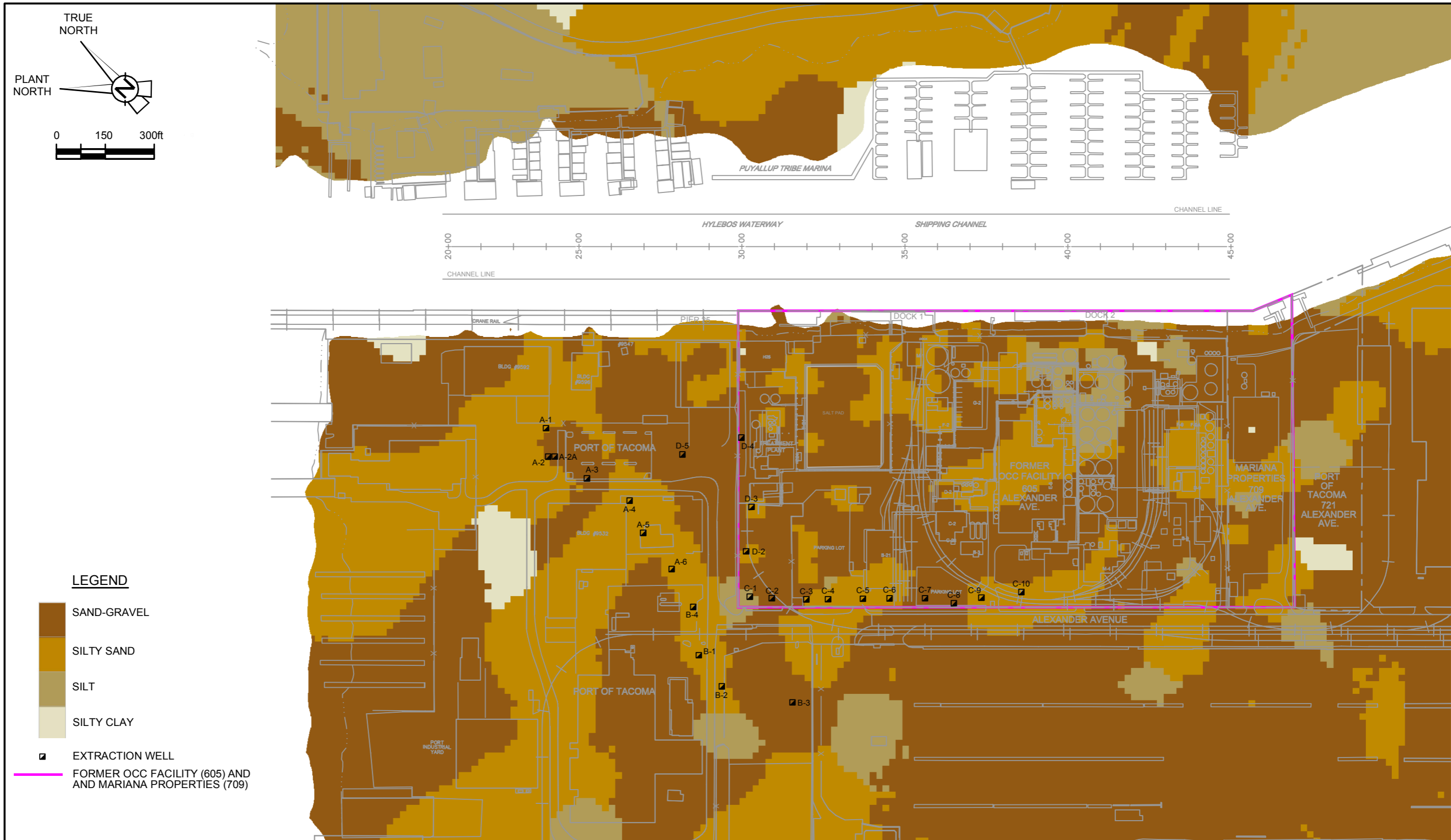


figure 3.41
SIMPLIFIED STRATIGRAPHIC MODEL - 25-FT ZONE (ELEV = -10 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington



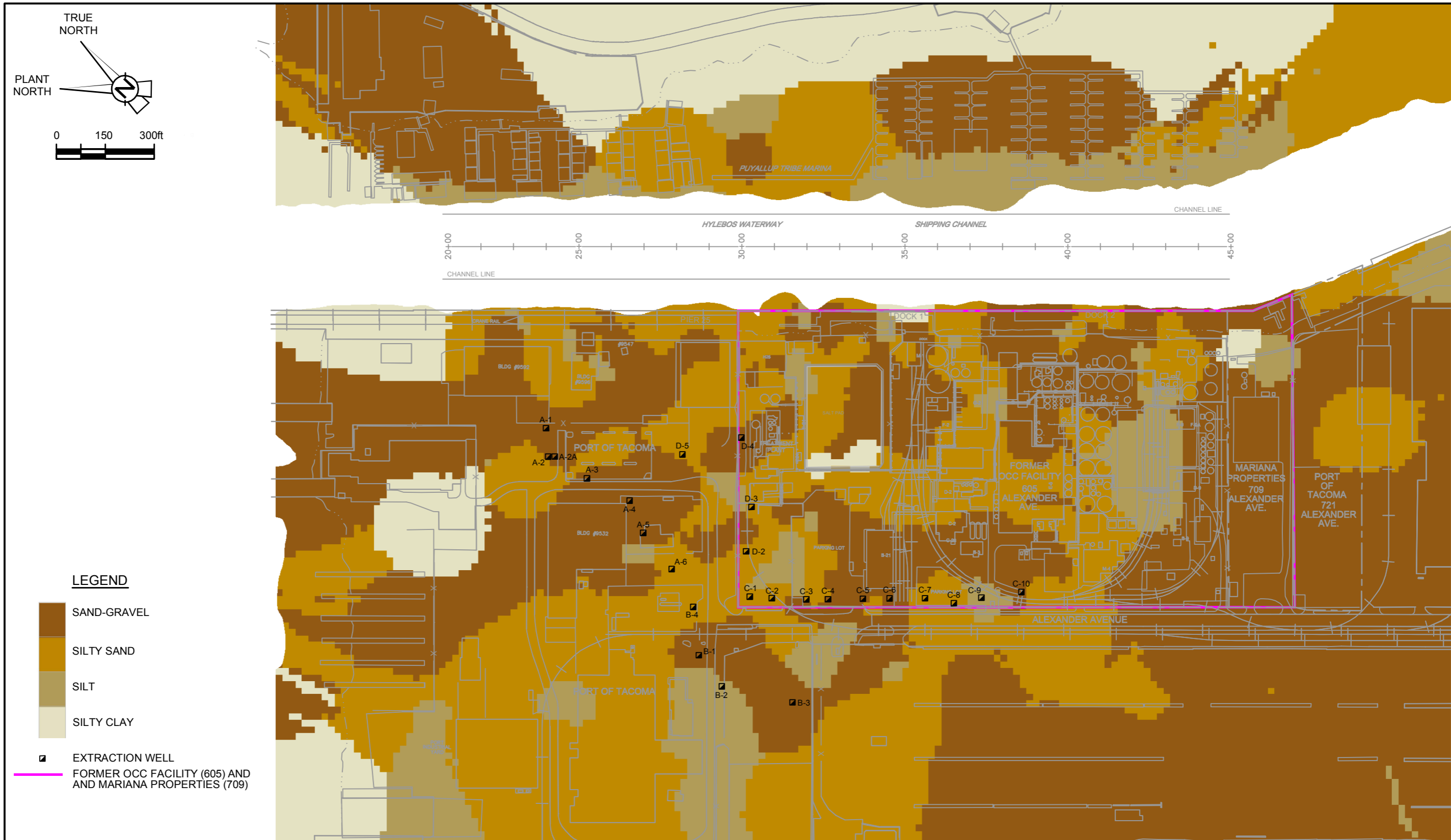


figure 3.42

SIMPLIFIED STRATIGRAPHIC MODEL - 50-FT ZONE (ELEV = -35 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington



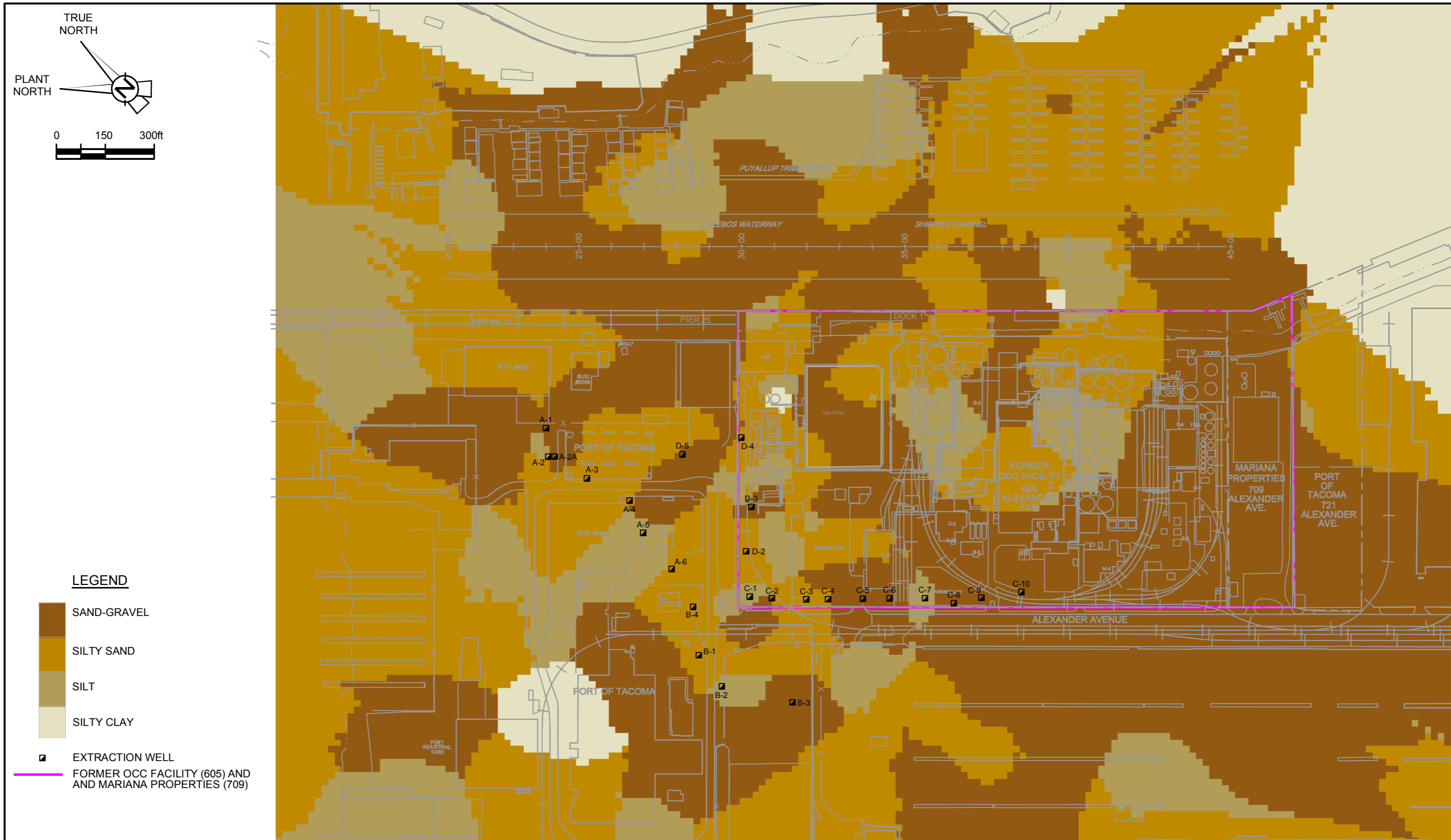


figure 3.43
SIMPLIFIED STRATIGRAPHIC MODEL - 75-FT ZONE (ELEV = -60 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington



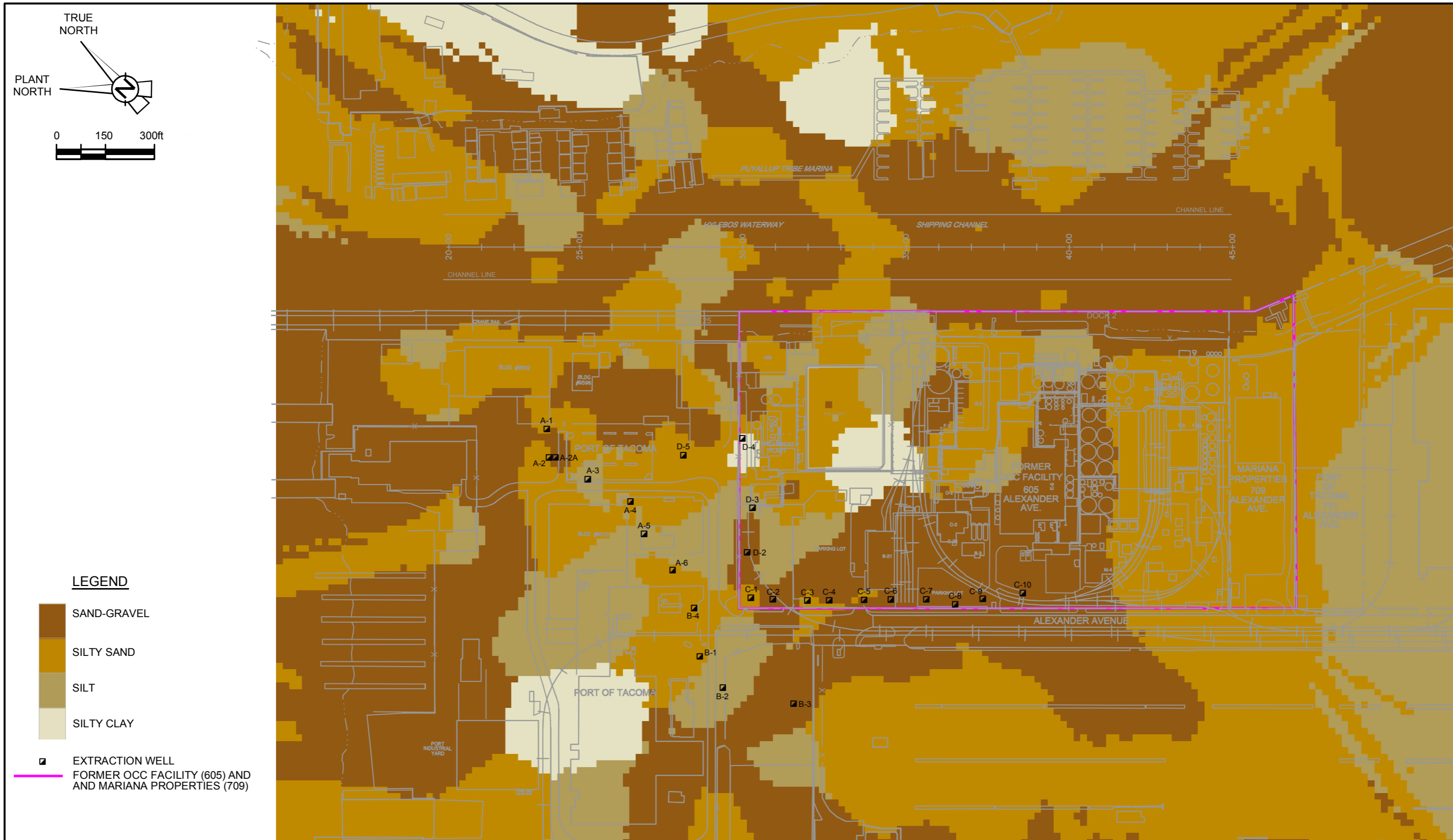


figure 3.44
SIMPLIFIED STRATIGRAPHIC MODEL - 100-FT ZONE (ELEV = -85 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington



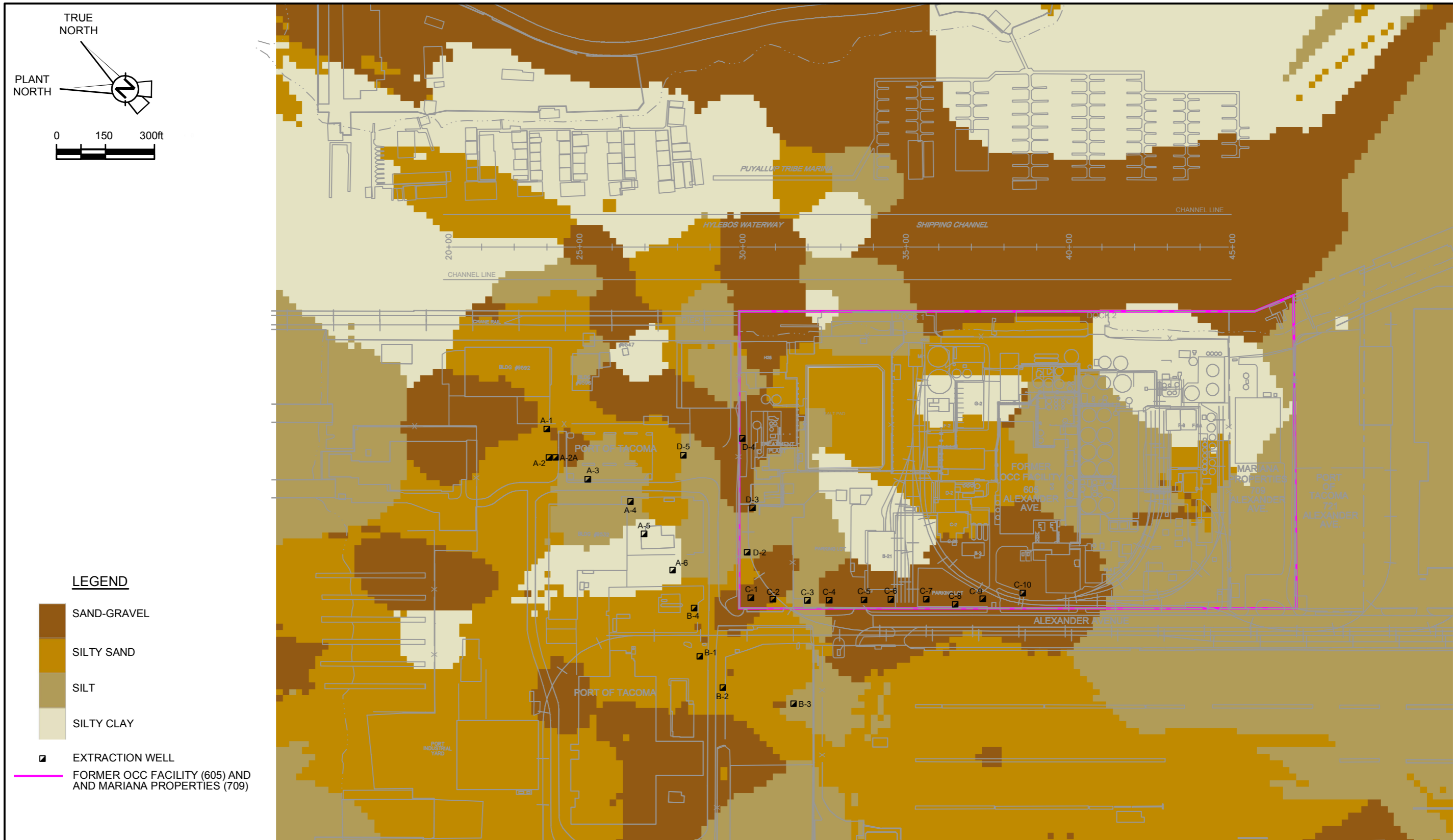


figure 3.45
 SIMPLIFIED STRATIGRAPHIC MODEL - 130-FT ZONE (ELEV = -115 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington



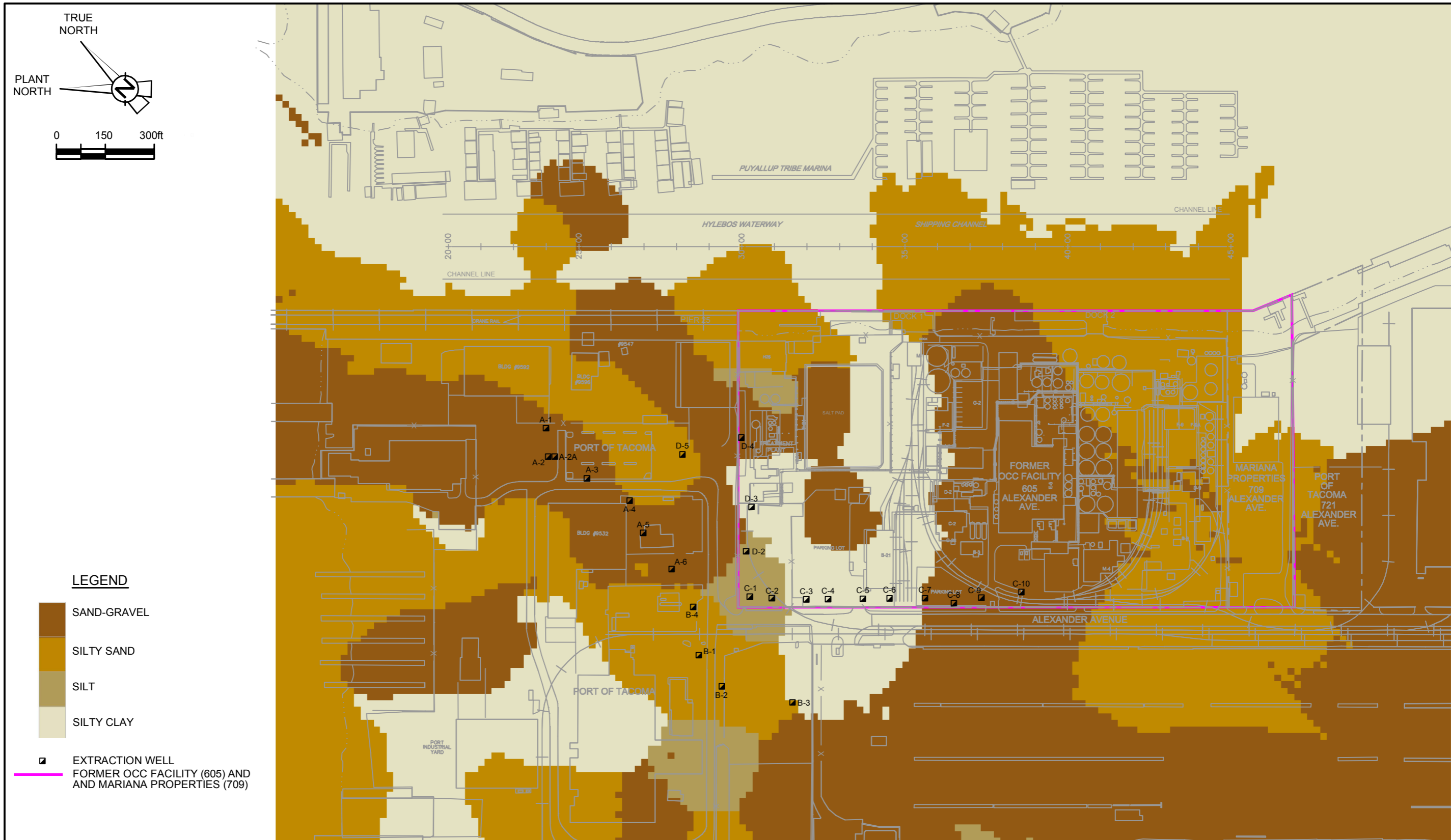


figure 3.46
SIMPLIFIED STRATIGRAPHIC MODEL - 160-FT ZONE (ELEV = -155 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington



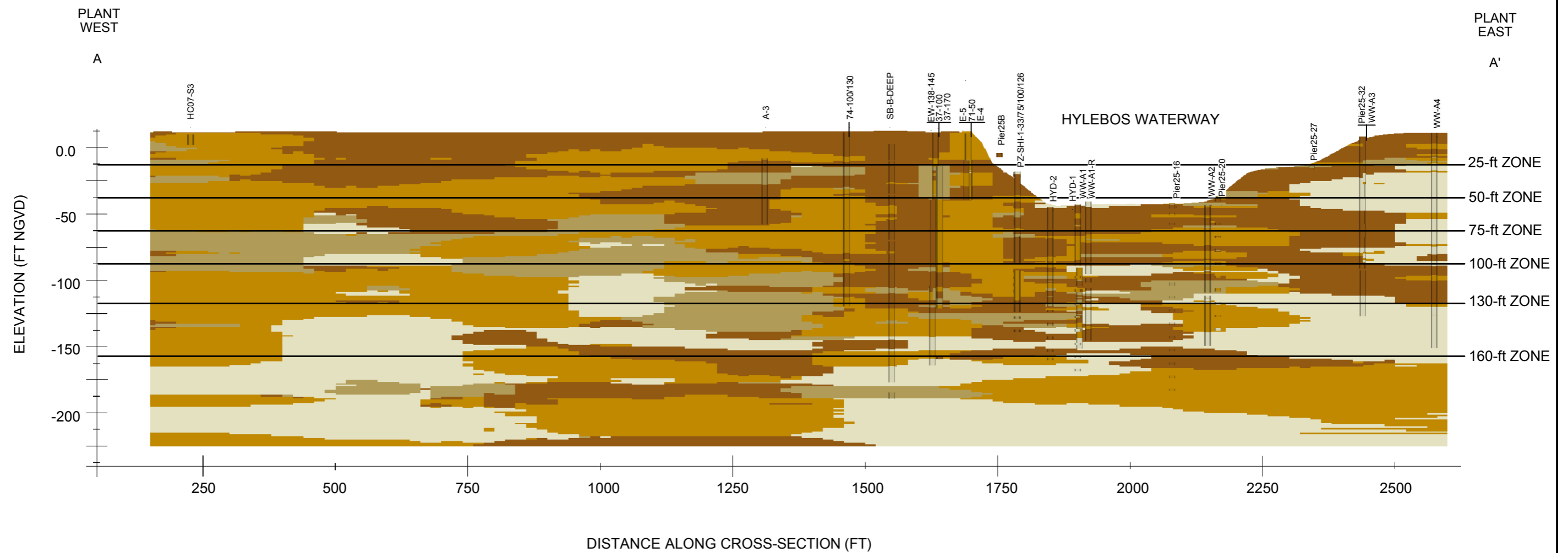


figure 3.47
 SIMPLIFIED STRATIGRAPHIC MODEL CROSS-SECTION A-A'
Occidental Chemical Corporation, Tacoma, Washington

SCALE: 2.5X VERTICAL EXAGGERATION



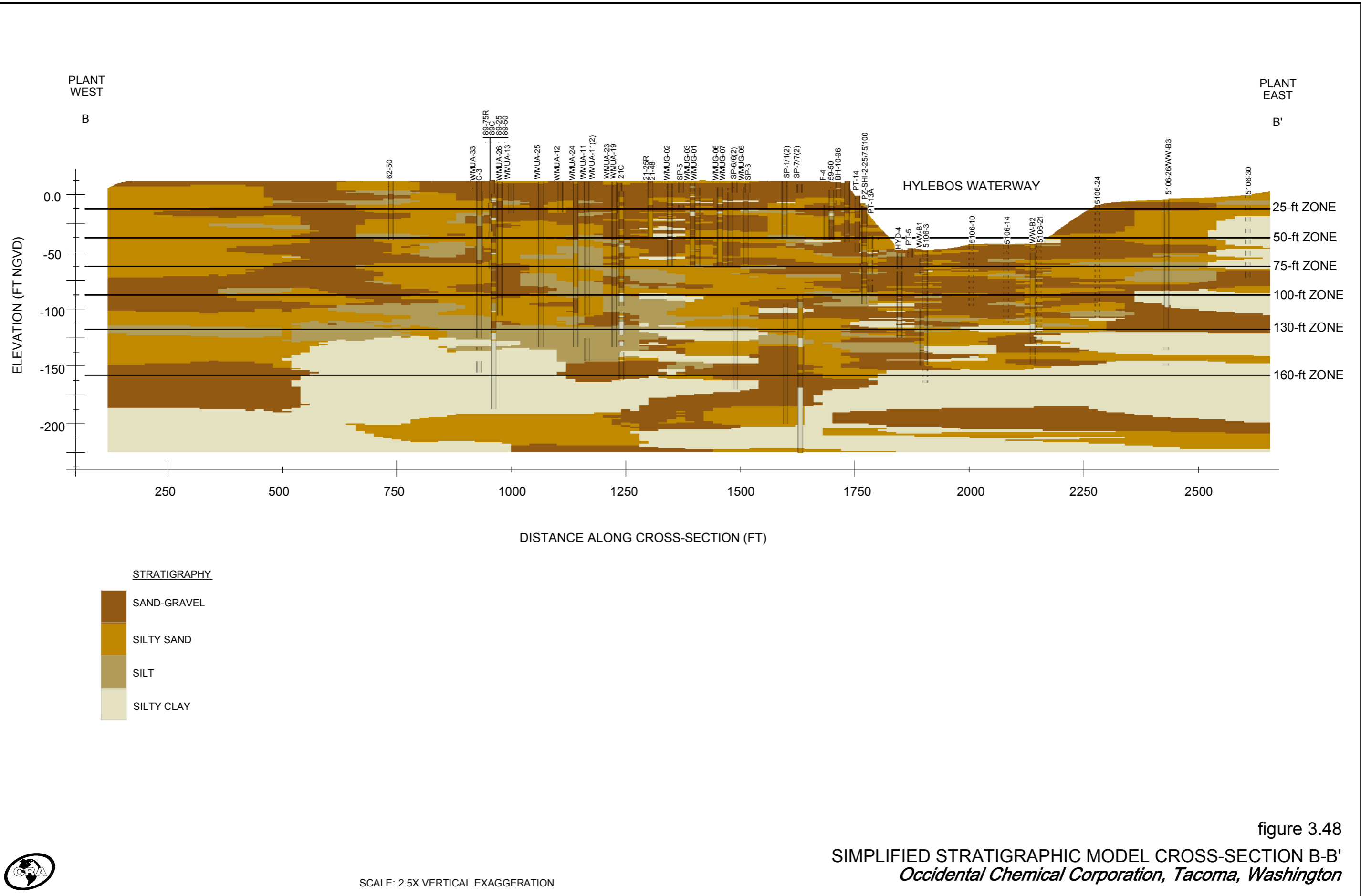


figure 3.48

SIMPLIFIED STRATIGRAPHIC MODEL CROSS-SECTION B-B'
Occidental Chemical Corporation, Tacoma, Washington

SCALE: 2.5X VERTICAL EXAGGERATION



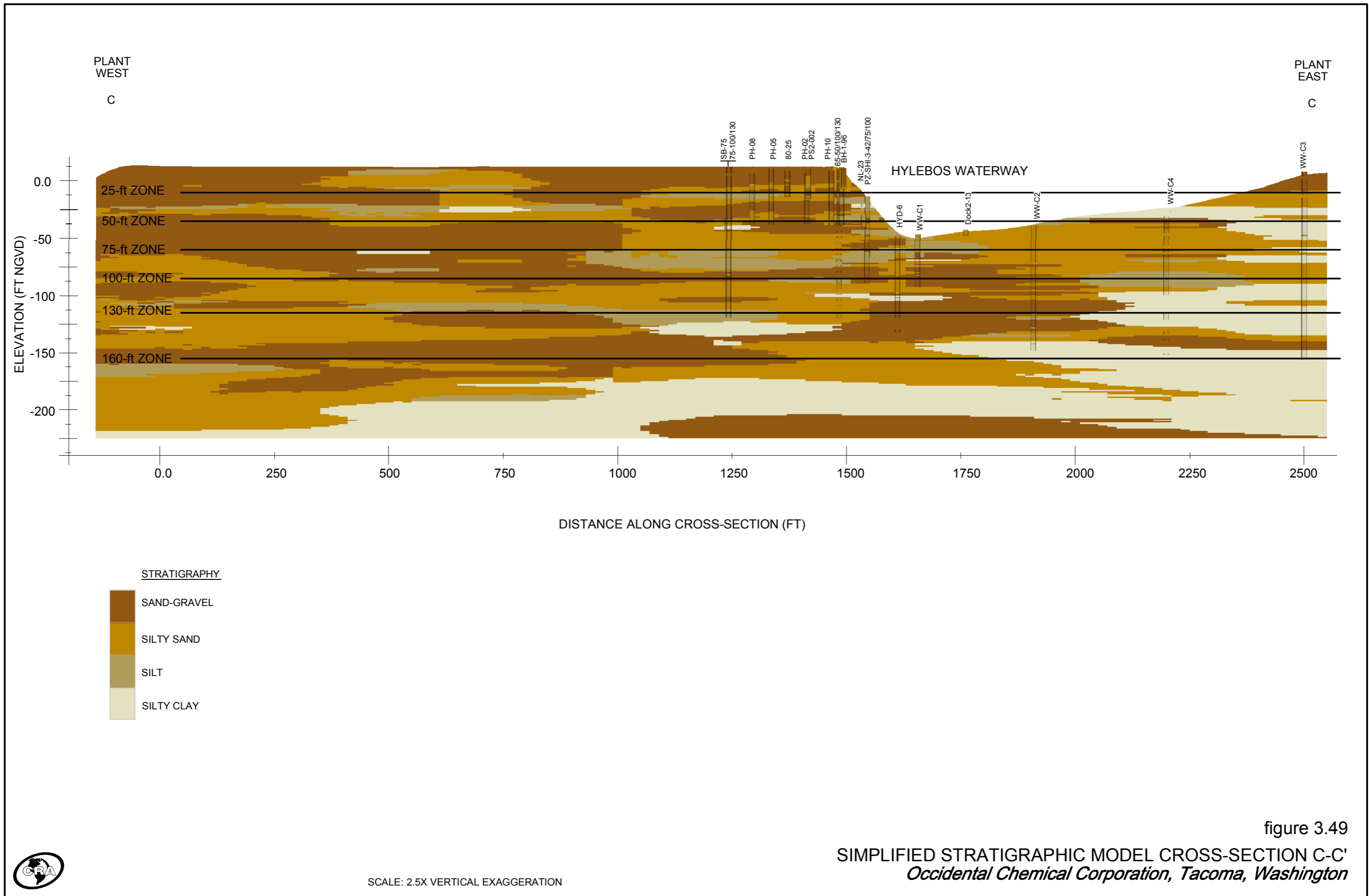


figure 3.49

SIMPLIFIED STRATIGRAPHIC MODEL CROSS-SECTION C-C'
Occidental Chemical Corporation, Tacoma, Washington

SCALE: 2.5X VERTICAL EXAGGERATION



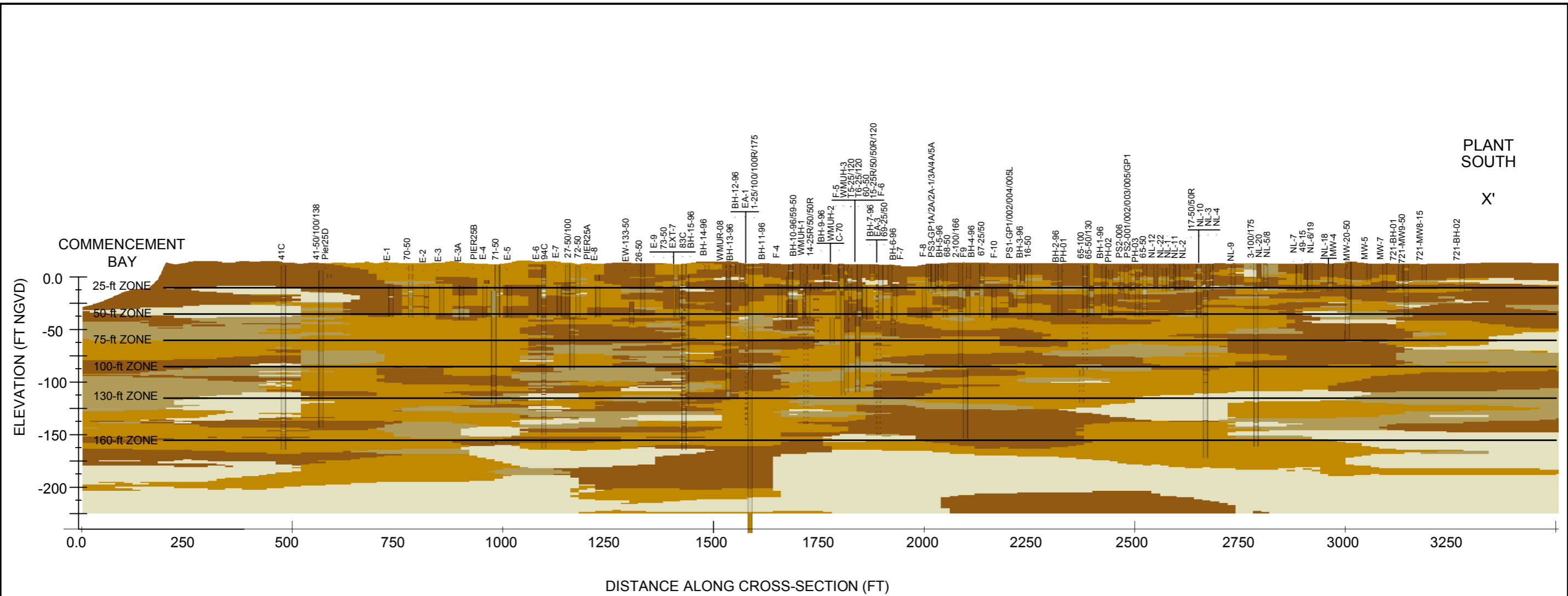


figure 3.50
SIMPLIFIED STRATIGRAPHIC MODEL CROSS-SECTION X-X'
Occidental Chemical Corporation, Tacoma, Washington

SCALE: 2.5X VERTICAL EXAGGERATION



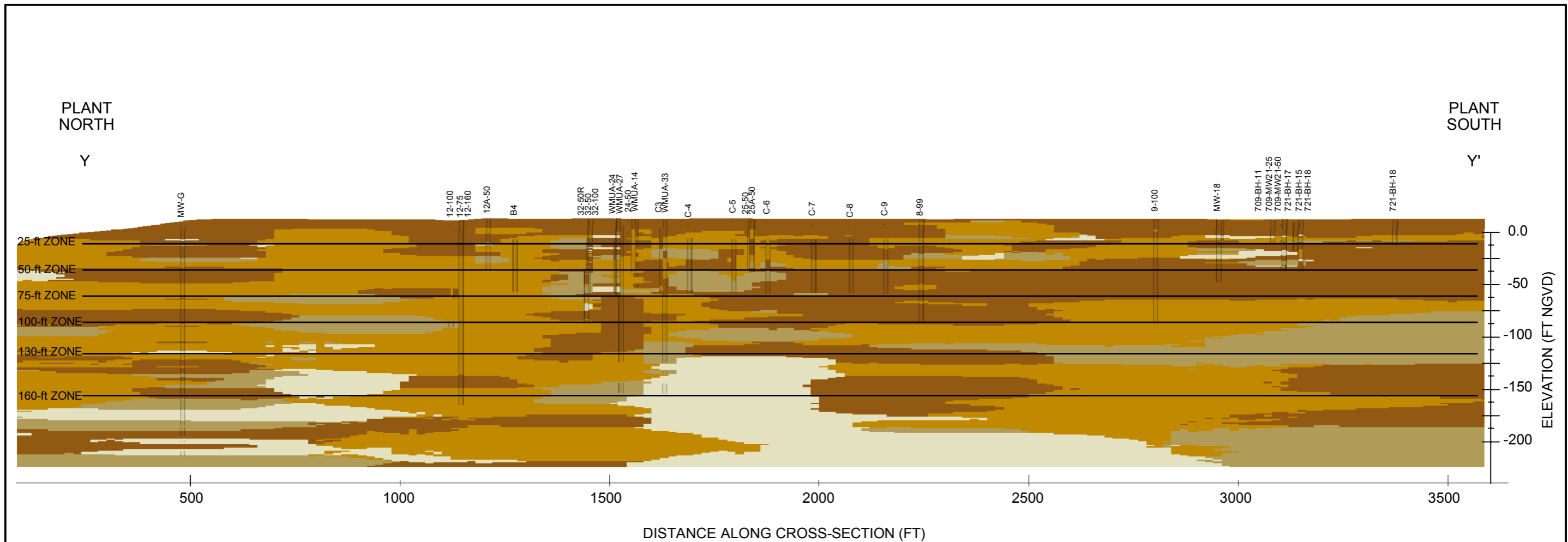


figure 3.51

SIMPLIFIED STRATIGRAPHIC MODEL CROSS-SECTION Y-Y'
Occidental Chemical Corporation, Tacoma, Washington

SCALE: 2.5X VERTICAL EXAGGERATION



LEGEND

- 78C
-140.8 OBSERVED TOP SURFACE OF GLACIAL DEPOSITS (FT NGVD)
- -125 TOP SURFACE OF GLACIAL DEPOSITS CONTOUR (FT NGVD)
- (1) NOT USED TO GENERATE CONTOURS
- (2) REVISED TOP OF GLACIAL CONTACT ELEVATIONS PROVIDED BY AGENCIES JANUARY 24, 2013
- FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)

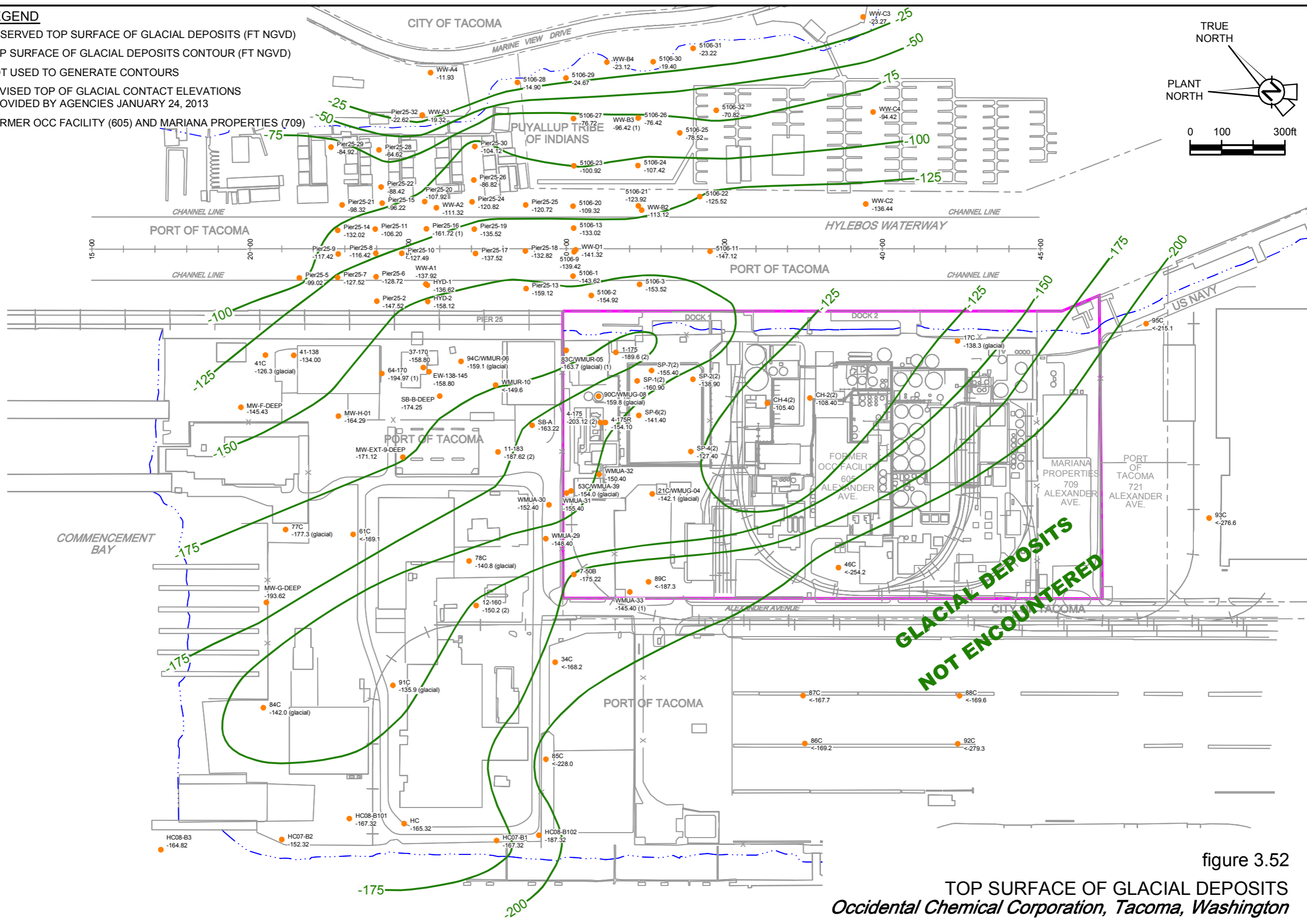
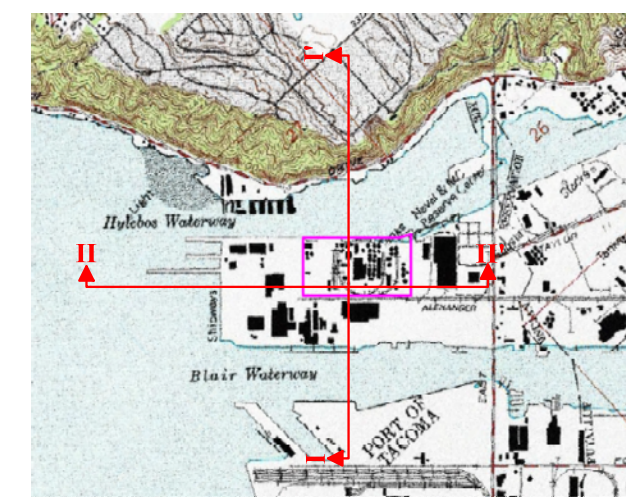
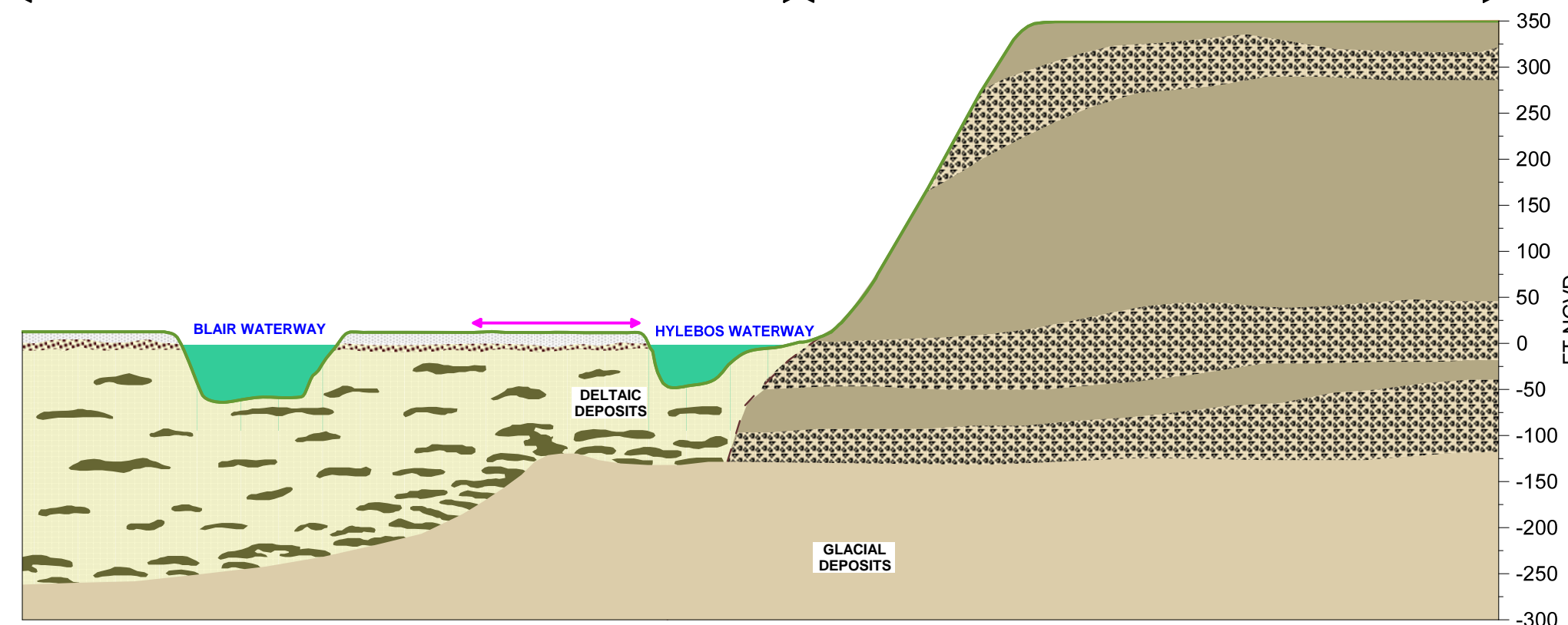


figure 3.52
TOP SURFACE OF GLACIAL DEPOSITS
Occidental Chemical Corporation, Tacoma, Washington

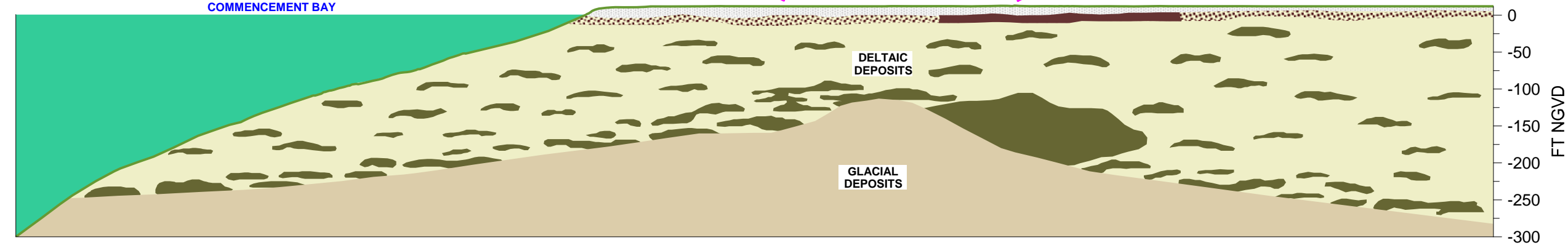


PLANT WEST I ← PUYALLUP RIVER VALLEY BLUFFS → I' PLANT EAST



- LEGEND**
- FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)
 - SEA WATER
 - PUYALLUP RIVER VALLEY**
 - FILL
 - MUD FLATS⁽¹⁾
 - DELTAIC DEPOSITS
 - GLACIAL DEPOSITS
 - LOWER PERMEABILITY LENSES
 - BLUFFS**
 - BURIED VALLEY WALL
 - SAND AND GRAVEL
 - SILT AND CLAY

PLANT NORTH II ← PUYALLUP RIVER VALLEY → II' PLANT SOUTH



NOTES:
 (1) DARK BROWN INDICATES WHERE MUD FLATS ARE OBSERVED TO PROVIDE HYDRAULIC SEPARATION BETWEEN THE FILL AND DELTAIC DEPOSITS; LIGHT BROWN INDICATES WHERE HYDRAULIC SEPARATION BY THE MUD FLATS IS NOT CONFIRMED

figure 3.53



CONCEPTUAL SITE GEOLOGIC CONDITIONS
Occidental Chemical Corporation, Tacoma, Washington

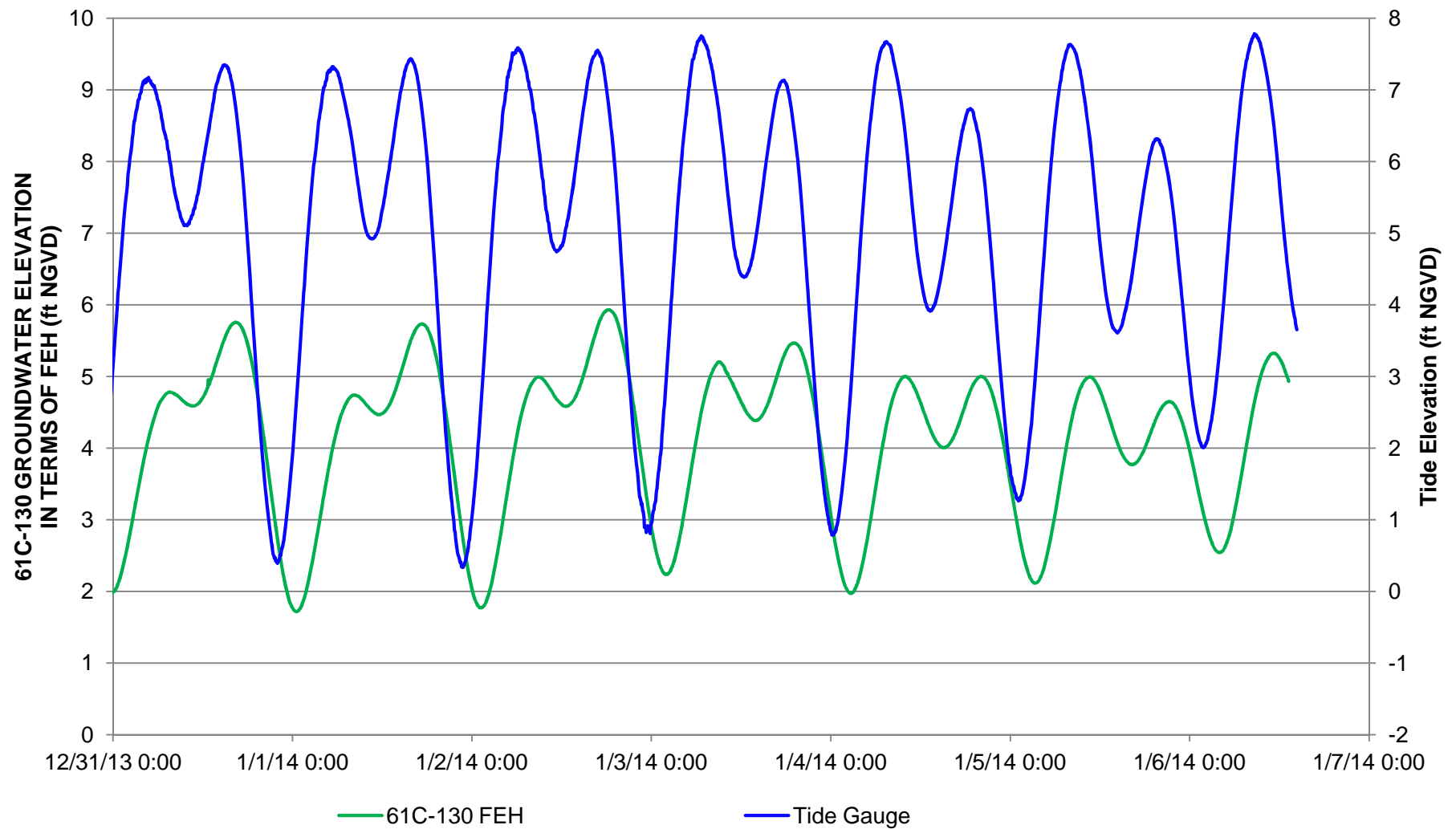
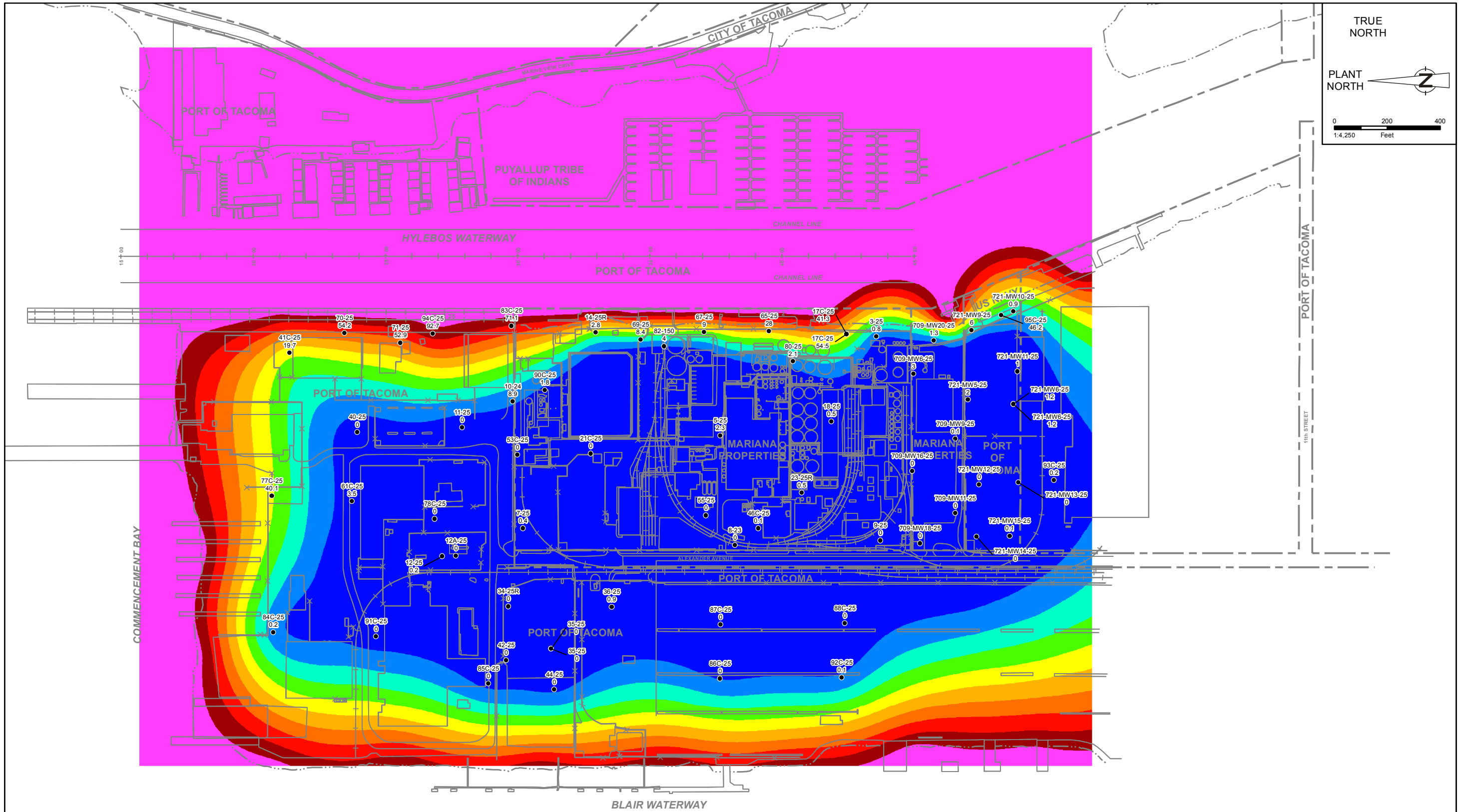


figure 3.54

EXAMPLE TIDE AND GROUNDWATER ELEVATION FLUCTUATIONS
Occidental Chemical Corporation, Tacoma, Washington





TRUE NORTH

PLANT NORTH

0 200 400
1:4,250 Feet

Coordinate System: Rotation C

LEGEND

% Salt Water

> 90	40-50
80-90	30-40
70-80	20-30
60-70	10-20
50-60	< 10

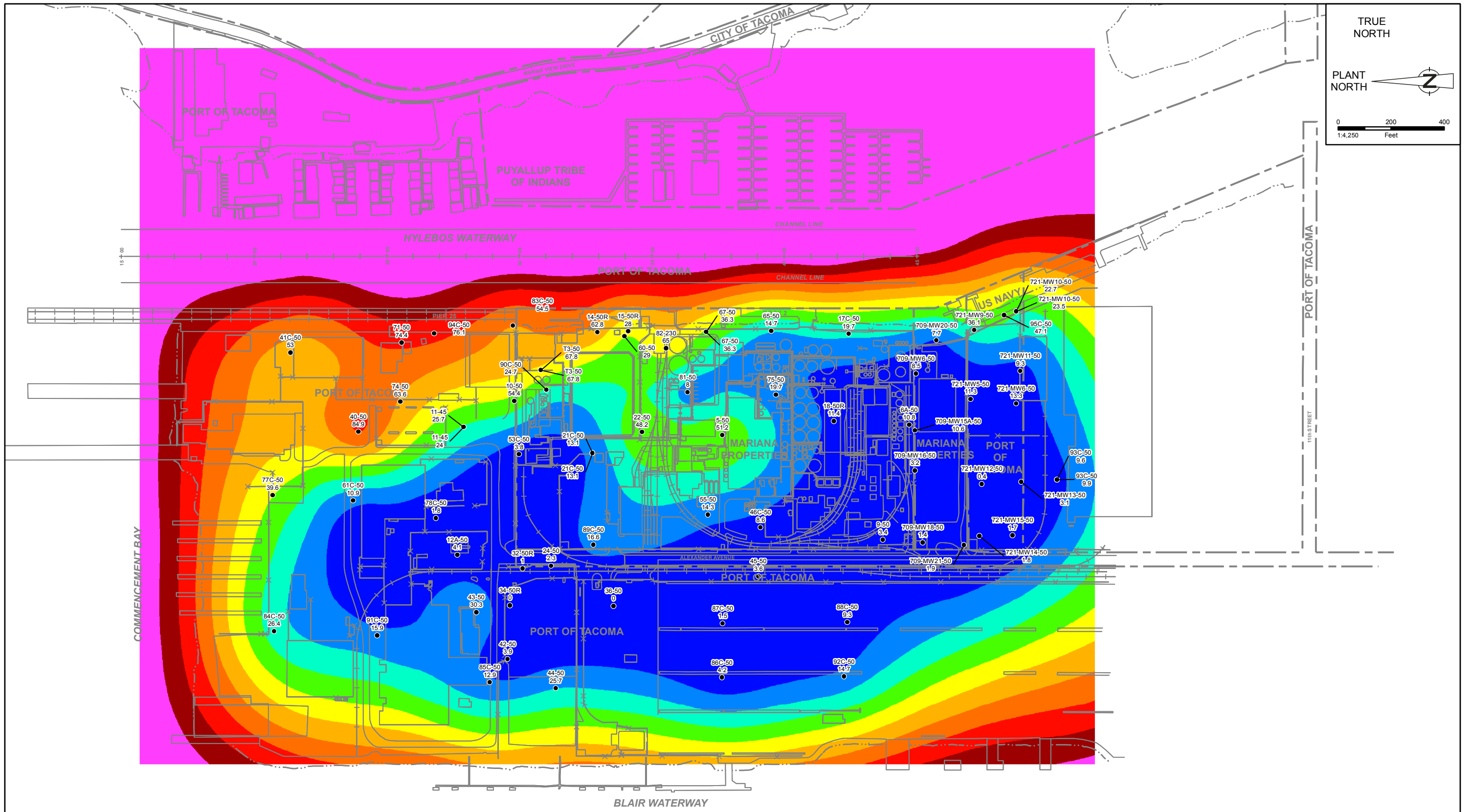
94C-25 ← Location ID
63.5 ← Result (% Salt Water)
● SAMPLE LOCATIONS

NOTES:
1. THE DATA POINTS POSTED LIE BETWEEN -5 FT NGVD AND -15 NGVD (FROM 5 FT ABOVE TO 5 FT BELOW THE 25-FT ZONE GROUPING PLANE ELEVATION AT -10 FT NGVD) AND THE POSTED VALUES MAY NOT EXACTLY CORRESPOND TO % SALT WATER SHOWN ON THE ZONE GROUPING PLANE. SEE THE 3D VISUALIZATION OF THE FRESH GROUNDWATER/SALT WATER DISTRIBUTION IN THE 4DIM VIEWER FORMAT INCLUDED IN APPENDIX J.

figure 3.55

FRESH GROUNDWATER/SALT WATER DISTRIBUTION
25-FT ZONE (ELEV = -10 FT NGVD)
Occidental Chemical Corporation - Tacoma, WA





TRUE NORTH

PLANT NORTH

0 200 400
1:4,250 Feet

Coordinate System: Rotation C

LEGEND

% Salt Water

	> 90
	80-90
	70-80
	60-70
	50-60
	40-50
	30-40
	20-30
	10-20
	< 10

94C-25 ← Location ID
63.5 ← Result (% Salt Water)

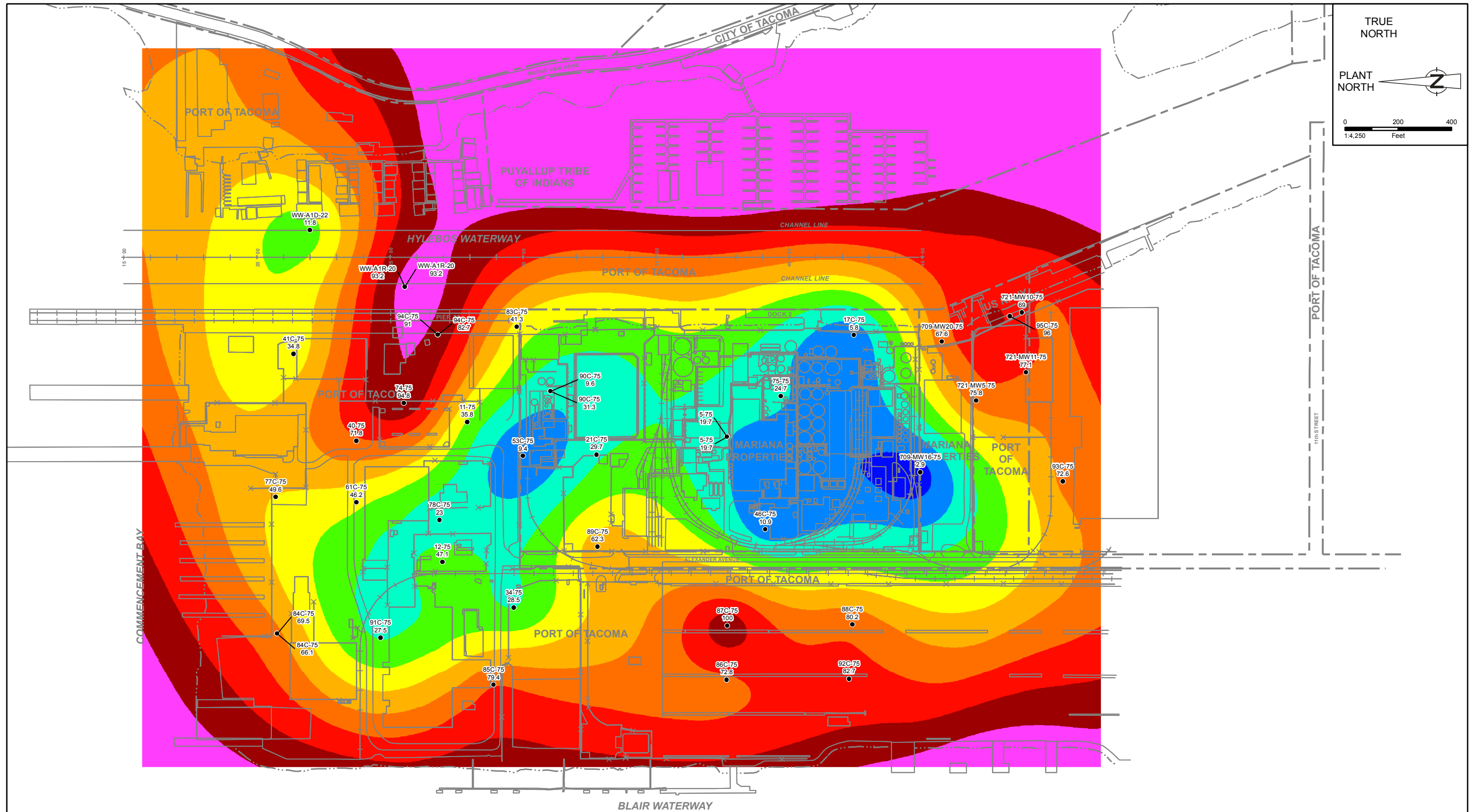
● SAMPLE LOCATIONS

NOTES:
1. THE DATA POINTS POSTED LIE BETWEEN -30 FT NGVD AND -40 NGVD (FROM 5 FT ABOVE TO 5 FT BELOW THE 50-FT ZONE GROUPING PLANE ELEVATION AT -35 FT NGVD) AND THE POSTED VALUES MAY NOT EXACTLY CORRESPOND TO % SALT WATER SHOWN ON THE ZONE GROUPING PLANE. SEE THE 3D VISUALIZATION OF THE FRESH GROUNDWATER/SALT WATER DISTRIBUTION IN THE 4DIM VIEWER FORMAT INCLUDED IN APPENDIX J.

figure 3.56

FRESH GROUNDWATER/SALT WATER DISTRIBUTION
50-FT ZONE (ELEV = -35 FT NGVD)
Occidental Chemical Corporation - Tacoma, WA





TRUE NORTH

PLANT NORTH

0 200 400
1:4,250 Feet

Coordinate System: Rotation C

LEGEND

% Salt Water

	> 90		40-50
	80-90		30-40
	70-80		20-30
	60-70		10-20
	50-60		< 10

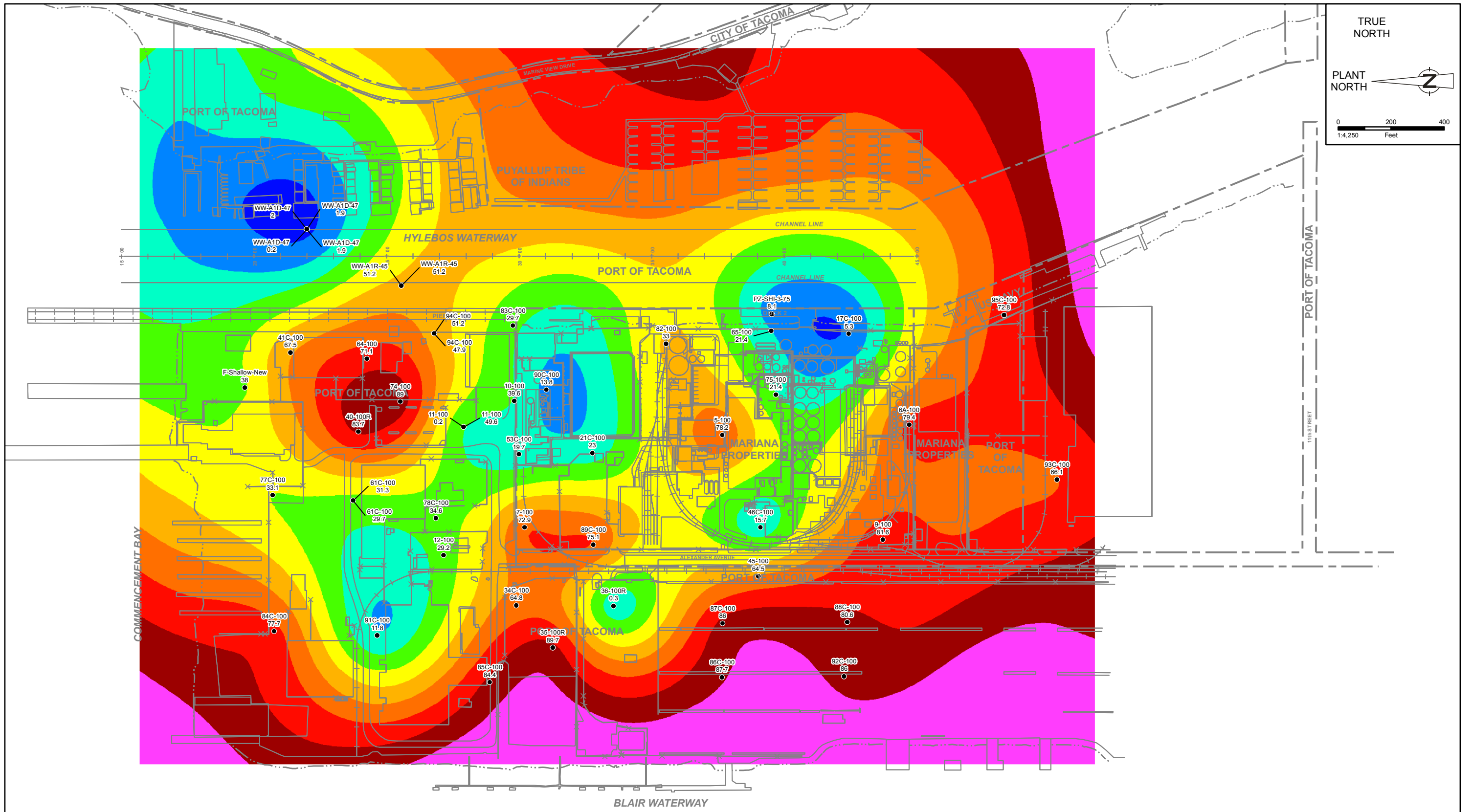
Location ID
 Result (% Salt Water)
 SAMPLE LOCATIONS

NOTES:
 1. THE DATA POINTS POSTED LIE BETWEEN -55 FT NGVD AND -65 NGVD (FROM 5 FT ABOVE TO 5 FT BELOW THE 75-FT ZONE GROUPING PLANE ELEVATION AT -60 FT NGVD) AND THE POSTED VALUES MAY NOT EXACTLY CORRESPOND TO % SALT WATER SHOWN ON THE ZONE GROUPING PLANE. SEE THE 3D VISUALIZATION OF THE FRESH GROUNDWATER/SALT WATER DISTRIBUTION IN THE 4DIM VIEWER FORMAT INCLUDED IN APPENDIX J.

figure 3.57

FRESH GROUNDWATER/SALT WATER DISTRIBUTION
 75-FT ZONE (ELEV = -60 FT NGVD)
 Occidental Chemical Corporation - Tacoma, WA

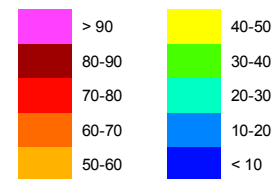




Coordinate System: Rotation C

LEGEND

% Salt Water



94C-25 ← Location ID
63.5 ← Result (% Salt Water)
● SAMPLE LOCATIONS

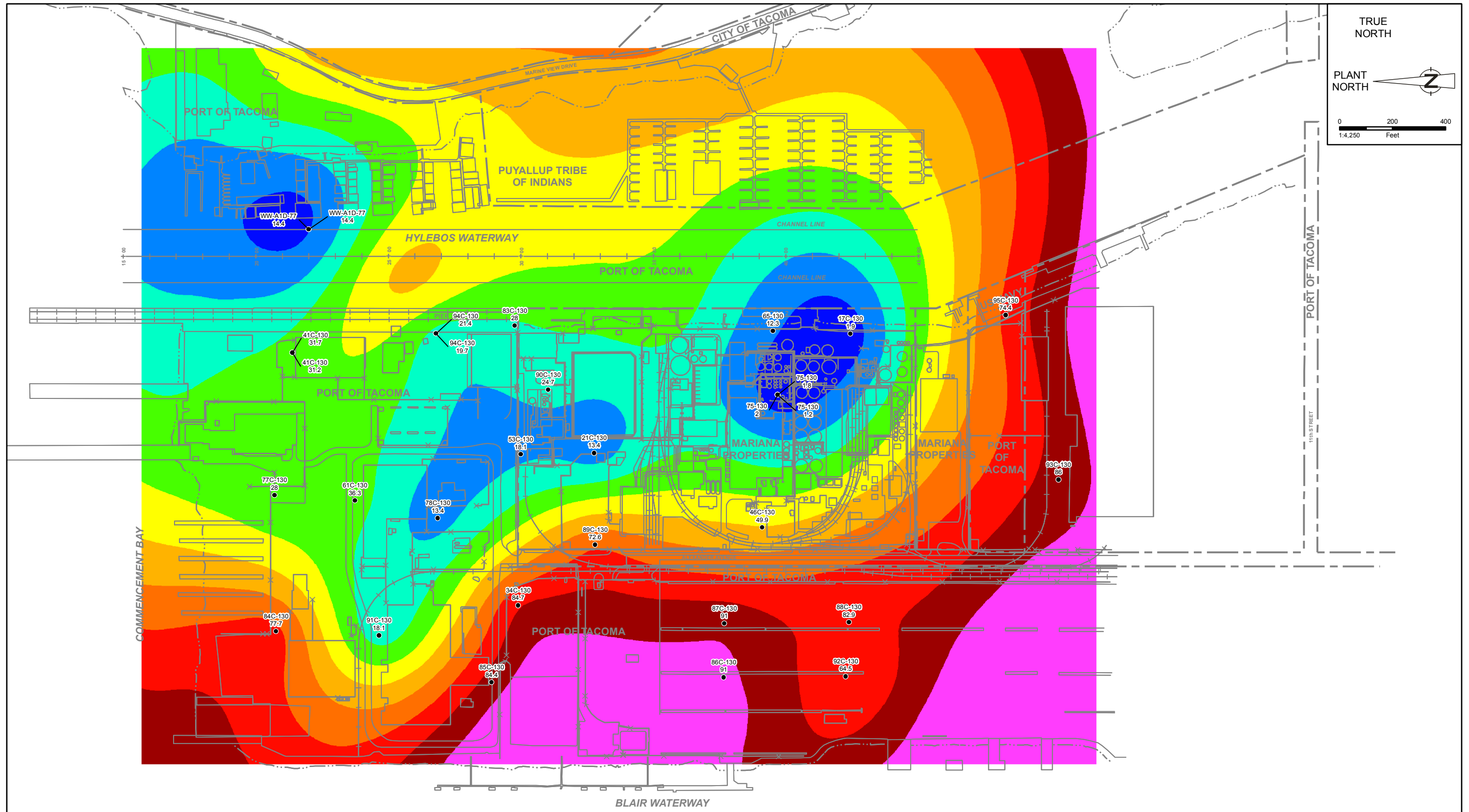
NOTES:

1. THE DATA POINTS POSTED LIE BETWEEN -80 FT NGVD AND -90 NGVD (FROM 5 FT ABOVE TO 5 FT BELOW THE 100-FT ZONE GROUPING PLANE ELEVATION AT -85 FT NGVD) AND THE POSTED VALUES MAY NOT EXACTLY CORRESPOND TO % SALT WATER SHOWN ON THE ZONE GROUPING PLANE. SEE THE 3D VISUALIZATION OF THE FRESH GROUNDWATER/SALT WATER DISTRIBUTION IN THE 4DIM VIEWER FORMAT INCLUDED IN APPENDIX J.

figure 3.58

FRESH GROUNDWATER/SALT WATER DISTRIBUTION
100-FT ZONE (ELEV = -85 FT NGVD)
Occidental Chemical Corporation - Tacoma, WA





TRUE NORTH

PLANT NORTH

0 200 400
1:4,250 Feet

Coordinate System: Rotation C

LEGEND

% Salt Water

	> 90		40-50
	80-90		30-40
	70-80		20-30
	60-70		10-20
	50-60		< 10

94C-25 ← Location ID
63.5 ← Result (% Salt Water)

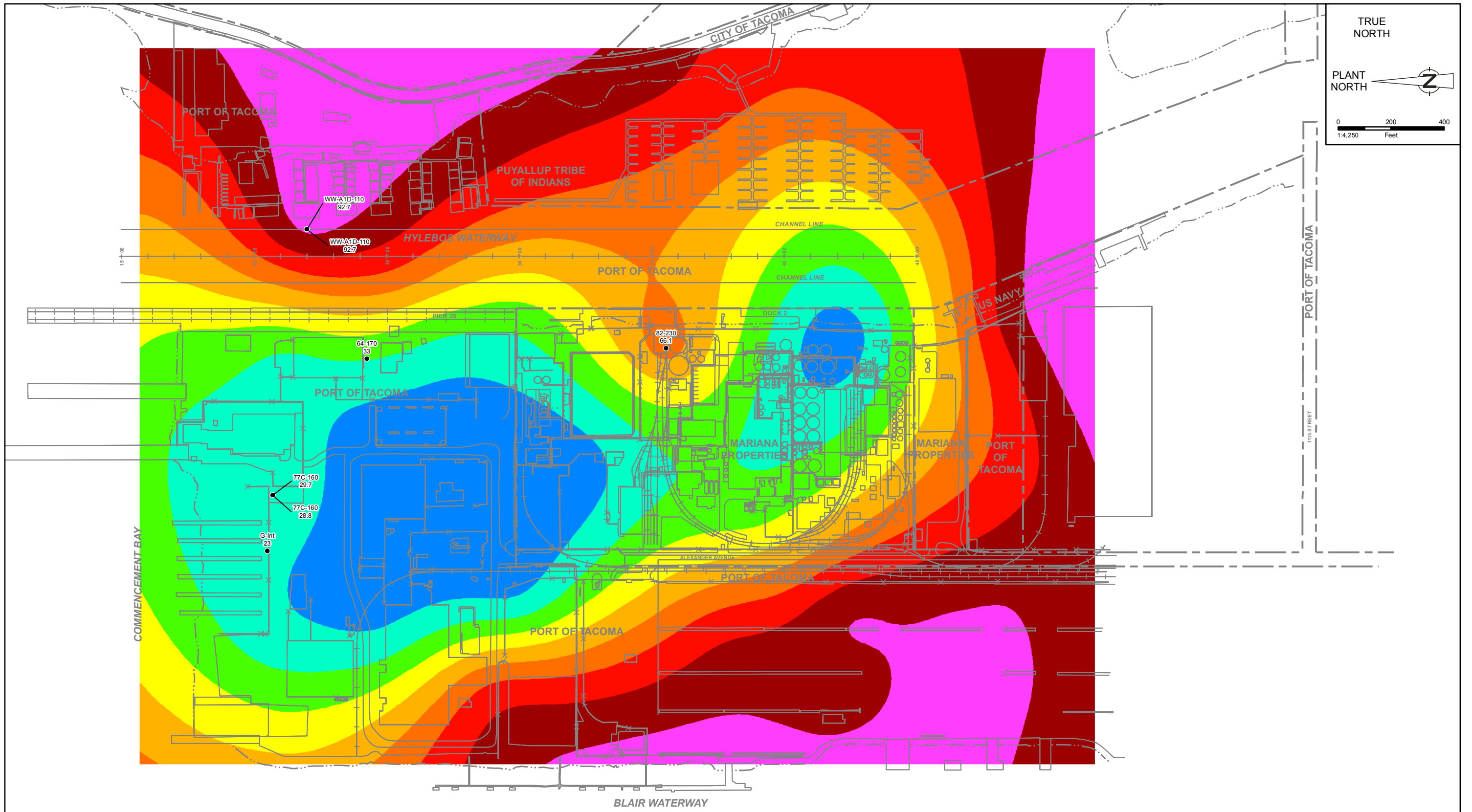
● SAMPLE LOCATIONS

NOTES:
1. THE DATA POINTS POSTED LIE BETWEEN -110 FT NGVD AND -120 NGVD (FROM 5 FT ABOVE TO 5 FT BELOW THE 130-FT ZONE GROUPING PLANE ELEVATION AT -115 FT NGVD) AND THE POSTED VALUES MAY NOT EXACTLY CORRESPOND TO % SALT WATER SHOWN ON THE ZONE GROUPING PLANE. SEE THE 3D VISUALIZATION OF THE FRESH GROUNDWATER/SALT WATER DISTRIBUTION IN THE 4DIM VIEWER FORMAT INCLUDED IN APPENDIX J.

figure 3.59

FRESH GROUNDWATER/SALT WATER DISTRIBUTION
130-FT ZONE (ELEV = -115 FT NGVD)
Occidental Chemical Corporation - Tacoma, WA





TRUE NORTH

PLANT NORTH

0 200 400
1:4,250 Feet

Coordinate System: Rotation C

LEGEND

% Salt Water

	> 90		40-50
	80-90		30-40
	70-80		20-30
	60-70		10-20
	50-60		< 10

94C-25 ← Location ID
63.5 ← Result (% Salt Water)

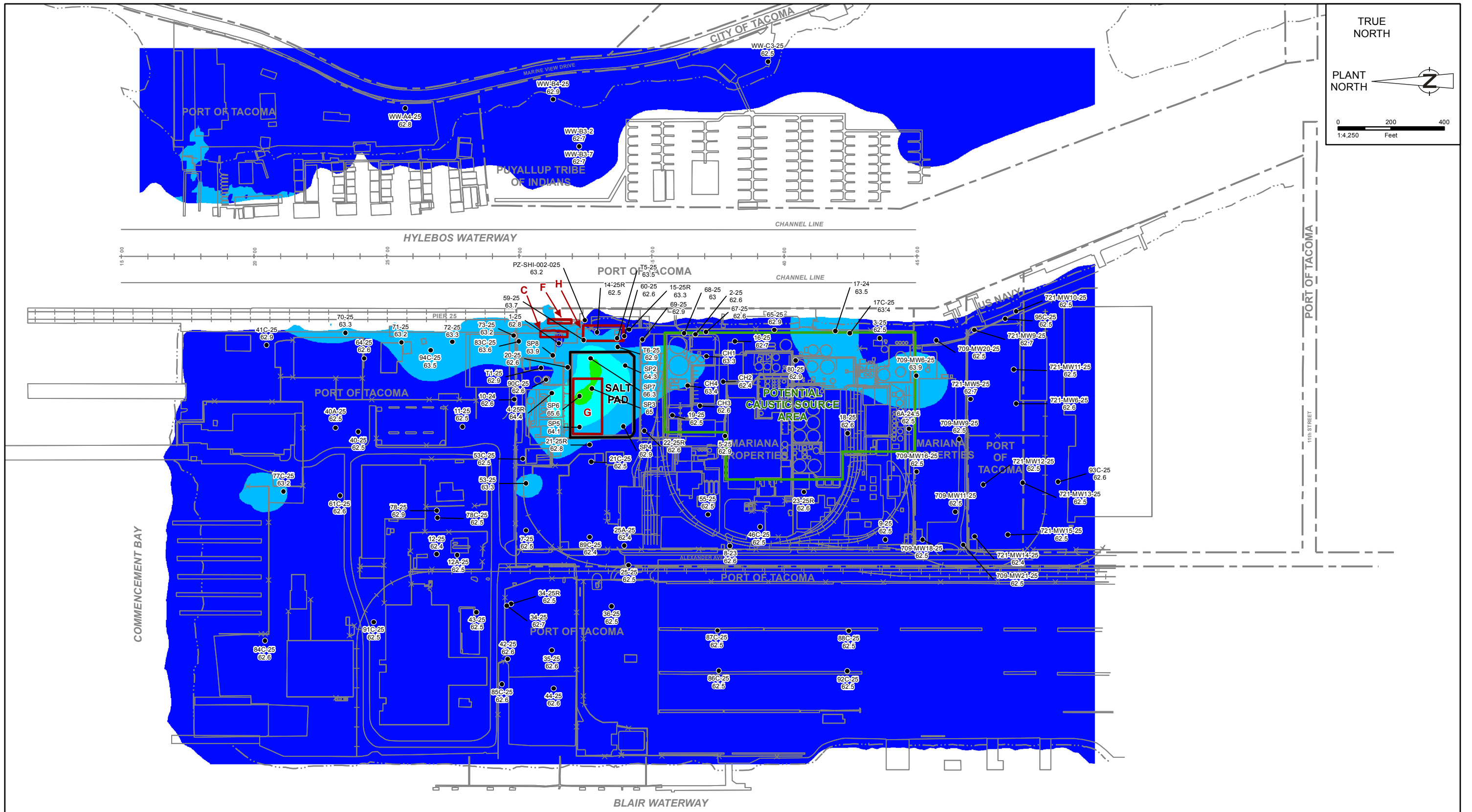
● SAMPLE LOCATIONS

NOTES:
1. THE DATA POINTS POSTED LIE BETWEEN -150 FT NGVD AND -160 NGVD (FROM 5 FT ABOVE TO 5 FT BELOW THE 160-FT ZONE GROUPING PLANE ELEVATION AT -155 FT NGVD) AND THE POSTED VALUES MAY NOT EXACTLY CORRESPOND TO % SALT WATER SHOWN ON THE ZONE GROUPING PLANE. SEE THE 3D VISUALIZATION OF THE FRESH GROUNDWATER/SALT WATER DISTRIBUTION IN THE 4DIM VIEWER FORMAT INCLUDED IN APPENDIX J.

figure 3.60

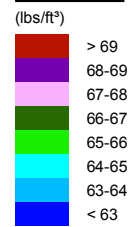
FRESH GROUNDWATER/SALT WATER DISTRIBUTION
160-FT ZONE (ELEV = -155 FT NGVD)
Occidental Chemical Corporation - Tacoma, WA





Coordinate System: Rotation C

LEGEND



C,F,G,H

WMU C,F,G,H



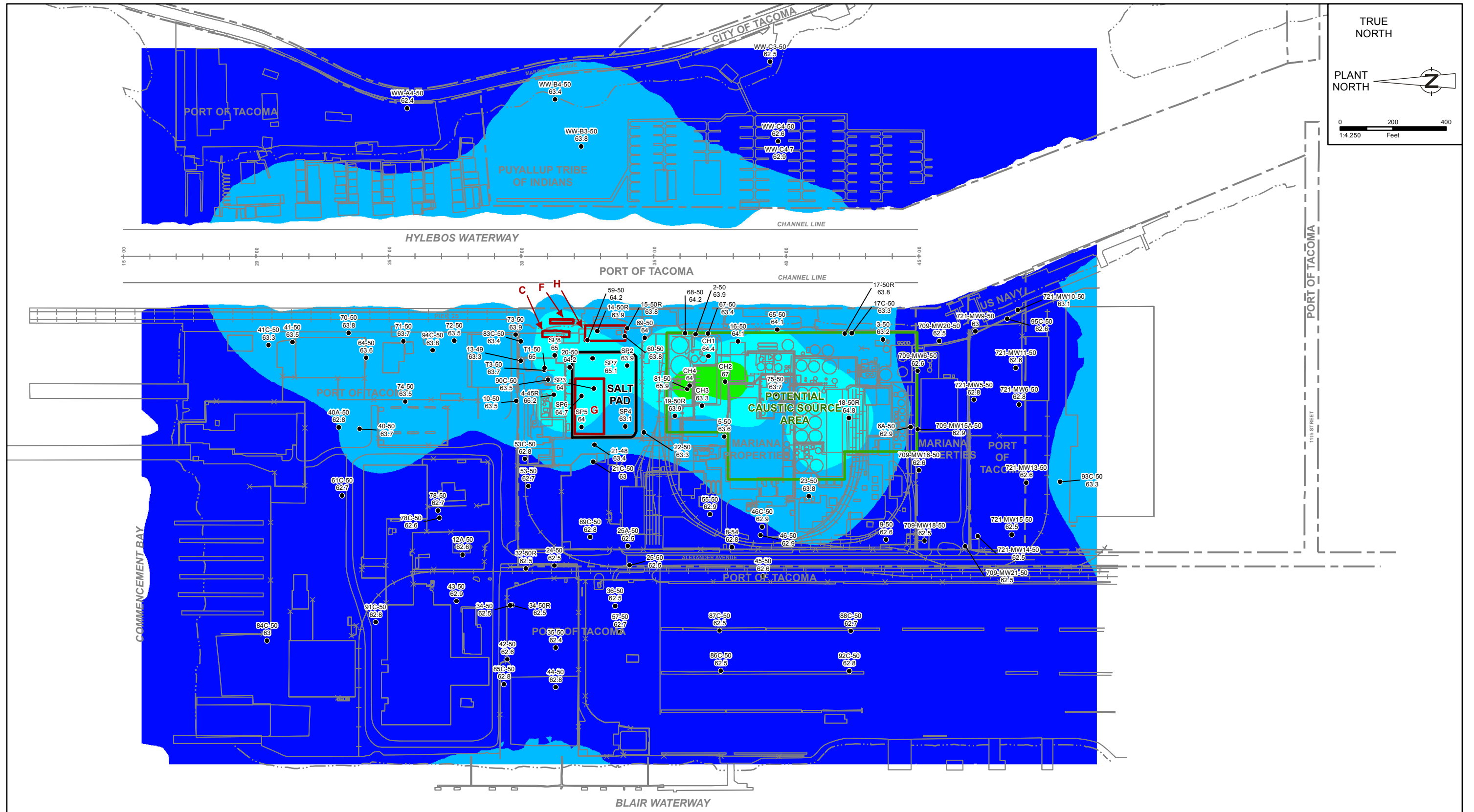
NOTES:

1. THE DATA POINTS POSTED LIE BETWEEN -5 FT NGVD AND -15 NGVD (FROM 5 FT ABOVE TO 5 FT BELOW THE 25-FT ZONE GROUPING PLANE ELEVATION AT -10 FT NGVD) AND THE POSTED VALUES MAY NOT EXACTLY CORRESPOND TO THE DENSITY SHOWN ON THE ZONE GROUPING PLANE. SEE THE 3D VISUALIZATION OF THE ADP IN THE 4DIM VIEWER FORMAT INCLUDED IN APPENDIX K.

figure 3.61

**ANTHROPOGENIC DENSITY PLUME
25-FT ZONE (ELEV = -10 FT NGVD)
Occidental Chemical Corporation - Tacoma, WA**

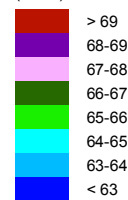




Coordinate System: Rotation C

LEGEND

(lbs/ft³)



C,F,G,H

WMU C,F,G,H

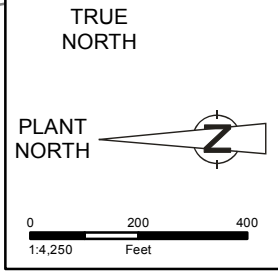
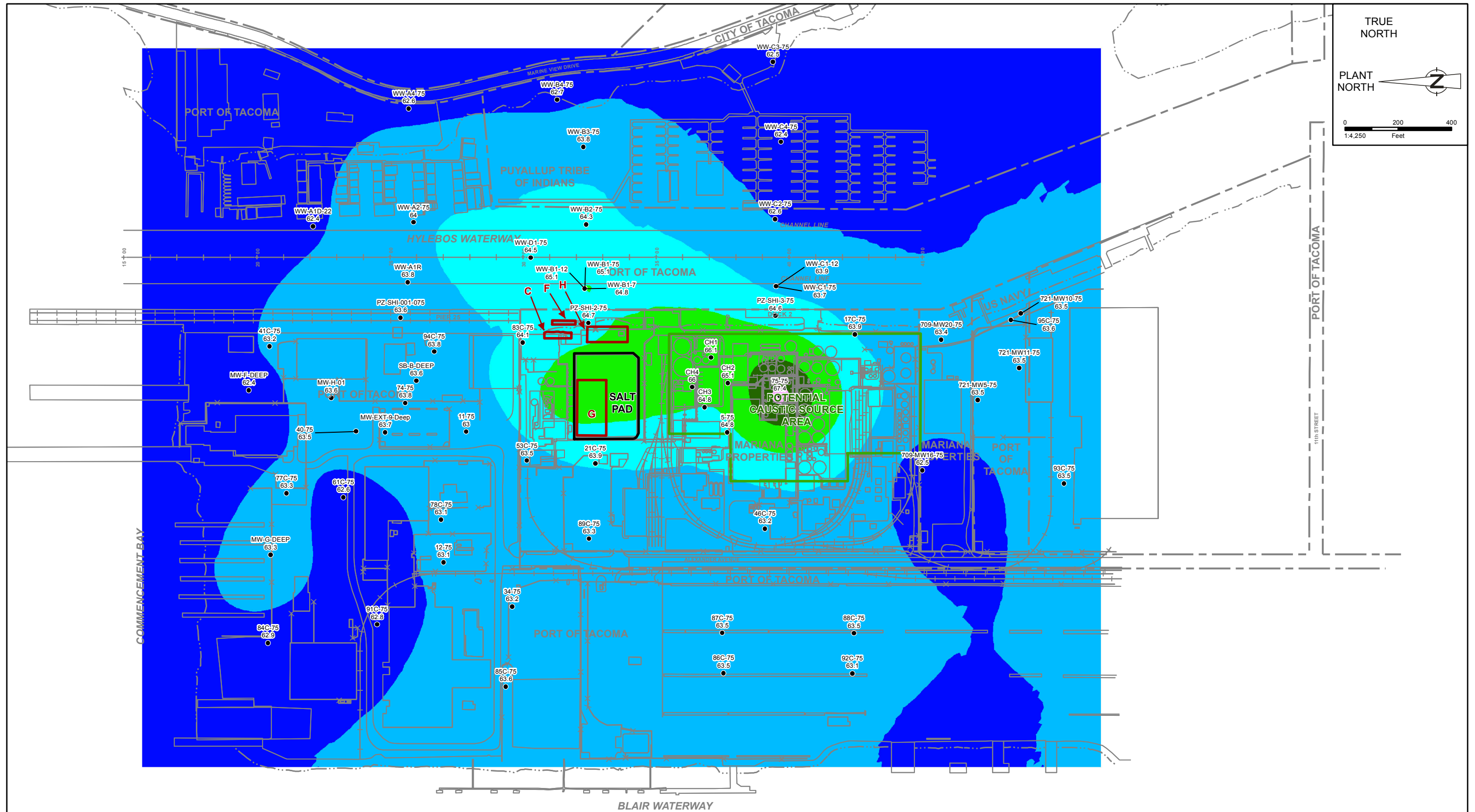


NOTES:

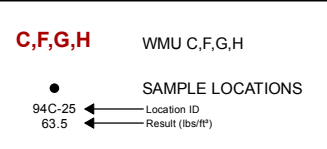
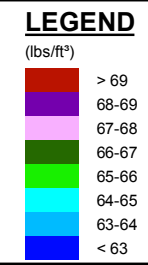
1. THE DATA POINTS POSTED LIE BETWEEN -30 FT NGVD AND -40 NGVD (FROM 5 FT ABOVE TO 5 FT BELOW THE 50-FT ZONE GROUPING PLANE ELEVATION AT -35 FT NGVD) AND THE POSTED VALUES MAY NOT EXACTLY CORRESPOND TO THE DENSITY SHOWN ON THE ZONE GROUPING PLANE. SEE THE 3D VISUALIZATION OF THE ADP IN THE 4DIM VIEWER FORMAT INCLUDED IN APPENDIX K.

figure 3.62

**ANTHROPOGENIC DENSITY PLUME
 50-FT ZONE (ELEV = -35 FT NGVD)
 Occidental Chemical Corporation - Tacoma, WA**



Coordinate System: Rotation C

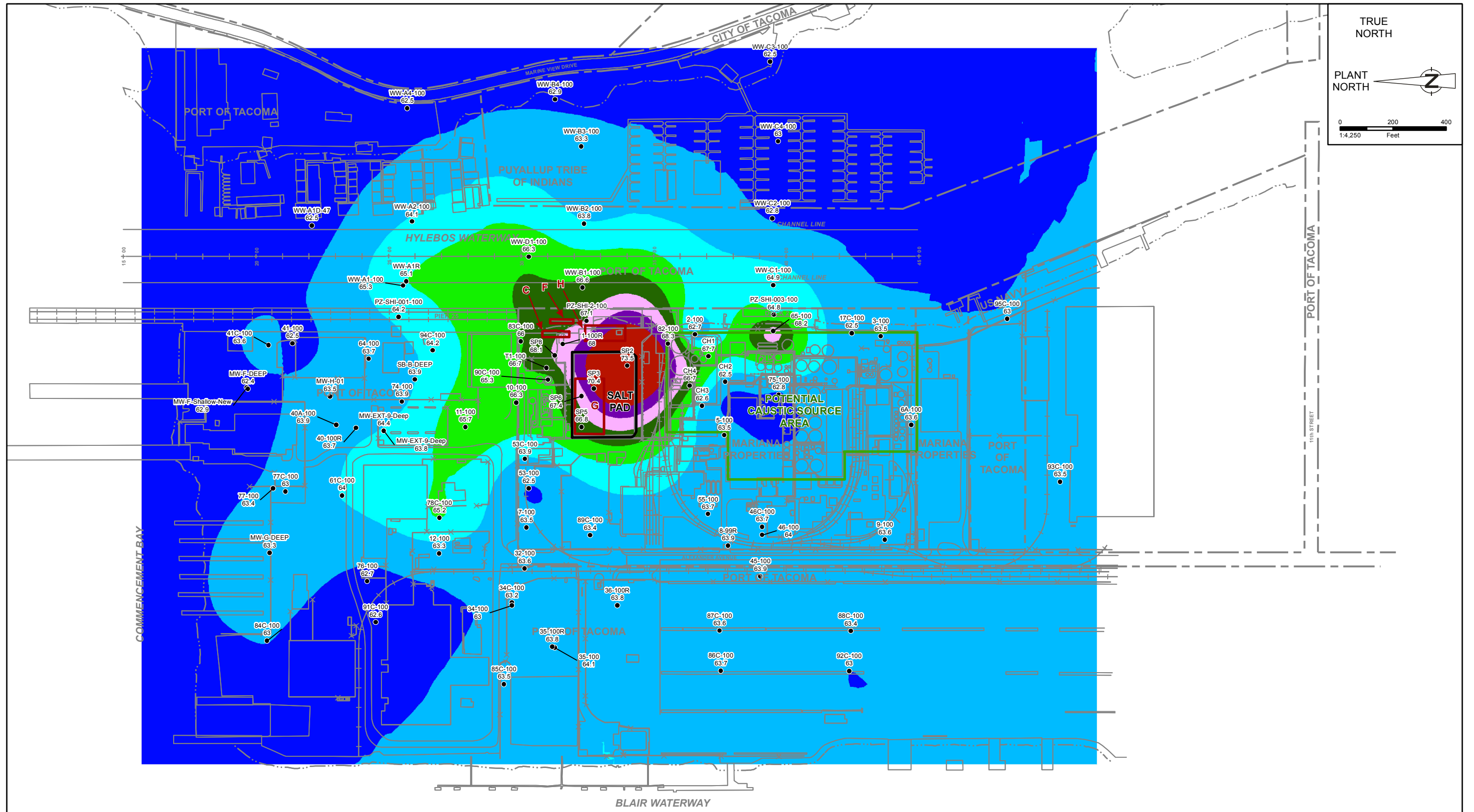


NOTES:
1. THE DATA POINTS POSTED LIE BETWEEN -55 FT NGVD AND -65 NGVD (FROM 5 FT ABOVE TO 5 FT BELOW THE 75-FT ZONE GROUPING PLANE ELEVATION AT -60 FT NGVD) AND THE POSTED VALUES MAY NOT EXACTLY CORRESPOND TO THE DENSITY SHOWN ON THE ZONE GROUPING PLANE. SEE THE 3D VISUALIZATION OF THE ADP IN THE 4DIM VIEWER FORMAT INCLUDED IN APPENDIX K.

figure 3.63

ANTHROPOGENIC DENSITY PLUME
75-FT ZONE (ELEV = -60 FT NGVD)
Occidental Chemical Corporation - Tacoma, WA

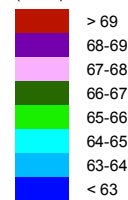




Coordinate System: Rotation C

LEGEND

(lbs/ft³)



C,F,G,H

WMU C,F,G,H



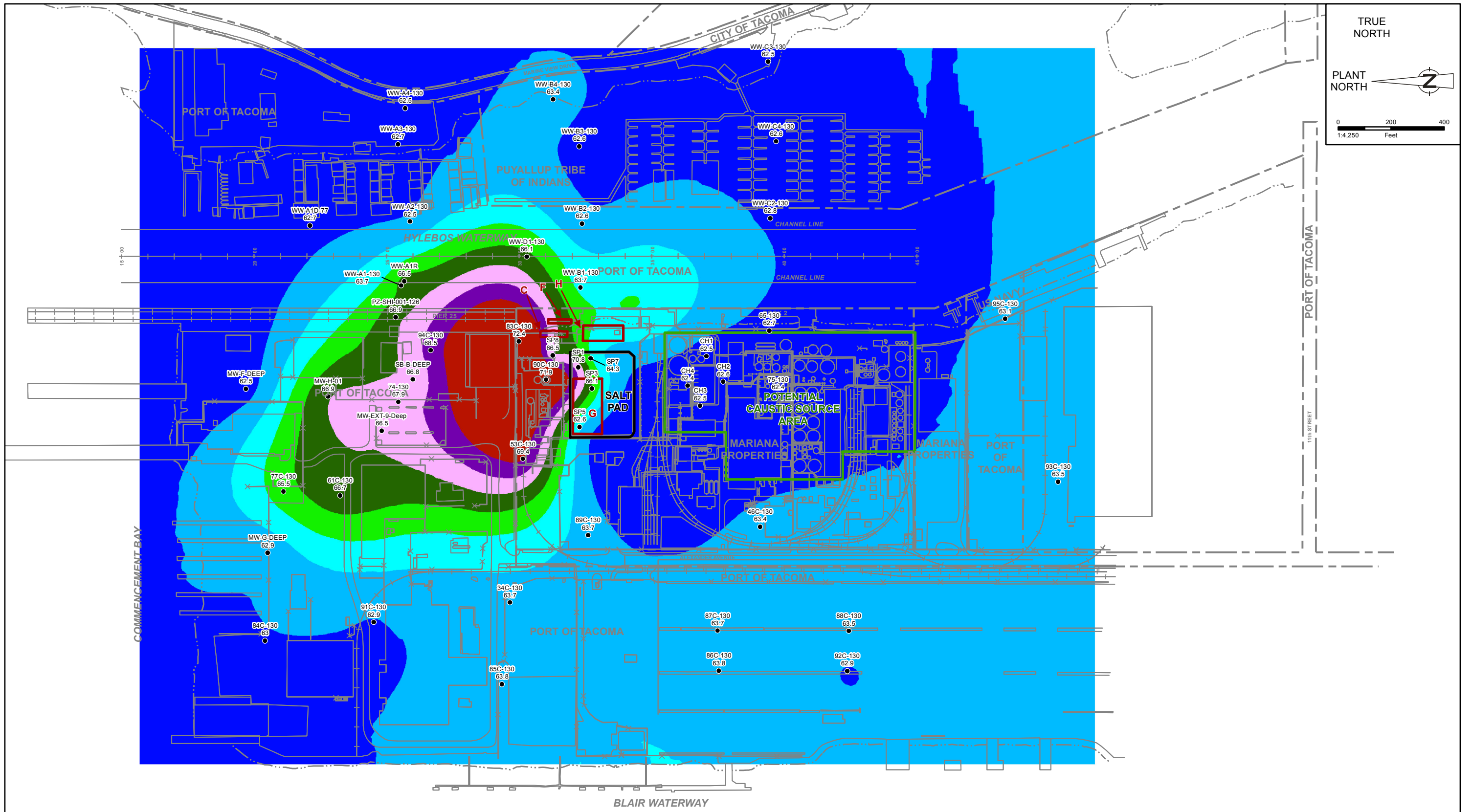
NOTES:

1. THE DATA POINTS POSTED LIE BETWEEN -80 FT NGVD AND -90 NGVD (FROM 5 FT ABOVE TO 5 FT BELOW THE 100-FT ZONE GROUPING PLANE ELEVATION AT -85 FT NGVD) AND THE POSTED VALUES MAY NOT EXACTLY CORRESPOND TO THE DENSITY SHOWN ON THE ZONE GROUPING PLANE. SEE THE 3D VISUALIZATION OF THE ADP IN THE 4DIM VIEWER FORMAT INCLUDED IN APPENDIX K.

figure 3.64

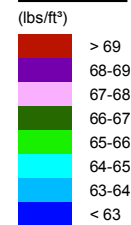
**ANTHROPOGENIC DENSITY PLUME
100-FT ZONE (ELEV = -85 FT NGVD)
Occidental Chemical Corporation - Tacoma, WA**





Coordinate System: Rotation C

LEGEND



C,F,G,H

WMU C,F,G,H



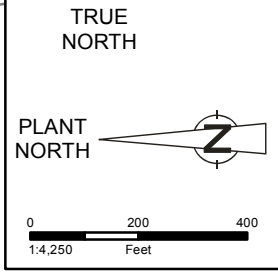
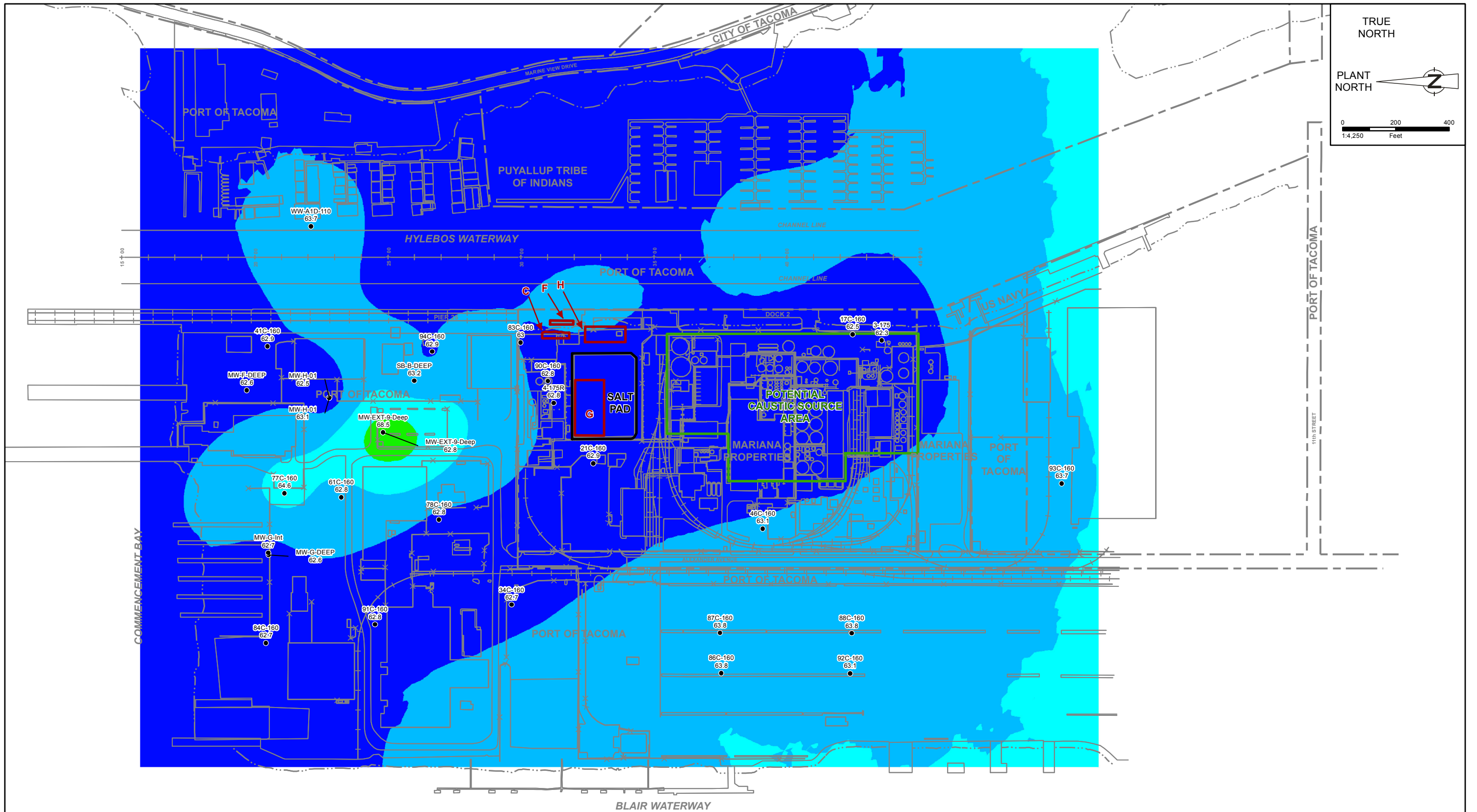
NOTES:

1. THE DATA POINTS POSTED LIE BETWEEN -110 FT NGVD AND -120 NGVD (FROM 5 FT ABOVE TO 5 FT BELOW THE 130-FT ZONE GROUPING PLANE ELEVATION AT -115 FT NGVD) AND THE POSTED VALUES MAY NOT EXACTLY CORRESPOND TO THE DENSITY SHOWN ON THE ZONE GROUPING PLANE. SEE THE 3D VISUALIZATION OF THE ADP IN THE 4DIM VIEWER FORMAT INCLUDED IN APPENDIX K.

figure 3.65

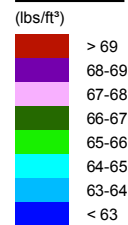
**ANTHROPOGENIC DENSITY PLUME
130-FT ZONE (ELEV = -115 FT NGVD)**
Occidental Chemical Corporation - Tacoma, WA





Coordinate System: Rotation C

LEGEND



C,F,G,H

WMU C,F,G,H

● SAMPLE LOCATIONS
 94C-25 ← Location ID
 63.5 ← Result (lbs/ft³)

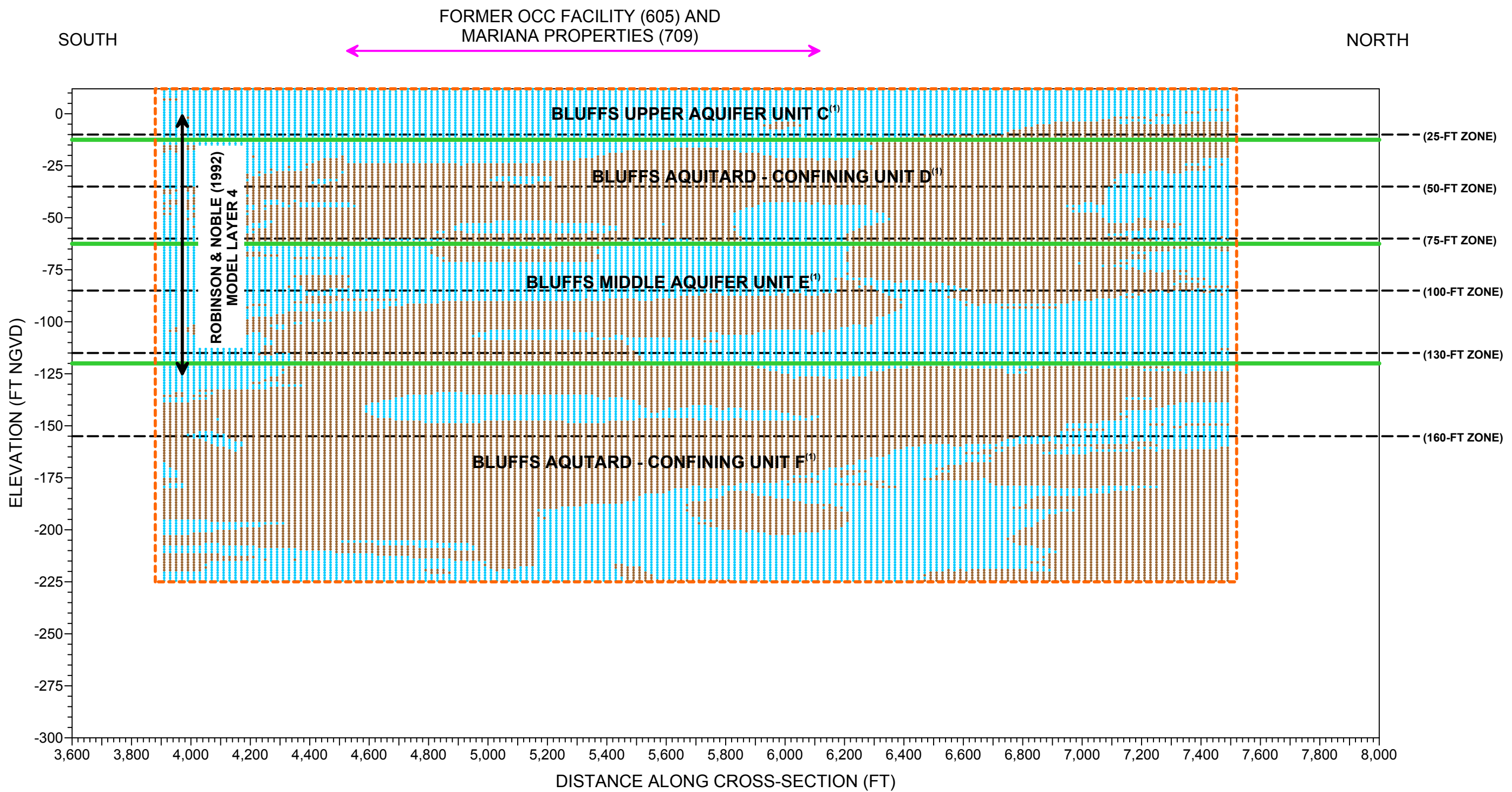
NOTES:

1. THE DATA POINTS POSTED LIE BETWEEN -150 FT NGVD AND -160 NGVD (FROM 5 FT ABOVE TO 5 FT BELOW THE 160-FT ZONE GROUPING PLANE ELEVATION AT -155 FT NGVD) AND THE POSTED VALUES MAY NOT EXACTLY CORRESPOND TO THE DENSITY SHOWN ON THE ZONE GROUPING PLANE. SEE THE 3D VISUALIZATION OF THE ADP IN THE 4DIM VIEWER FORMAT INCLUDED IN APPENDIX K.

figure 3.66

**ANTHROPOGENIC DENSITY PLUME
 160-FT ZONE (ELEV = -155 FT NGVD)
 Occidental Chemical Corporation - Tacoma, WA**





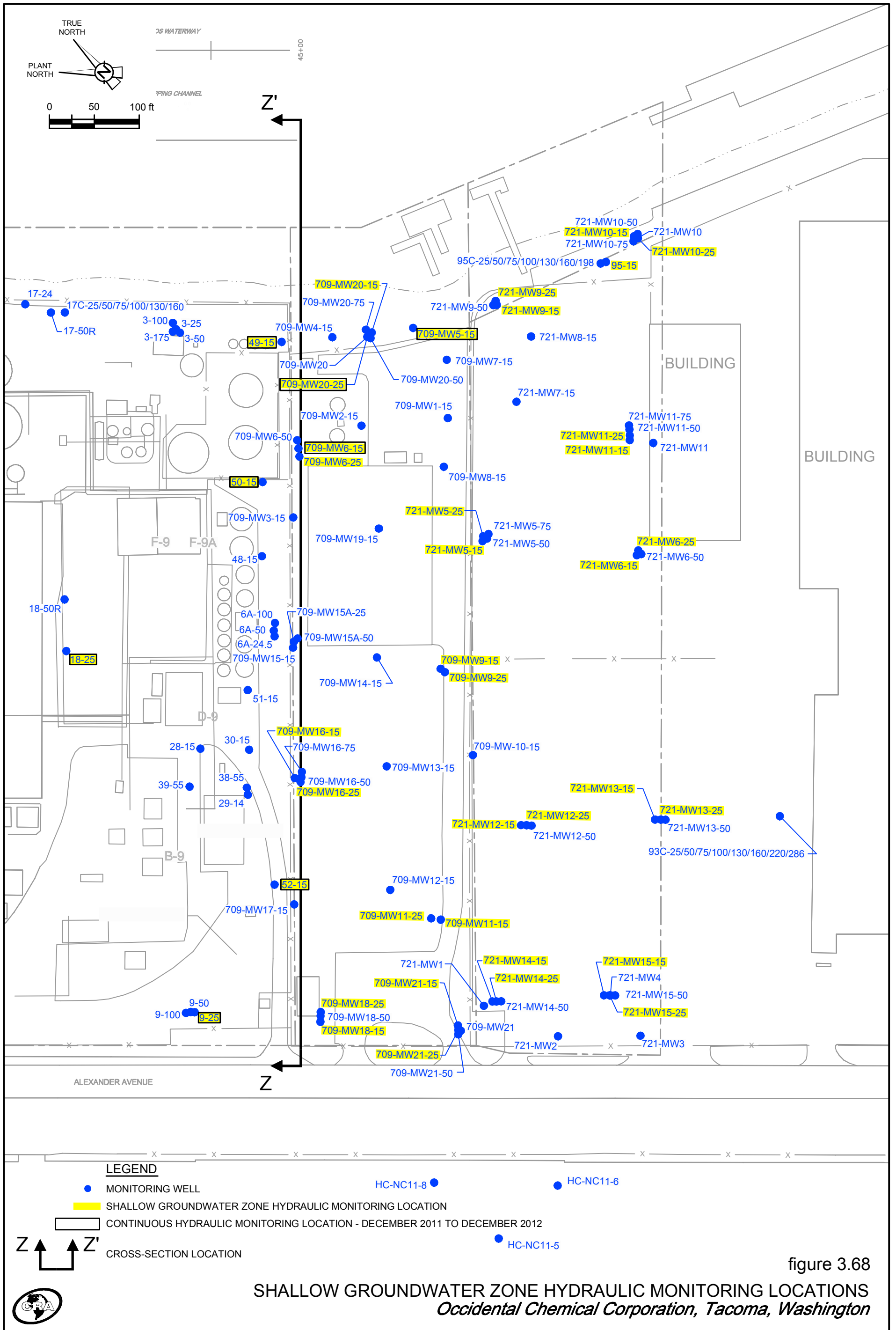
- LEGEND**
- ZONE GROUPING PLANE ELEVATION
 - ▭ EXTENT OF 3-D SITE STRATIGRAPHIC MODEL
 - RELATIVELY PERMEABLE SOILS
 - LOW PERMEABILITY SOILS

NOTES:
 (1) SAVOCA ET AL. (2010)

figure 3.67

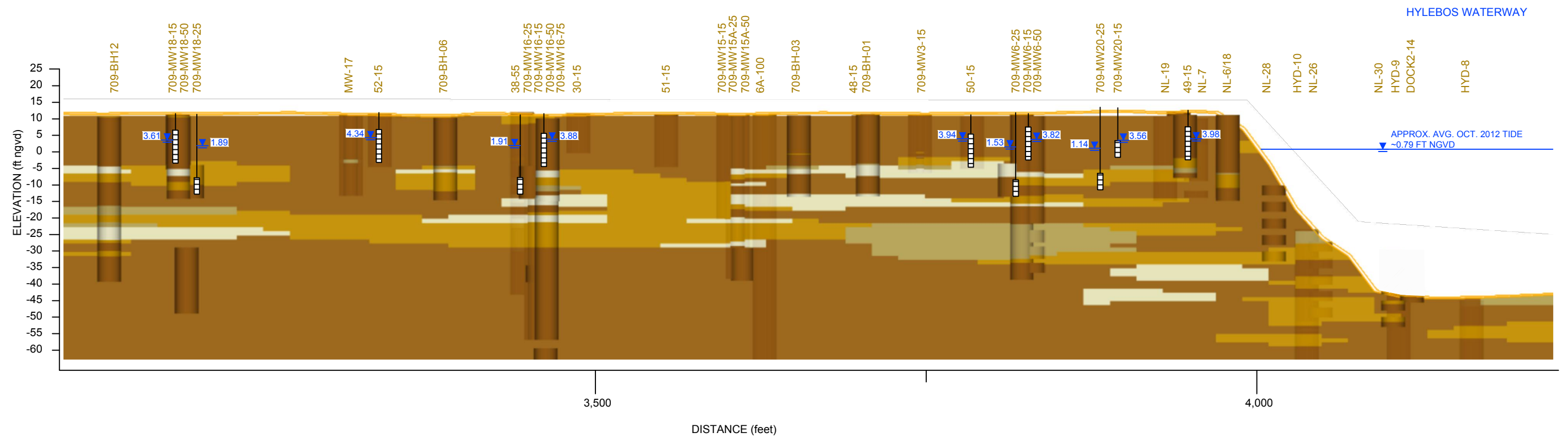
**CROSS-SECTION OF RELATIVELY PERMEABLE AND LOW PERMEABILITY STRATIGRAPHY
 ALONG EAST LIMIT OF 3-D STRATIGRAPHIC MODEL
 Occidental Chemical Corporation, Tacoma, Washington**





Z
PLANT-WEST



Z'
PLANT-EAST



HYLEBOS WATERWAY

APPROX. AVG. OCT. 2012 TIDE
-0.79 FT NGVD

LEGEND

-  WELL SCREEN
-  1.89 AVERAGE SURFACE (1991) MEAN FEH FOR OCTOBER 2012

STRATIGRAPHY LEGEND

-  SAND-GRAVEL
-  SILTY SAND
-  SILT
-  SILTY CLAY

figure 3.69
SHALLOW STRATIGRAPHIC CROSS-SECTION Z-Z' AND
AVERAGE SHALLOW HYDRAULIC MONITORING RESULTS - OCTOBER 2012
Occidental Chemical Corporation, Tacoma, Washington

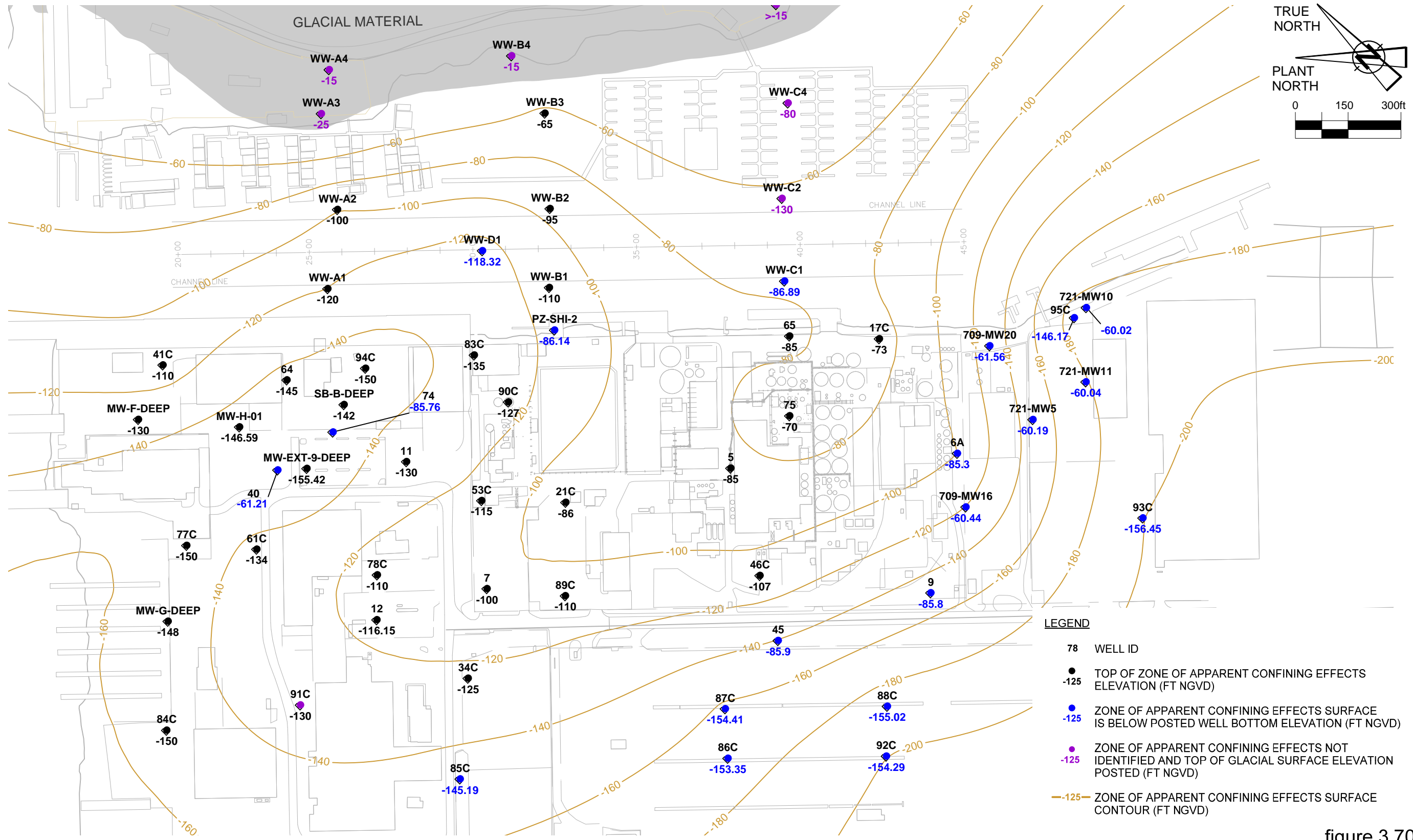
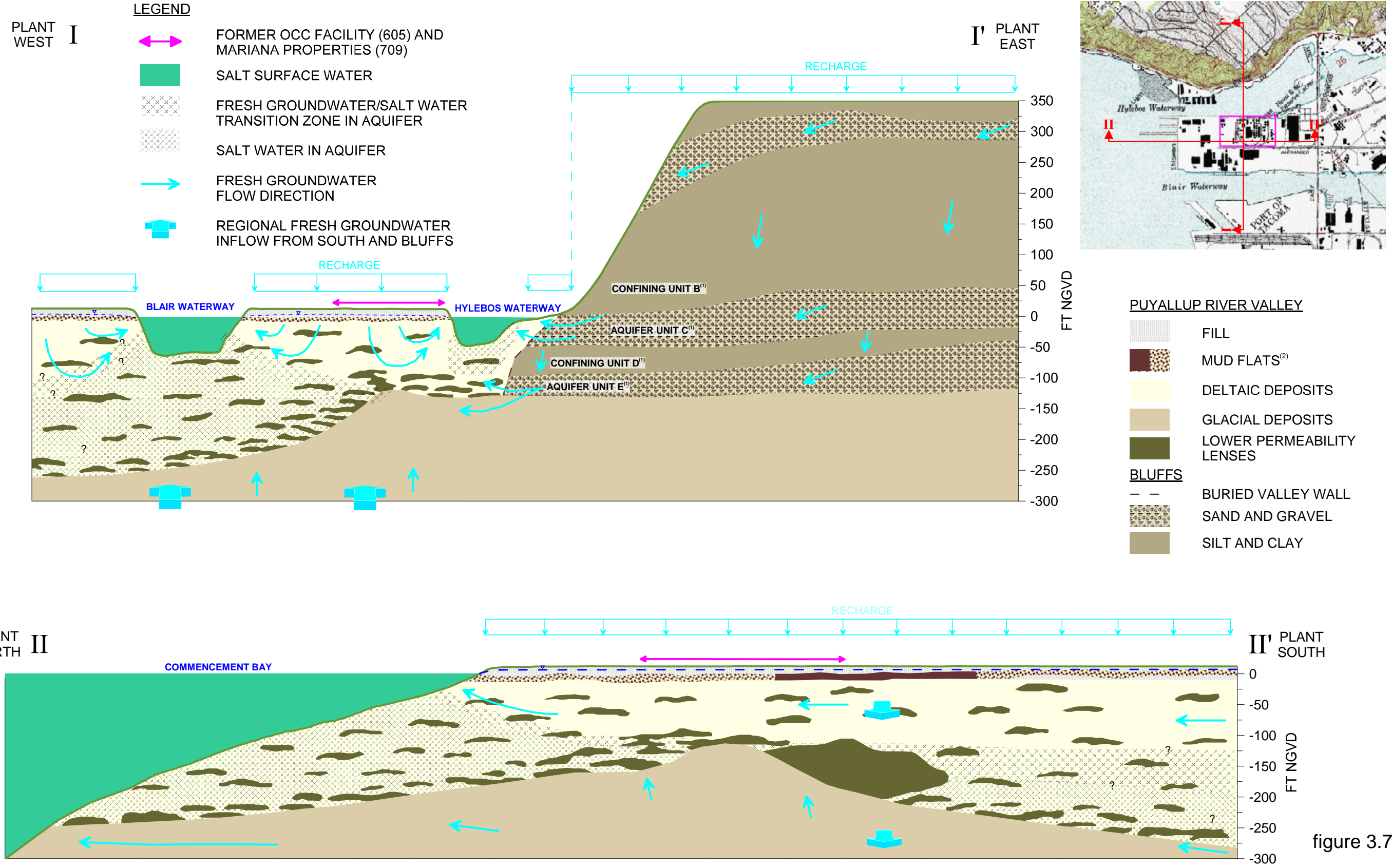


figure 3.70

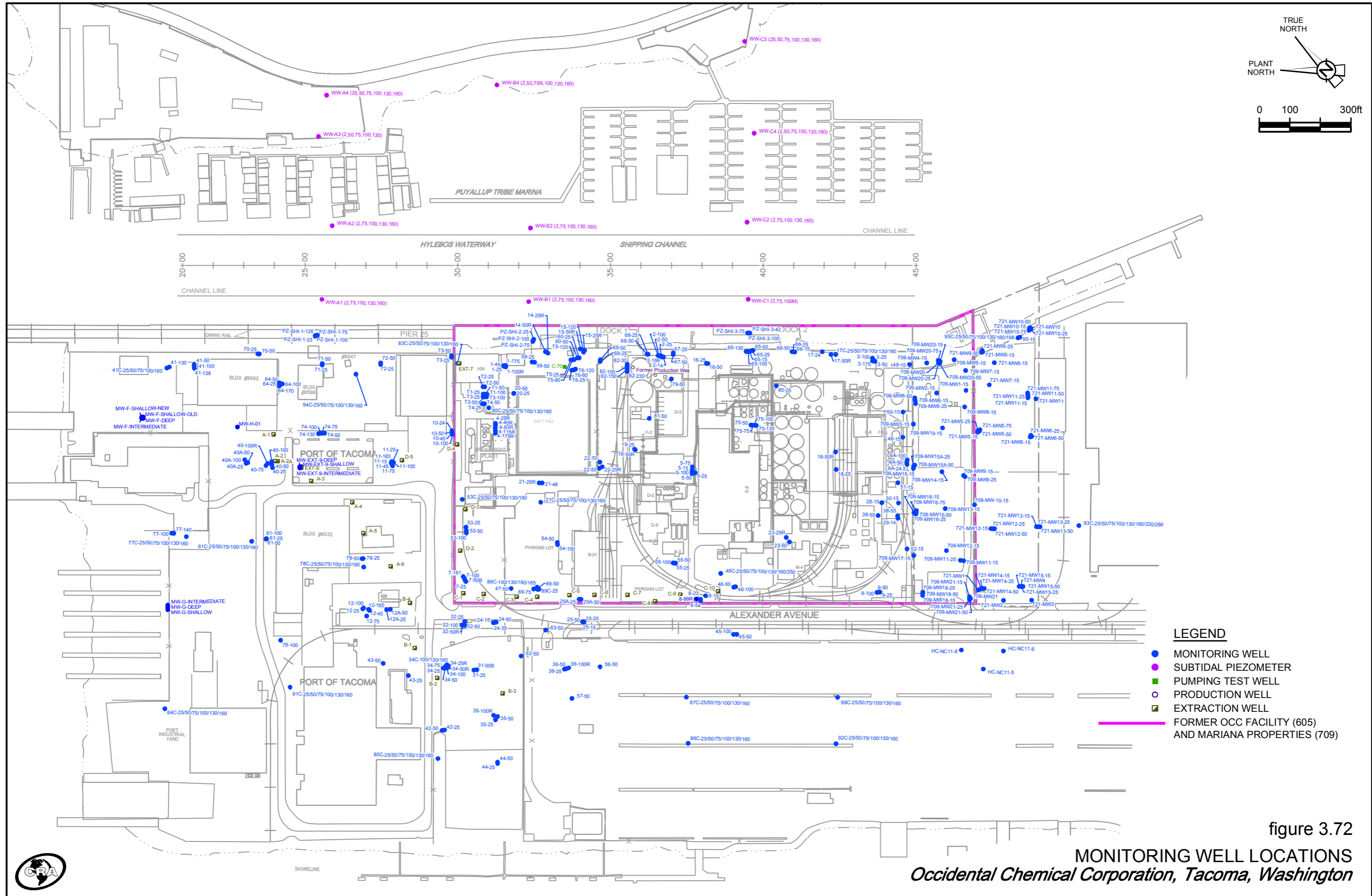
ZONE OF APPARENT CONFINING EFFECT SURFACE
Occidental Chemical Corporation, Tacoma, Washington





NOTES:
 (1) SAVOCA ET AL. (2010)
 (2) DARK BROWN INDICATES WHERE MUD FLATS ARE OBSERVED TO PROVIDE HYDRAULIC SEPARATION BETWEEN THE FILL AND DELTAIC DEPOSITS; LIGHT BROWN INDICATES WHERE HYDRAULIC SEPARATION BY THE MUD FLATS IS NOT CONFIRMED
 ? FRESH GROUNDWATER/SALT WATER TRANSITION ZONE AND SALT WATER DISTRIBUTION ASSUMED

CONCEPTUAL SITE MODEL OF FRESH GROUNDWATER/SALT WATER DISTRIBUTION
 Occidental Chemical Corporation, Tacoma, Washington



- LEGEND**
- MONITORING WELL
 - SUBTIDAL PIEZOMETER
 - PUMPING TEST WELL
 - PRODUCTION WELL
 - EXTRACTION WELL
 - FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)

figure 3.72
MONITORING WELL LOCATIONS
Occidental Chemical Corporation, Tacoma, Washington

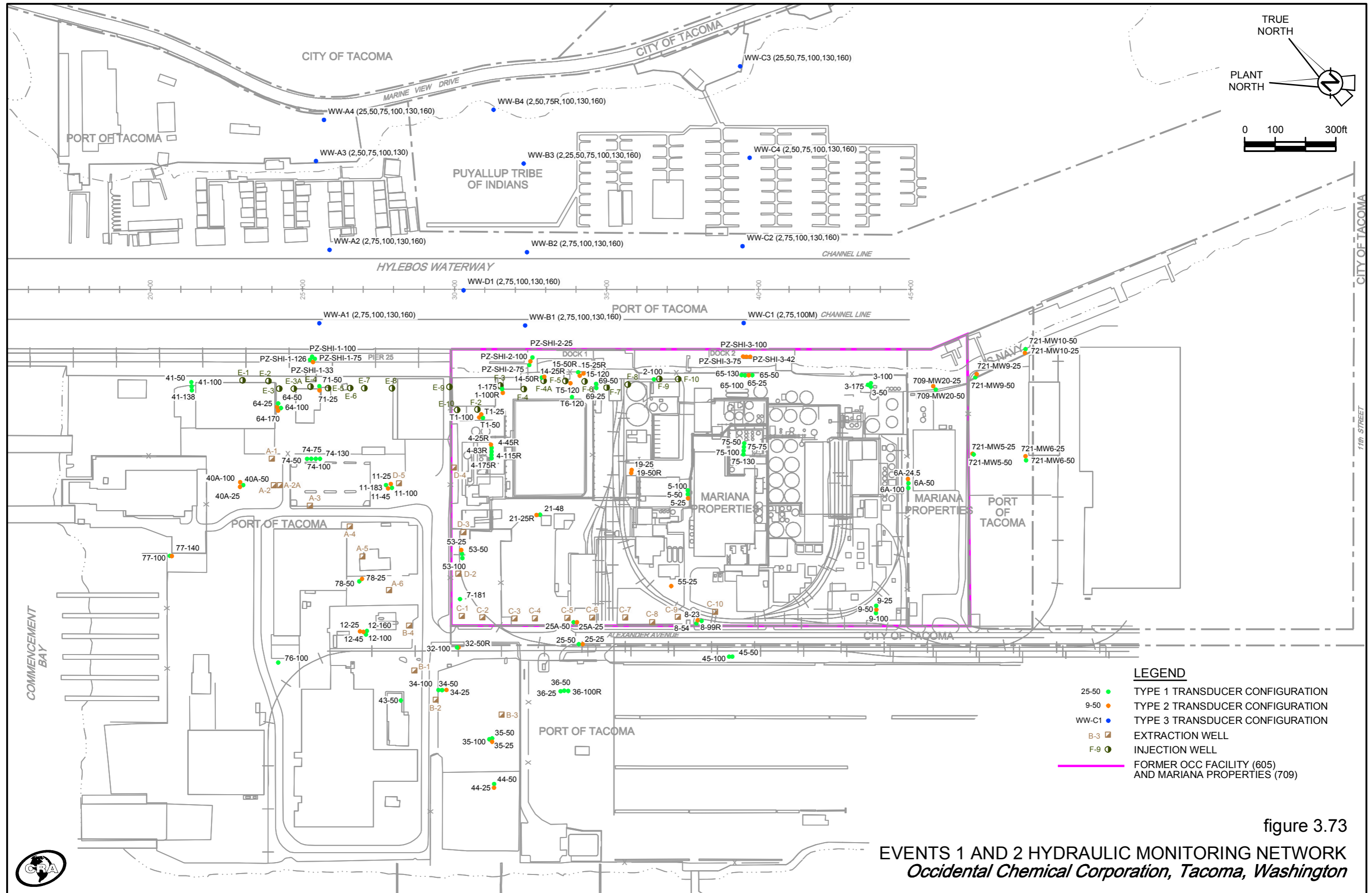


figure 3.73
 EVENTS 1 AND 2 HYDRAULIC MONITORING NETWORK
Occidental Chemical Corporation, Tacoma, Washington



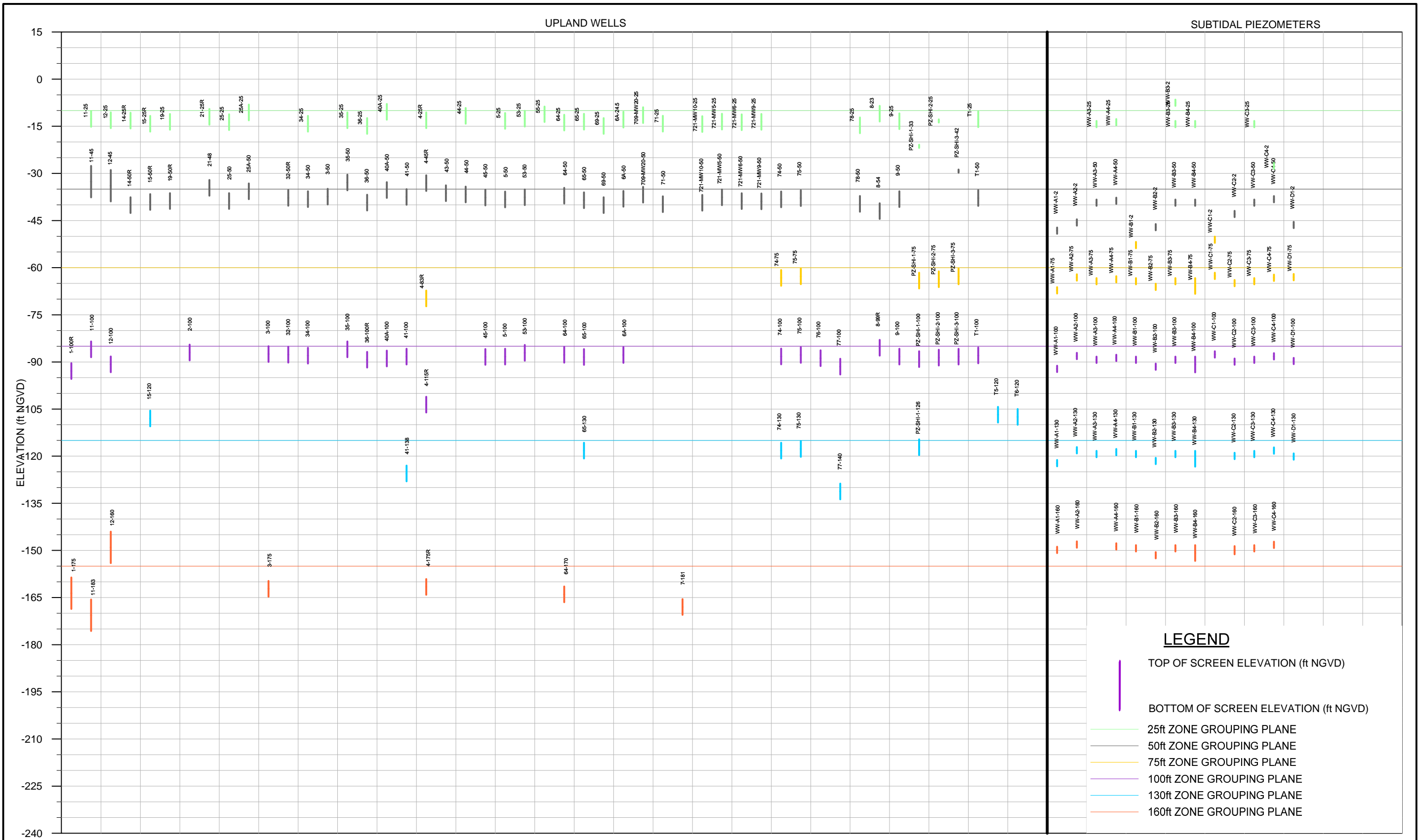
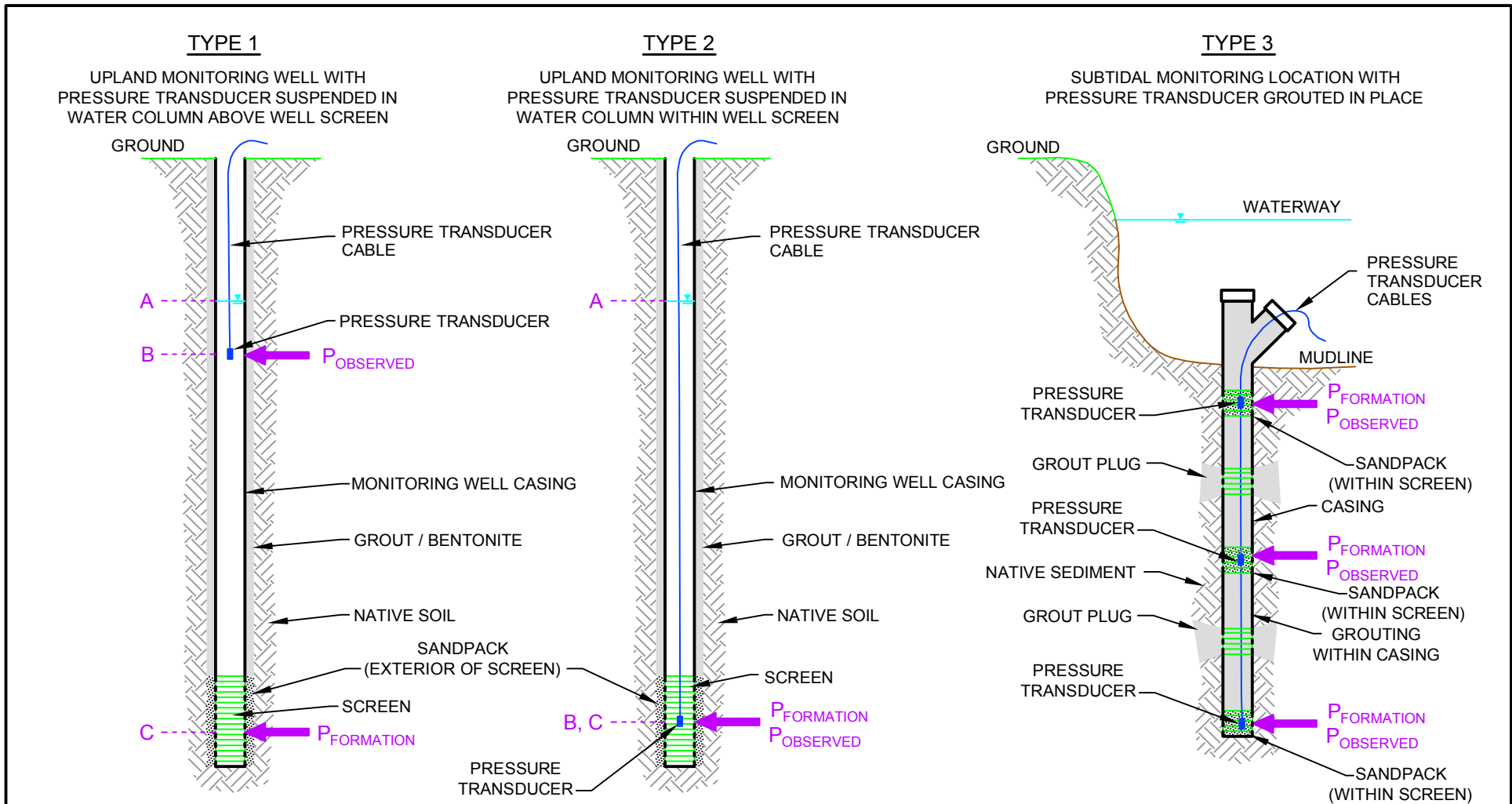


figure 3.74
EVENTS 1 AND 2 MONITORING WELL SCREEN INTERVALS BY ZONE
Occidental Chemical Corporation, Tacoma, WA





NOT TO SCALE

NOTES:

- TYPE 1 VENTED TELOG DIAPHRAGM TRANSDUCER.
- TYPE 2 VENTED TELOG DIAPHRAGM TRANSDUCER OR NON-VENTED GEOKON VIBRATING WIRE TRANSDUCER.
- TYPE 3 NON-VENTED GEOKON VIBRATING WIRE TRANSDUCER.

figure 3.75

SCHMATIC OF TRANSDUCER CONFIGURATIONS FOR EVENTS 1 AND 2
Occidental Chemical Corporation, Tacoma, Washington



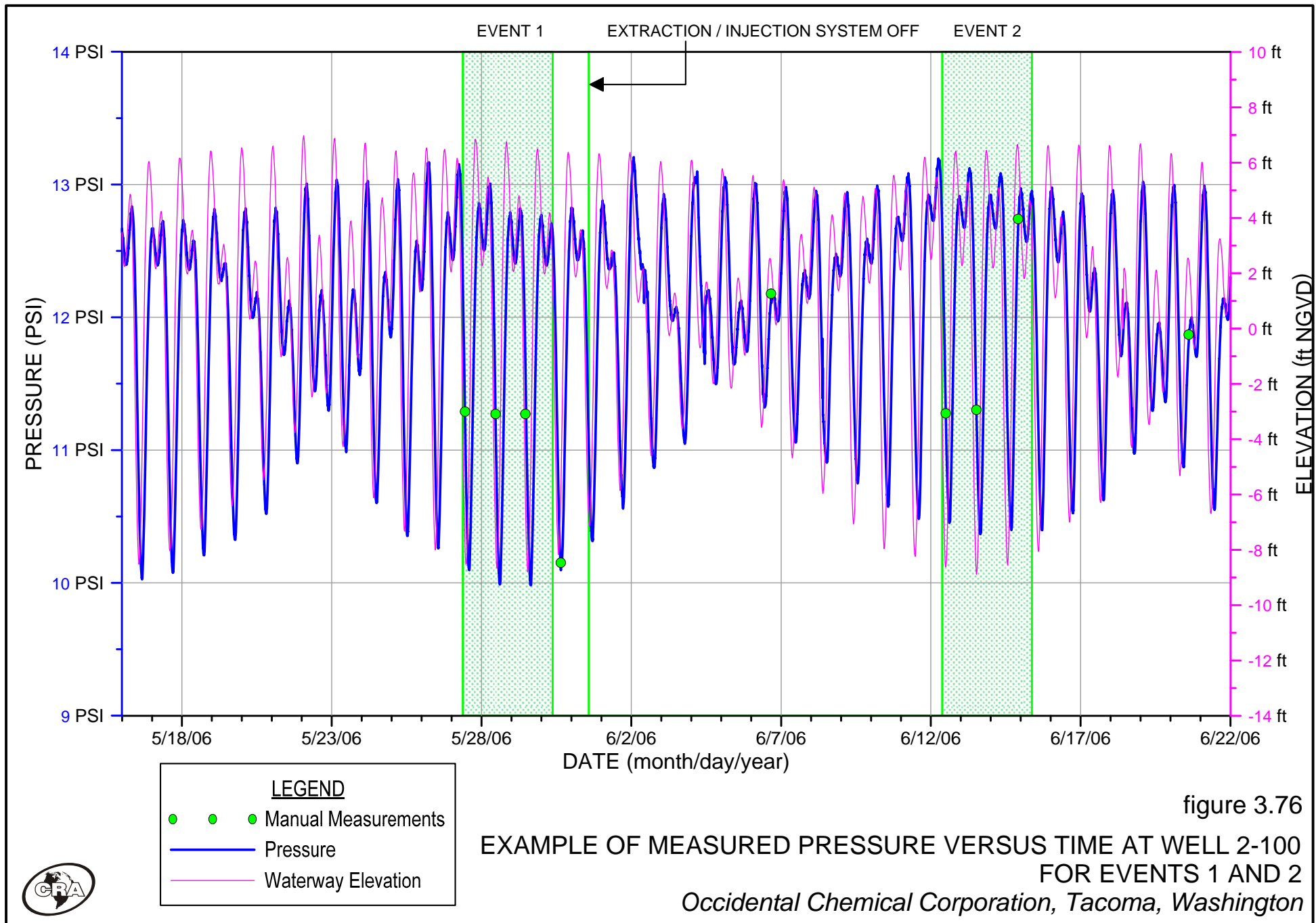
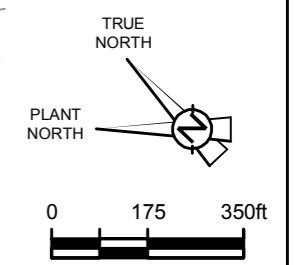
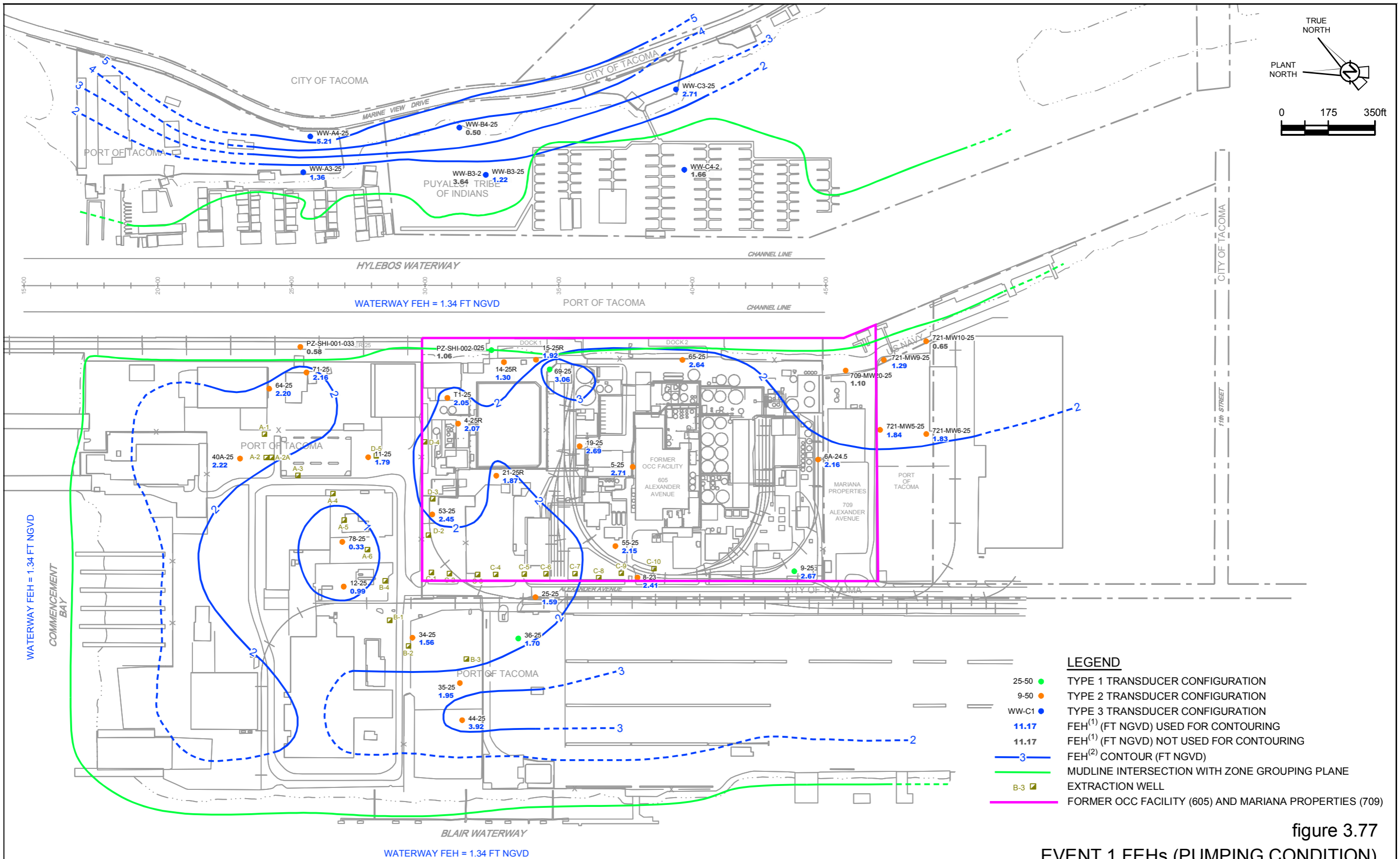


figure 3.76

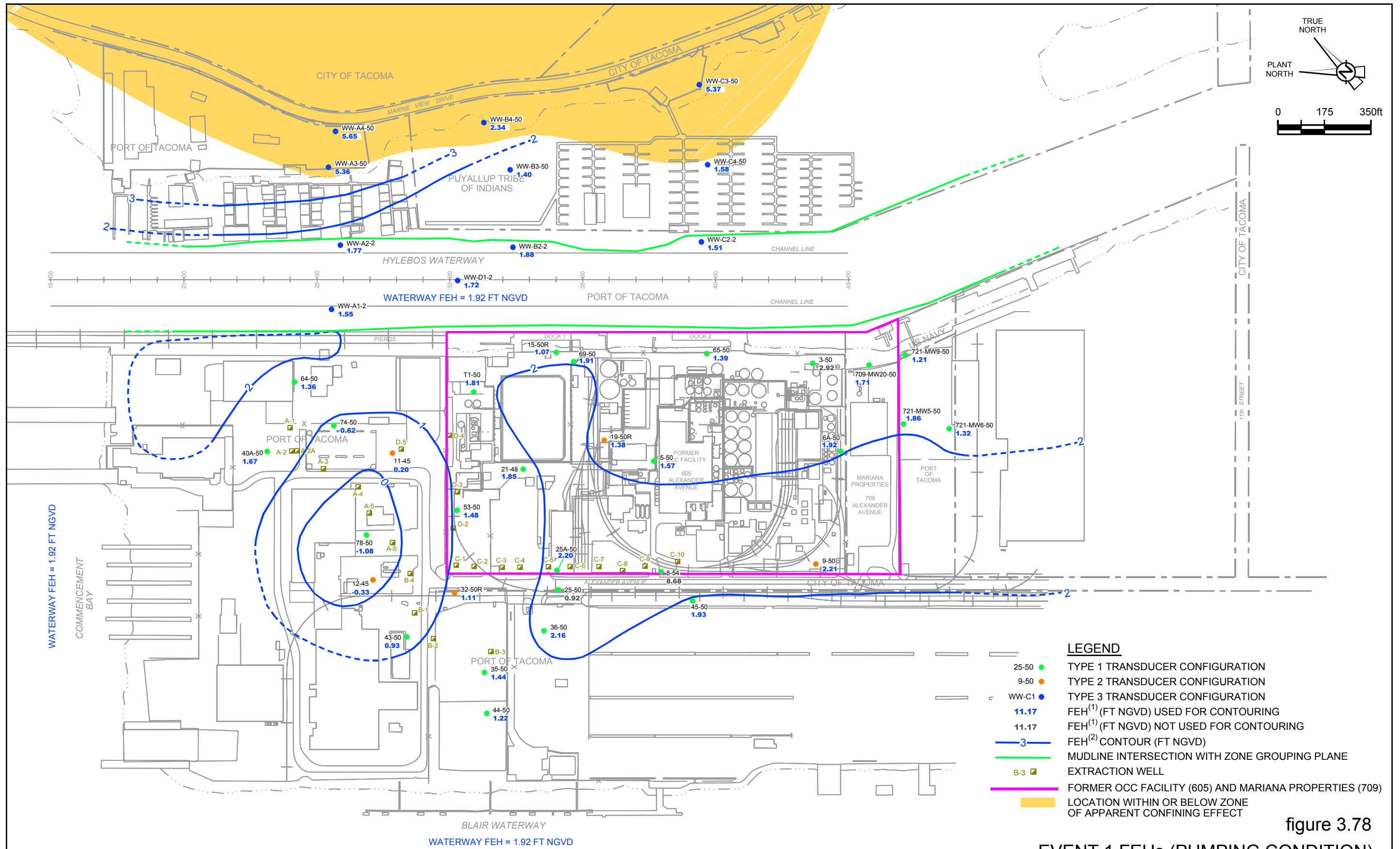
EXAMPLE OF MEASURED PRESSURE VERSUS TIME AT WELL 2-100 FOR EVENTS 1 AND 2
Occidental Chemical Corporation, Tacoma, Washington



NOTES:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.
 (2) OBSERVED FEH CONTOURS FOR ZONE GROUPING PLANE ELEVATION.

figure 3.77
 EVENT 1 FEHs (PUMPING CONDITION)
 25-FT ZONE GROUPING PLANE
Occidental Chemical Corporation, Tacoma, Washington





NOTES:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.
 (2) OBSERVED FEH CONTOURS FOR ZONE GROUPING PLANE ELEVATION.

figure 3.78
 EVENT 1 FEHs (PUMPING CONDITION)
 50-FT ZONE GROUPING PLANE
 Occidental Chemical Corporation, Tacoma, Washington



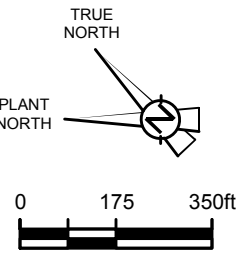
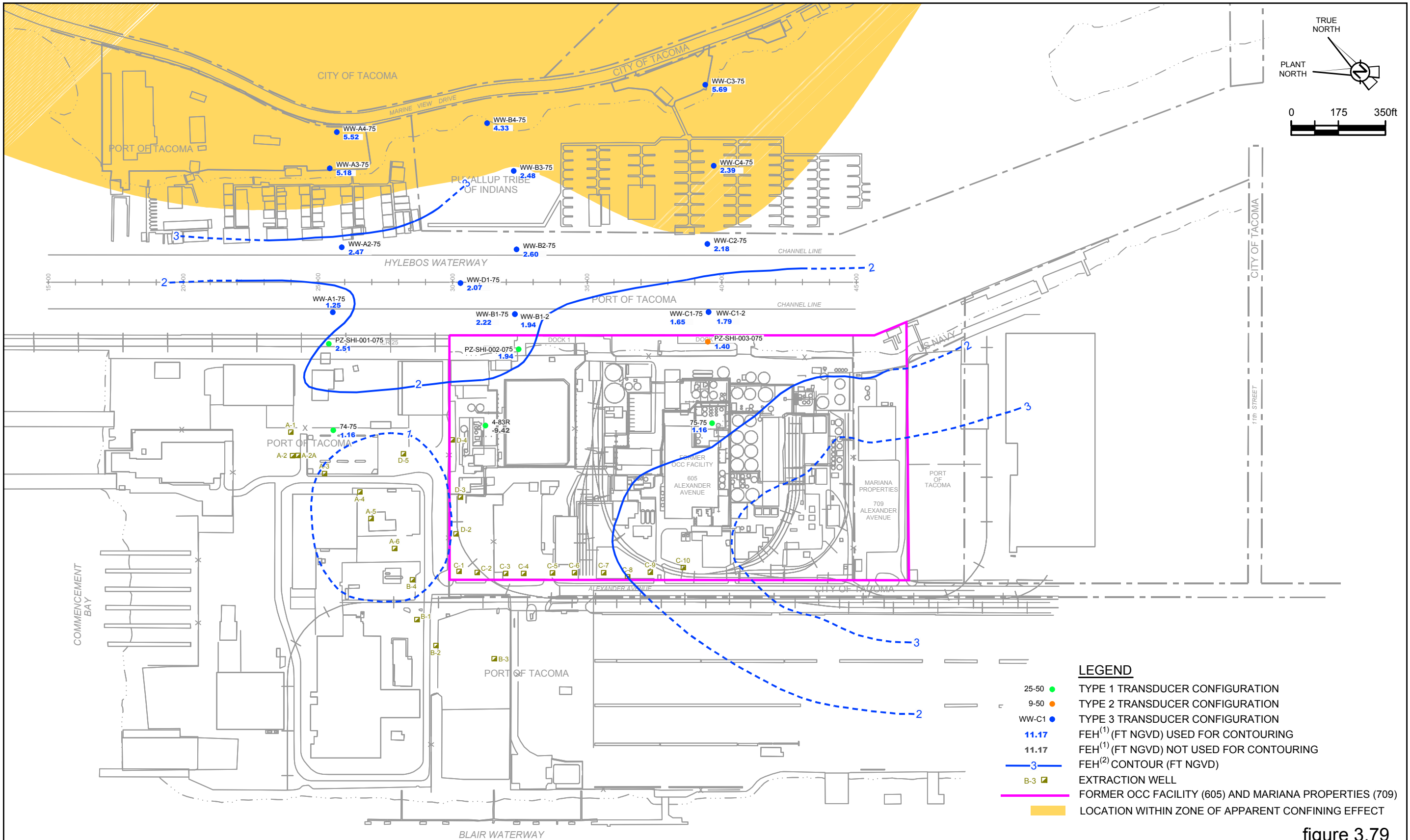
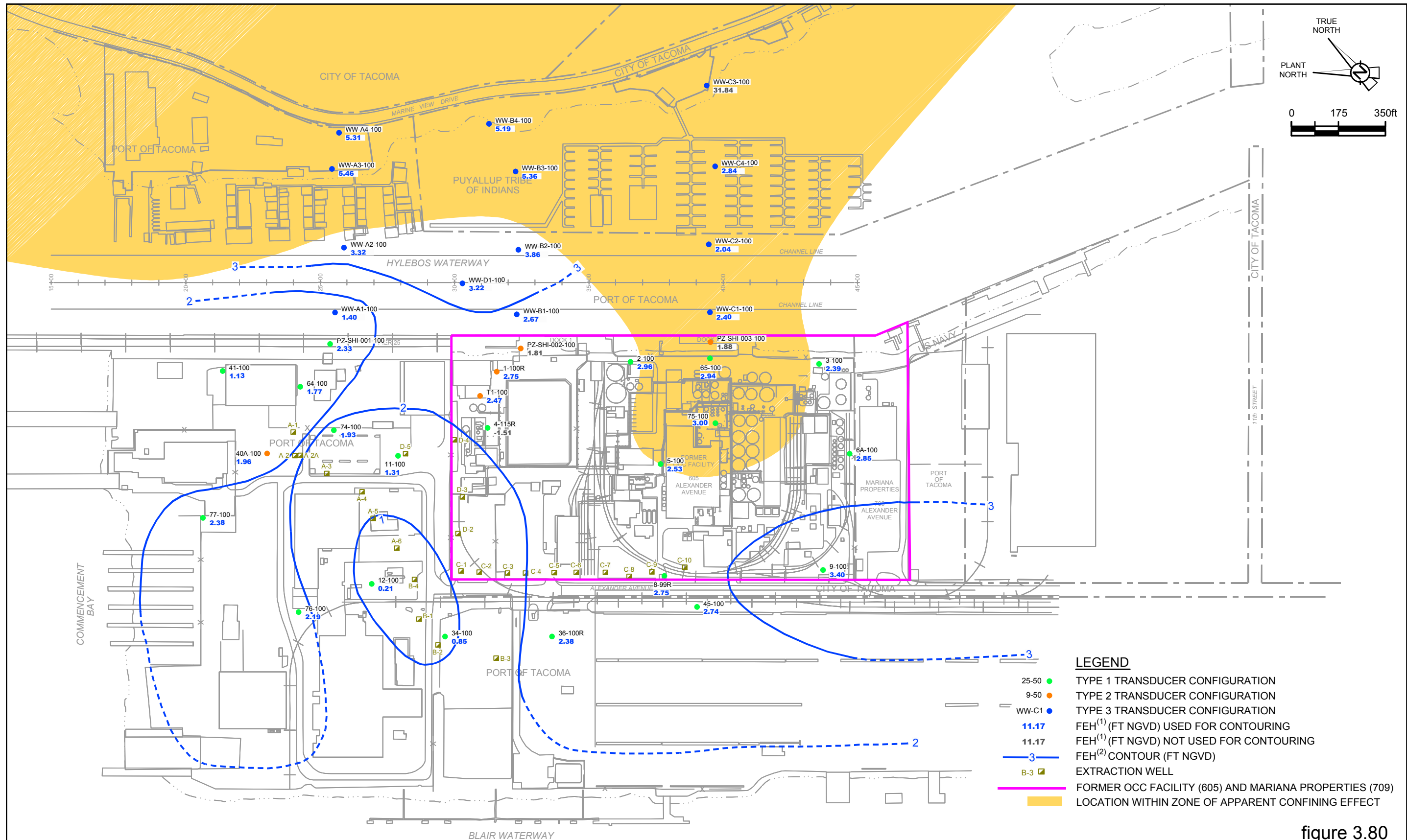


figure 3.79
EVENT 1 FEHs (PUMPING CONDITION)
75-FT ZONE GROUPING PLANE
Occidental Chemical Corporation, Tacoma, Washington

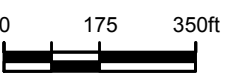
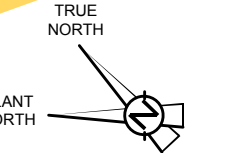
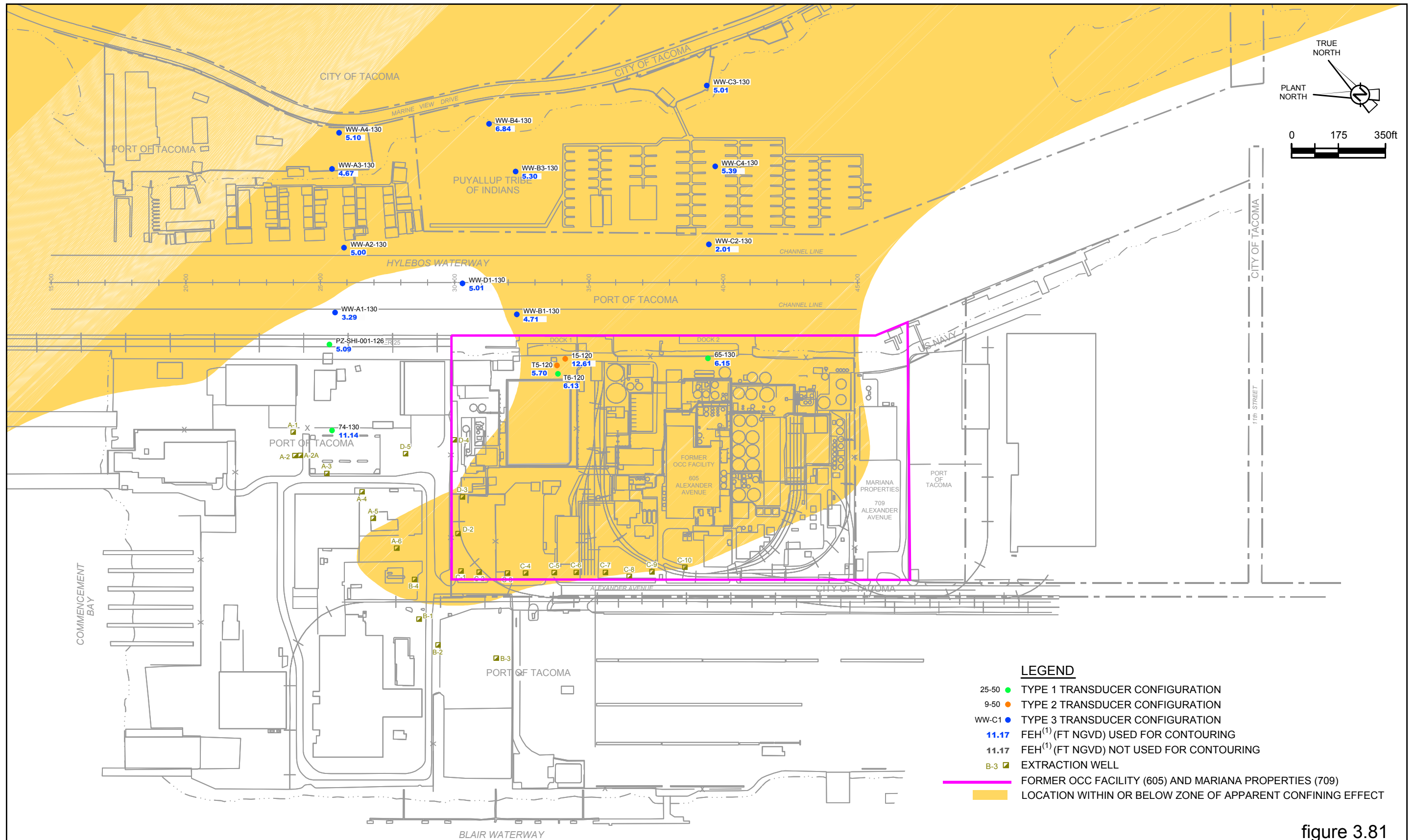




NOTES:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.
 (2) OBSERVED FEH CONTOURS FOR ZONE GROUPING PLANE ELEVATION.

figure 3.80
 EVENT 1 FEHs (PUMPING CONDITION)
 100-FT ZONE GROUPING PLANE
 Occidental Chemical Corporation, Tacoma, Washington





NOTE:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.

figure 3.81
 EVENT 1 FEH (PUMPING CONDITIONS)
 130-FT ZONE GROUPING PLANE
 Occidental Chemical Corporation, Tacoma, Washington



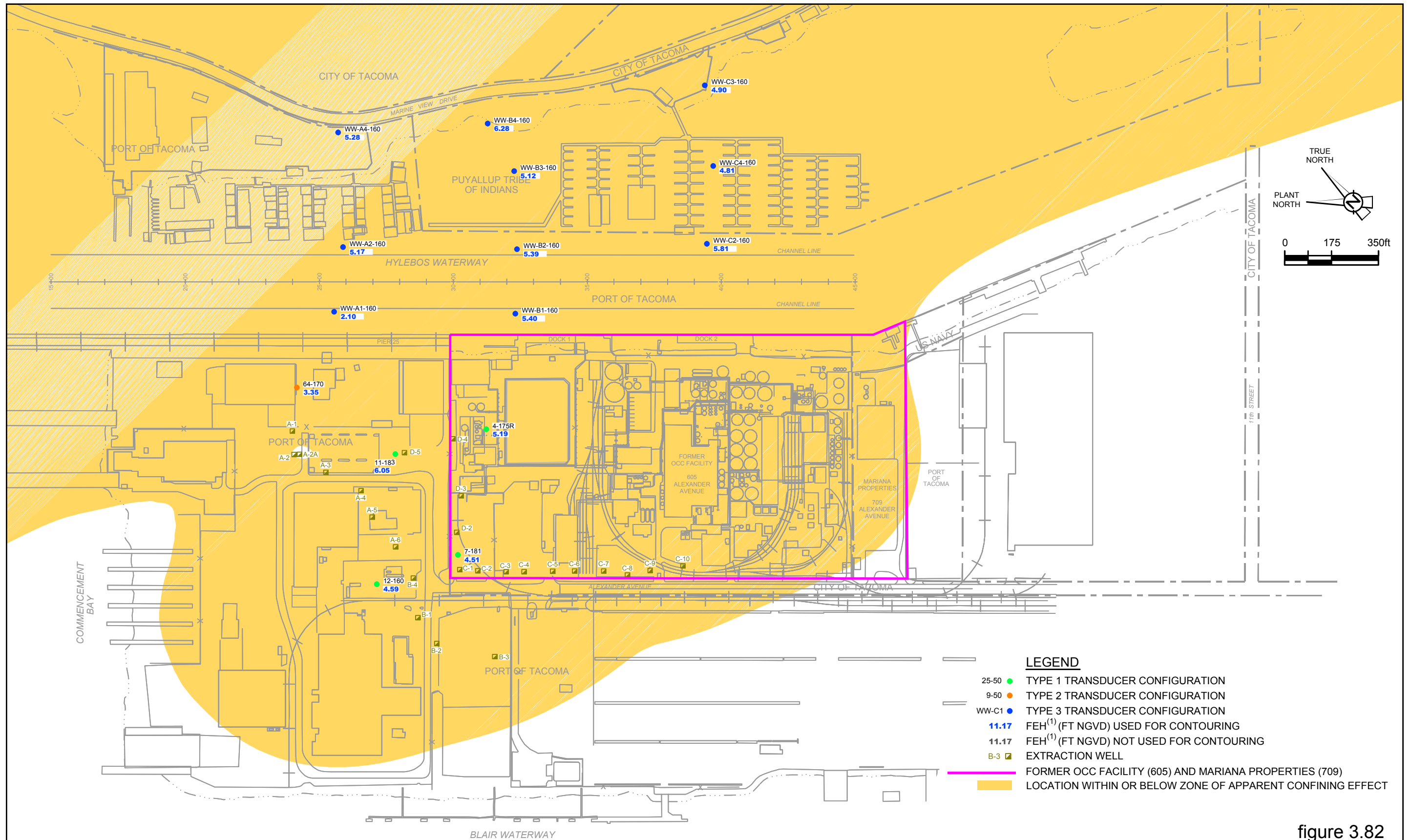
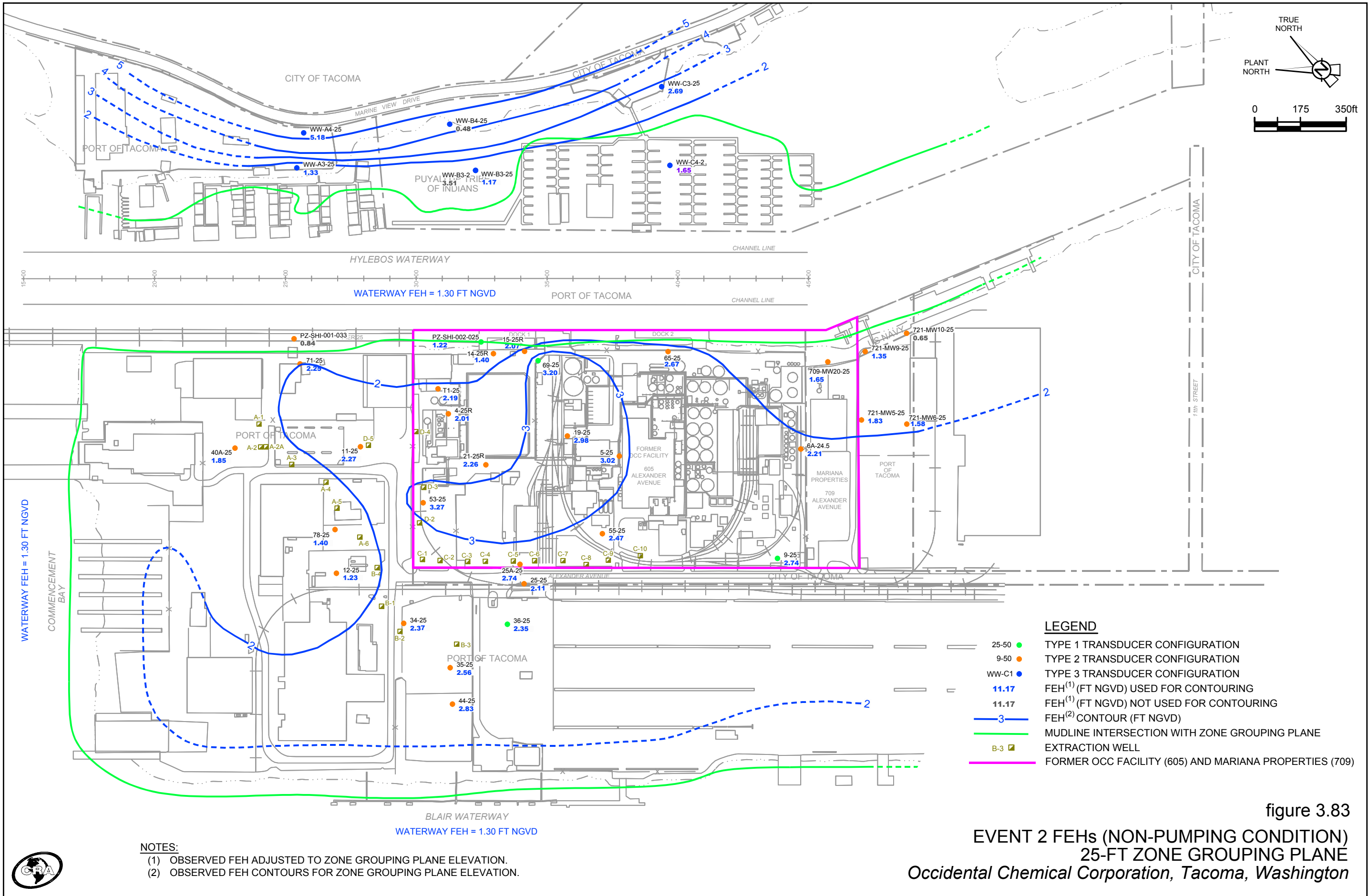
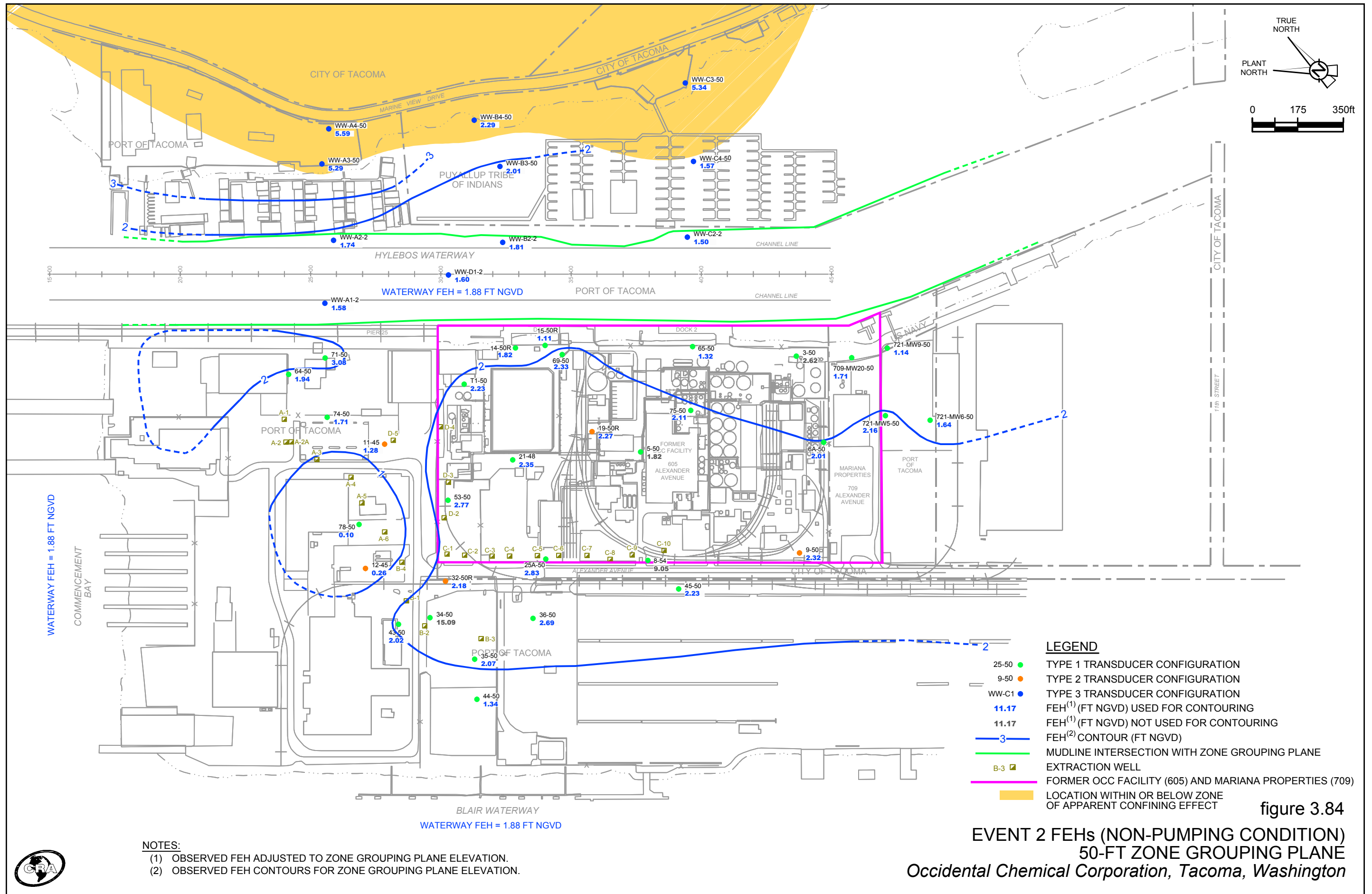


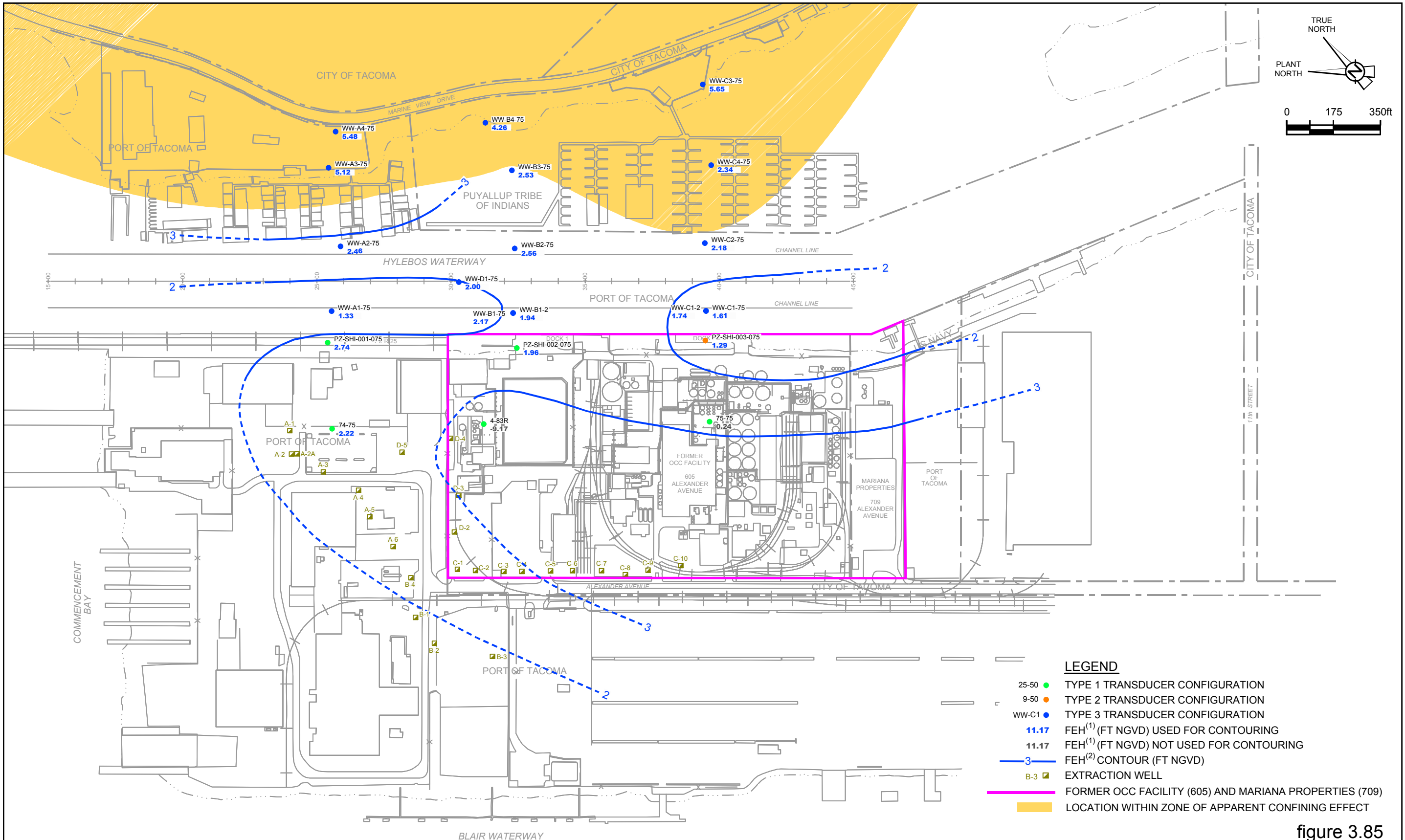
figure 3.82
 EVENT 1 FEHs (PUMPING CONDITION)
 160-FT ZONE GROUPING PLANE
 Occidental Chemical Corporation, Tacoma, Washington

NOTE:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.







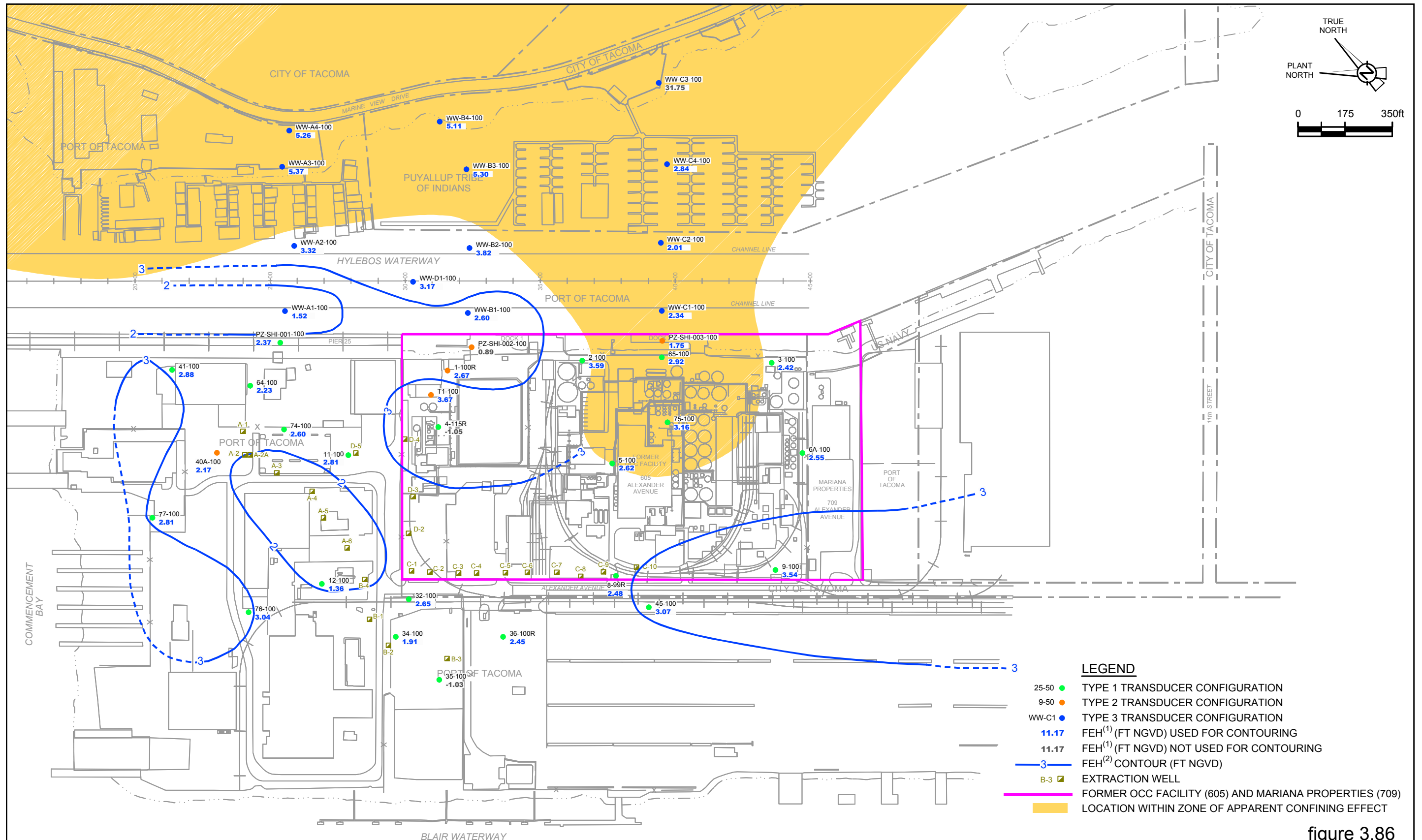


NOTES:

- (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.
- (2) OBSERVED FEH CONTOURS FOR ZONE GROUPING PLANE ELEVATION.

figure 3.85
EVENT 2 FEHs (NON-PUMPING CONDITION)
75-FT ZONE GROUPING PLANE
Occidental Chemical Corporation, Tacoma, Washington



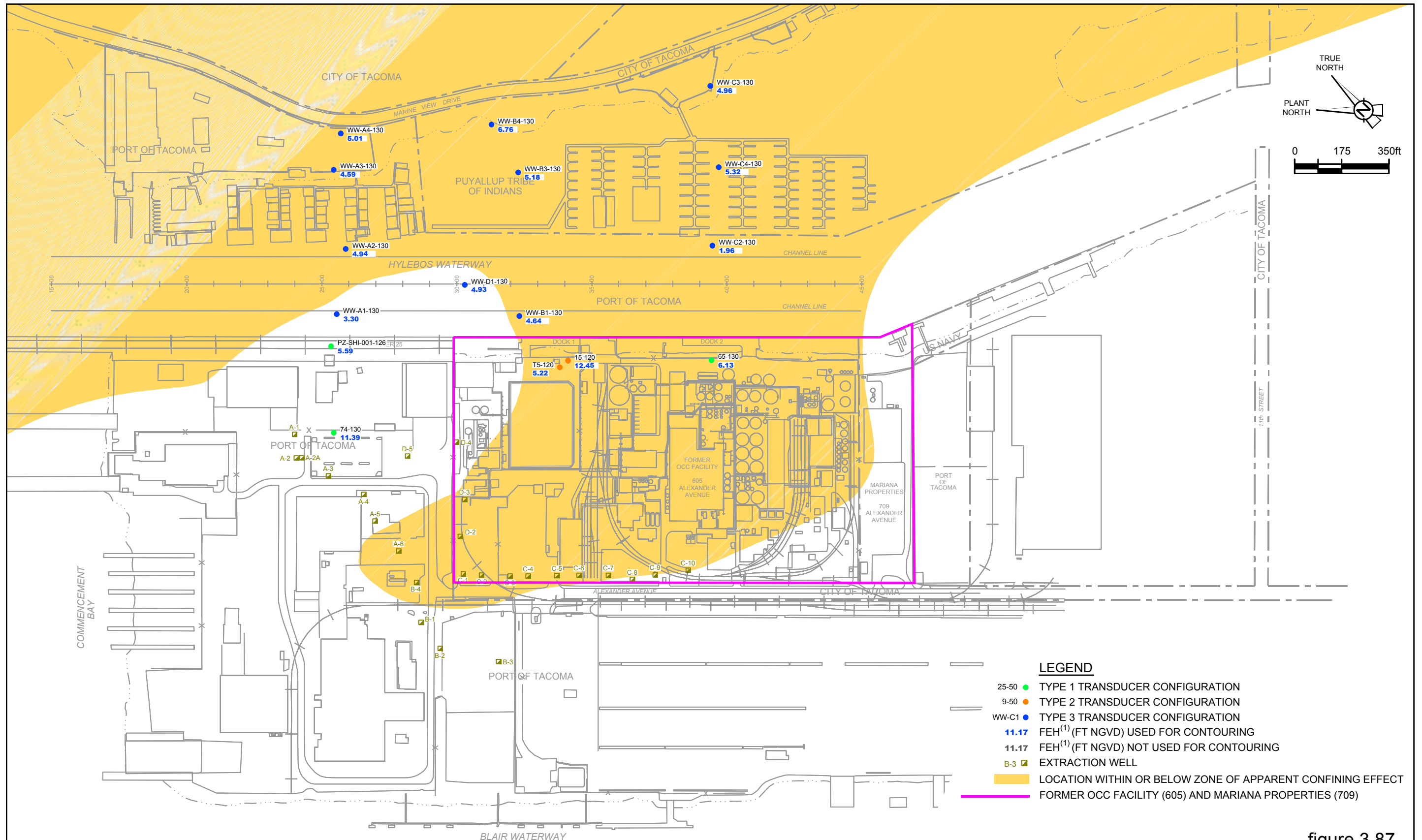


NOTES:

- (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.
- (2) OBSERVED FEH CONTOURS FOR ZONE GROUPING PLANE ELEVATION.

figure 3.86
EVENT 2 FEHs (NON-PUMPING CONDITION)
100-FT ZONE GROUPING PLANE
Occidental Chemical Corporation, Tacoma, Washington

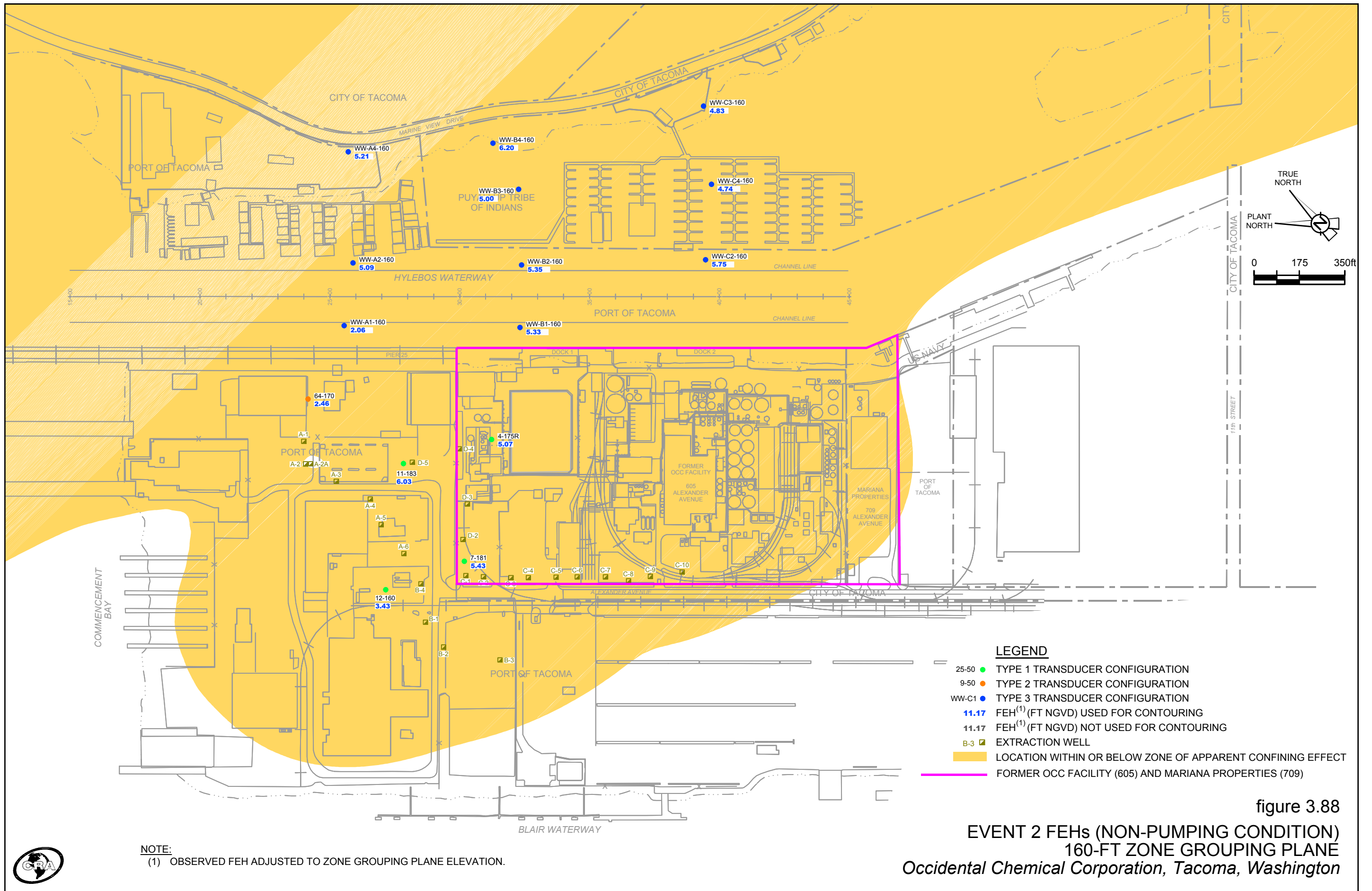


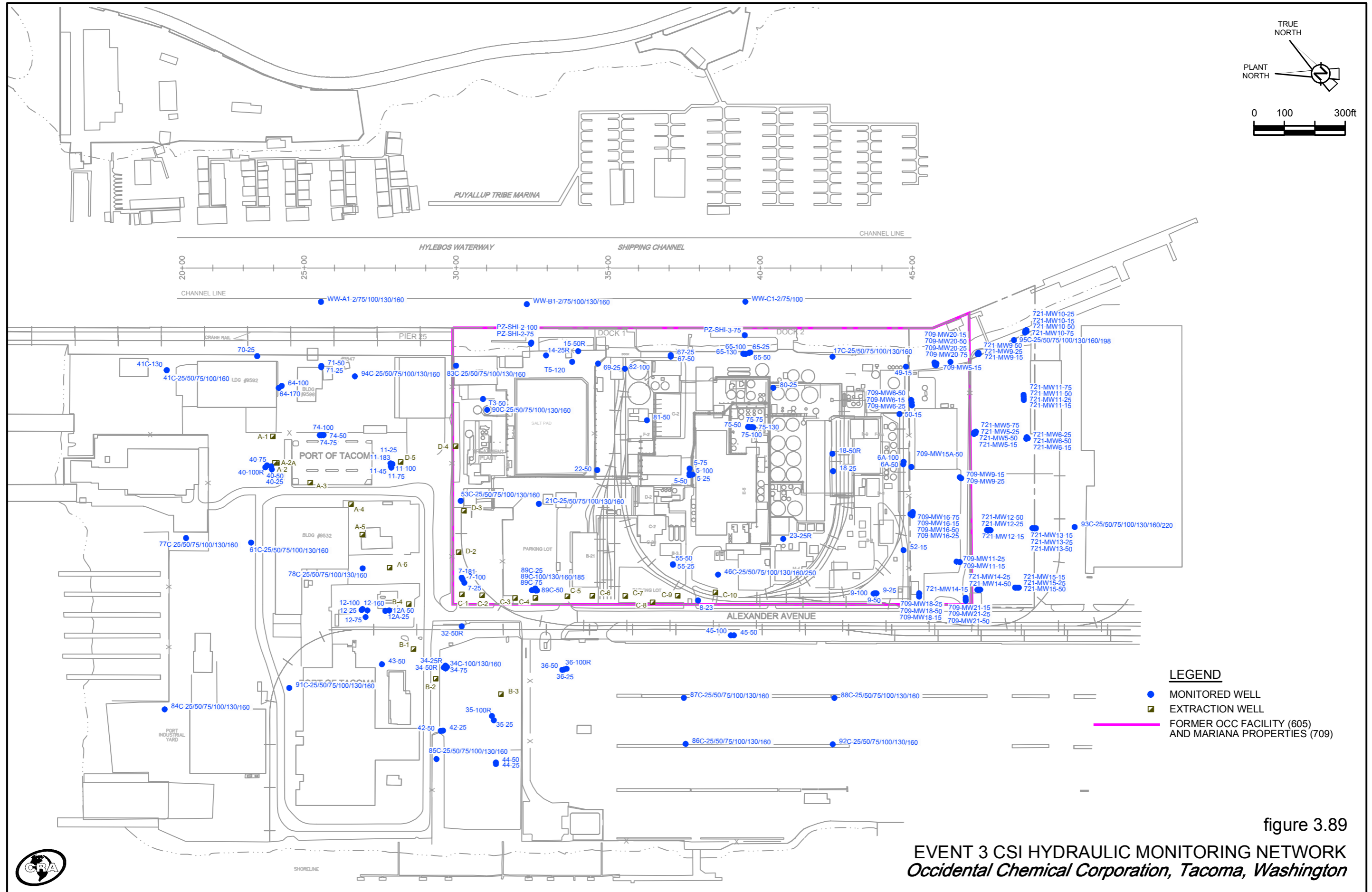


NOTE:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.

figure 3.87
 EVENT 2 FEHs (NON-PUMPING CONDITION)
 130-FT ZONE GROUPING PLANE
 Occidental Chemical Corporation, Tacoma, Washington







- LEGEND**
- MONITORED WELL
 - EXTRACTION WELL
 - FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)

figure 3.89
EVENT 3 CSI HYDRAULIC MONITORING NETWORK
Occidental Chemical Corporation, Tacoma, Washington



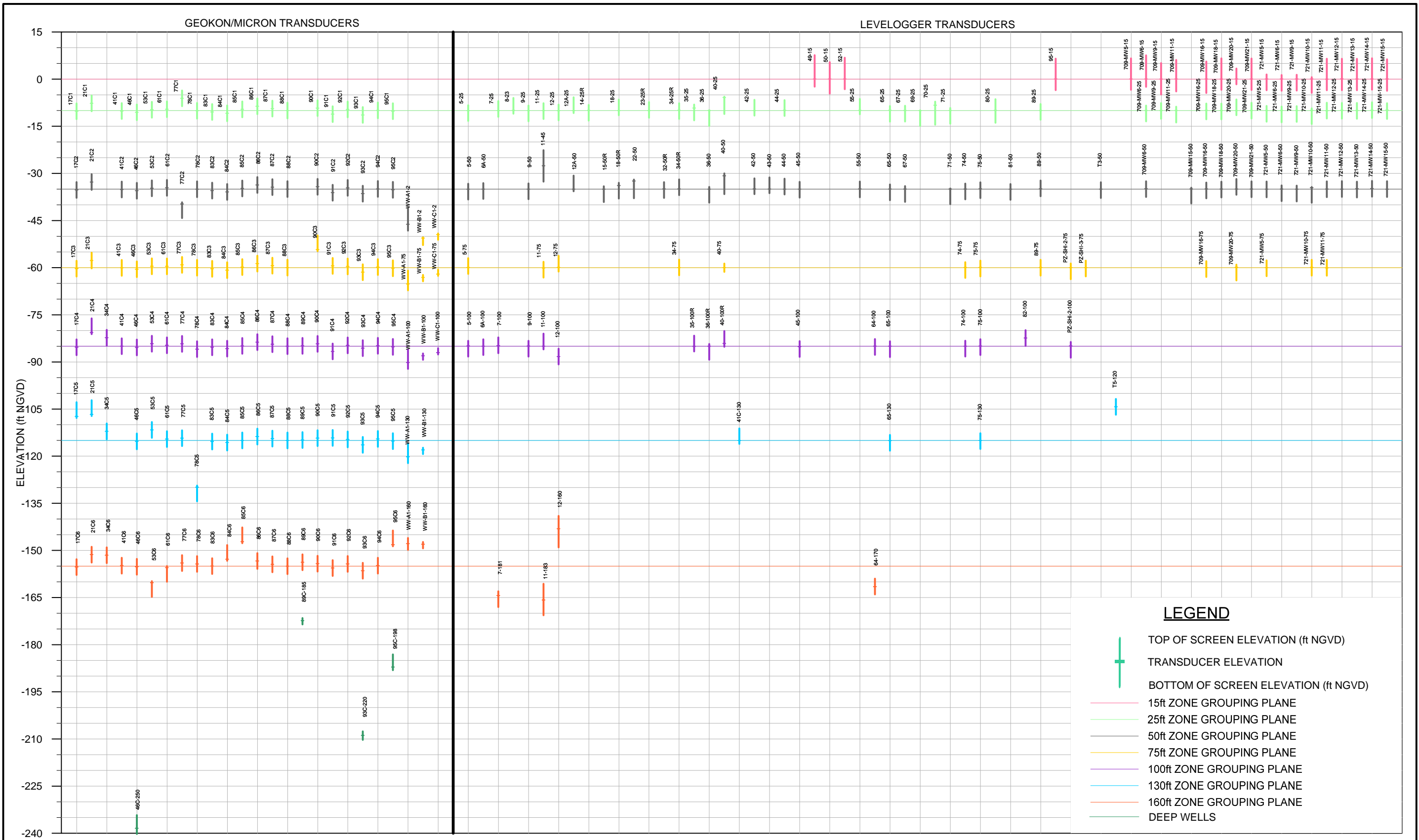


figure 3.90

EVENT 3 MONITORING WELL SCREEN INTERVALS BY ZONE
Occidental Chemical Corporation, Tacoma, Washington



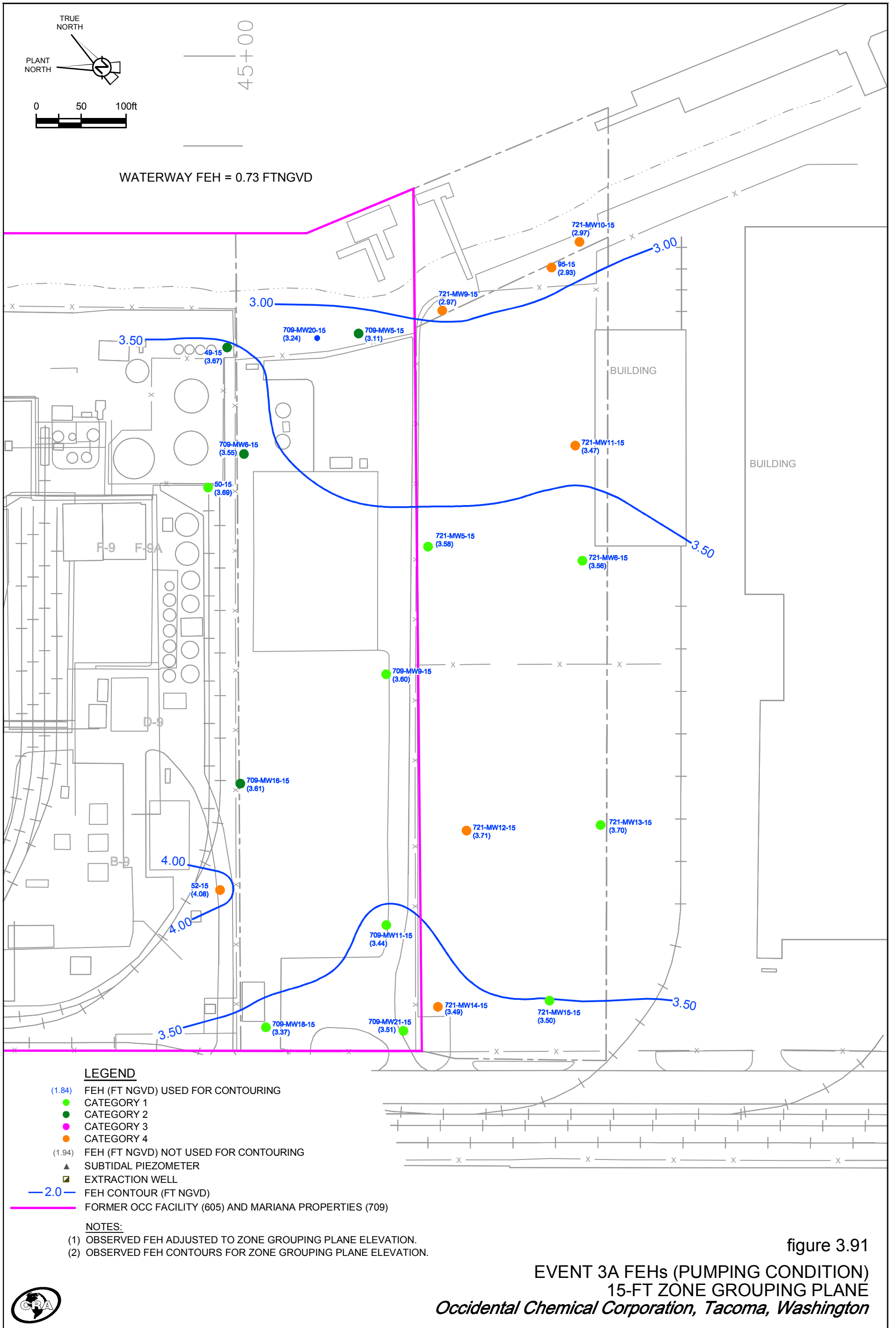
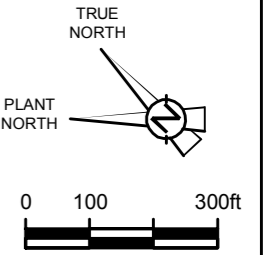
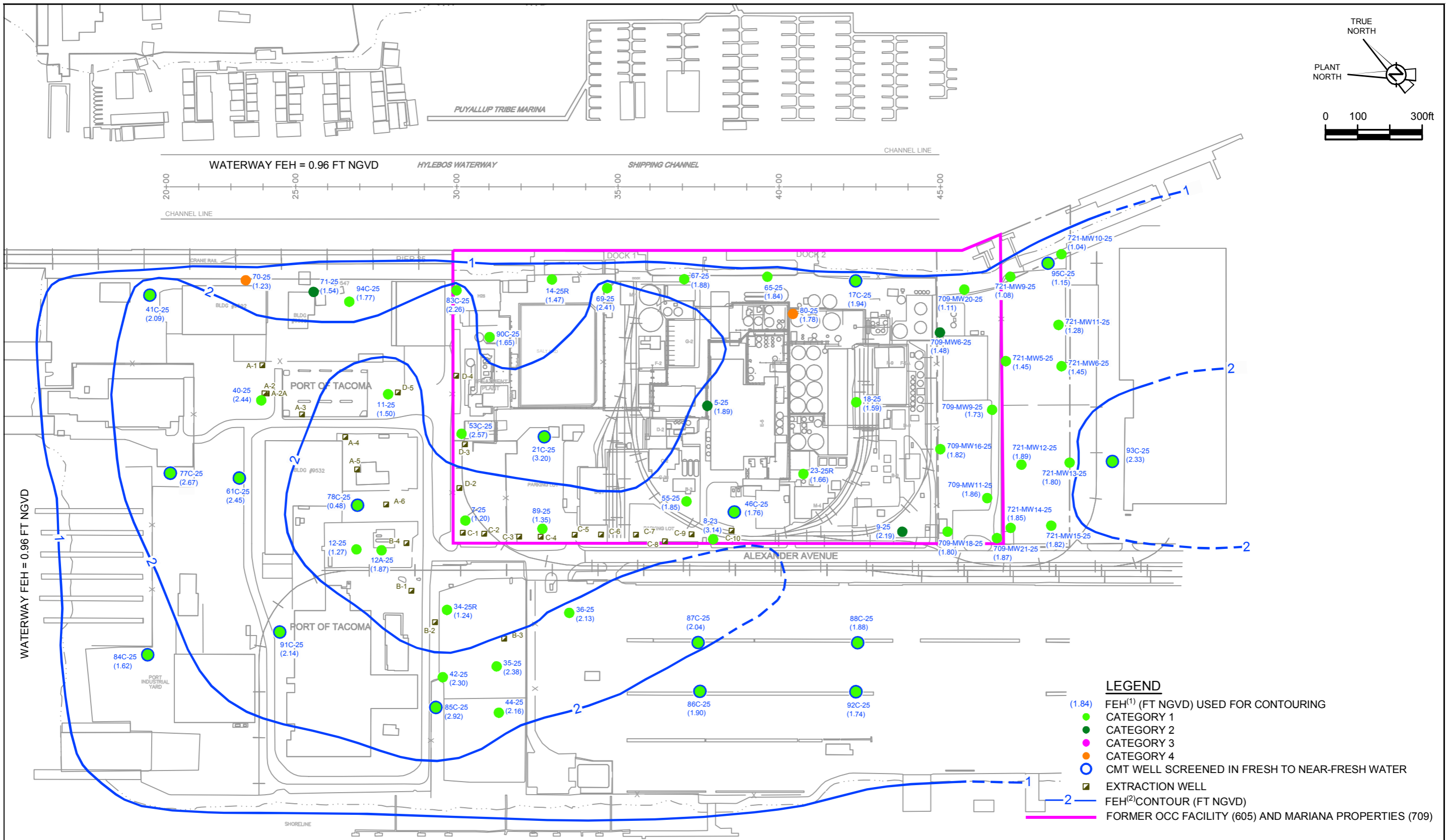


figure 3.91

EVENT 3A FEHs (PUMPING CONDITION)
15-FT ZONE GROUPING PLANE
Occidental Chemical Corporation, Tacoma, Washington



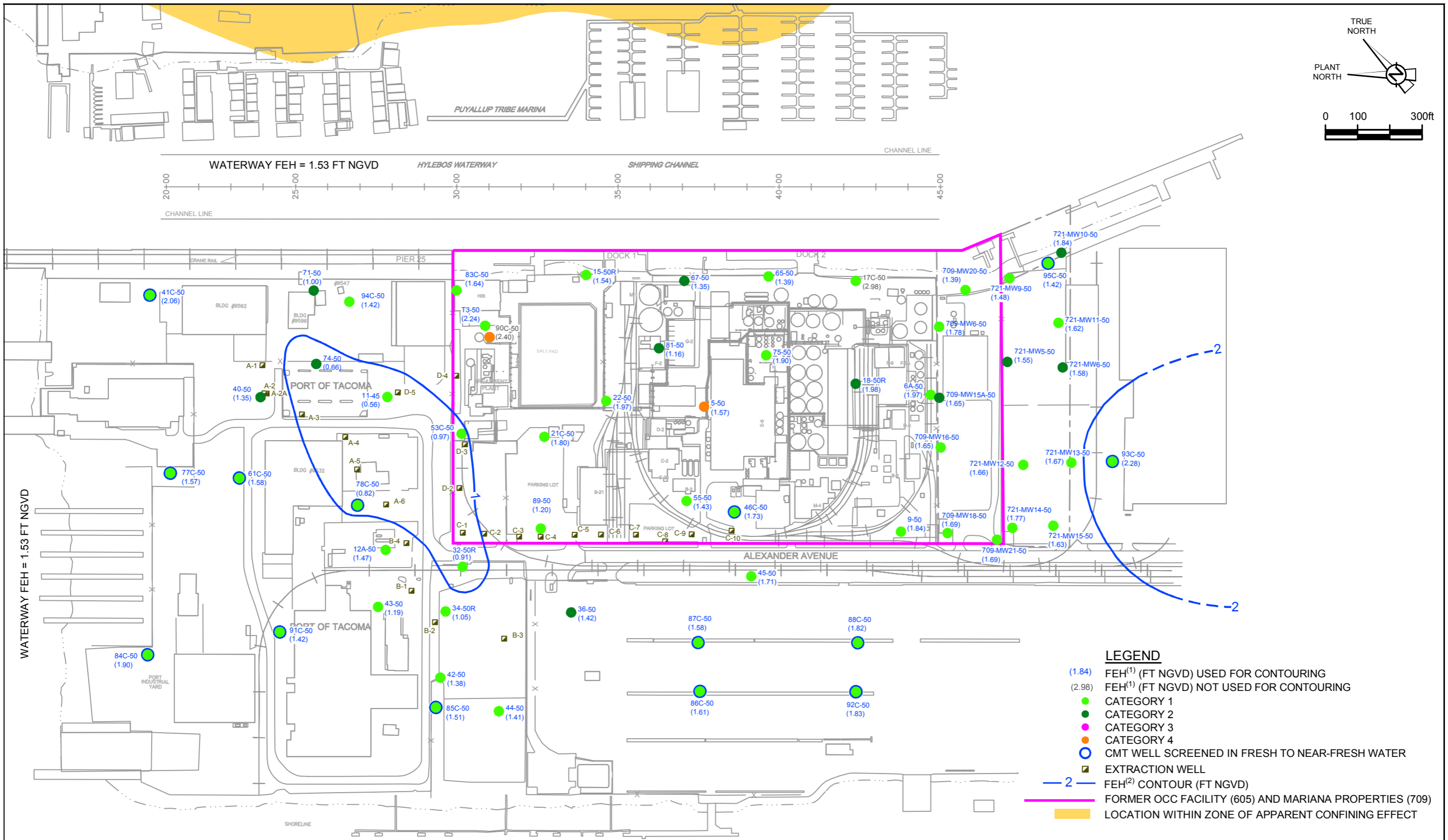


- LEGEND**
- (1.84) FEH⁽¹⁾ (FT NGVD) USED FOR CONTOURING
 - CATEGORY 1
 - CATEGORY 2
 - CATEGORY 3
 - CATEGORY 4
 - CMT WELL SCREENED IN FRESH TO NEAR-FRESH WATER
 - EXTRACTION WELL
 - 1— FEH⁽²⁾ CONTOUR (FT NGVD)
 - 2— FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)

NOTES:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.
 (2) OBSERVED FEH CONTOURS FOR ZONE GROUPING PLANE ELEVATION.

figure 3.92
 EVENT 3A FEHs (PUMPING CONDITION)
 25-FT ZONE GROUPING PLANE
Occidental Chemical Corporation, Tacoma, Washington



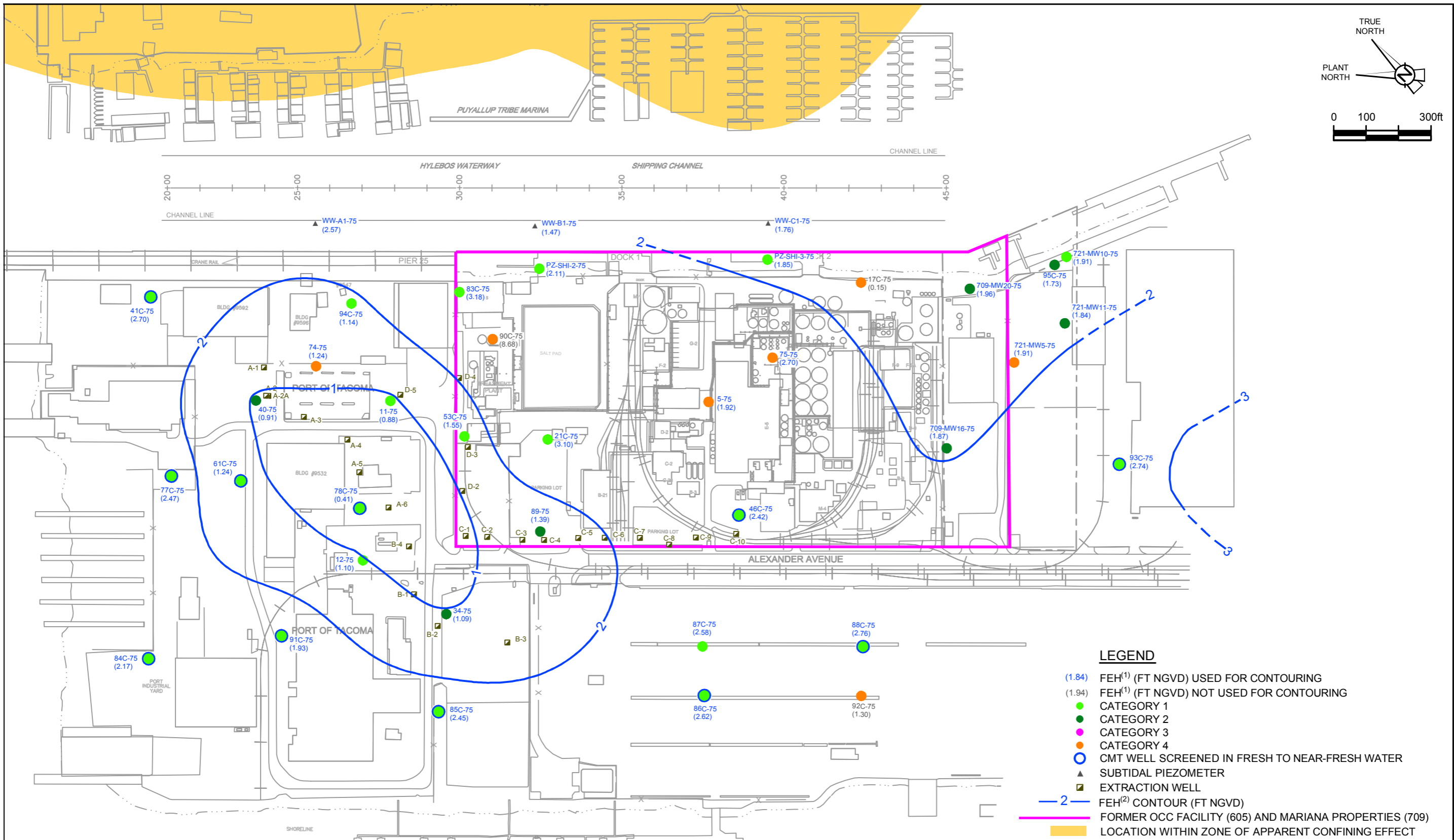


- LEGEND**
- (1.84) FEH⁽¹⁾ (FT NGVD) USED FOR CONTOURING
 - (2.98) FEH⁽¹⁾ (FT NGVD) NOT USED FOR CONTOURING
 - CATEGORY 1
 - CATEGORY 2
 - CATEGORY 3
 - CATEGORY 4
 - CMT WELL SCREENED IN FRESH TO NEAR-FRESH WATER
 - EXTRACTION WELL
 - 2- FEH⁽²⁾ CONTOUR (FT NGVD)
 - FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)
 - LOCATION WITHIN ZONE OF APPARENT CONFINING EFFECT

NOTES:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.
 (2) OBSERVED FEH CONTOURS FOR ZONE GROUPING PLANE ELEVATION.

figure 3.93
 EVENT 3A FEHs (PUMPING CONDITION)
 50-FT ZONE GROUPING PLANE
Occidental Chemical Corporation, Tacoma, Washington

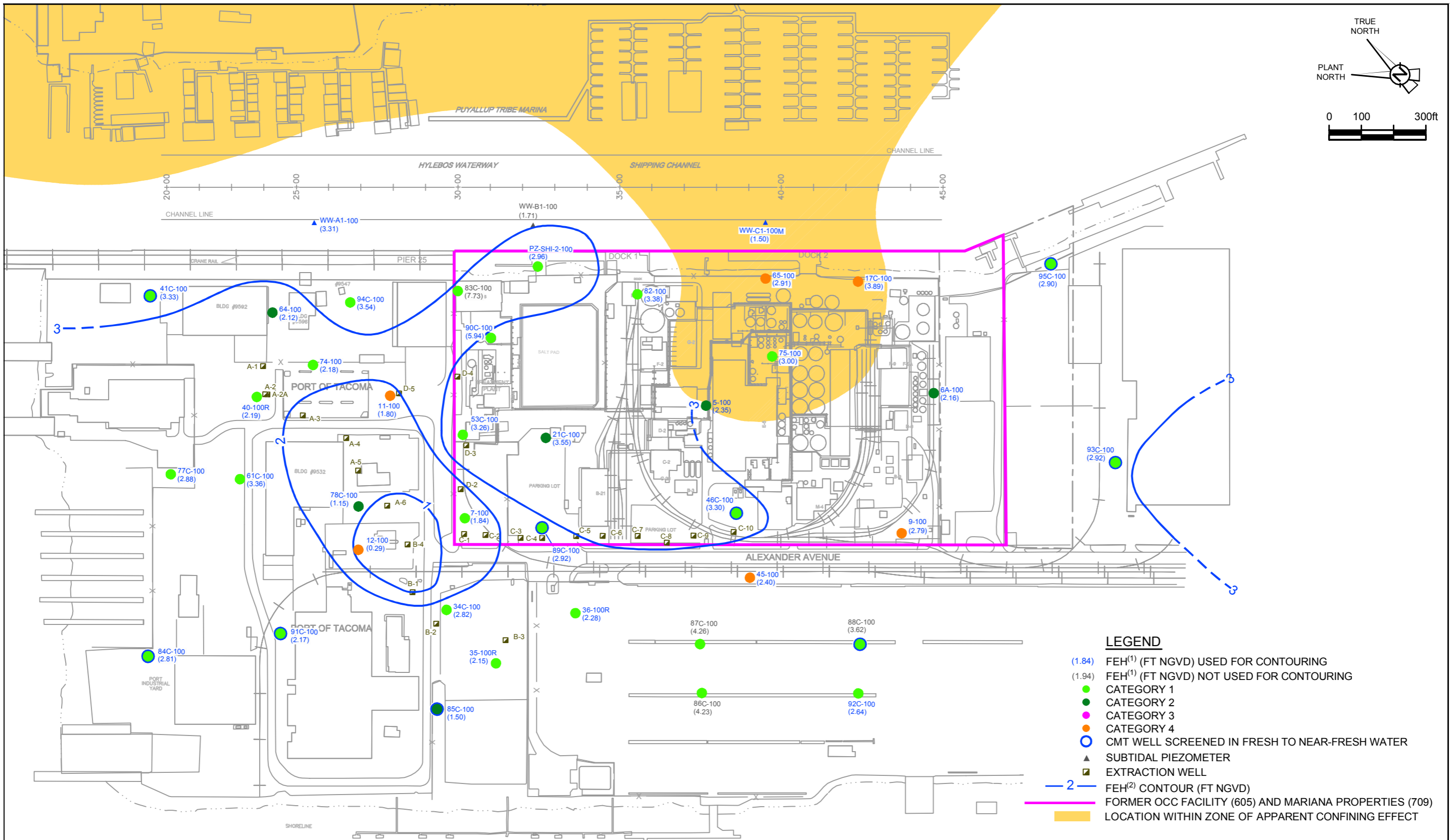




NOTES:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.
 (2) OBSERVED FEH CONTOURS FOR ZONE GROUPING PLANE ELEVATION.

figure 3.94
 EVENT 3A FEHs (PUMPING CONDITION)
 75-FT ZONE GROUPING PLANE
Occidental Chemical Corporation, Tacoma, Washington



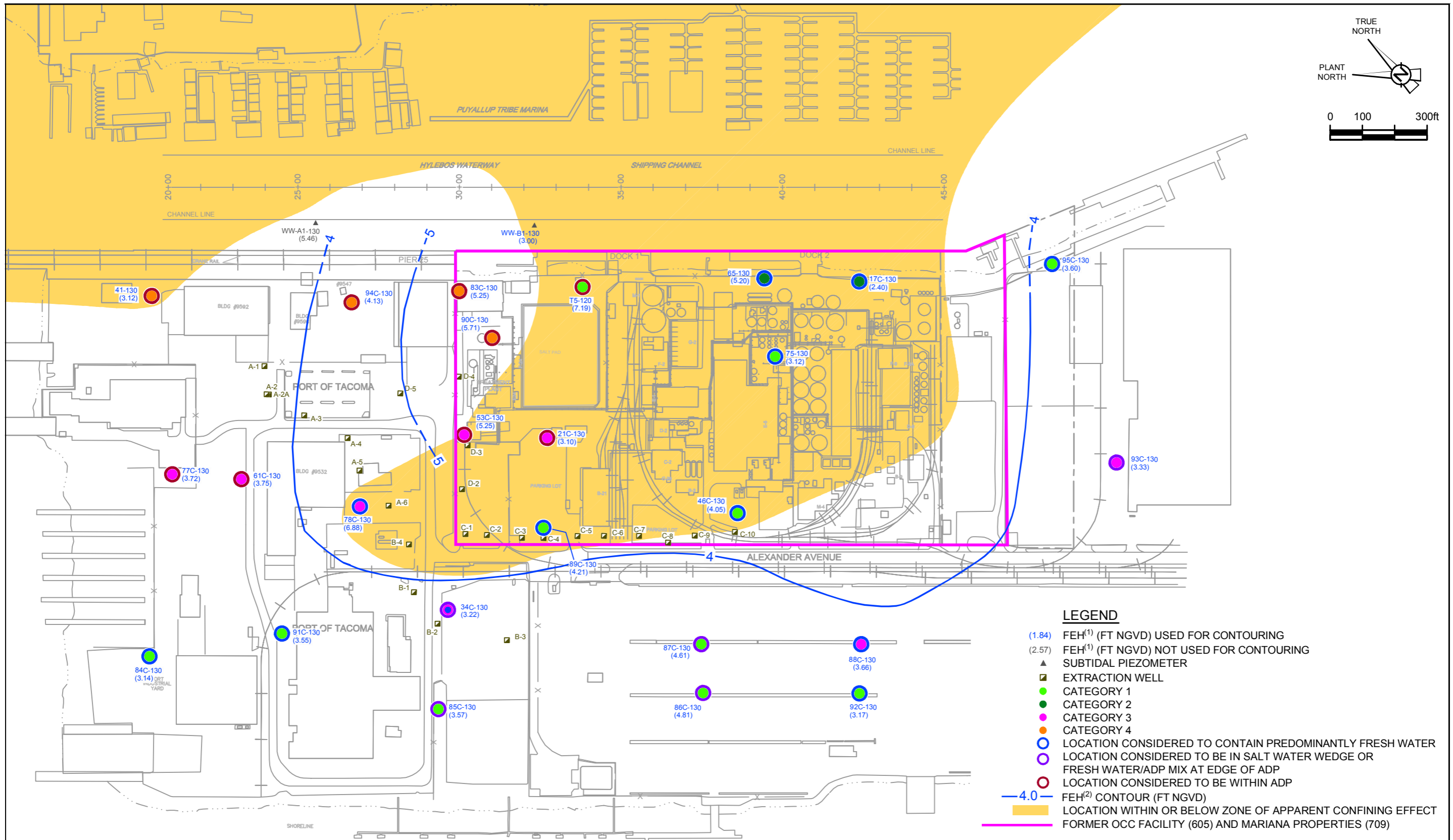


- LEGEND**
- (1.84) FEH⁽¹⁾ (FT NGVD) USED FOR CONTOURING
 - (1.94) FEH⁽¹⁾ (FT NGVD) NOT USED FOR CONTOURING
 - CATEGORY 1
 - CATEGORY 2
 - CATEGORY 3
 - CATEGORY 4
 - CMT WELL SCREENED IN FRESH TO NEAR-FRESH WATER
 - ▲ SUBTIDAL PIEZOMETER
 - EXTRACTION WELL
 - 2 — FEH⁽²⁾ CONTOUR (FT NGVD)
 - — FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)
 - LOCATION WITHIN ZONE OF APPARENT CONFINING EFFECT

NOTES:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION
 (2) OBSERVED FEH CONTOURS FOR ZONE GROUPING PLANE ELEVATION

figure 3.95
 EVENT 3A FEHs (PUMPING CONDITION)
 100-FT ZONE GROUPING PLANE
Occidental Chemical Corporation, Tacoma, Washington





NOTES:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION
 (2) OBSERVED FEH CONTOURS FOR ZONE GROUPING PLANE ELEVATION

figure 3.96
 EVENT 3A FEHs (PUMPING CONDITION)
 130-FT ZONE GROUPING PLANE
Occidental Chemical Corporation, Tacoma, Washington



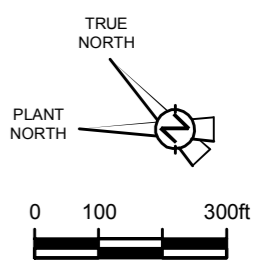
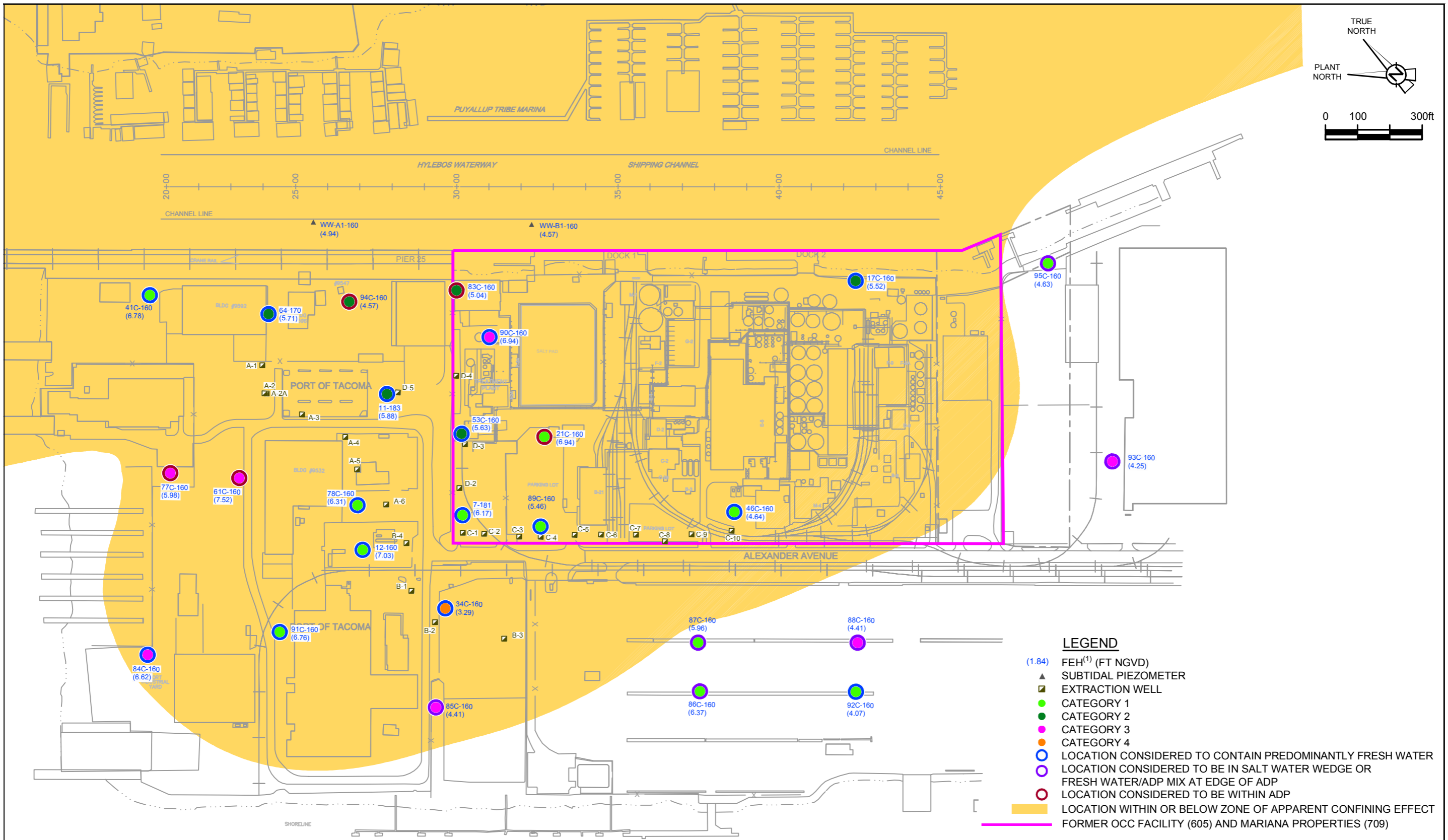
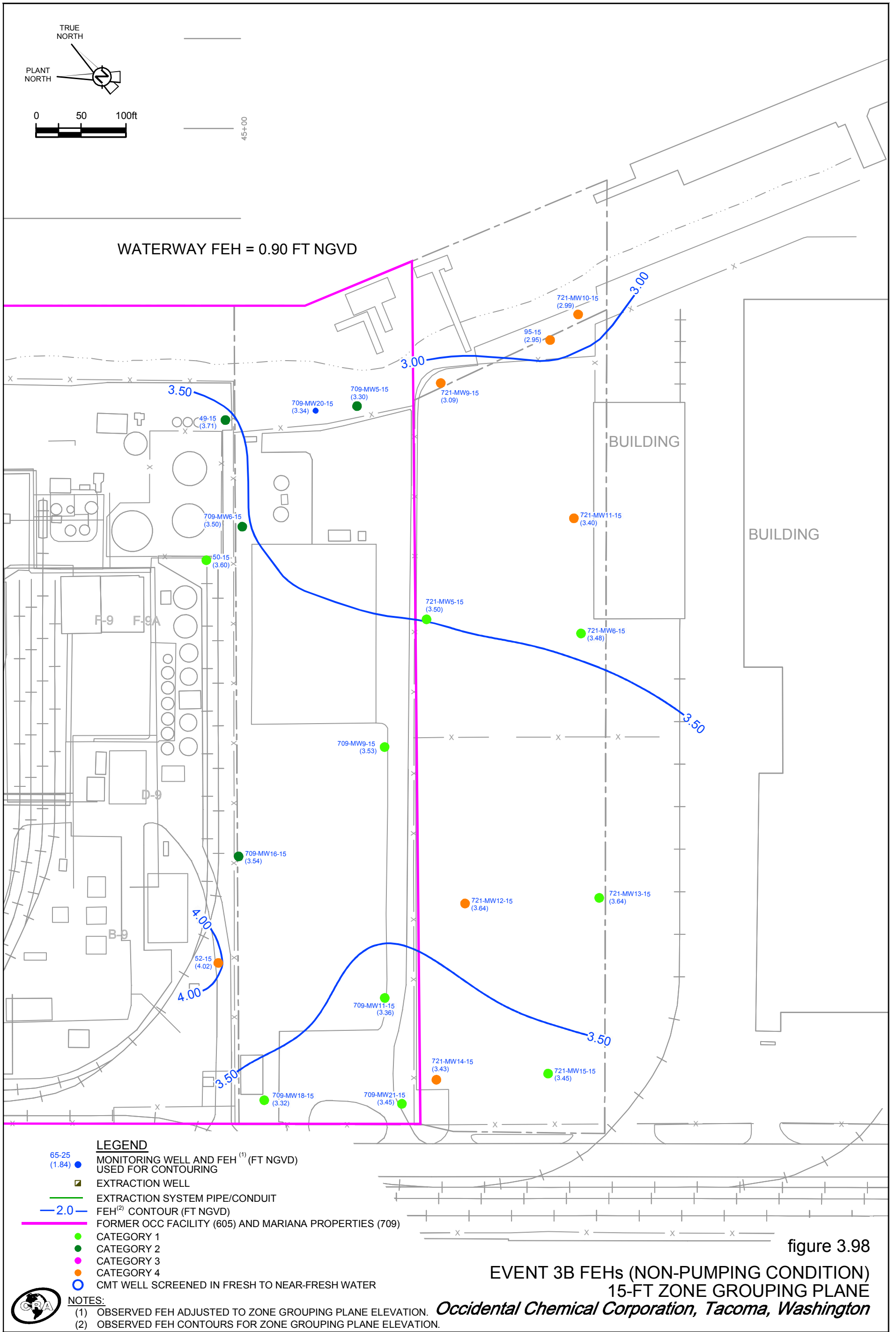


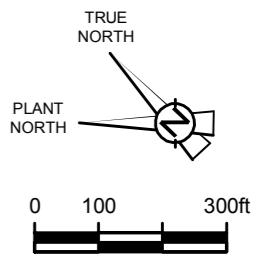
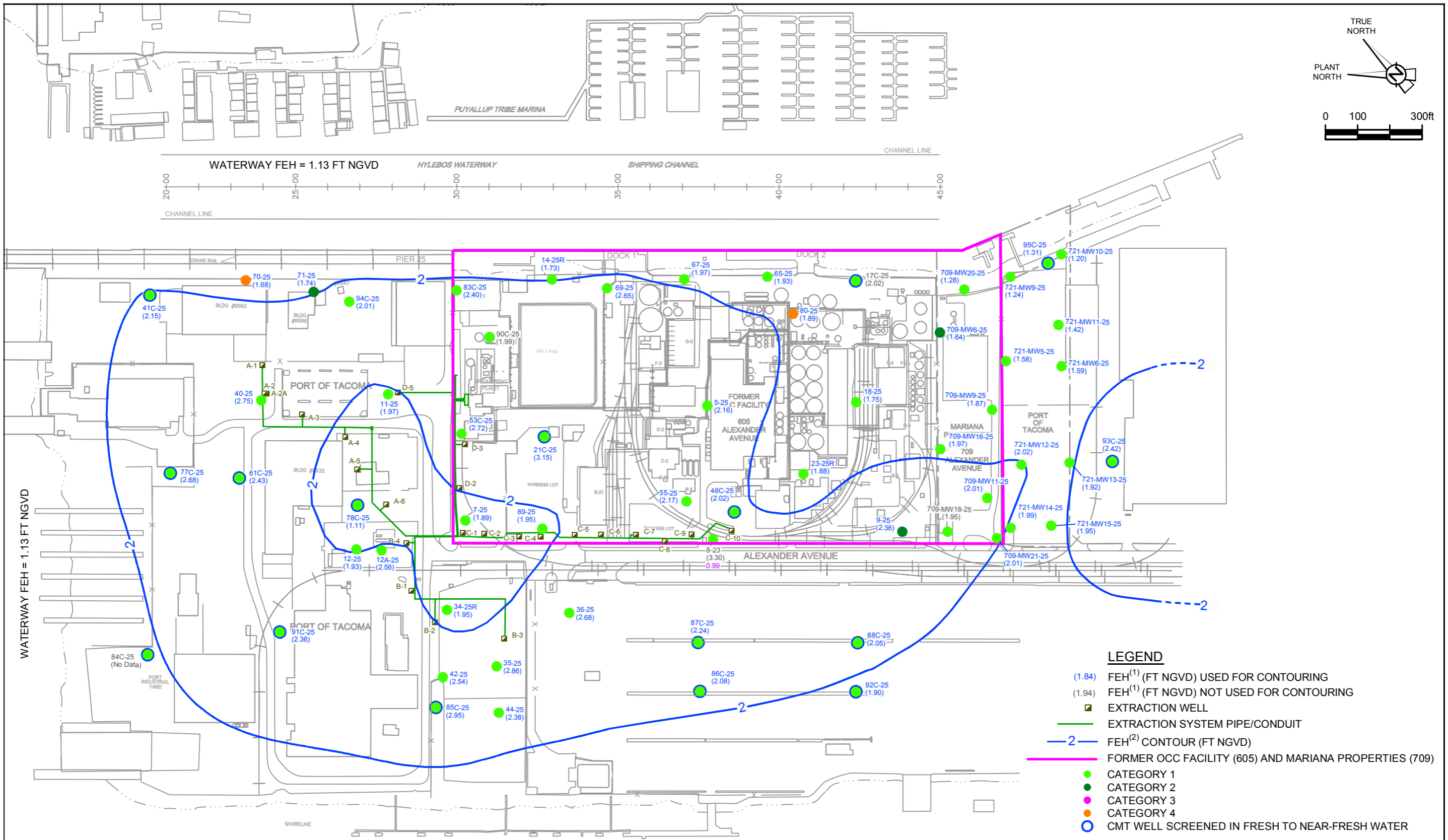
figure 3.97

EVENT 3A FEHs (PUMPING CONDITION)
160-FT ZONE GROUPING PLANE
Occidental Chemical Corporation, Tacoma, Washington



NOTE:
(1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION





NOTES:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.
 (2) OBSERVED FEH CONTOURS FOR ZONE GROUPING PLANE ELEVATION.

figure 3.99
 EVENT 3B FEHs (NON-PUMPING CONDITION)
 25-FT ZONE GROUPING PLANE
Occidental Chemical Corporation, Tacoma, Washington



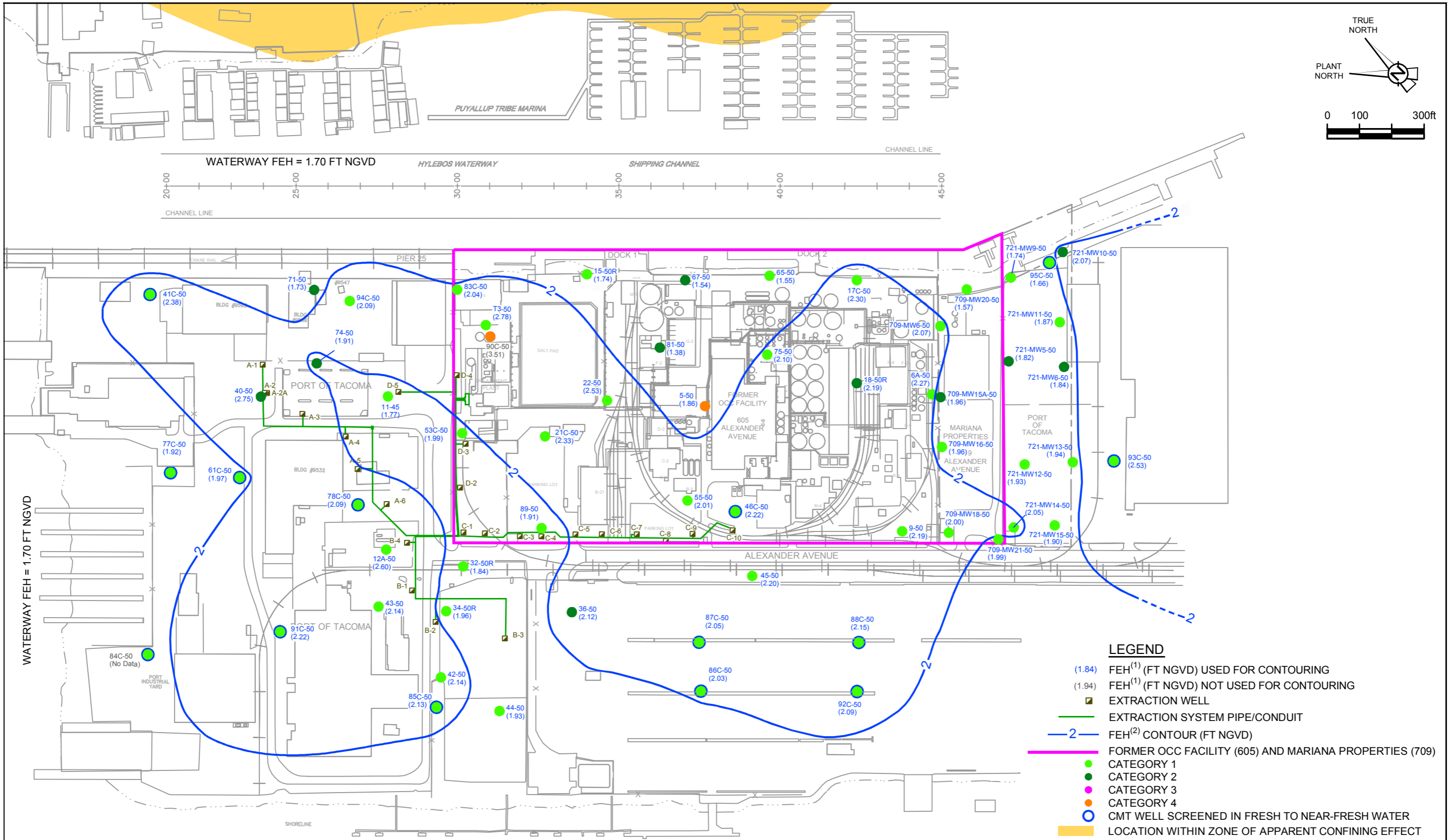
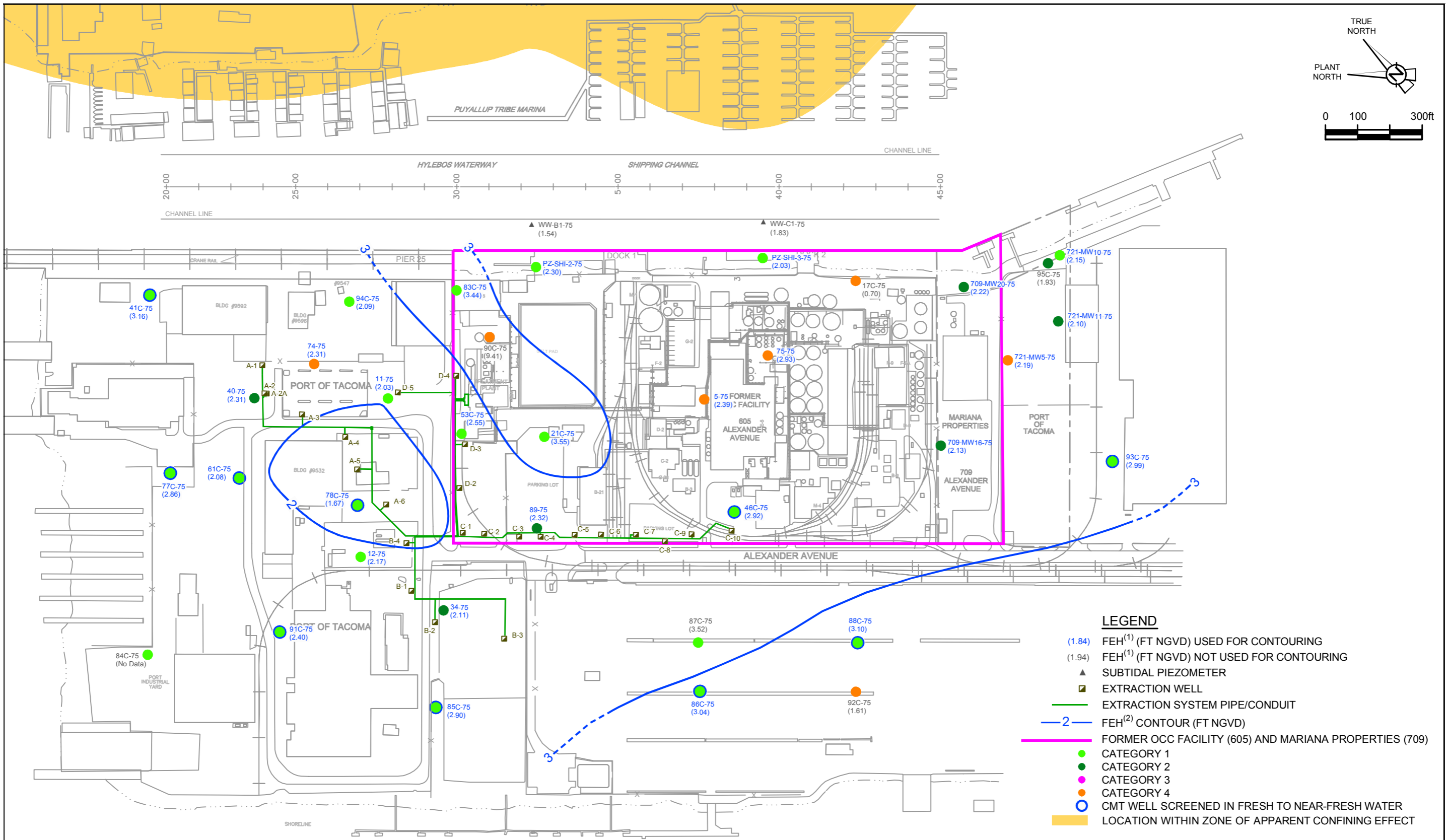


figure 3.100
 EVENT 3B FEHs (NON-PUMPING CONDITION)
 50-FT ZONE GROUPING PLANE
Occidental Chemical Corporation, Tacoma, Washington

NOTES:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.
 (2) OBSERVED FEH CONTOURS FOR ZONE GROUPING PLANE ELEVATION.

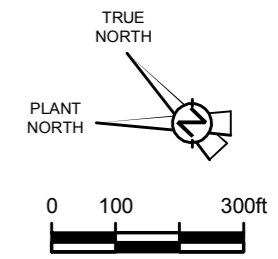
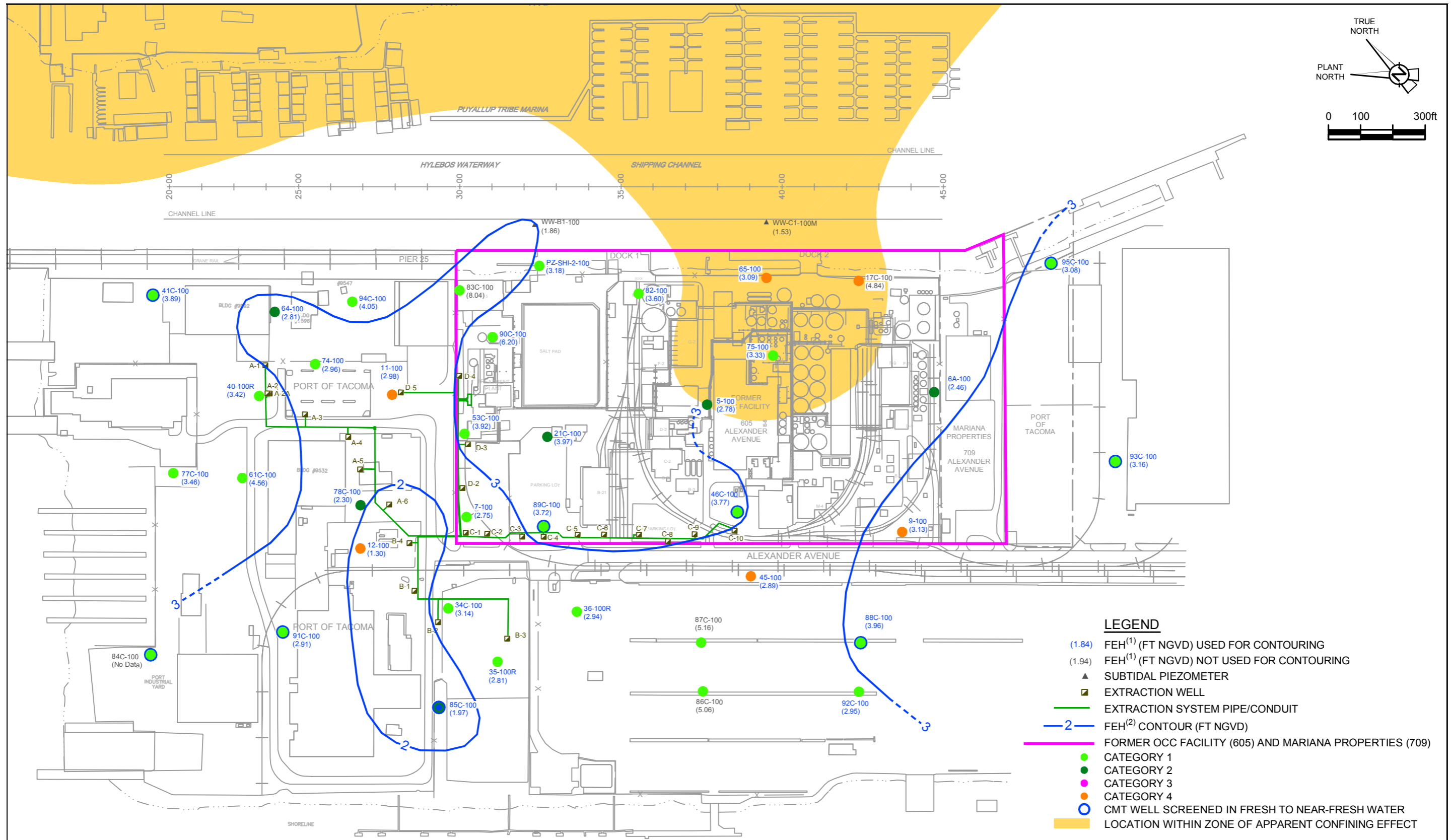




NOTES:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.
 (2) OBSERVED FEH CONTOURS FOR ZONE GROUPING PLANE ELEVATION.

figure 3.101
 EVENT 3B FEHs (NON-PUMPING CONDITION)
 75-FT ZONE GROUPING PLANE
Occidental Chemical Corporation, Tacoma, Washington



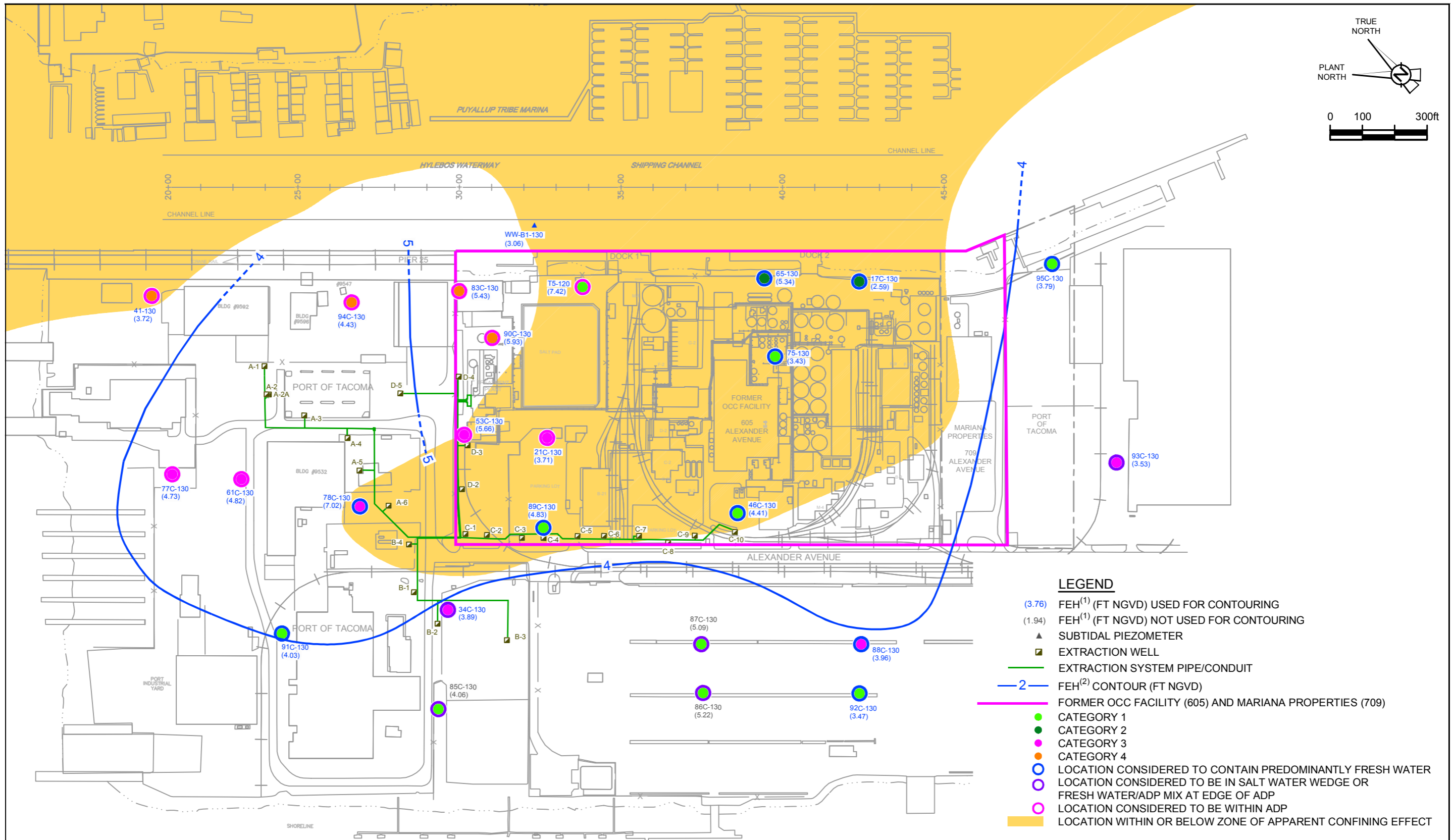


- LEGEND**
- (1.84) FEH⁽¹⁾ (FT NGVD) USED FOR CONTOURING
 - (1.94) FEH⁽¹⁾ (FT NGVD) NOT USED FOR CONTOURING
 - ▲ SUBTIDAL PIEZOMETER
 - EXTRACTION WELL
 - EXTRACTION SYSTEM PIPE/CONDUIT
 - 2— FEH⁽²⁾ CONTOUR (FT NGVD)
 - FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)
 - CATEGORY 1
 - CATEGORY 2
 - CATEGORY 3
 - CATEGORY 4
 - CMT WELL SCREENED IN FRESH TO NEAR-FRESH WATER
 - LOCATION WITHIN ZONE OF APPARENT CONFINING EFFECT

NOTES:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.
 (2) OBSERVED FEH CONTOURS FOR ZONE GROUPING PLANE ELEVATION.

figure 3.102
 EVENT 3B FEHs (NON-PUMPING CONDITION)
 100-FT ZONE GROUPING ZONE
Occidental Chemical Corporation, Tacoma, Washington

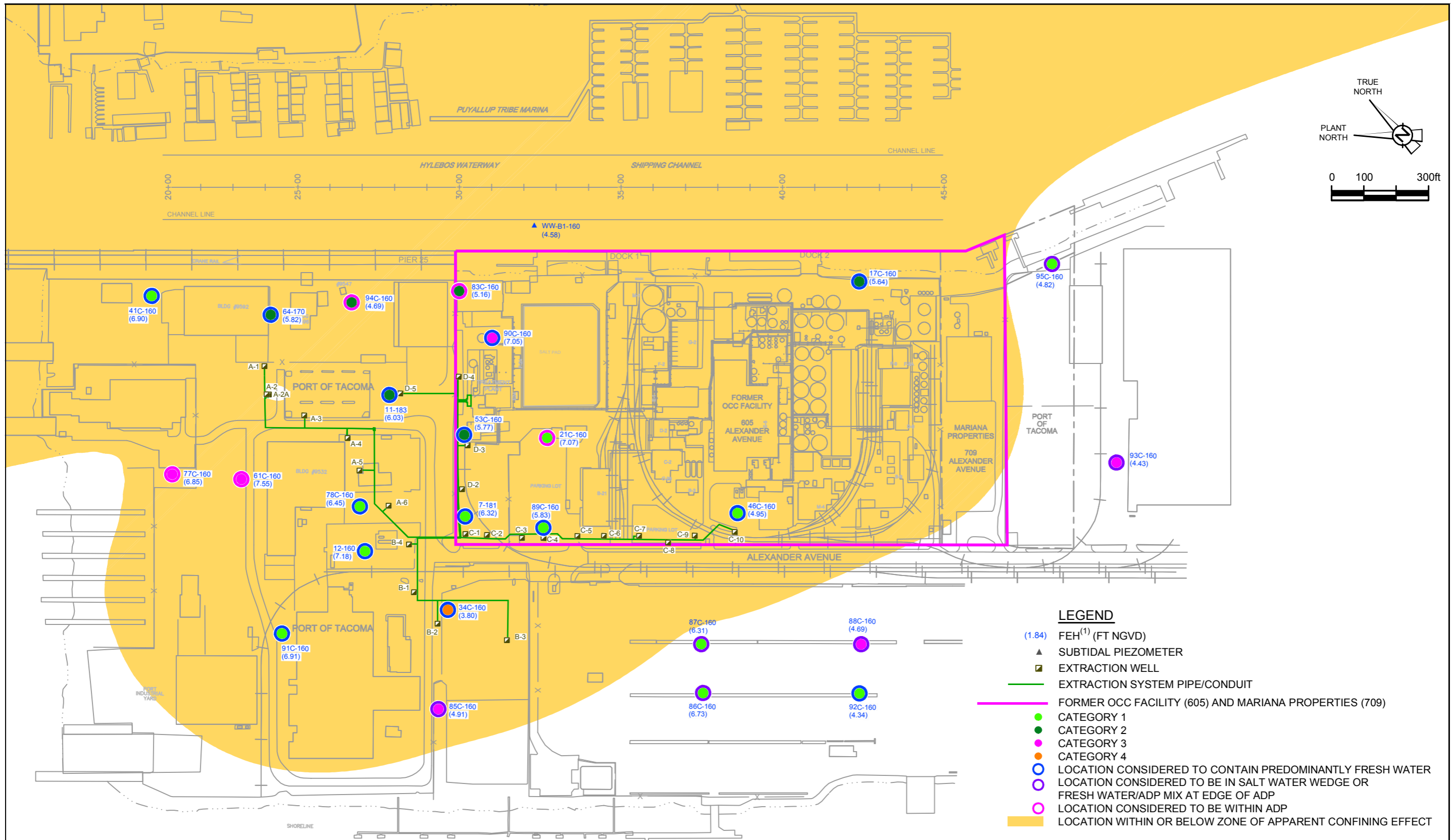




NOTES:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.
 (2) OBSERVED FEH CONTOURS FOR ZONE GROUPING PLANE ELEVATION.

figure 3.103
 EVENT 3B FEHs (NON-PUMPING CONDITION)
 130-FT ZONE GROUPING PLANE
Occidental Chemical Corporation, Tacoma, Washington

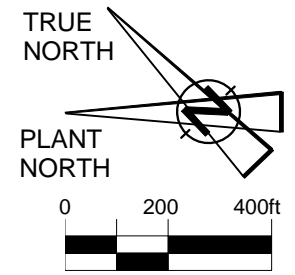
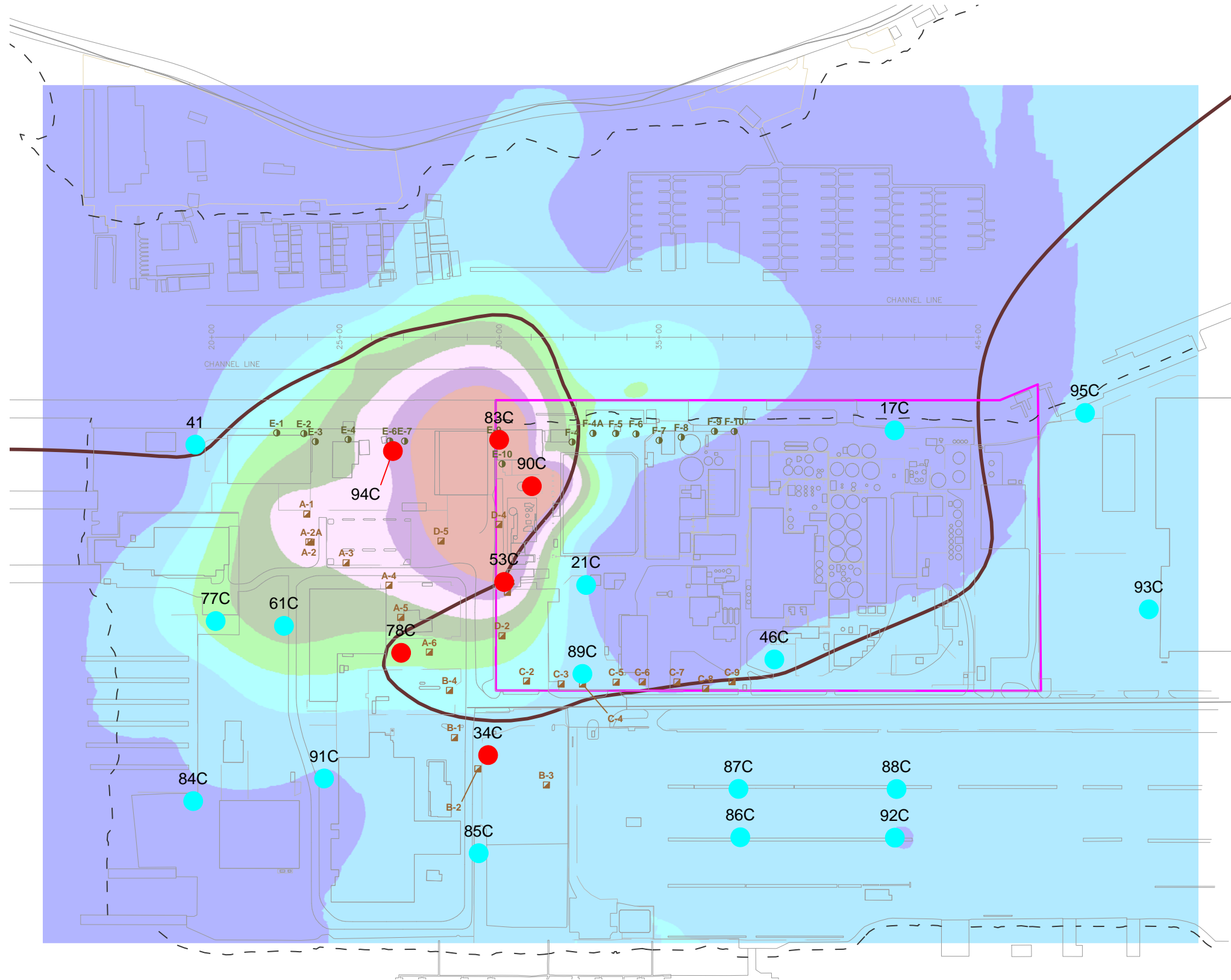




NOTE:
 (1) OBSERVED FEH ADJUSTED TO ZONE GROUPING PLANE ELEVATION.

figure 3.104
 EVENT 3B FEHs (NON-PUMPING CONDITION)
 160-FT ZONE GROUPING PLANE
Occidental Chemical Corporation, Tacoma, Washington





LEGEND

- FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)
- 130-FT ZONE INTERSECTION WITH ZONE OF APPARENT CONFINING EFFECT
- OBSERVED UPWARD VERTICAL HYDRAULIC GRADIENT
- OBSERVED DOWNWARD VERTICAL HYDRAULIC GRADIENT
- F-3 INJECTION WELL
- F-9 EXTRACTION WELL

ANTHROPOGENIC DENSITY PLUME

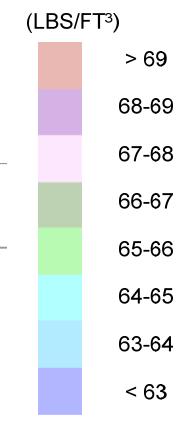
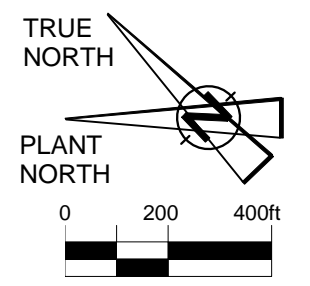
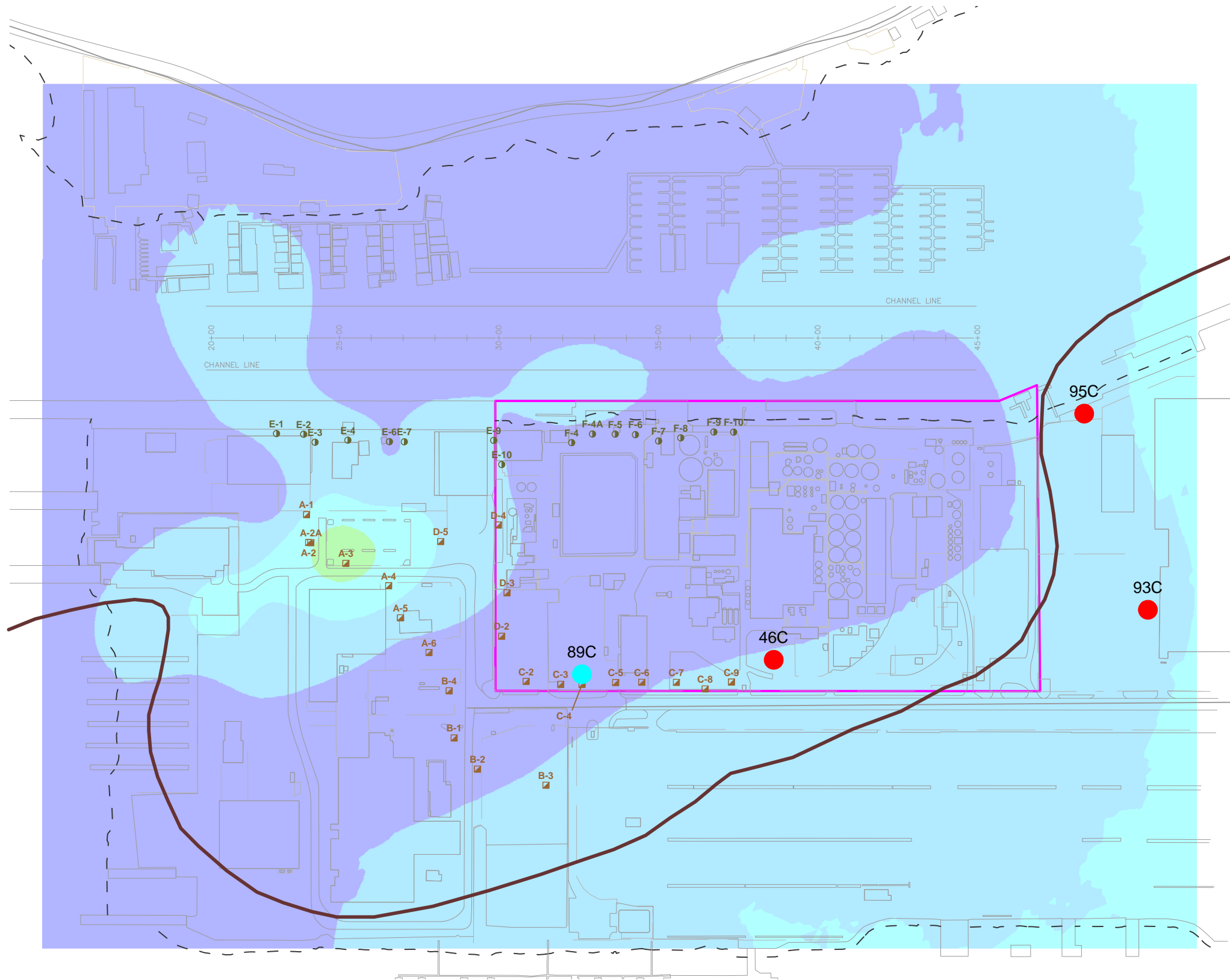


figure 3.105

EVENTS 3A AND 3B VERTICAL HYDRAULIC GRADIENTS FROM 130-FT ZONE TO 160-FT ZONE
Occidental Chemical Corporation, Tacoma, Washington





LEGEND

- FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)
- 160-FT ZONE INTERSECTION WITH ZONE OF APPARENT CONFINING EFFECT
- OBSERVED UPWARD VERTICAL HYDRAULIC GRADIENT
- OBSERVED DOWNWARD VERTICAL HYDRAULIC GRADIENT
- F-3 INJECTION WELL
- F-9 EXTRACTION WELL

ANTHROPOGENIC DENSITY PLUME

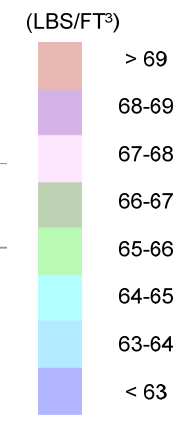
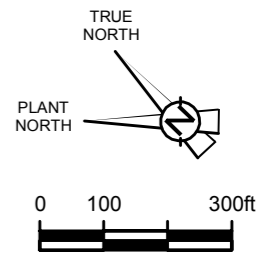
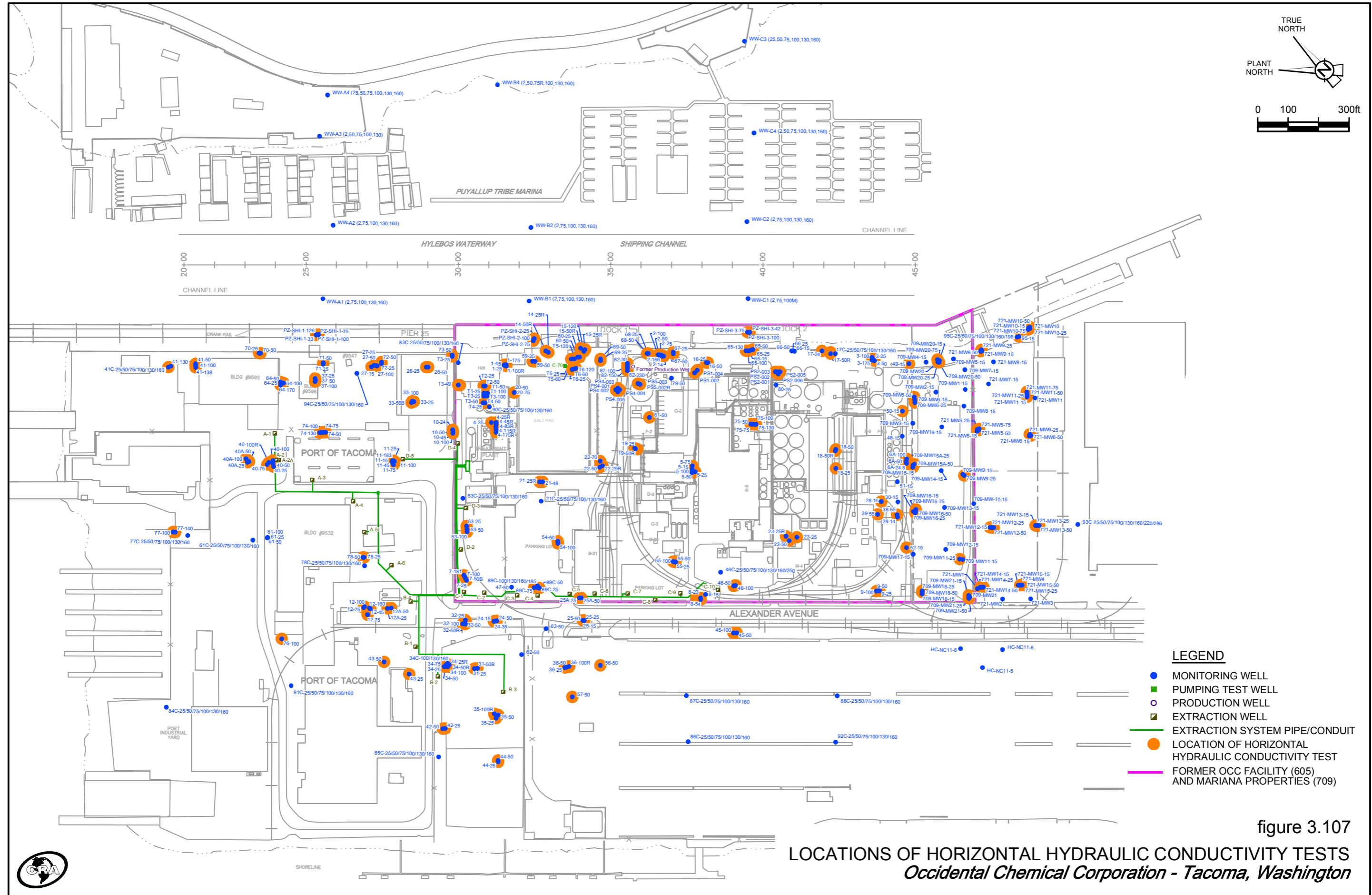


figure 3.106

EVENTS 3A AND 3B VERTICAL HYDRAULIC GRADIENTS FROM 160-FT ZONE TO UNDERLYING ZONE
Occidental Chemical Corporation, Tacoma, Washington

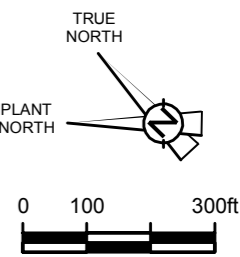
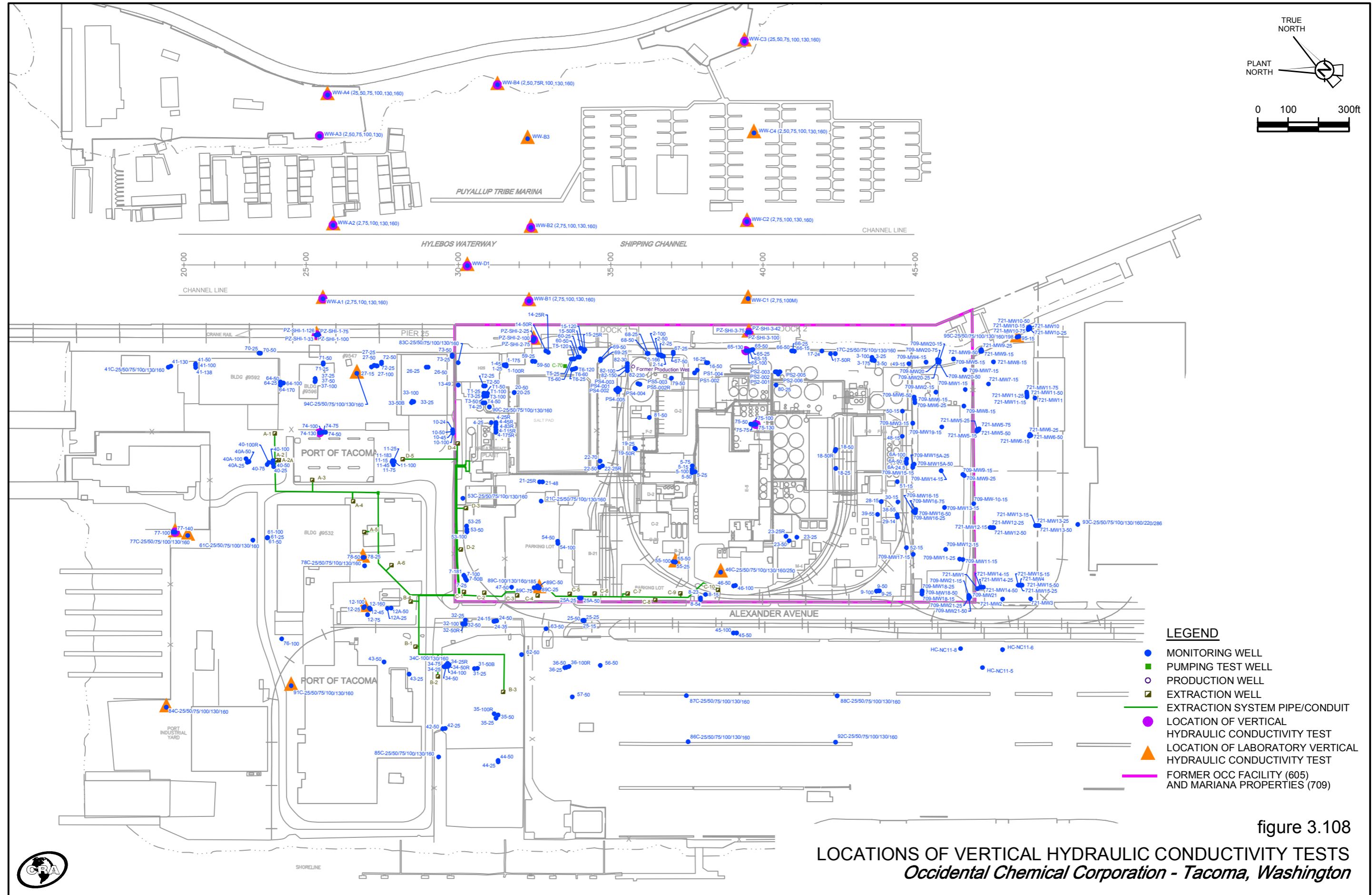




- LEGEND**
- MONITORING WELL
 - PUMPING TEST WELL
 - PRODUCTION WELL
 - EXTRACTION WELL
 - EXTRACTION SYSTEM PIPE/CONDUIT
 - LOCATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY TEST
 - FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)

figure 3.107
LOCATIONS OF HORIZONTAL HYDRAULIC CONDUCTIVITY TESTS
Occidental Chemical Corporation - Tacoma, Washington





- LEGEND**
- MONITORING WELL
 - PUMPING TEST WELL
 - PRODUCTION WELL
 - EXTRACTION WELL
 - EXTRACTION SYSTEM PIPE/CONDUIT
 - LOCATION OF VERTICAL HYDRAULIC CONDUCTIVITY TEST
 - ▲ LOCATION OF LABORATORY VERTICAL HYDRAULIC CONDUCTIVITY TEST
 - FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)

figure 3.108

LOCATIONS OF VERTICAL HYDRAULIC CONDUCTIVITY TESTS
Occidental Chemical Corporation - Tacoma, Washington

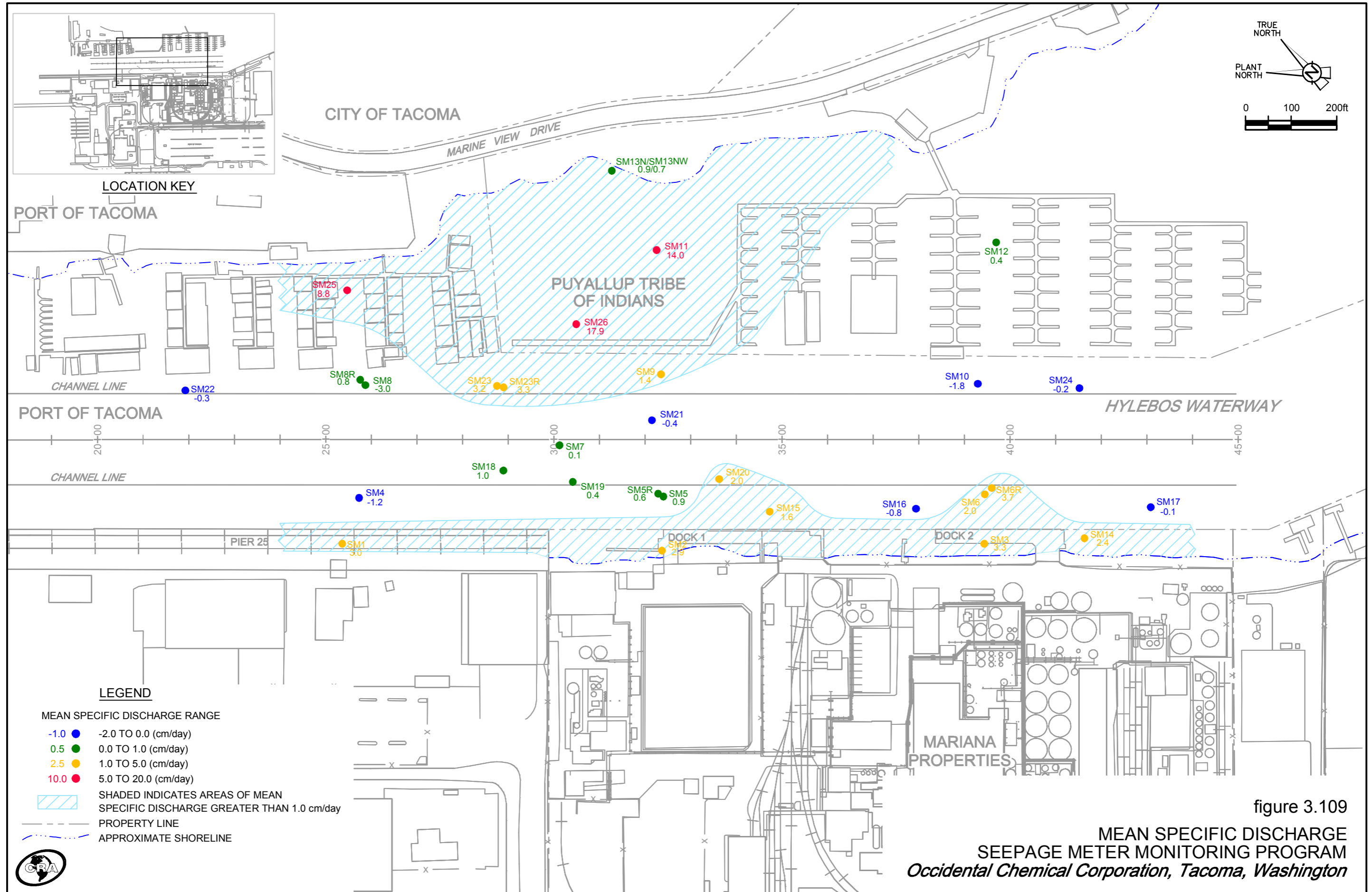


figure 3.109

MEAN SPECIFIC DISCHARGE
SEEPAGE METER MONITORING PROGRAM
Occidental Chemical Corporation, Tacoma, Washington

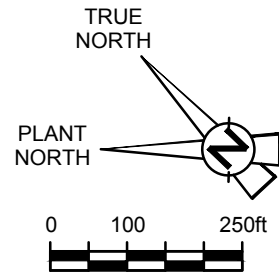
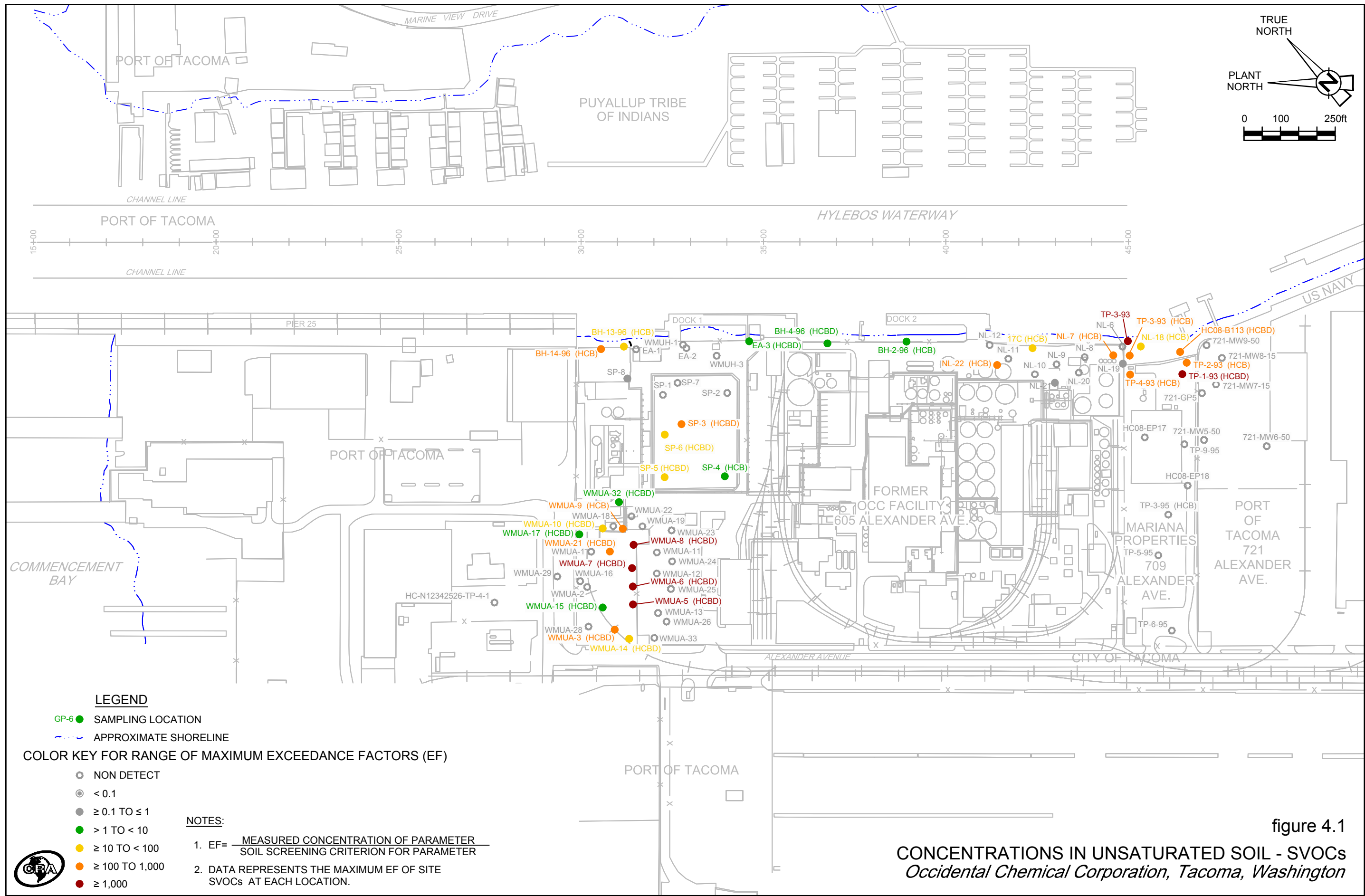
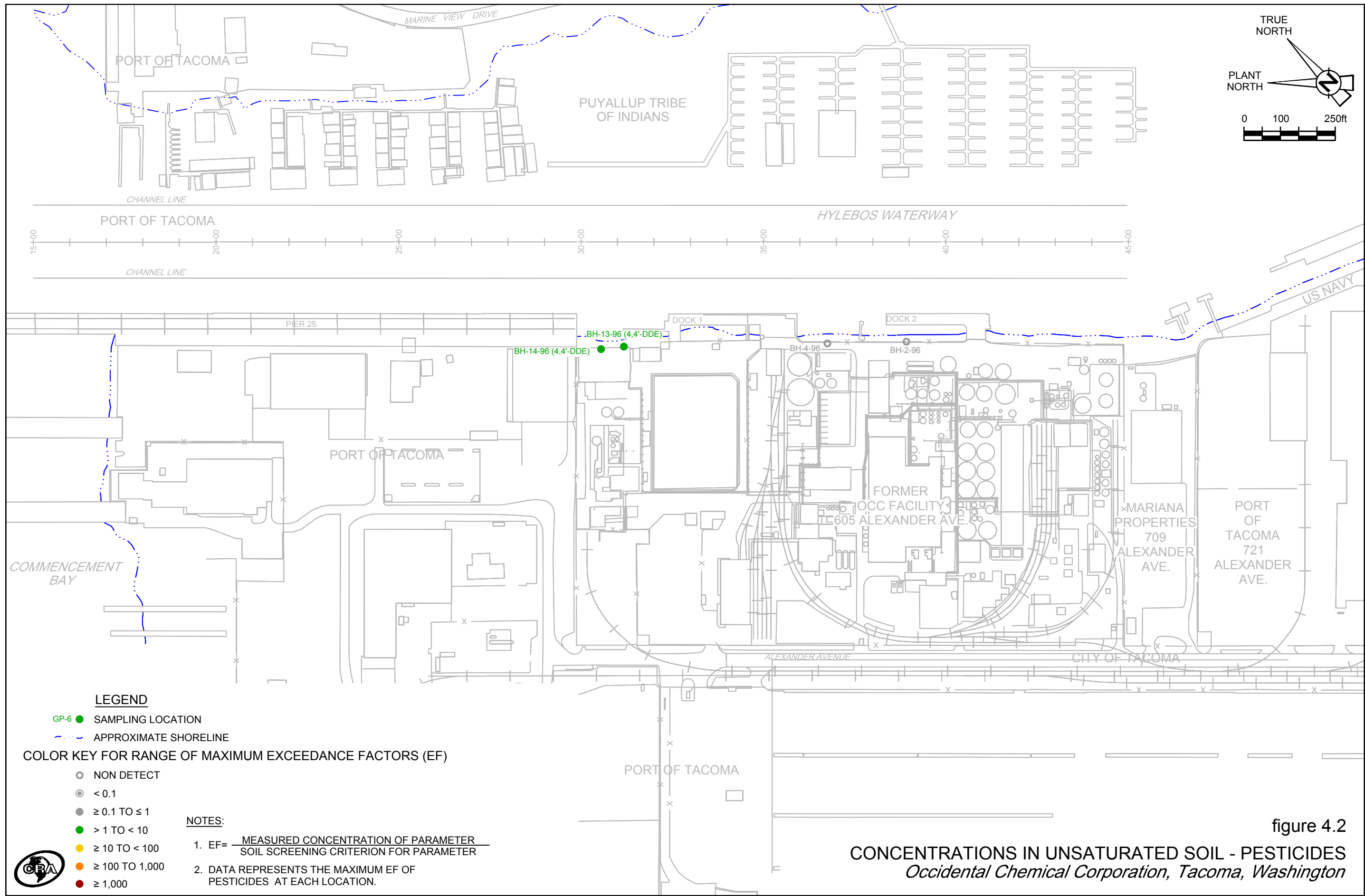


figure 4.1
CONCENTRATIONS IN UNSATURATED SOIL - SVOCs
Occidental Chemical Corporation, Tacoma, Washington



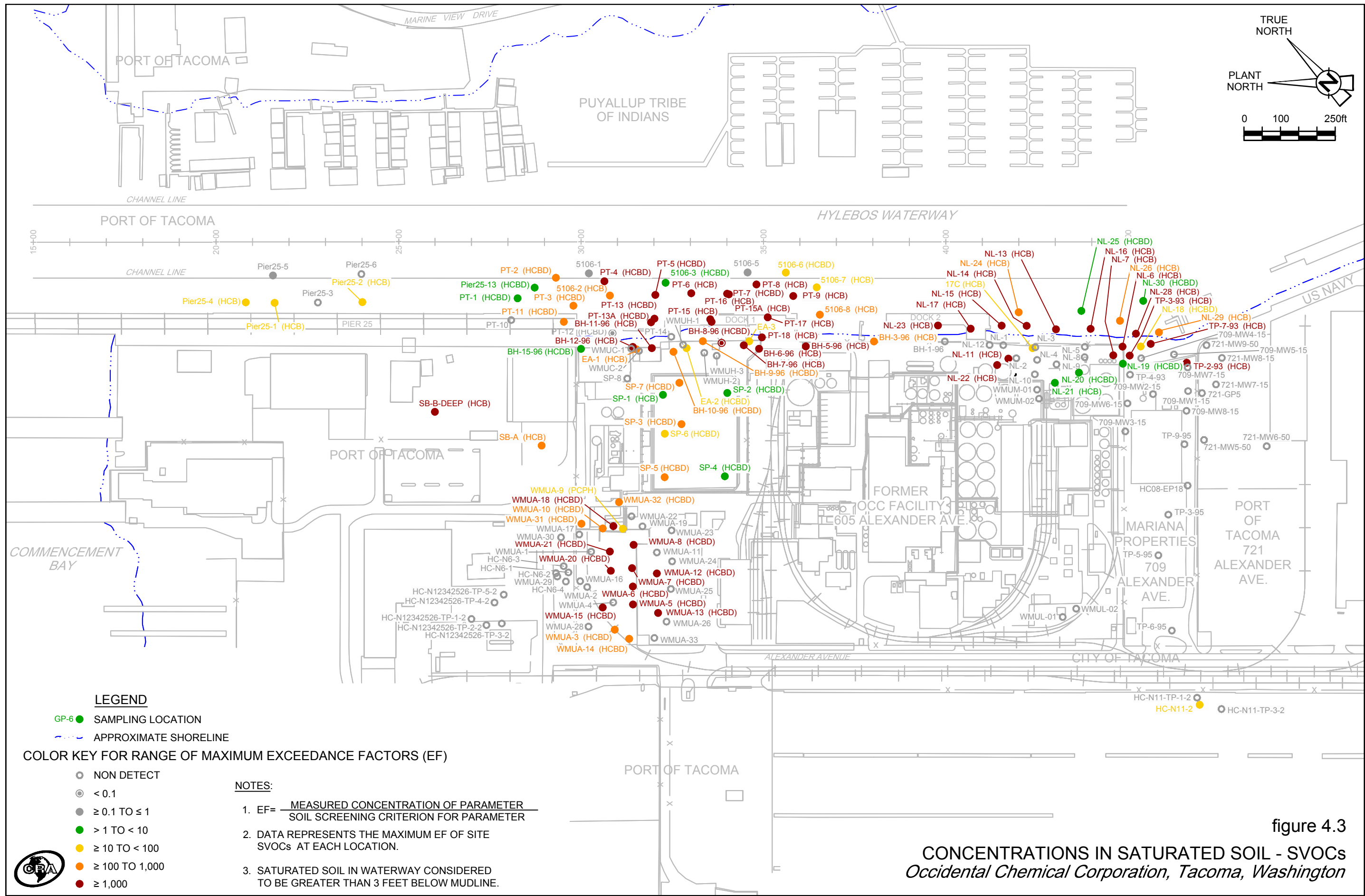


figure 4.3
CONCENTRATIONS IN SATURATED SOIL - SVOCs
Occidental Chemical Corporation, Tacoma, Washington

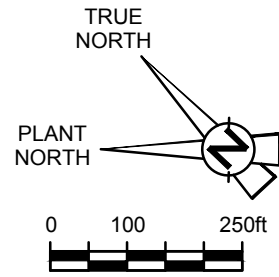
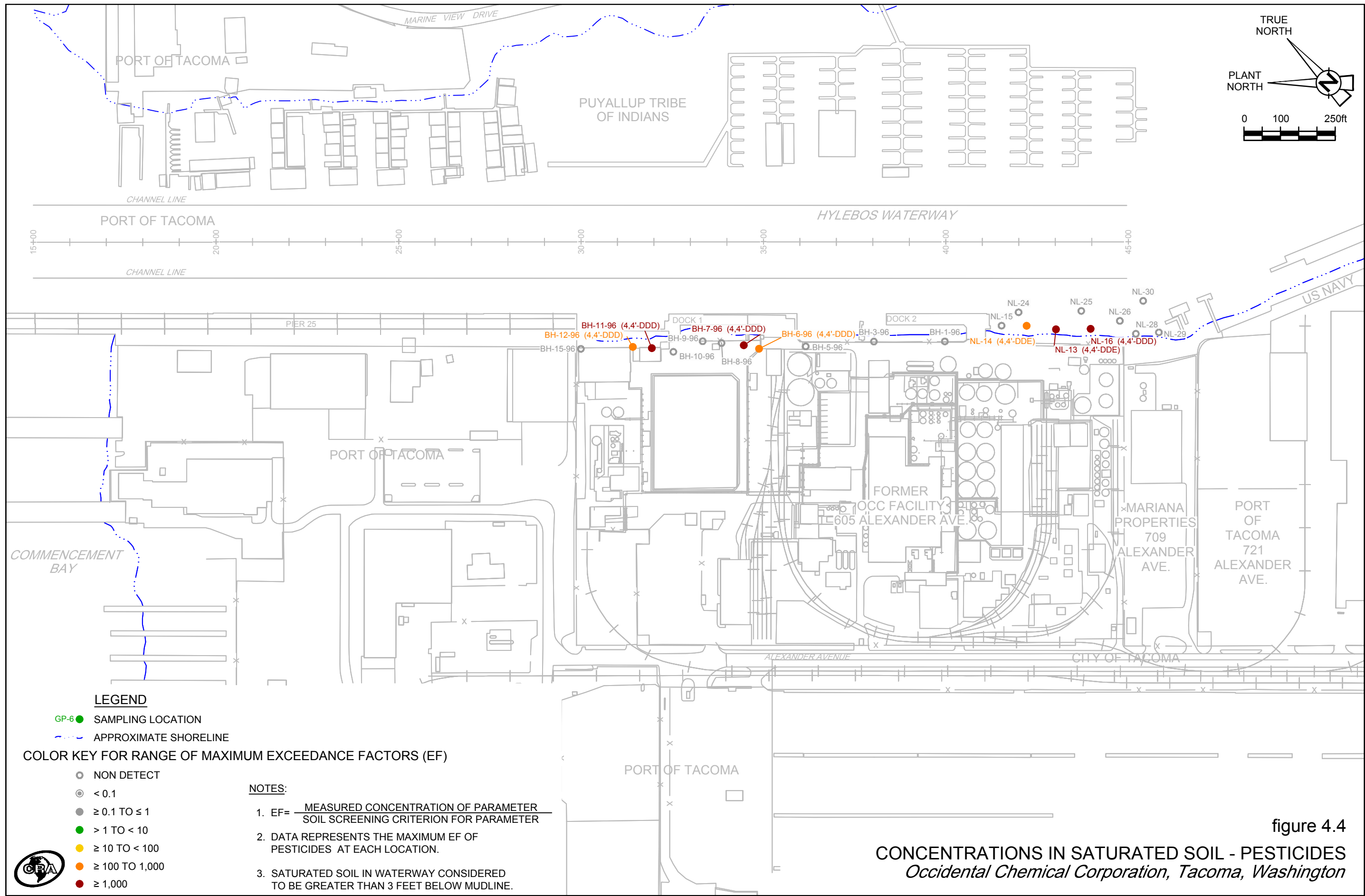


figure 4.4

CONCENTRATIONS IN SATURATED SOIL - PESTICIDES
Occidental Chemical Corporation, Tacoma, Washington

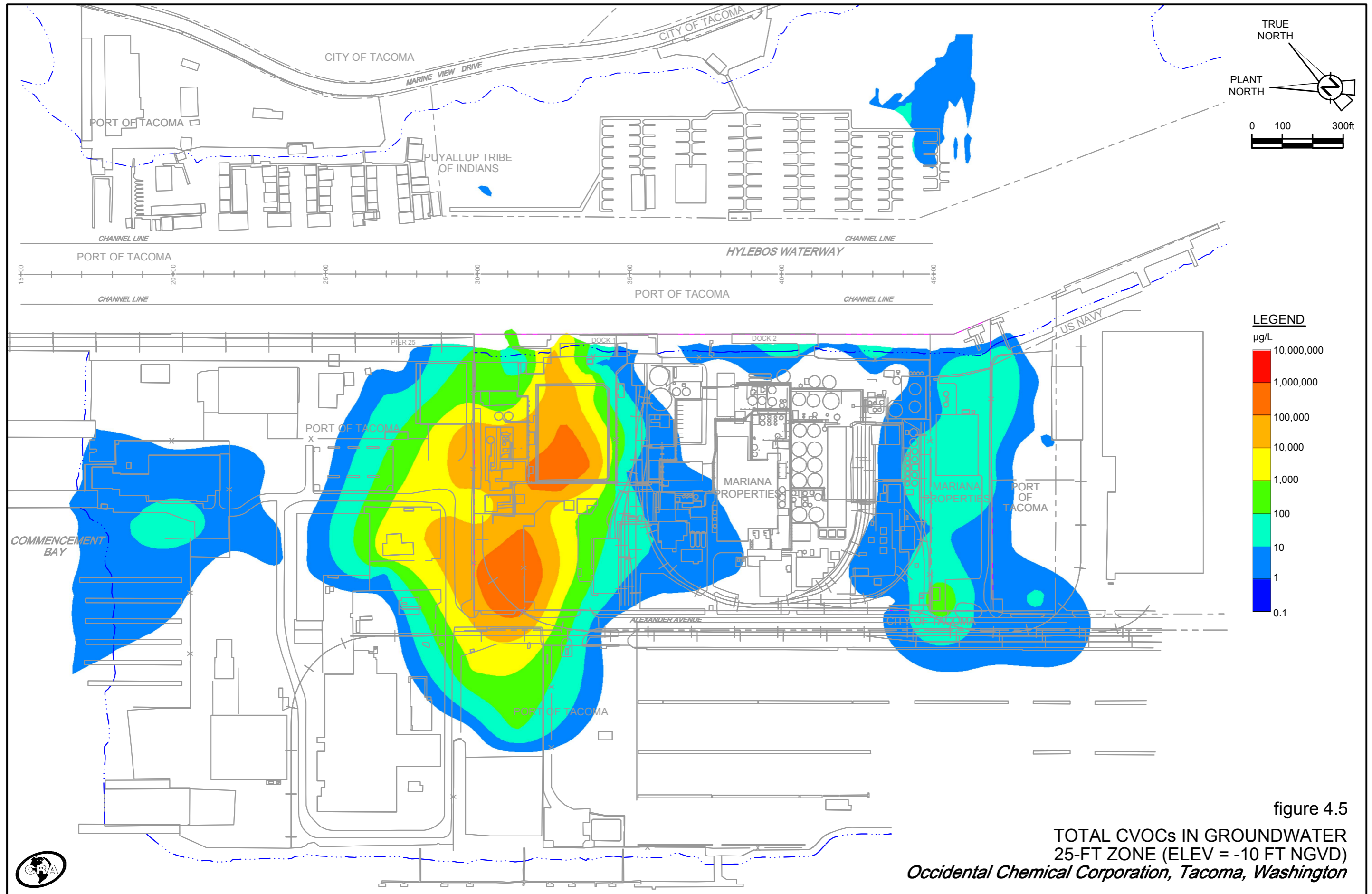


figure 4.5
 TOTAL CVOCs IN GROUNDWATER
 25-FT ZONE (ELEV = -10 FT NGVD)
 Occidental Chemical Corporation, Tacoma, Washington



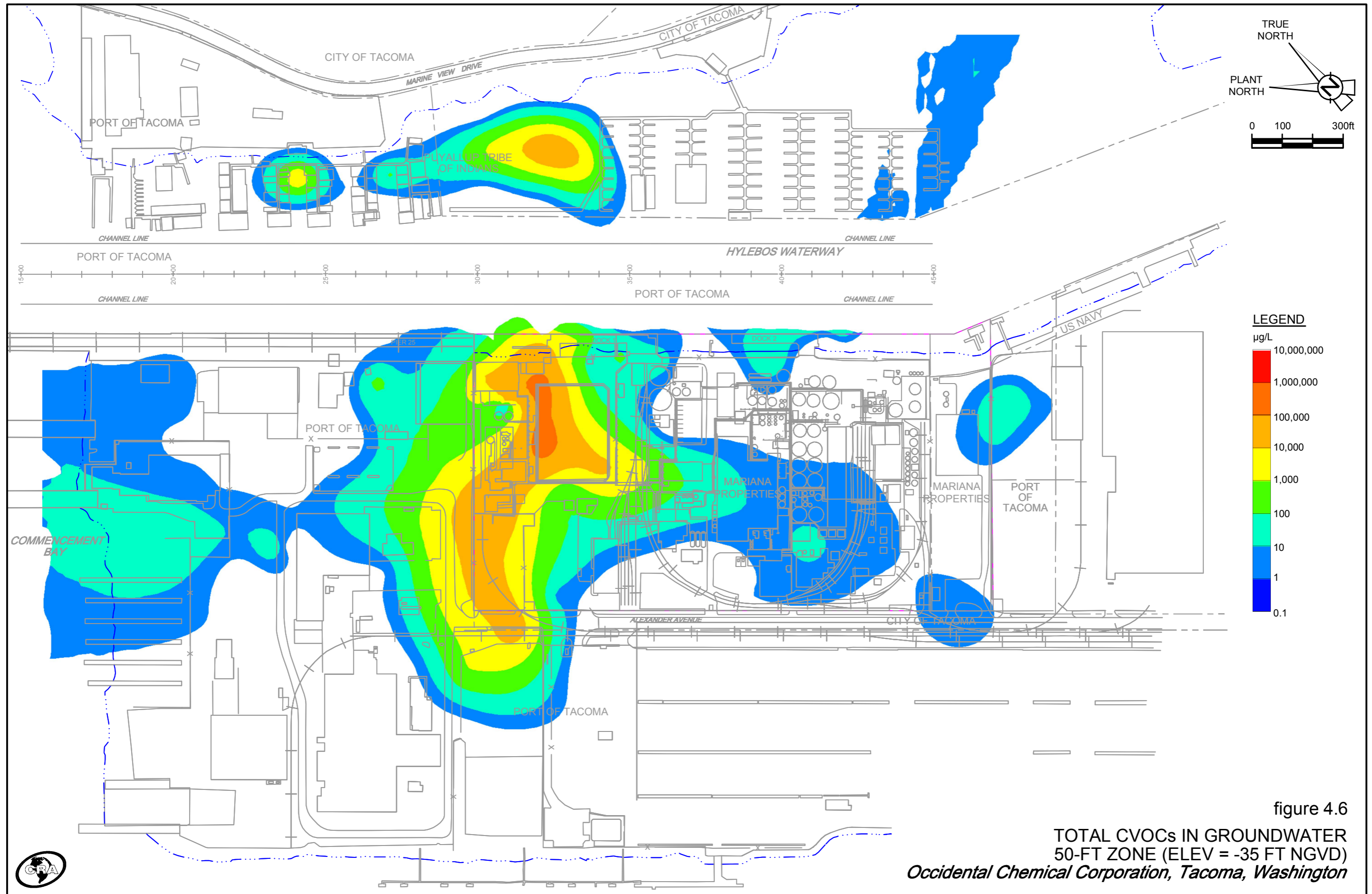


figure 4.6
 TOTAL CVOCs IN GROUNDWATER
 50-FT ZONE (ELEV = -35 FT NGVD)
 Occidental Chemical Corporation, Tacoma, Washington



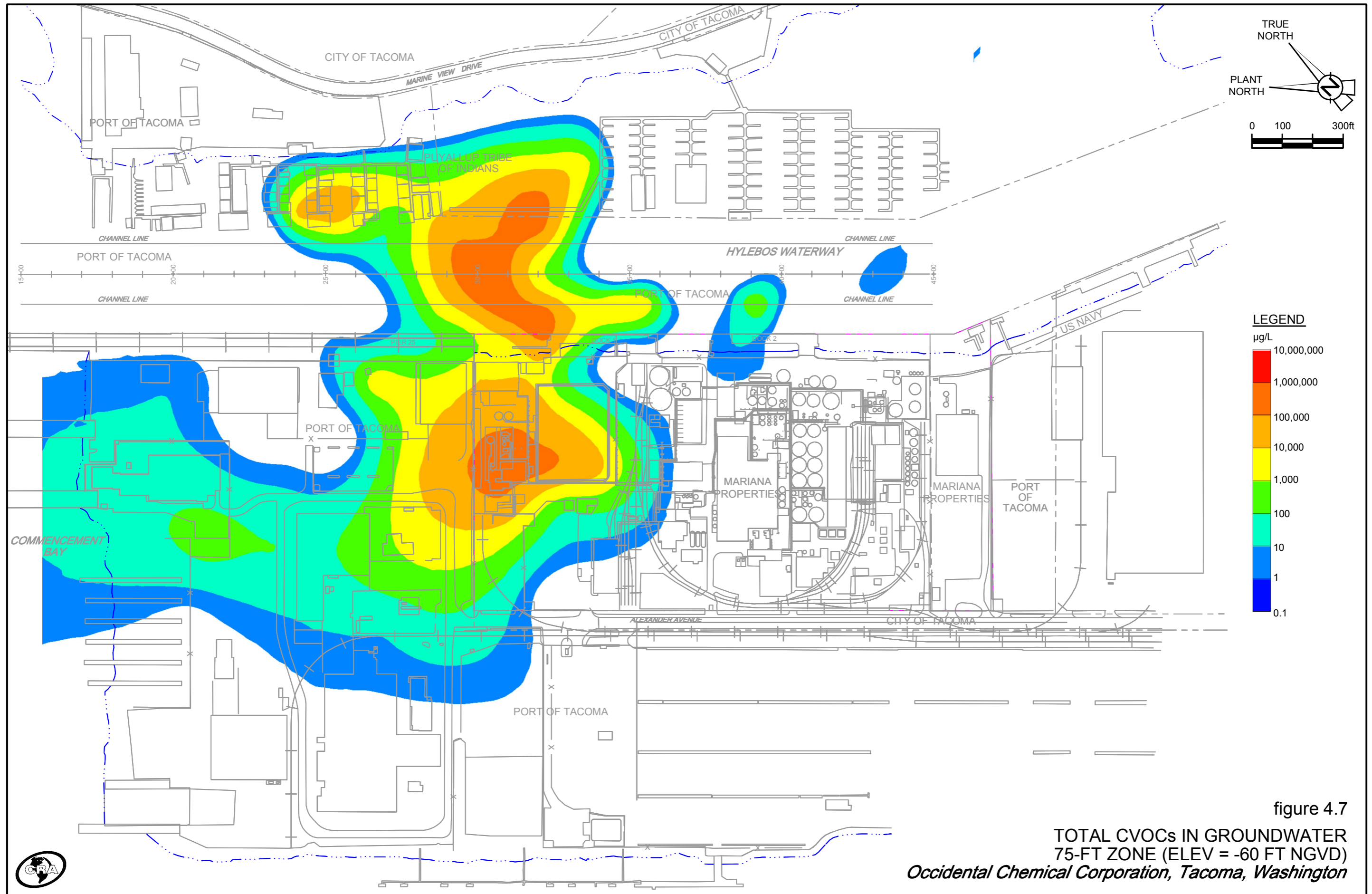


figure 4.7
 TOTAL CVOCs IN GROUNDWATER
 75-FT ZONE (ELEV = -60 FT NGVD)
 Occidental Chemical Corporation, Tacoma, Washington



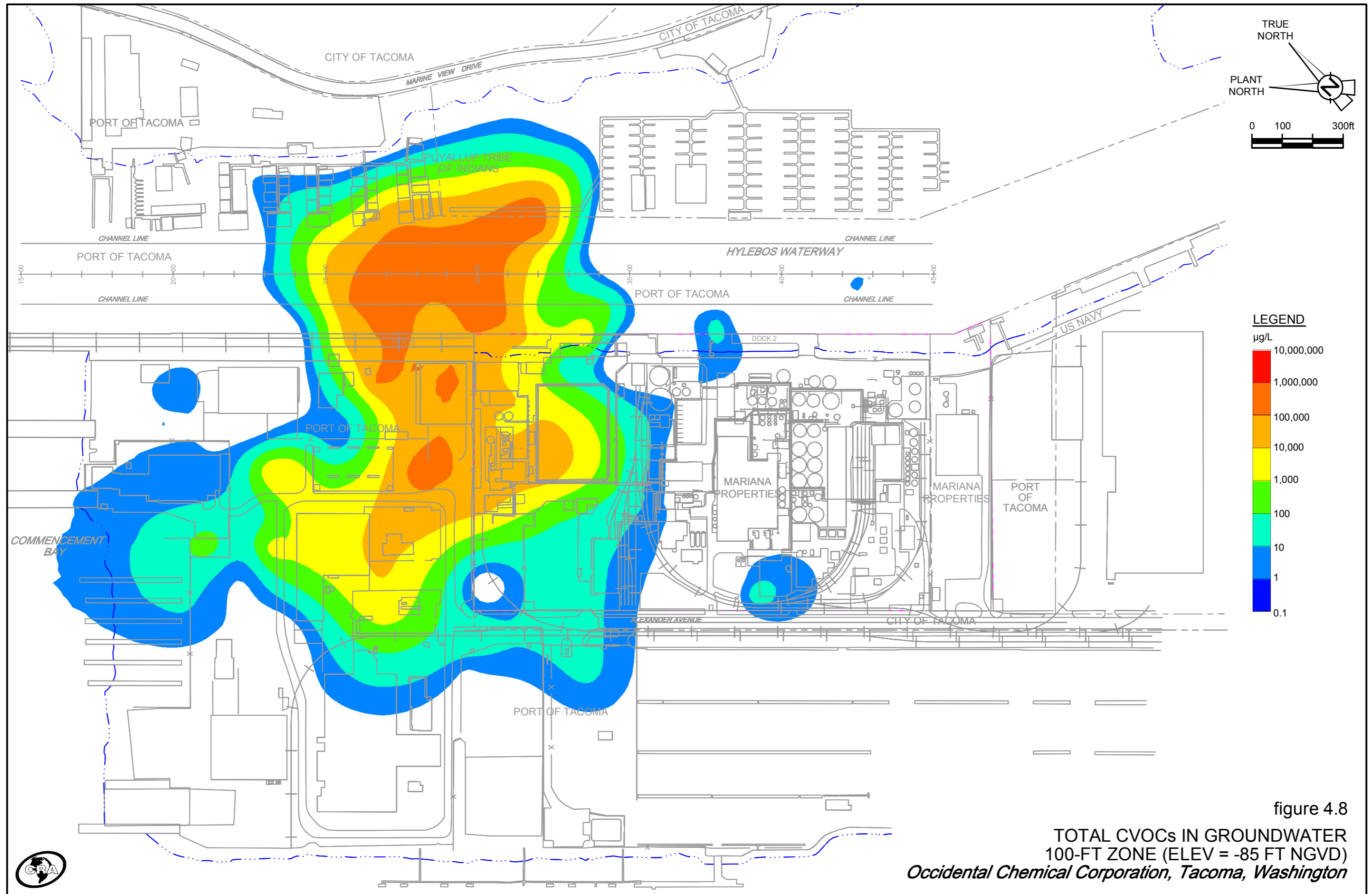


figure 4.8
 TOTAL CVOCs IN GROUNDWATER
 100-FT ZONE (ELEV = -85 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington



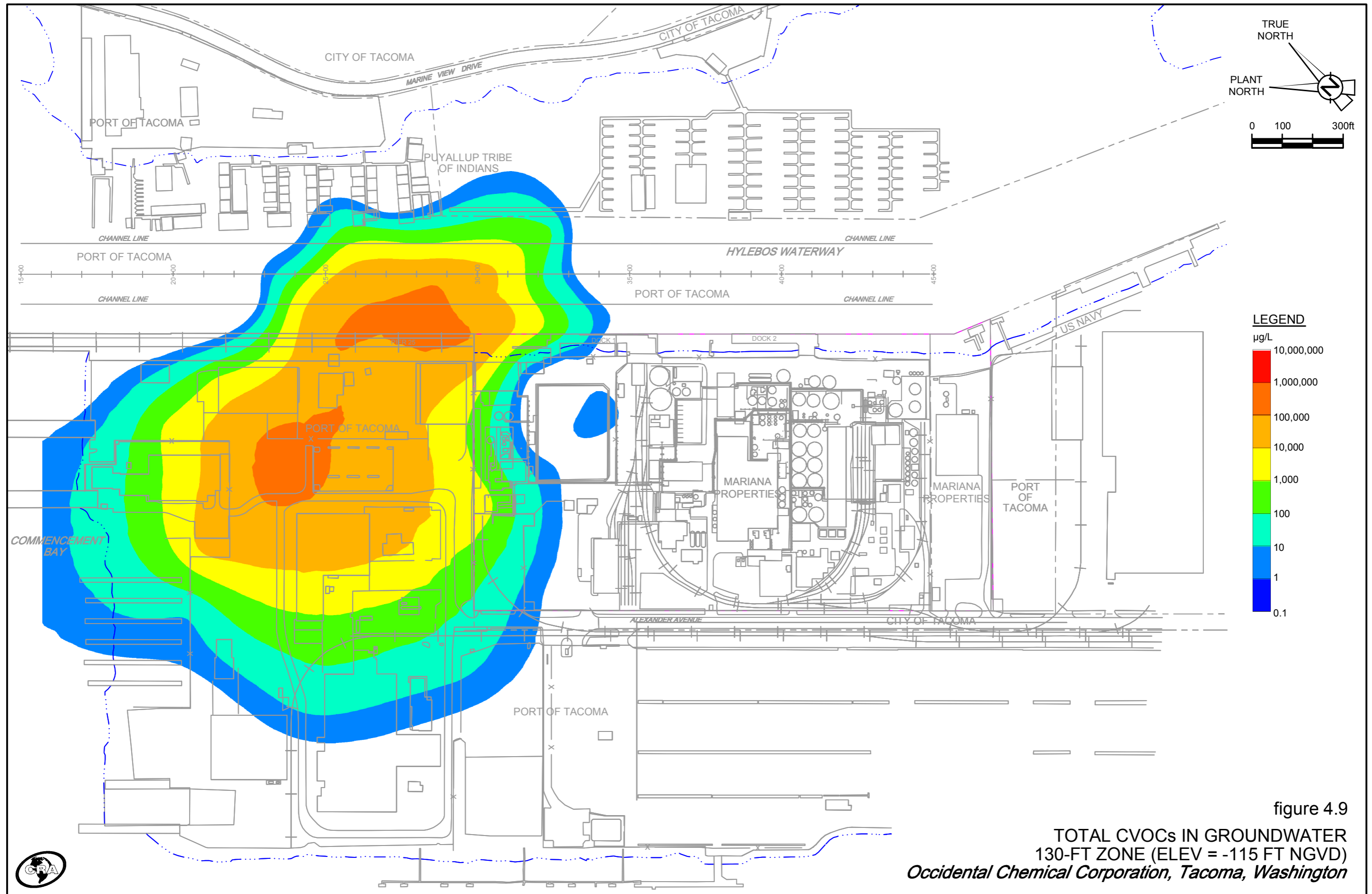


figure 4.9
 TOTAL CVOCs IN GROUNDWATER
 130-FT ZONE (ELEV = -115 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington



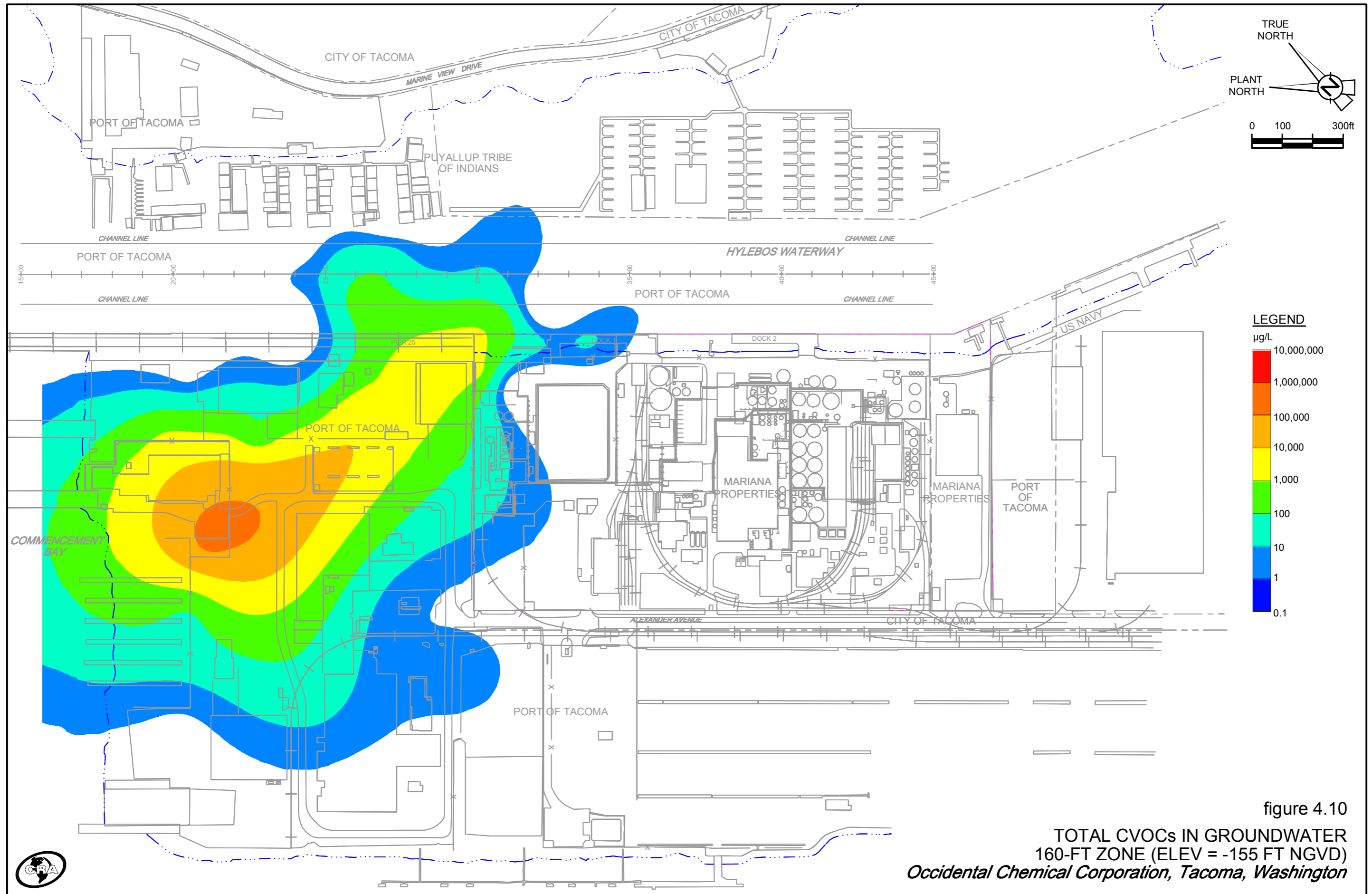
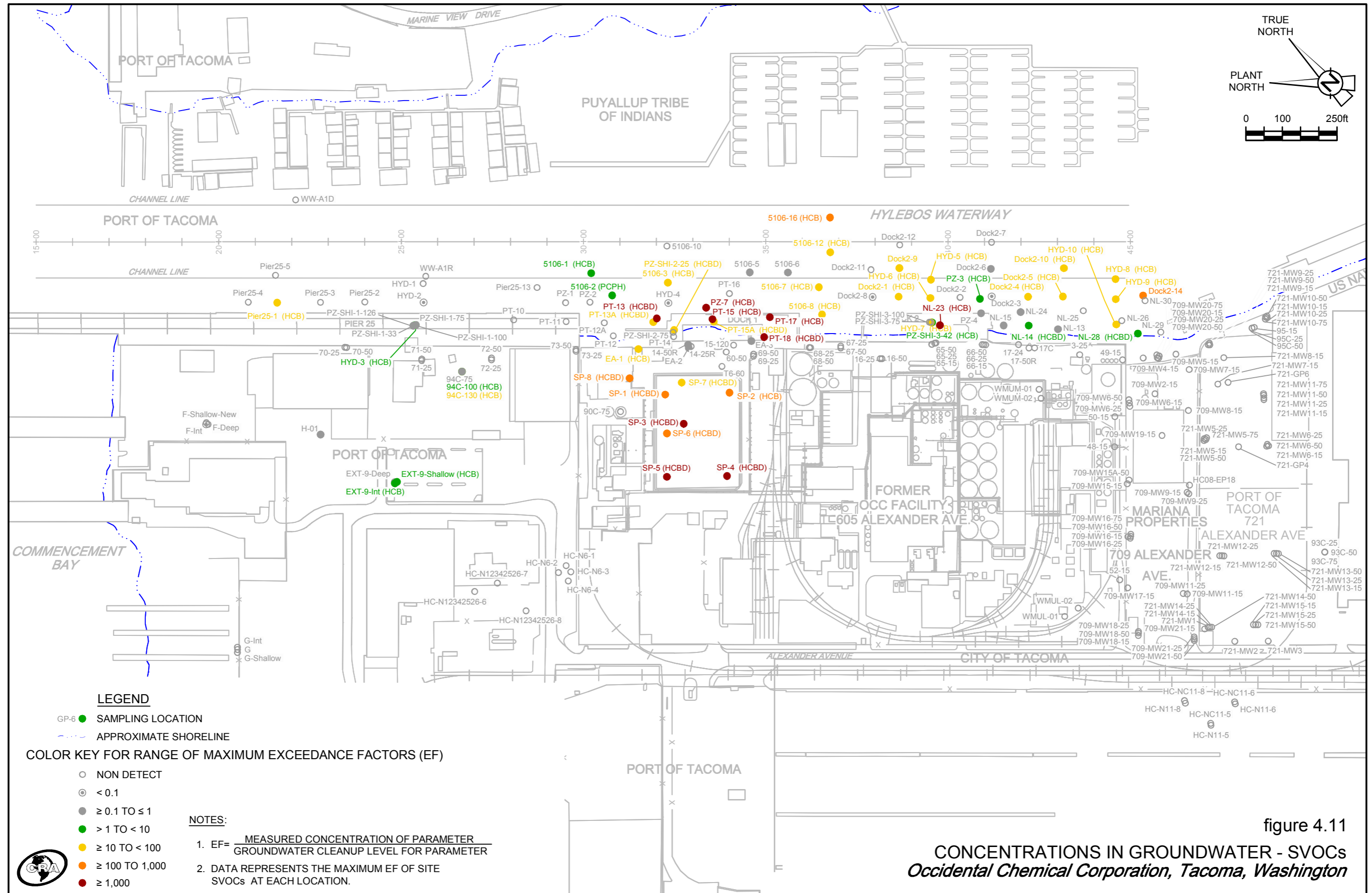


figure 4.10
 TOTAL CVOCs IN GROUNDWATER
 160-FT ZONE (ELEV = -155 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington





LEGEND

- GP-6 ● SAMPLING LOCATION
- APPROXIMATE SHORELINE

COLOR KEY FOR RANGE OF MAXIMUM EXCEEDANCE FACTORS (EF)

- NON DETECT
- < 0.1
- ≥ 0.1 TO ≤ 1
- > 1 TO < 10
- ≥ 10 TO < 100
- ≥ 100 TO 1,000
- ≥ 1,000

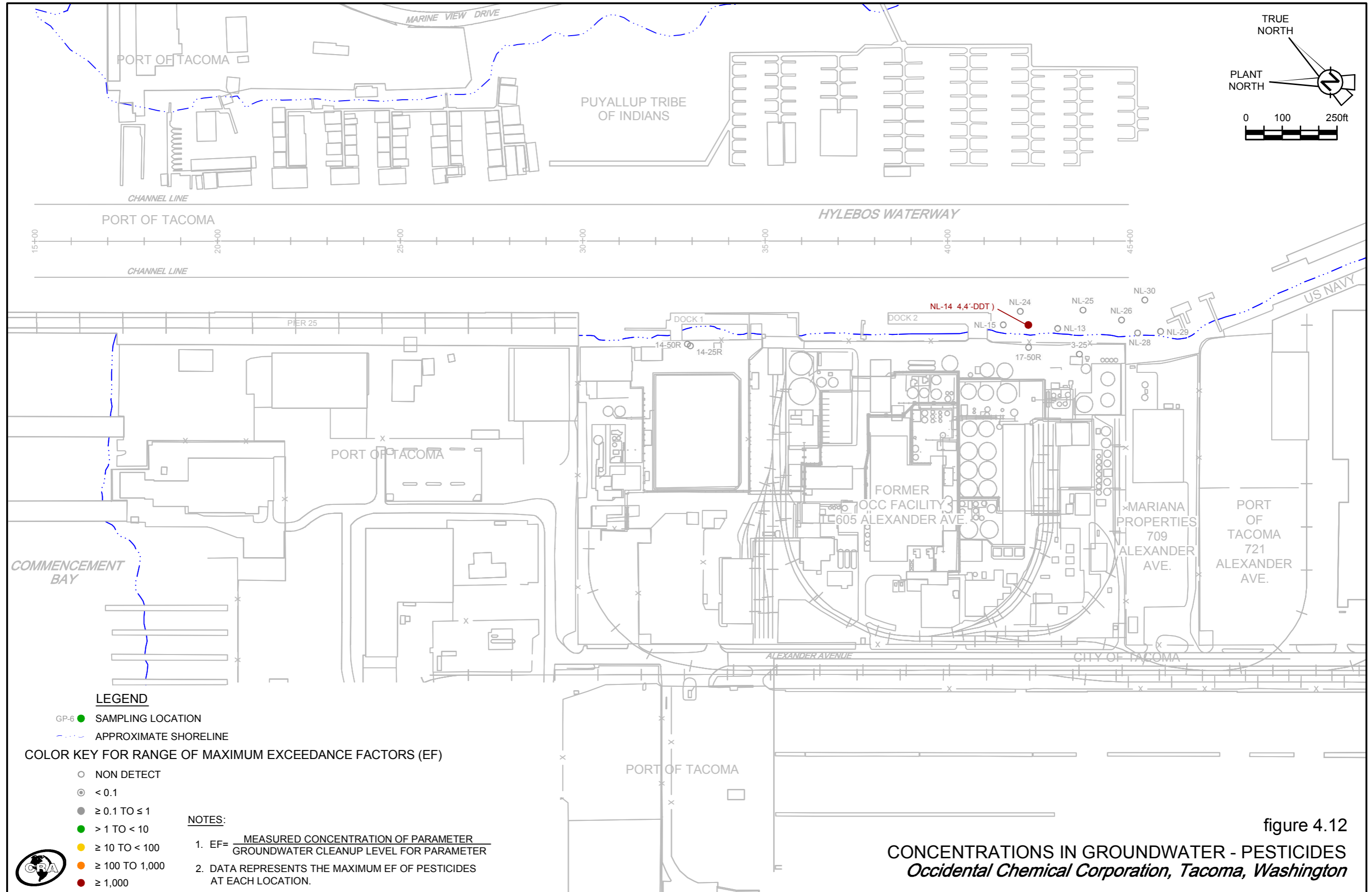
NOTES:

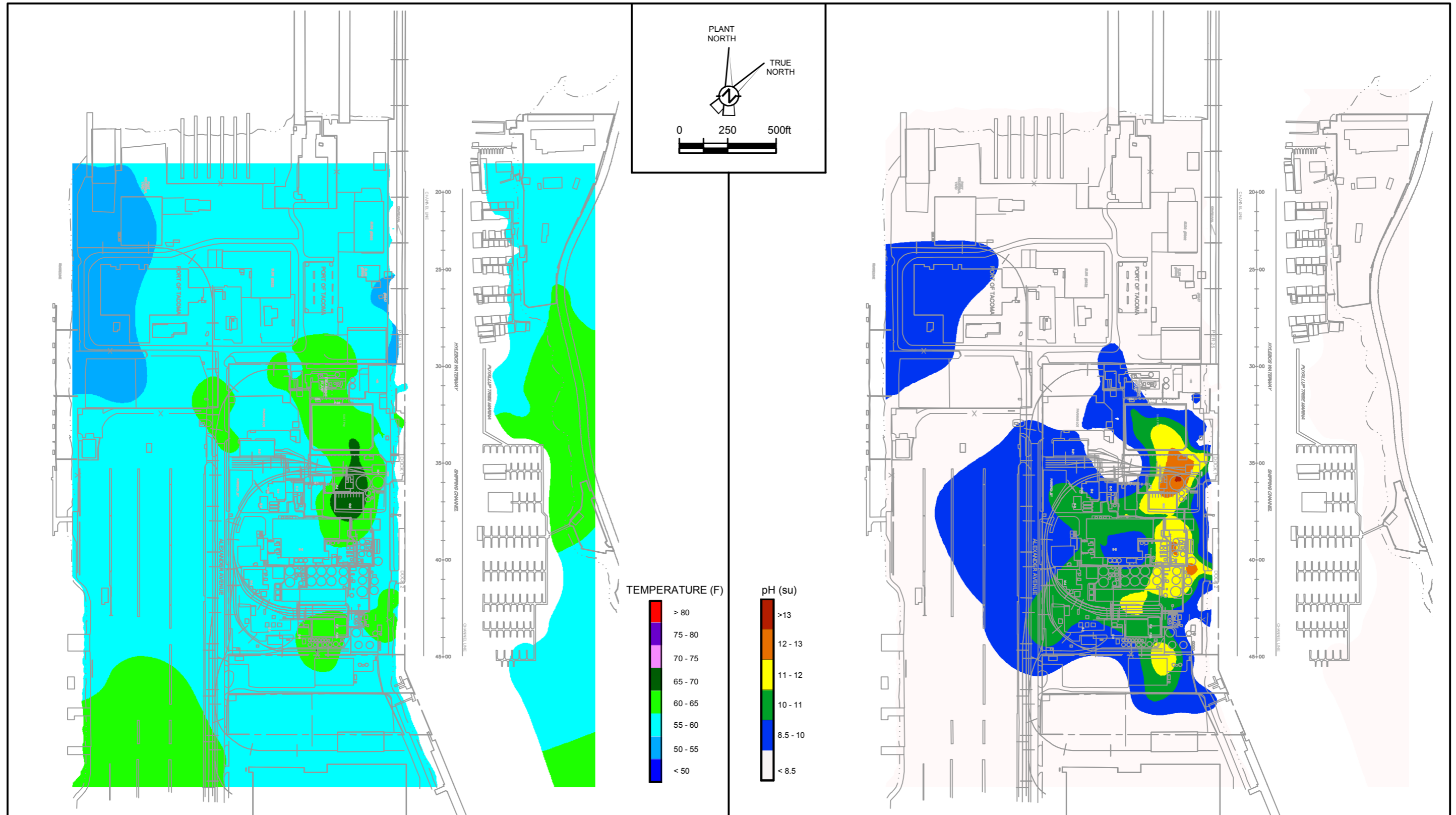
1. EF= $\frac{\text{MEASURED CONCENTRATION OF PARAMETER}}{\text{GROUNDWATER CLEANUP LEVEL FOR PARAMETER}}$
2. DATA REPRESENTS THE MAXIMUM EF OF SITE SVOCs AT EACH LOCATION.



figure 4.11

CONCENTRATIONS IN GROUNDWATER - SVOCs
Occidental Chemical Corporation, Tacoma, Washington





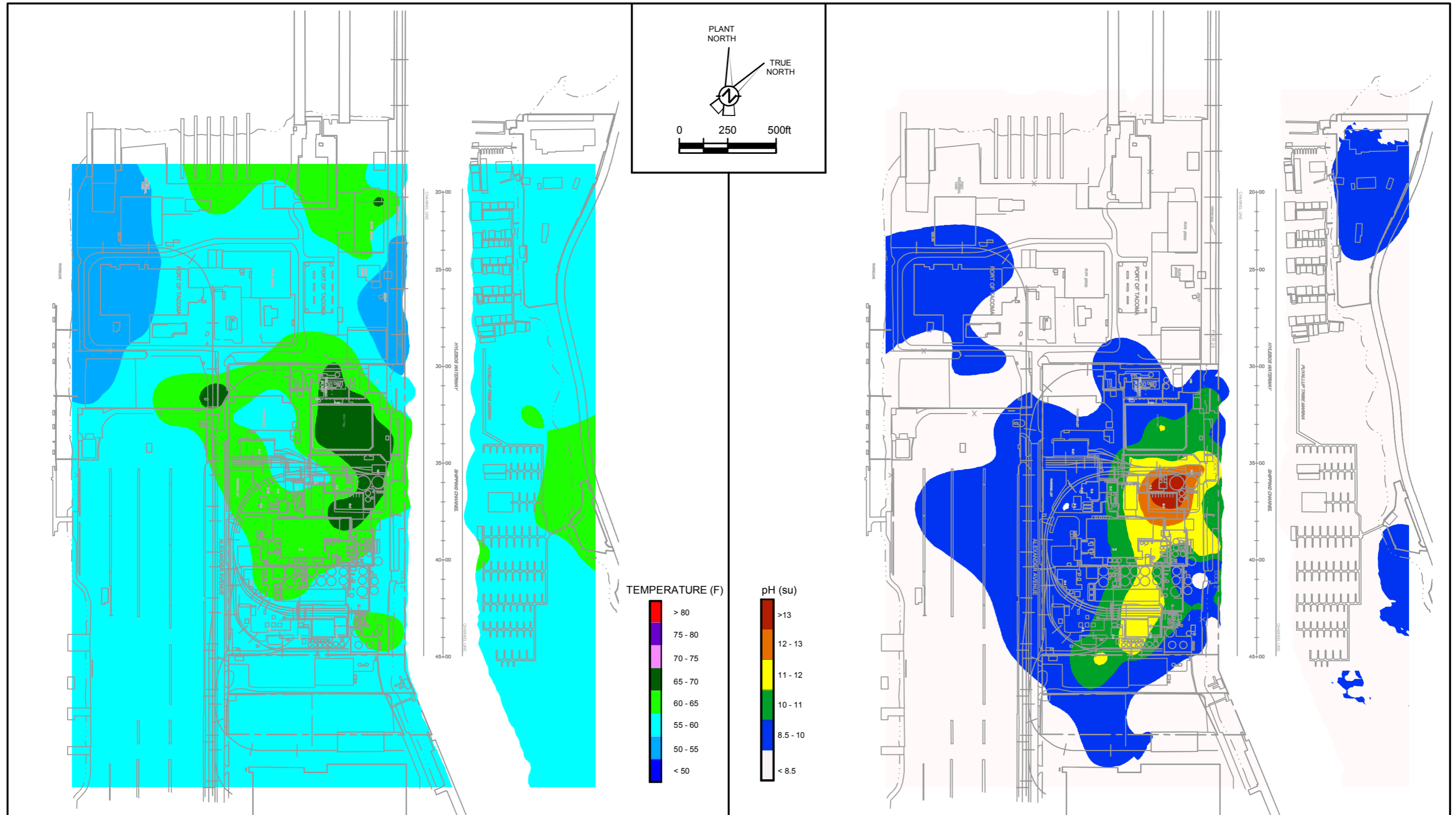
TEMPERATURE

pH

figure 4.13

COMPARISON OF TEMPERATURE AND pH DISTRIBUTION
25-FT ZONE (-10 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington





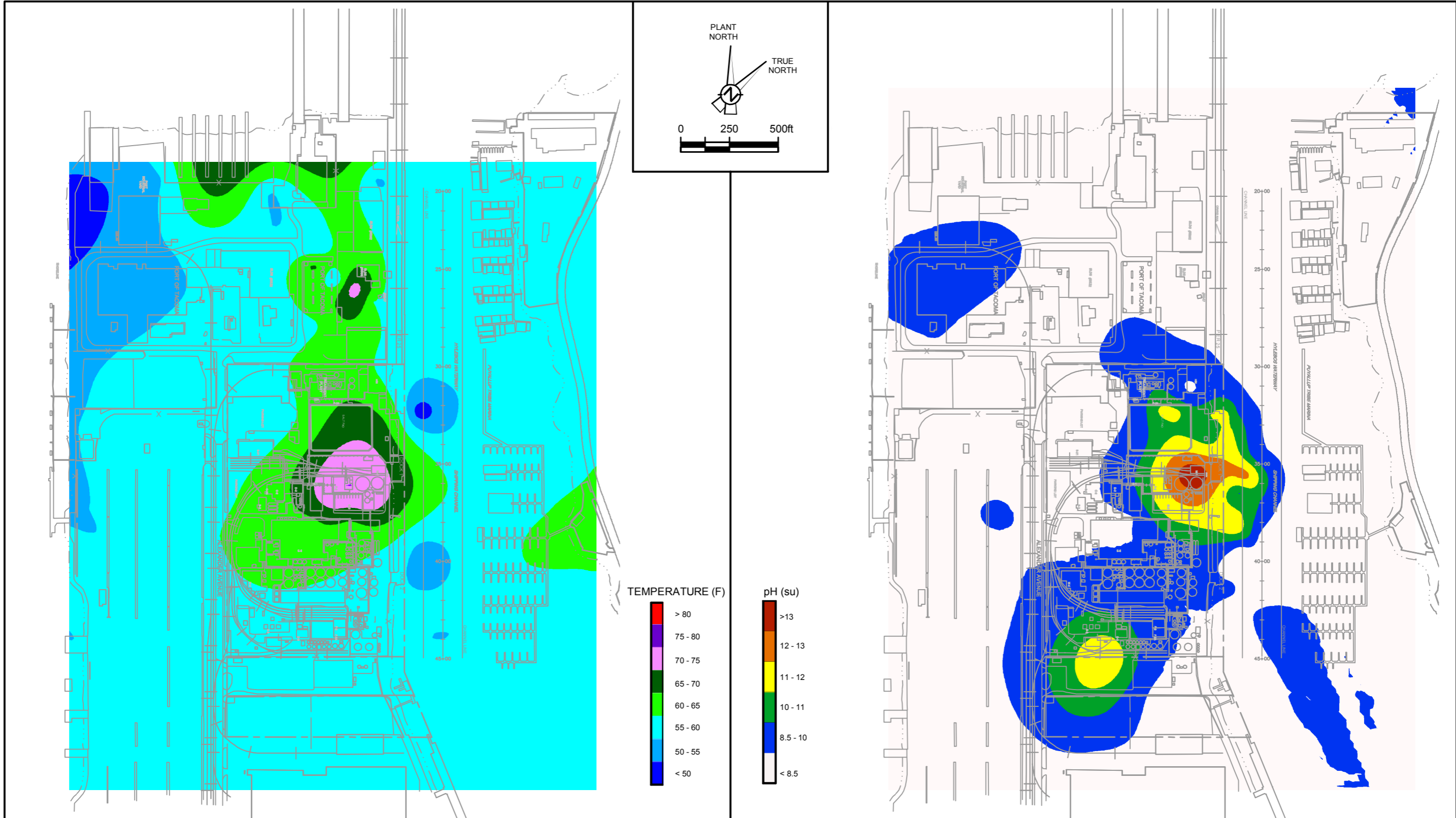
TEMPERATURE

pH

figure 4.14

COMPARISON OF TEMPERATURE AND pH DISTRIBUTION
50-FT ZONE (-35 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington





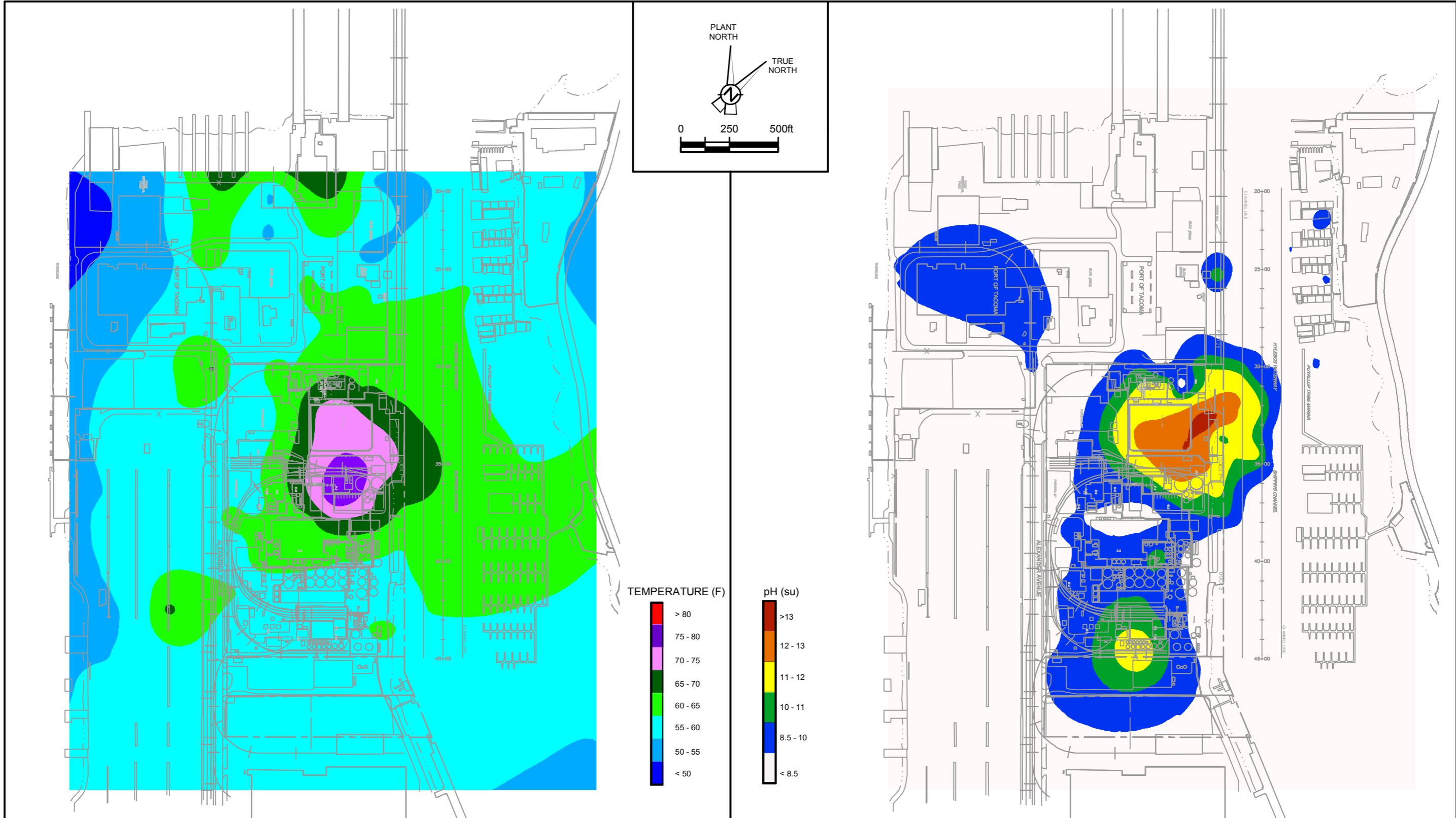
TEMPERATURE

pH

figure 4.15

COMPARISON OF TEMPERATURE AND pH DISTRIBUTION
75-FT ZONE (-60 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington





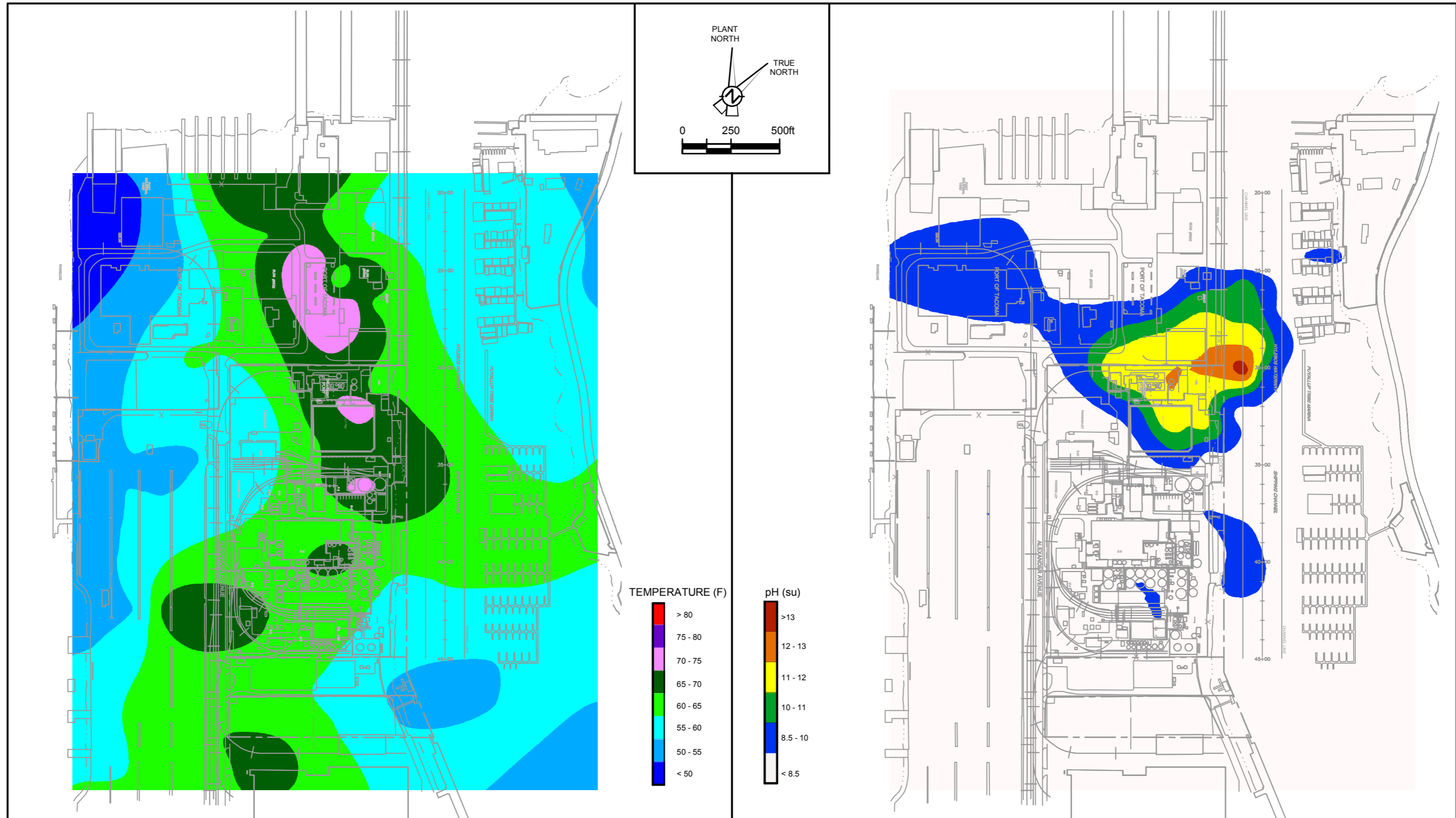
TEMPERATURE

pH

figure 4.16

COMPARISON OF TEMPERATURE AND pH DISTRIBUTION
 100-FT ZONE (-85 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington





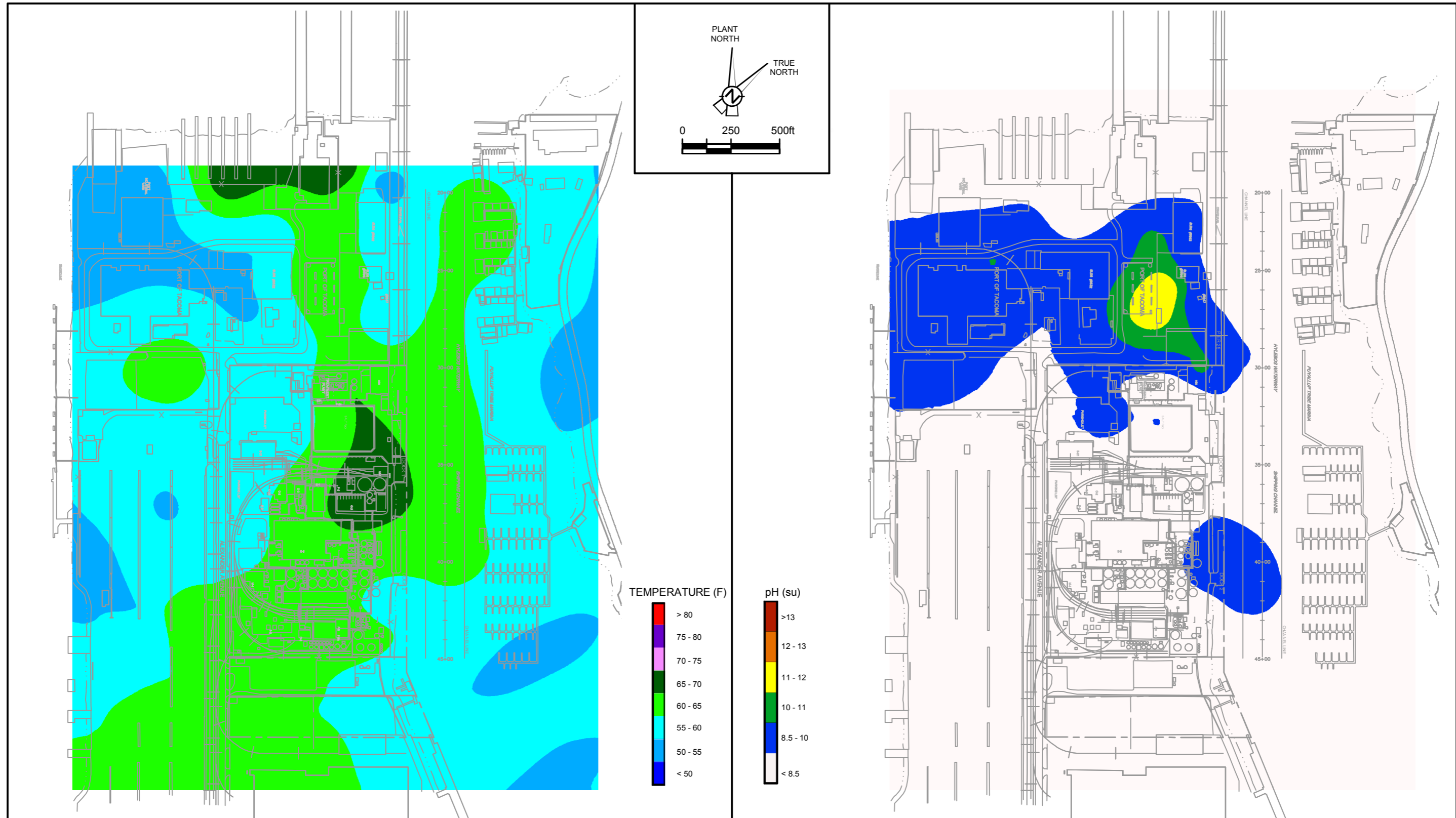
TEMPERATURE

pH

figure 4.17

COMPARISON OF TEMPERATURE AND pH DISTRIBUTION
130-FT ZONE (-115 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington





TEMPERATURE

pH

figure 4.18

COMPARISON OF TEMPERATURE AND pH DISTRIBUTION
 160-FT ZONE (-155 FT NGVD)
Occidental Chemical Corporation, Tacoma, Washington



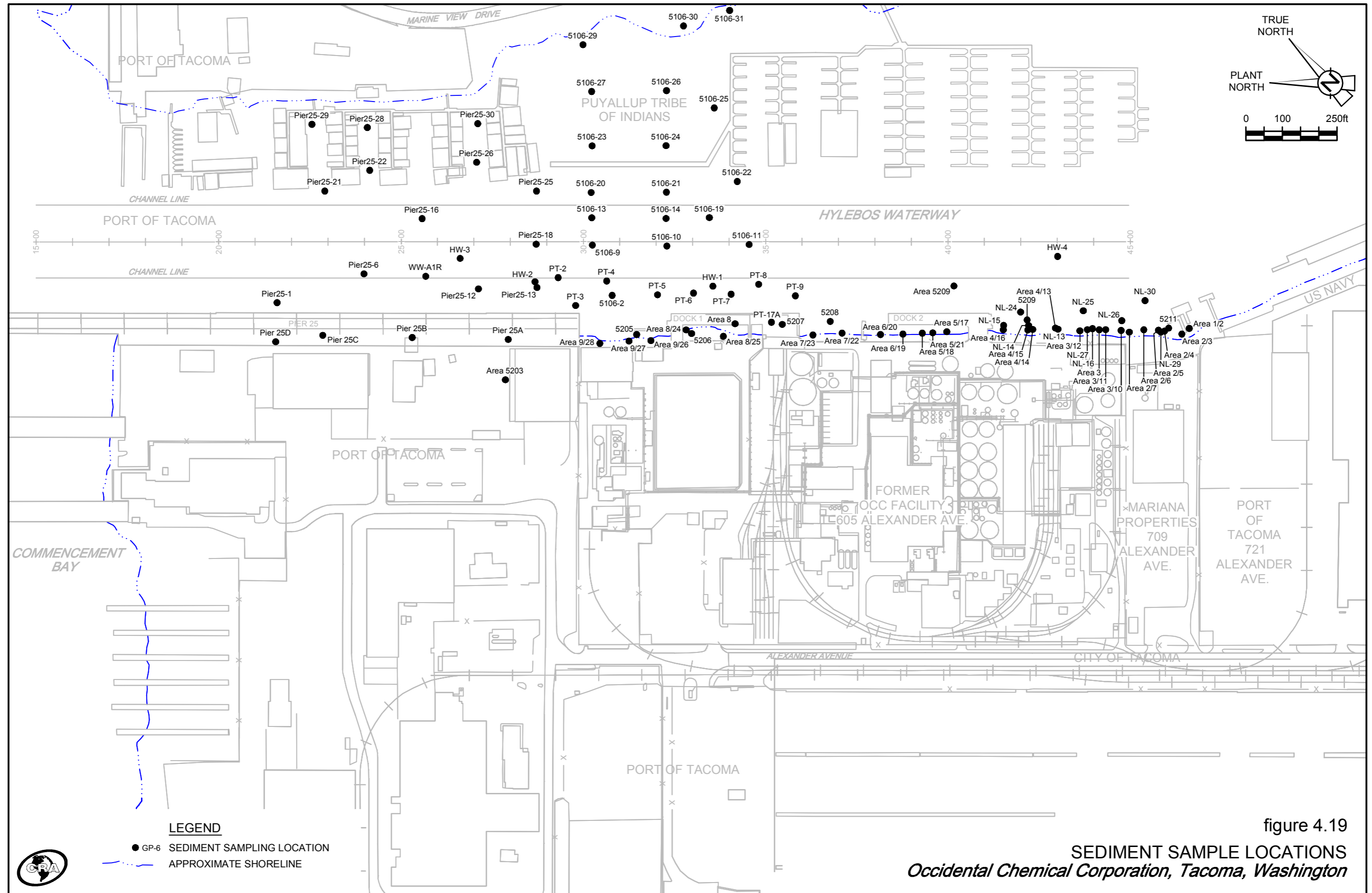


figure 4.19
 SEDIMENT SAMPLE LOCATIONS
Occidental Chemical Corporation, Tacoma, Washington

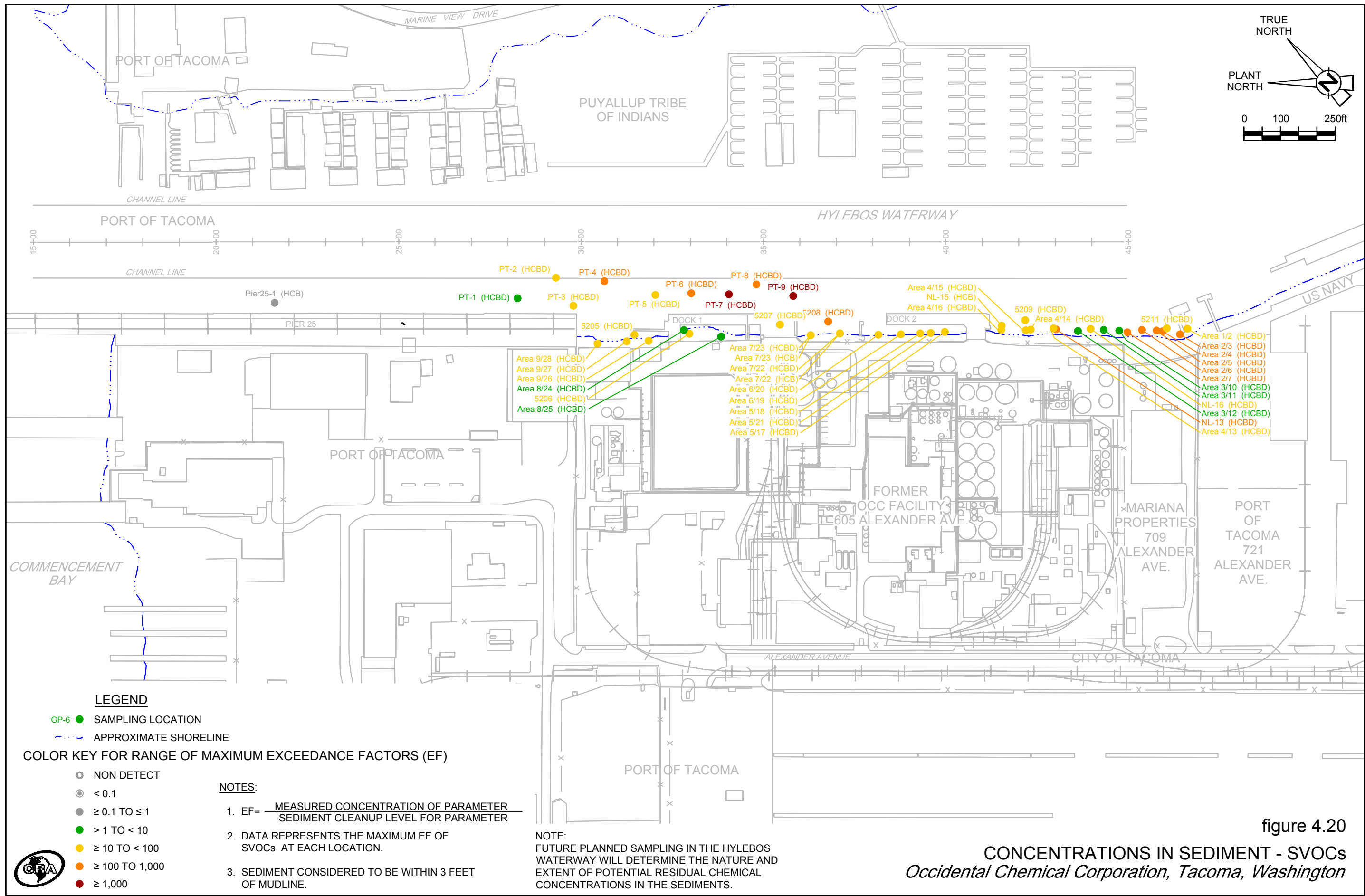
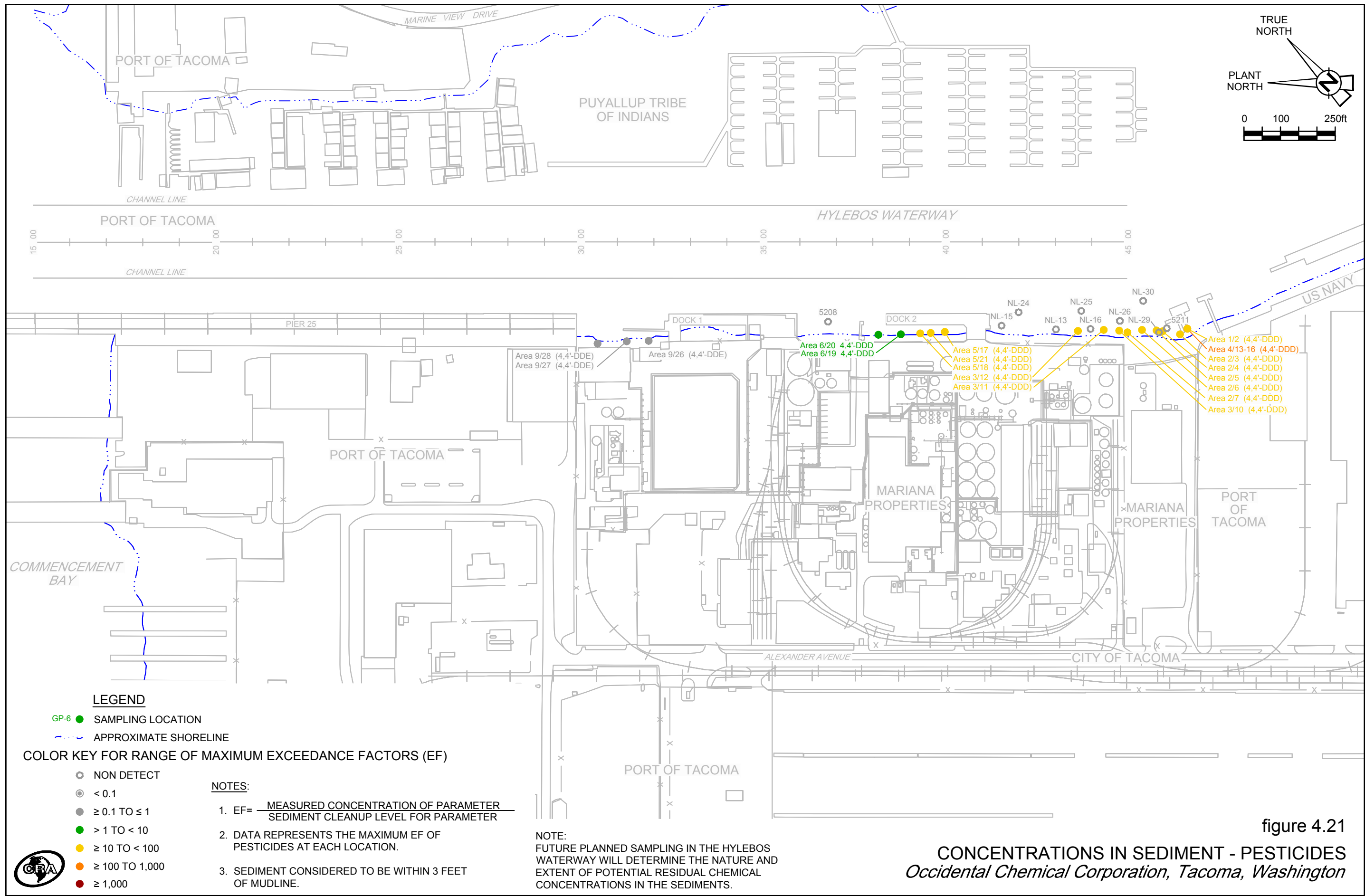


figure 4.20
CONCENTRATIONS IN SEDIMENT - SVOCs
Occidental Chemical Corporation, Tacoma, Washington



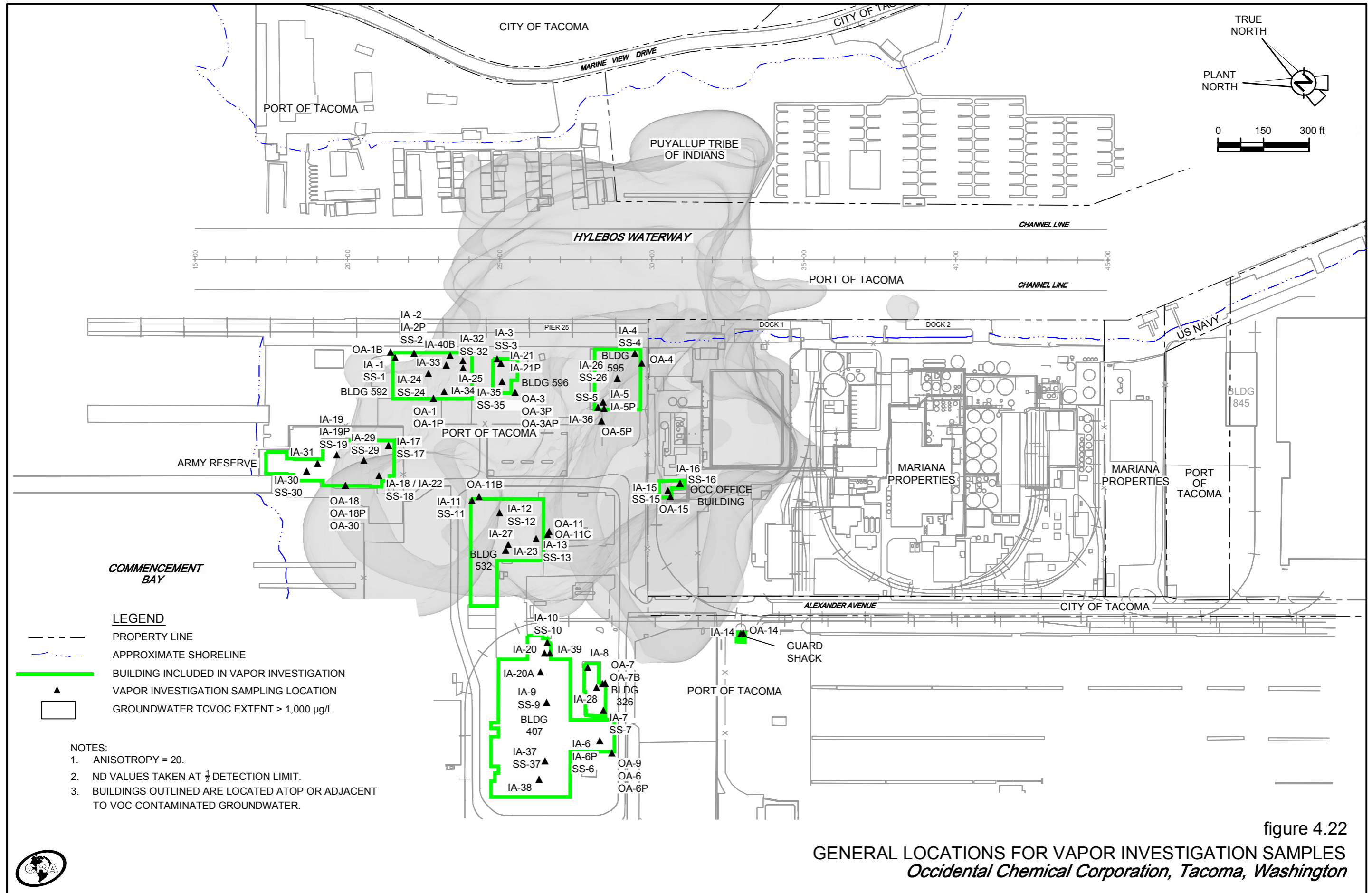
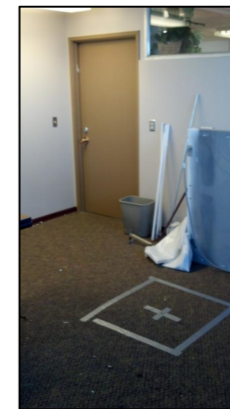


figure 4.22
 GENERAL LOCATIONS FOR VAPOR INVESTIGATION SAMPLES
Occidental Chemical Corporation, Tacoma, Washington





EXTERIOR VIEW - NORTHEAST CORNER



Indoor Air-28		7/1/2013
1,2,4-Trimethylbenzene		10(g)
1,4-Dichlorobenzene		2.2(a)
Benzene		0.64(f)
Ethylbenzene		4.0
m&p-Xylenes		15
o-Xylene		5.0
Styrene		2.1
Tetrachloroethene		4.9
Toluene		4.0
Trichloroethene		2.0(f,g)

Indoor Air-8		4/24/2013	7/1/2013
1,1,1-Trichloroethane		0.029 J/0.030 J	0.050 U
1,1-Dichloroethene		0.042/0.040	-
1,2,4-Trimethylbenzene		0.98/1.0	1.8
1,3,5-Trimethylbenzene		0.31 J/0.32 J	-
1,4-Dichlorobenzene		1.9(a)/2.0(a)	58 J(a)
Benzene		0.76(f)/0.68(f)	0.64(f)
Carbon tetrachloride		0.44(f)/0.48(f)	-
Chloroform (Trichloromethane)		0.26(f)/0.28(f)	-
Ethylbenzene		1.2/1.4	6.9(a)
m&p-Xylenes		4.3/3.7	29
Naphthalene		0.23/0.21	-
o-Xylene		1.8/1.3	9.5
Styrene		0.45 J/0.51 J	1.2
Tetrachloroethene		0.68/0.63	0.79
Toluene		3.9/3.2	3.1
trans-1,2-Dichloroethene		0.051/0.035 U	-
Trichloroethene		0.45/0.44	0.30
Vinyl chloride		0.0060 J/0.0057 J	-

Outside Air-7B		7/1/2013
1,2,4-Trimethylbenzene		0.71
1,4-Dichlorobenzene		0.61
Benzene		0.48
Ethylbenzene		4.8
m&p-Xylenes		21
o-Xylene		6.8
Styrene		0.52
Tetrachloroethene		0.082
Toluene		1.7

Outside Air-7		4/24/2013
1,1,1-Trichloroethane		0.028 J
1,2,4-Trimethylbenzene		1.2
1,3,5-Trimethylbenzene		0.38 J
1,4-Dichlorobenzene		0.038 J
Benzene		0.76
Carbon tetrachloride		0.47
Chloroform (Trichloromethane)		0.095 J
Ethylbenzene		0.77 J
m&p-Xylenes		2.3
Naphthalene		0.15 J
o-Xylene		0.89
Tetrachloroethene		0.13 J
Toluene		2.6
Trichloroethene		0.024 J

Sub-Slab Probe-7		4/24/2013	6/25/2013
1,1,1-Trichloroethane		1.2	1.6
1,1,1,2-Tetrachloroethane		0.039 U	0.037 J
1,1-Dichloroethene		0.012 J	0.019 J
1,4-Dichlorobenzene		0.035 J	0.063
Benzene		0.12 U	0.16
Carbon tetrachloride		0.14	0.14
Chloroform (Trichloromethane)		0.15 J	0.37
Ethylbenzene		0.043 J	0.12 J
Hexachlorobutadiene		0.026 J	0.039 U
m&p-Xylenes		0.13 J	0.34
Methylene chloride		0.78 U	0.37
Naphthalene		0.087 J	0.33
o-Xylene		0.035 J	0.17
Styrene		0.78 U	0.30 J
Tetrachloroethene		12	15
Toluene		0.26 J	0.34
trans-1,2-Dichloroethene		0.039 U	0.020 J
Trichloroethene		10(h,i)	14(h,i)
Vinyl chloride		0.039 U	0.0051 J

Indoor Air-7		4/24/2013	7/1/2013
1,1,1-Trichloroethane		0.032 J	0.050 U
1,1-Dichloroethene		0.022 J	-
1,2,4-Trimethylbenzene		4.7(g)	16(g)
1,3,5-Trimethylbenzene		1.5	-
1,4-Dichlorobenzene		0.14 J	1.3(a)
Benzene		0.71(f)	0.65(f)
Carbon tetrachloride		0.45(f)	-
Chloroform (Trichloromethane)		0.19(f)	-
Ethylbenzene		1.0	4.1
m&p-Xylenes		2.9	16
Naphthalene		0.16	-
o-Xylene		1.1	5.6
Styrene		0.35 J	1.9
Tetrachloroethene		4.1	6.9
Toluene		2.6	3.9
Trichloroethene		3.9(a,f,g)	3.1(a,f,g)
Vinyl chloride		0.0042 J	-

SCREENING CRITERIA (ug/m3)									
	EPA RSL		Indoor Air		MTCA		Sub-Slab ¹		
	C	NC	C	NC	C	NC	C	NC	
Volatile Organic Compounds	a	b	c	d	e	f	g	h	i
1,1,1-Trichloroethane		22000		220000		2286		22857	
1,1,2,2-Tetrachloroethane	0.21		2.1		0.043		0.43		
1,1-Dichloroethene		880		8800		91		914	
1,2,4-Trichlorobenzene		8.8		88		0.91		9.1	
1,2,4-Trimethylbenzene		31		310		3.2		32	
1,3,5-Trimethylbenzene									
1,4-Dichlorobenzene	1.1	3500	11	35000		366		3657	
Benzene	1.6	130	16	1300	0.32	14	3.2	137	
Carbon tetrachloride	2	440	20	4400	0.42	46	4.2	457	
Chloroform (Trichloromethane)	0.53	430	5.3	4300	0.11		1.1		
cis-1,2-Dichloroethene									
Ethylbenzene	4.9	4400	49	44000		457		4571	
Hexachlorobutadiene	0.56		5.6		0.11		1.1		
m&p-Xylenes									
Methylene chloride	1200	2600	12000	26000	250	274	2500	2743	
Naphthalene	0.36	13	3.6	130		1.4		14	
o-Xylene		440		4400		46		457	
Styrene		4400		44000		457		4571	
Tetrachloroethene	47	180	470	1800	9.6	18	96	183	
Toluene		22000		220000		2286		22857	
trans-1,2-Dichloroethene		260		2600		27		274	
Trichloroethene	3	8.8	30	88	8.4	0.61	0.91	6.1	9.1
Vinyl chloride	2.8	440	28	4400	0.28	46	2.8	457	

NOTE: ¹ INDOOR AIR CONCENTRATION DIVIDED BY 0.1

- LEGEND**
- BUILDING OUTLINE
 - ▲ VAPOR INVESTIGATION SAMPLING LOCATION
 - SAMPLE LOCATION
 - SAMPLE DATE
 - RESULT (ug/m³)
 - PARAMETER
 - (a) EXCEEDS CRITERIA IDENTIFIED IN PARENTHESIS

Sub-Slab Probe-7	4/24/2013
1,1,1-Trichloroethane	1.2
Chloroform (Trichloromethane)	0.15 J

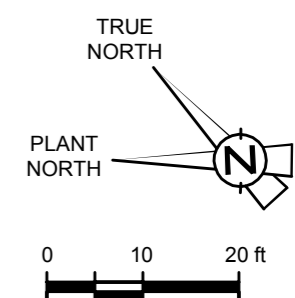


figure 4.24
DETECTED PARAMETERS - BUILDING 326
Occidental Chemical Corporation, Tacoma, Washington

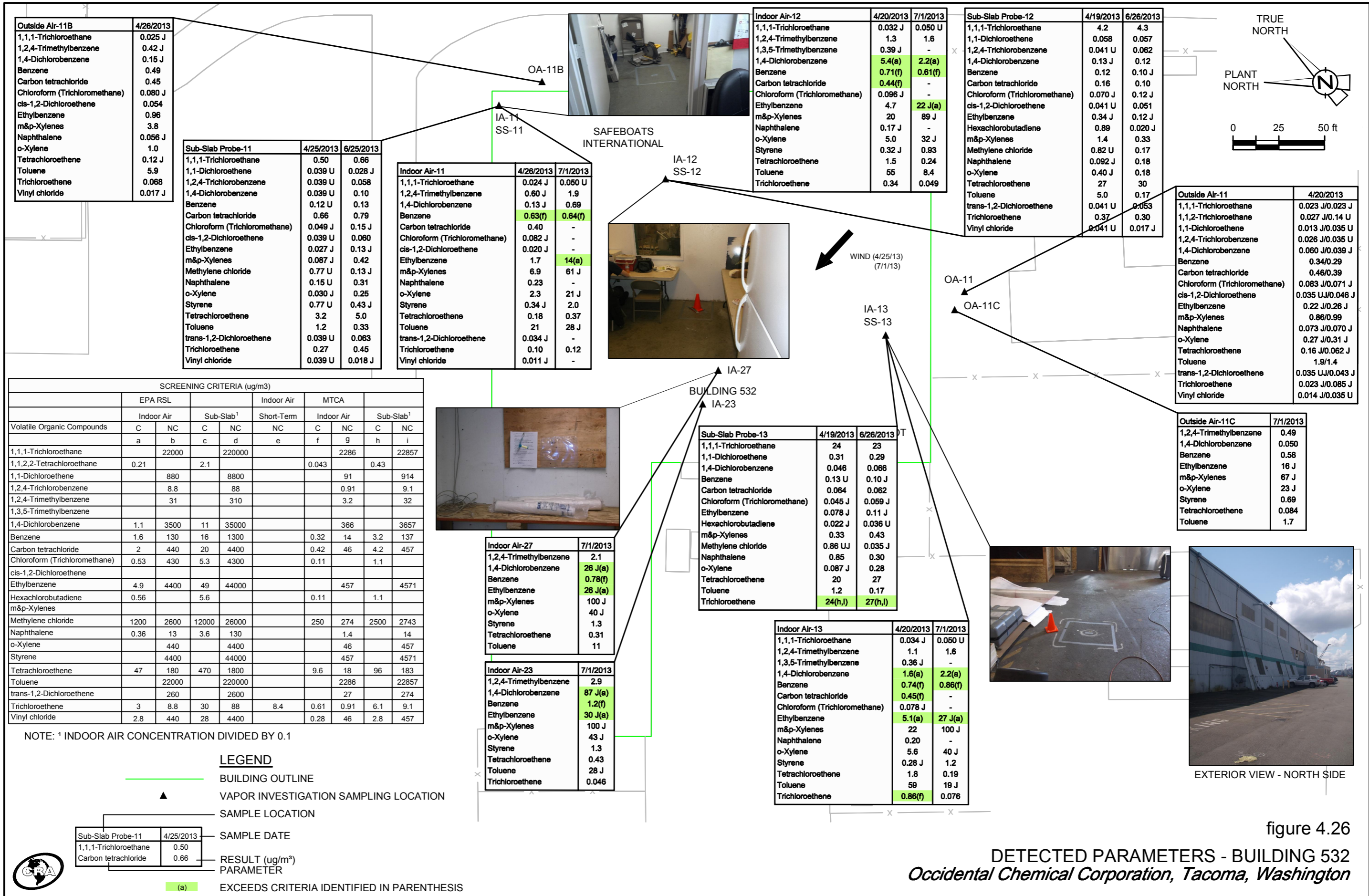


figure 4.26
 DETECTED PARAMETERS - BUILDING 532
 Occidental Chemical Corporation, Tacoma, Washington

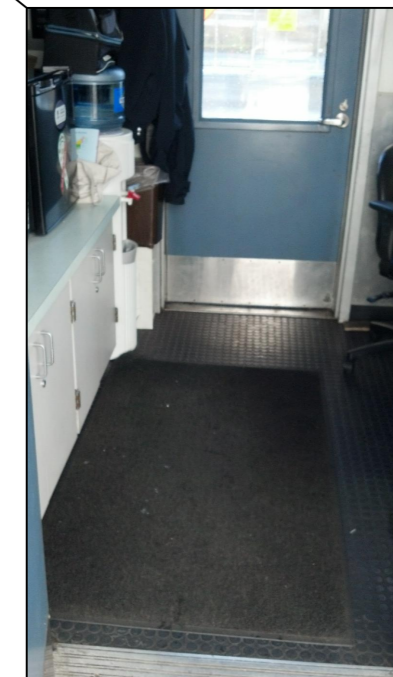
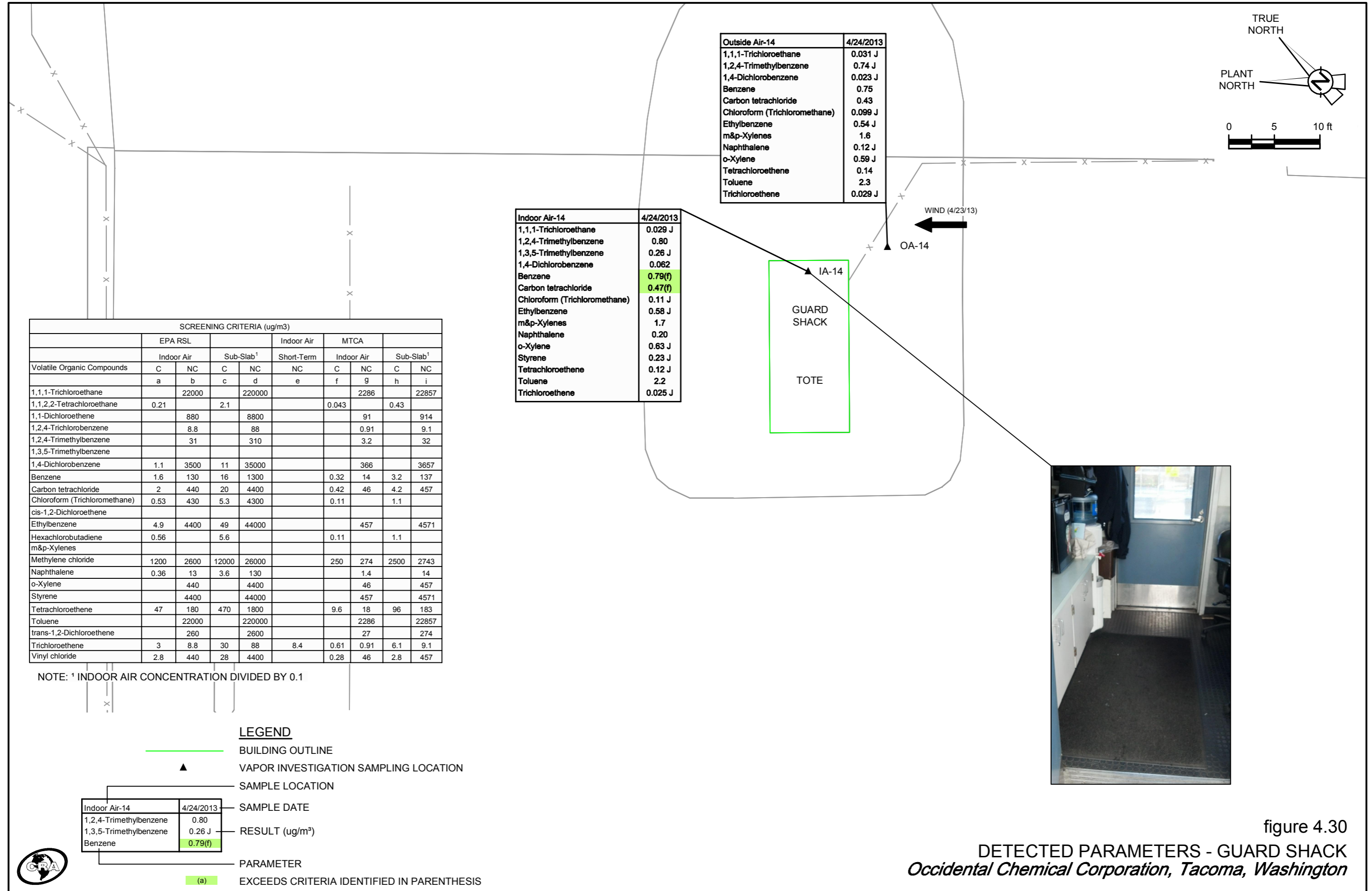


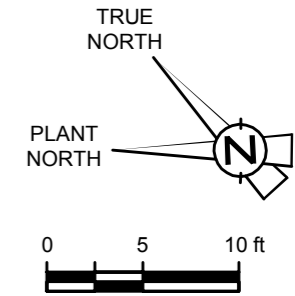
figure 4.30
DETECTED PARAMETERS - GUARD SHACK
Occidental Chemical Corporation, Tacoma, Washington

Indoor Air-15	4/18/2013
1,1,1-Trichloroethane	0.027 J
1,2,4-Trimethylbenzene	0.59 J
1,4-Dichlorobenzene	0.14
Benzene	0.96(f)
Carbon tetrachloride	0.47(f)
Chloroform (Trichloromethane)	0.24(f)
cis-1,2-Dichloroethene	0.071
Ethylbenzene	0.59 J
Hexachlorobutadiene	0.046
m&p-Xylenes	1.7
Naphthalene	0.36
o-Xylene	0.57 J
Styrene	0.21 J
Tetrachloroethene	8.8
Toluene	3.3
Trichloroethene	5.0(a,f,g)

Sub-Slab Probe-15	4/17/2013
1,1,1-Trichloroethane	74
1,1,2,2-Tetrachloroethane	13(c,h)
1,1,2-Trichloroethane	19 J(c,d,h)
1,1-Dichloroethene	5.6 J
Carbon tetrachloride	2.1 J
Chloroform (Trichloromethane)	42(c,h)
cis-1,2-Dichloroethene	97
Hexachlorobutadiene	29(c,h)
Tetrachloroethene	30000(c,d,h,i)
trans-1,2-Dichloroethene	10
Trichloroethene	18000(c,d,h,i)



EXTERIOR VIEW - WEST SIDE



OCC OFFICE BUILDING

IA-16
SS-16

Sub-Slab Probe-16	4/17/2013
1,1,1-Trichloroethane	62
1,1,2,2-Tetrachloroethane	4.7 J(c,h)
1,1,2-Trichloroethane	3.2 J(h)
1,1-Dichloroethene	1.5 J
Carbon tetrachloride	3.1 J
Chloroform (Trichloromethane)	28(c,h)
cis-1,2-Dichloroethene	9.4
Ethylbenzene	5.2 J
Hexachlorobutadiene	28(c,h)
m&p-Xylenes	3.8 J
o-Xylene	3.3 J
Tetrachloroethene	21000(c,d,h,i)
trans-1,2-Dichloroethene	10
Trichloroethene	6000(c,d,h,i)

Indoor Air-16	4/18/2013
1,1,1-Trichloroethane	0.034 J
1,2,4-Trimethylbenzene	0.54 J
1,4-Dichlorobenzene	2.9(a)
Benzene	0.48(f)
Carbon tetrachloride	0.45(f)
Chloroform (Trichloromethane)	0.58(a,f)
Ethylbenzene	0.23 J
Hexachlorobutadiene	0.021 J
m&p-Xylenes	0.88
Naphthalene	0.085 J
o-Xylene	0.37 J
Styrene	0.89
Tetrachloroethene	0.70
Toluene	1.1
Trichloroethene	0.24

SCREENING CRITERIA (ug/m3)										
	EPA RSL		Sub-Slab ¹		Indoor Air		MTCA		Sub-Slab ¹	
	Indoor Air	Sub-Slab ¹	Short-Term	Indoor Air	Sub-Slab ¹	Indoor Air	Sub-Slab ¹	Indoor Air	Sub-Slab ¹	
Volatiles Organic Compounds	C	NC	C	NC	NC	C	NC	C	NC	
	a	b	c	d	e	f	g	h	i	
1,1,1-Trichloroethane		22000		220000			2286		22857	
1,1,2,2-Tetrachloroethane	0.21		2.1			0.043		0.43		
1,1-Dichloroethene		880		8800			91		914	
1,2,4-Trichlorobenzene		8.8		88			0.91		9.1	
1,2,4-Trimethylbenzene		31		310			3.2		32	
1,3,5-Trimethylbenzene										
1,4-Dichlorobenzene	1.1	3500	11	35000			366		3657	
Benzene	1.6	130	16	1300		0.32	14	3.2	137	
Carbon tetrachloride	2	440	20	4400		0.42	46	4.2	457	
Chloroform (Trichloromethane)	0.53	430	5.3	4300		0.11		1.1		
cis-1,2-Dichloroethene										
Ethylbenzene	4.9	4400	49	44000			457		4571	
Hexachlorobutadiene	0.56		5.6			0.11		1.1		
m&p-Xylenes										
Methylene chloride	1200	2600	12000	26000		250	274	2500	2743	
Naphthalene	0.36	13	3.6	130			1.4		14	
o-Xylene		440		4400			46		457	
Styrene		4400		44000			457		4571	
Tetrachloroethene	47	180	470	1800		9.6	18	96	183	
Toluene		22000		220000			2286		22857	
trans-1,2-Dichloroethene		260		2600			27		274	
Trichloroethene	3	8.8	30	88	8.4	0.61	0.91	6.1	9.1	
Vinyl chloride	2.8	440	28	4400		0.28	46	2.8	457	

NOTE: ¹ INDOOR AIR CONCENTRATION DIVIDED BY 0.1

LEGEND

- BUILDING OUTLINE
- ▲ VAPOR INVESTIGATION SAMPLING LOCATION
- SAMPLE LOCATION
- SAMPLE DATE
- RESULT (ug/m³)
- PARAMETER
- (a) EXCEEDS CRITERIA IDENTIFIED IN PARENTHESIS



IA-15
SS-15



Outside Air-15	4/18/2013
1,1,1-Trichloroethane	0.025 J
Benzene	0.34
Carbon tetrachloride	0.47
Chloroform (Trichloromethane)	0.071 J
cis-1,2-Dichloroethene	0.024 J
Ethylbenzene	0.13 J
m&p-Xylenes	0.44
Naphthalene	0.21
o-Xylene	0.17
Tetrachloroethene	0.27
Toluene	0.81
Trichloroethene	0.046

figure 4.31

DETECTED PARAMETERS - OCC OFFICE BUILDING
Occidental Chemical Corporation, Tacoma, Washington

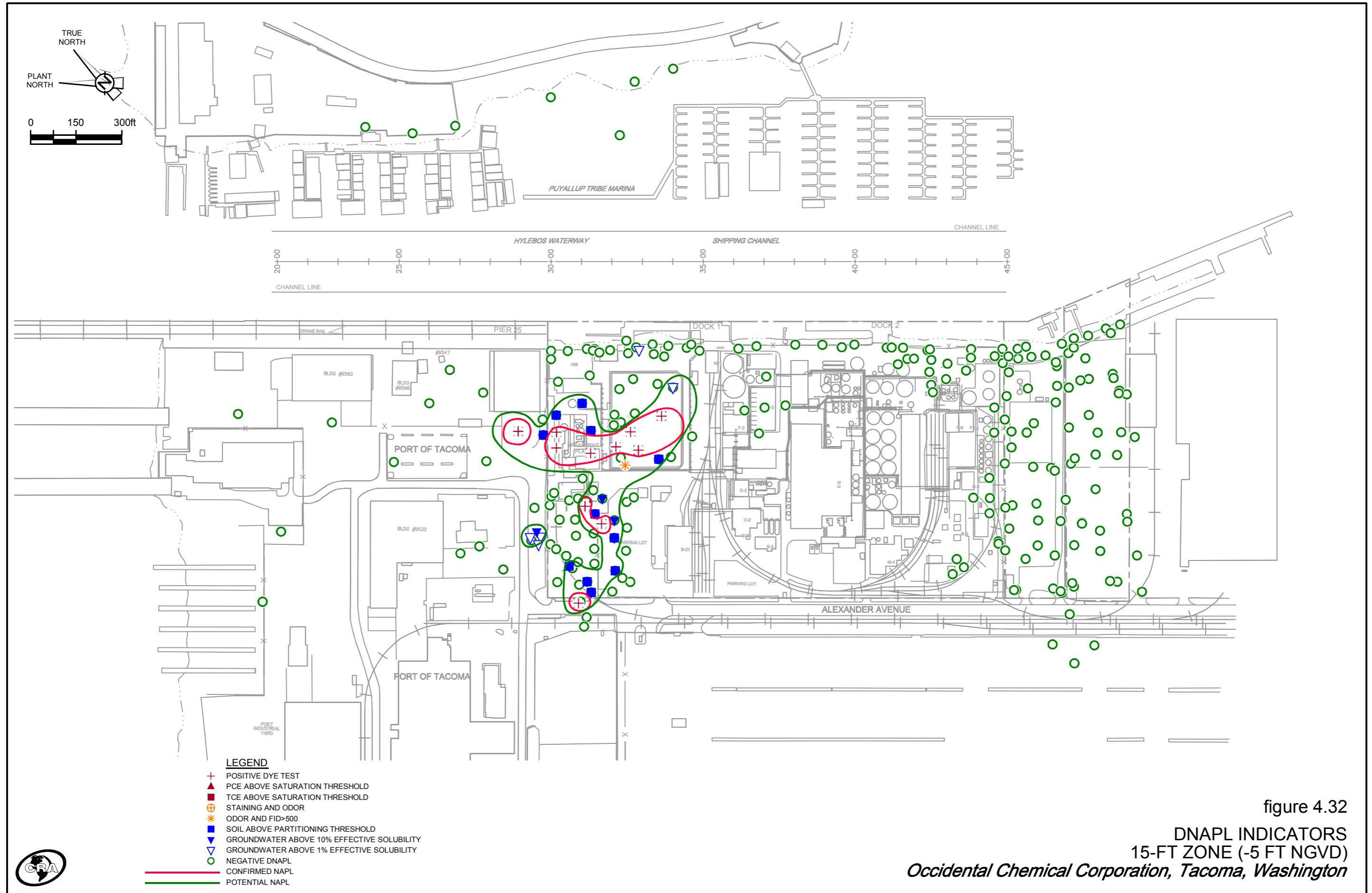
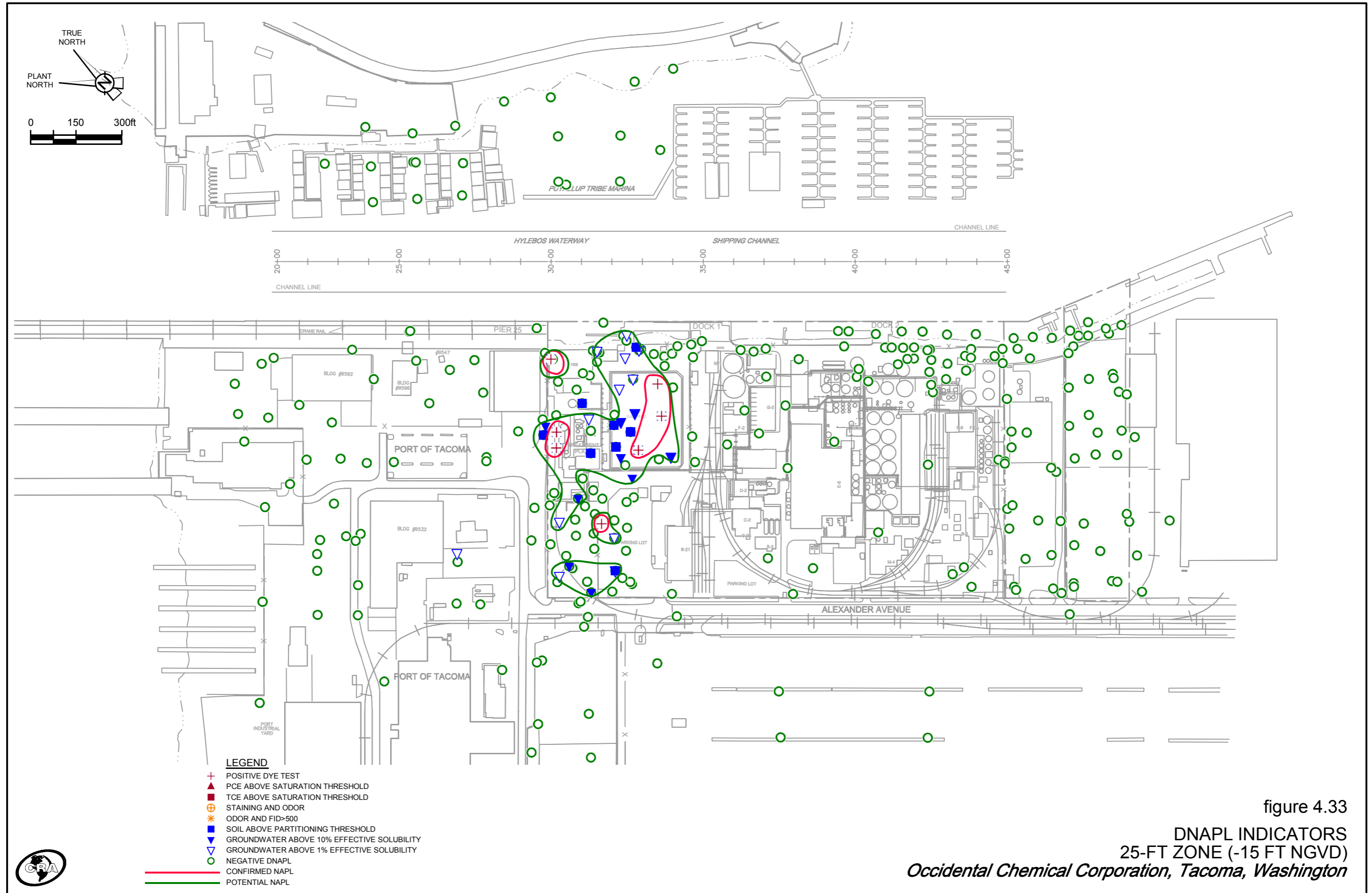


figure 4.32

DNAPL INDICATORS
15-FT ZONE (-5 FT NGVD)

Occidental Chemical Corporation, Tacoma, Washington





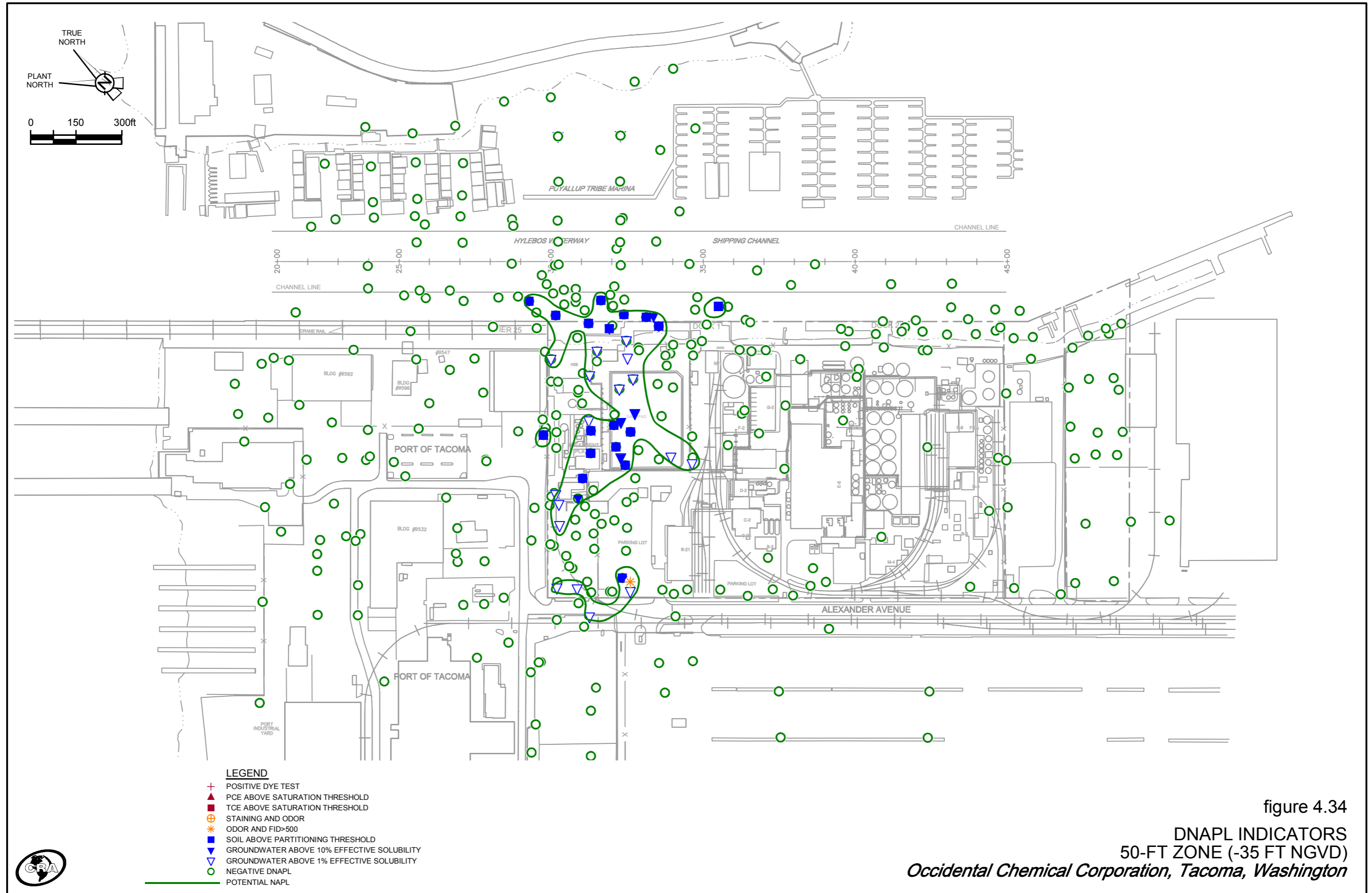


figure 4.34

DNAPL INDICATORS
50-FT ZONE (-35 FT NGVD)

Occidental Chemical Corporation, Tacoma, Washington



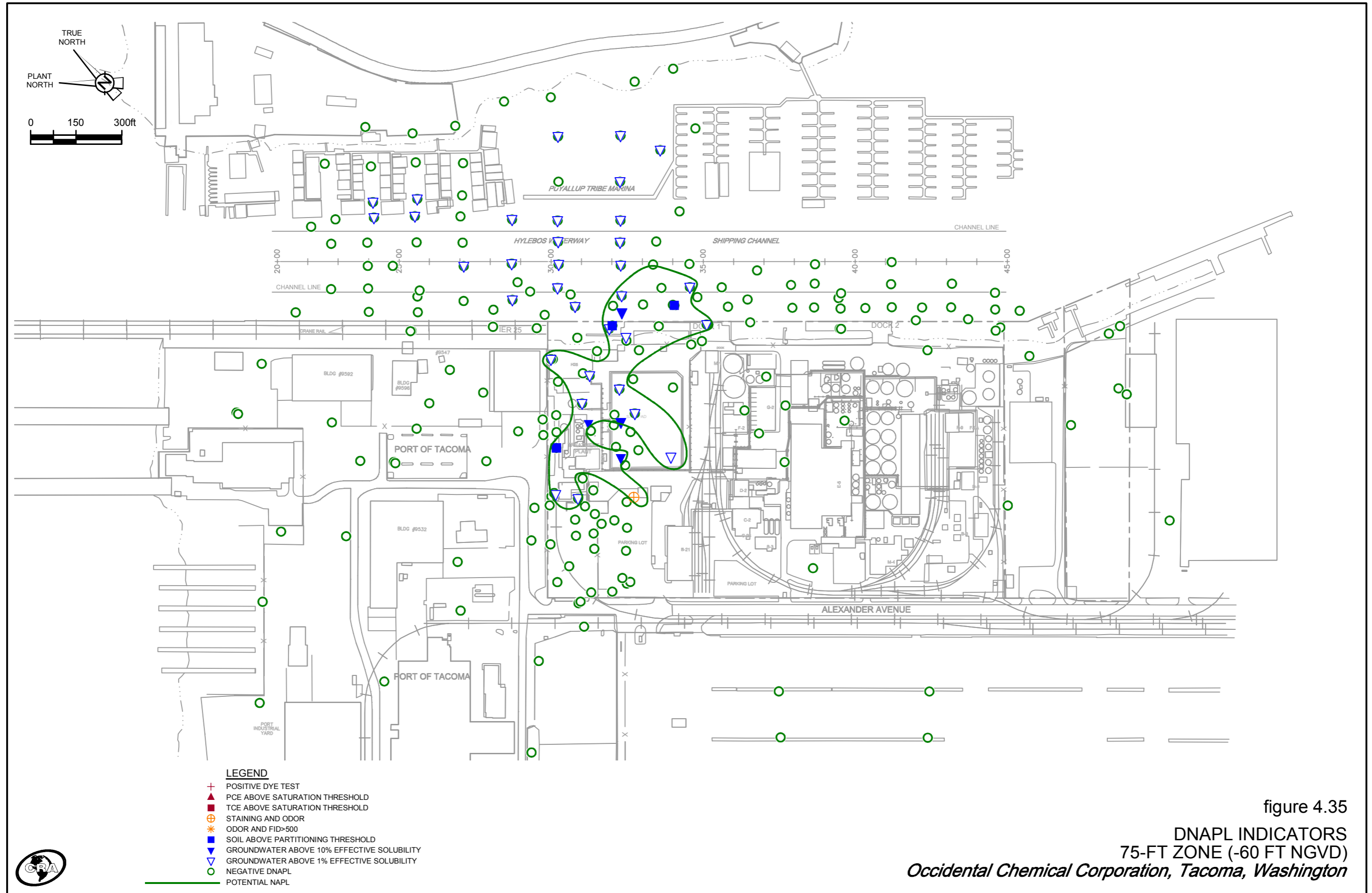


figure 4.35

DNAPL INDICATORS
75-FT ZONE (-60 FT NGVD)

Occidental Chemical Corporation, Tacoma, Washington



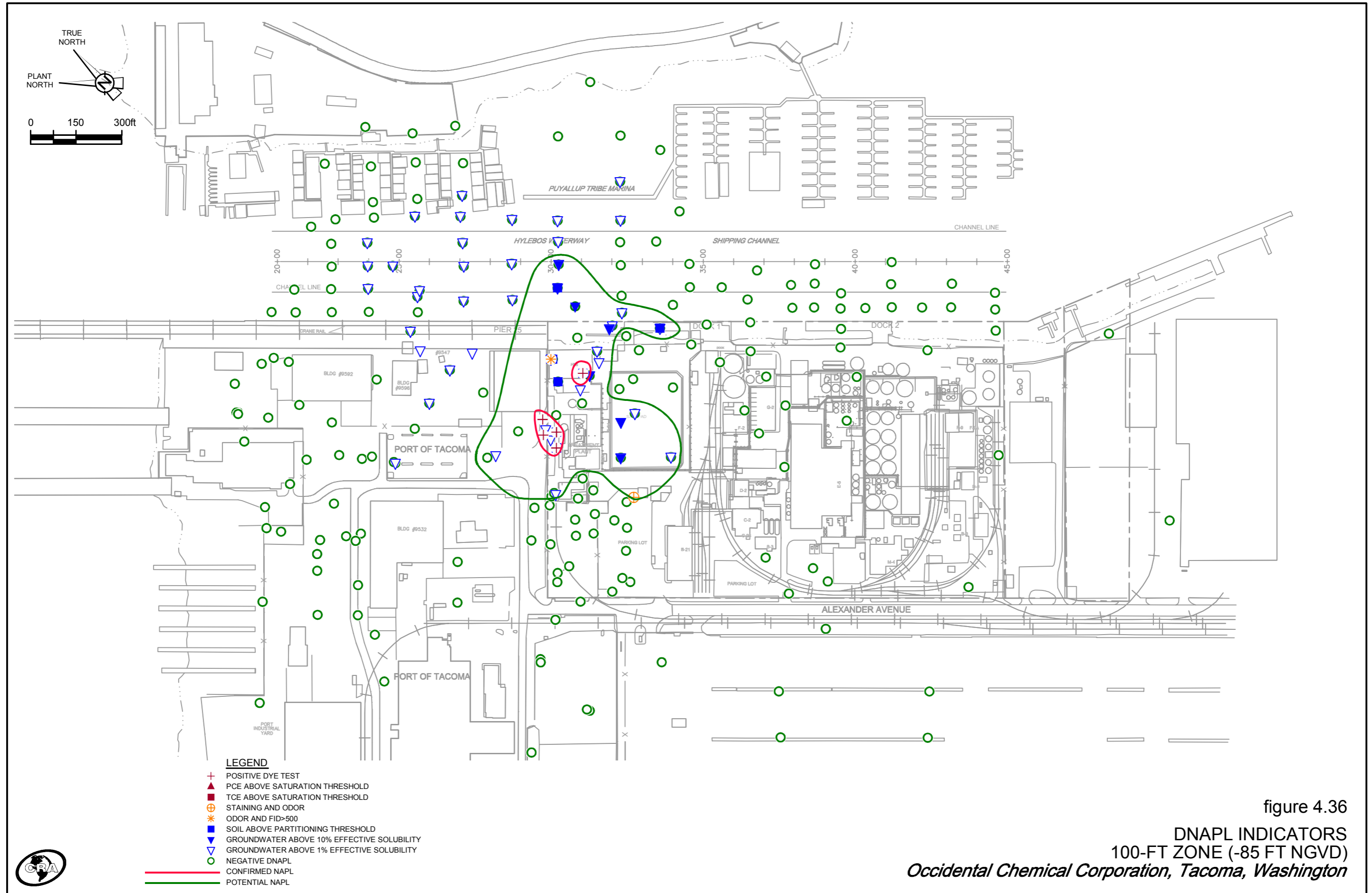
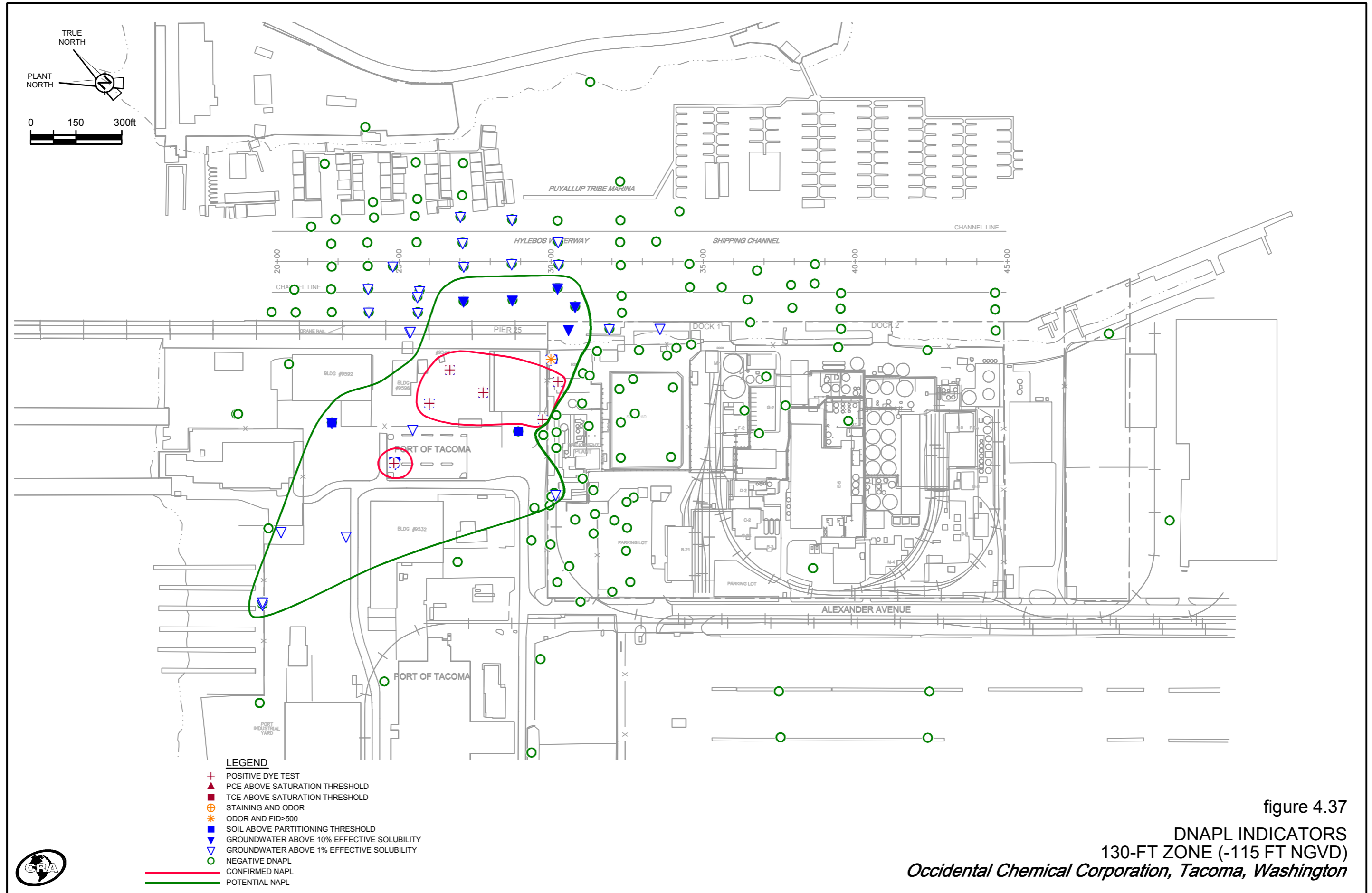


figure 4.36

DNAPL INDICATORS
100-FT ZONE (-85 FT NGVD)

Occidental Chemical Corporation, Tacoma, Washington





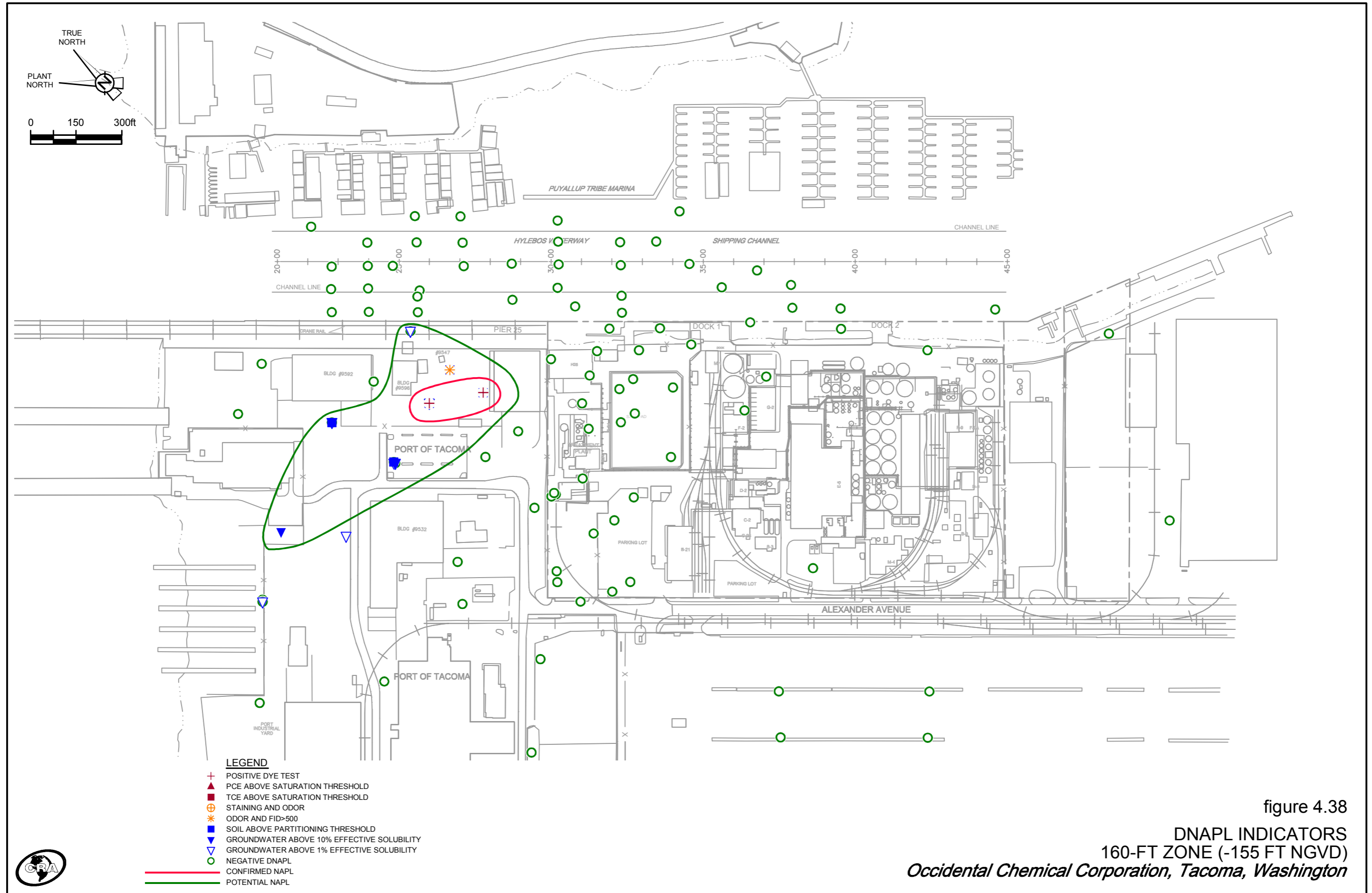


figure 4.38

DNAPL INDICATORS
160-FT ZONE (-155 FT NGVD)

Occidental Chemical Corporation, Tacoma, Washington

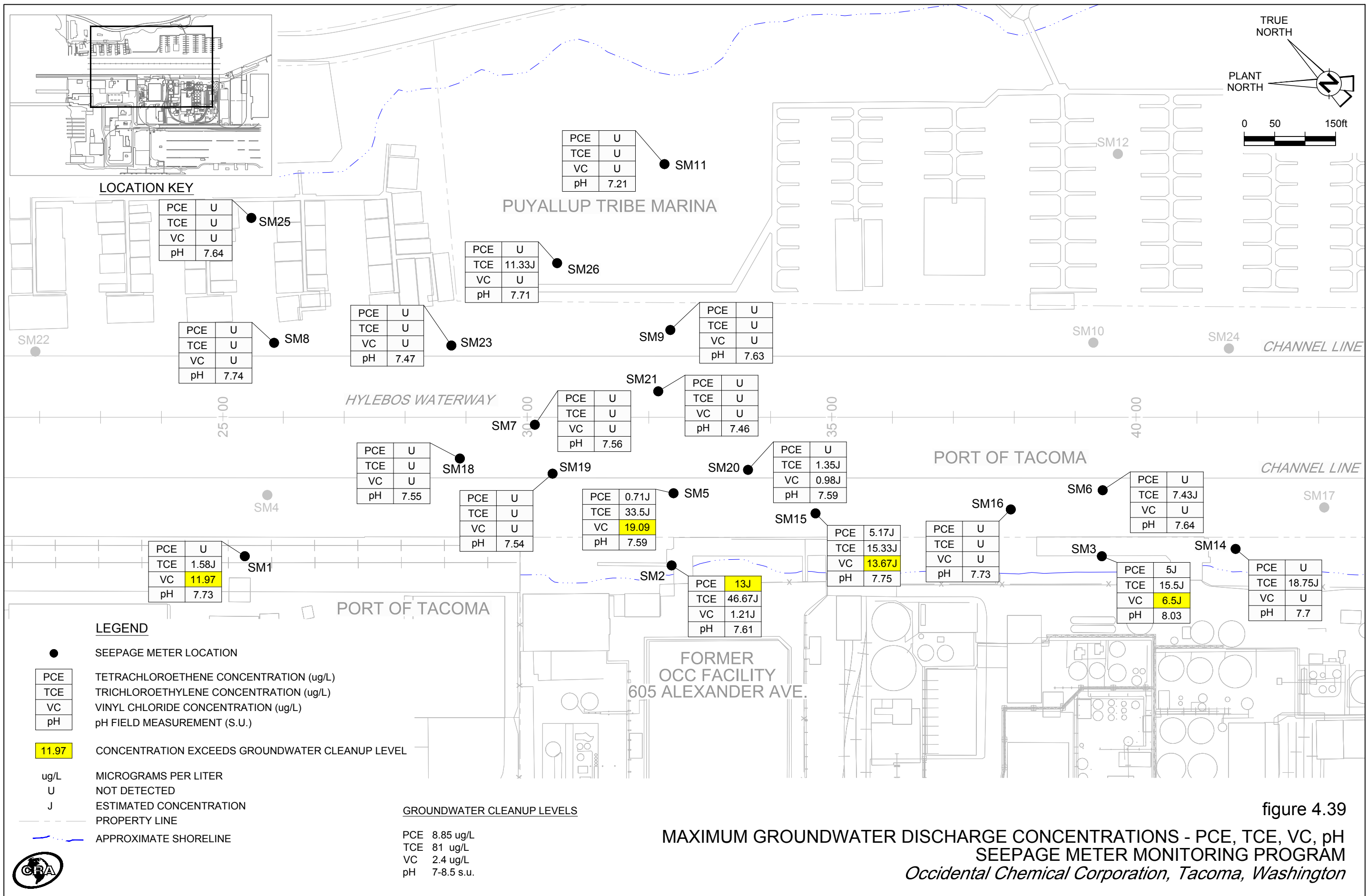
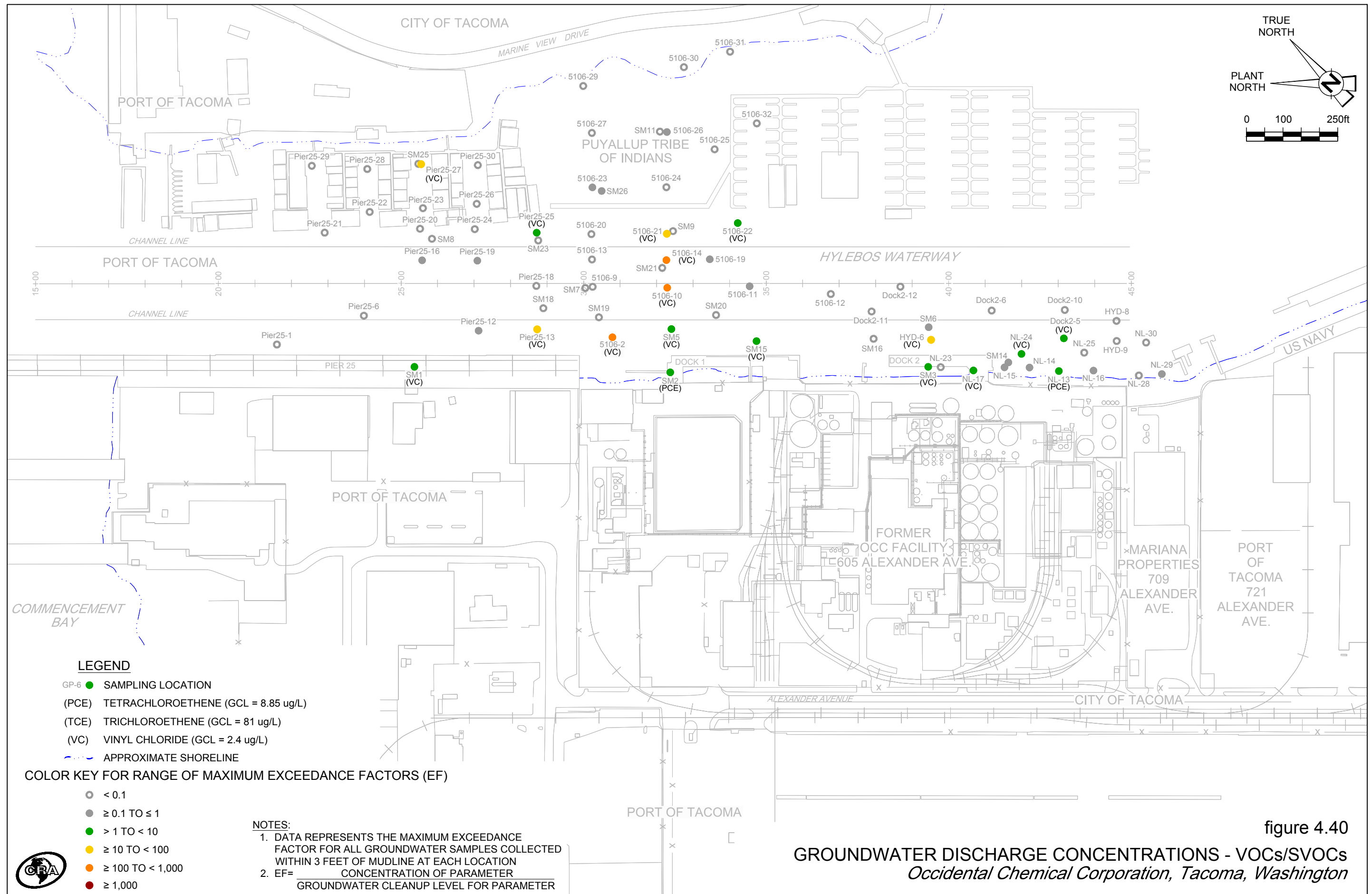


figure 4.39

MAXIMUM GROUNDWATER DISCHARGE CONCENTRATIONS - PCE, TCE, VC, pH
SEEPAGE METER MONITORING PROGRAM
Occidental Chemical Corporation, Tacoma, Washington



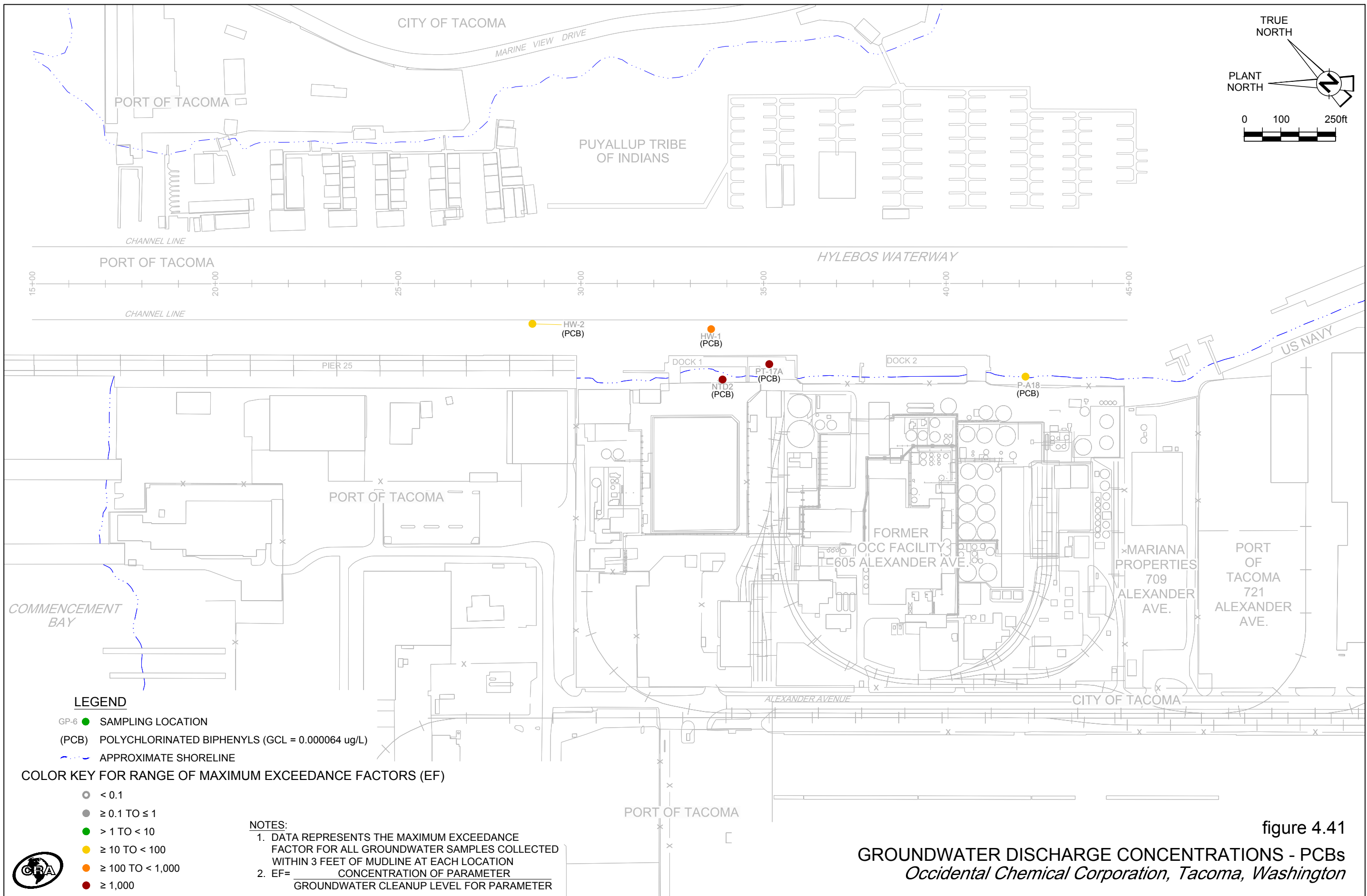


figure 4.41
GROUNDWATER DISCHARGE CONCENTRATIONS - PCBs
Occidental Chemical Corporation, Tacoma, Washington

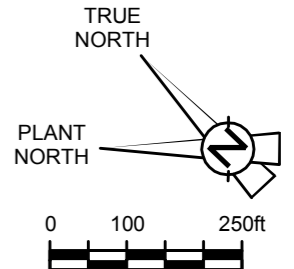
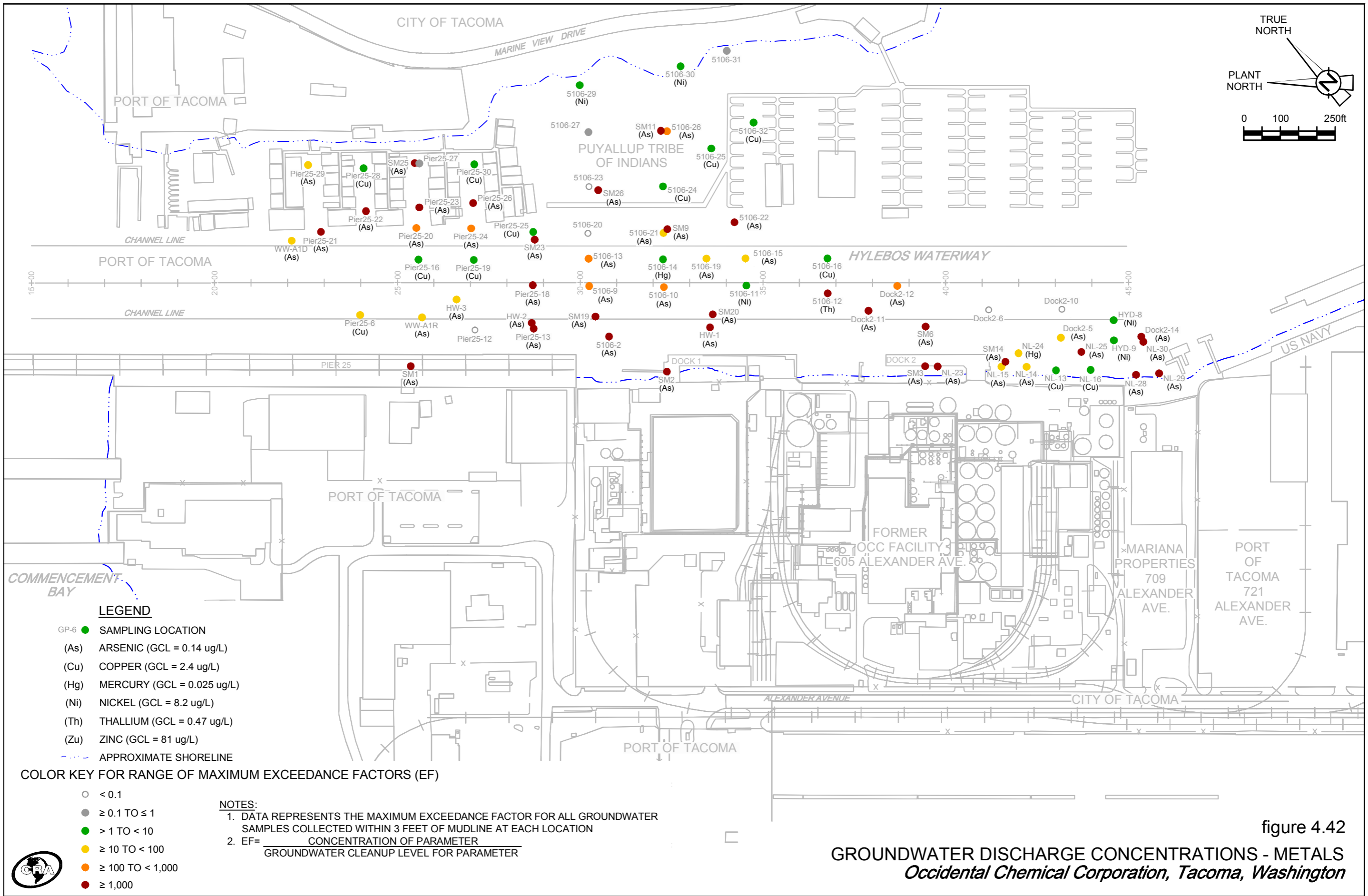


figure 4.42

GROUNDWATER DISCHARGE CONCENTRATIONS - METALS
Occidental Chemical Corporation, Tacoma, Washington

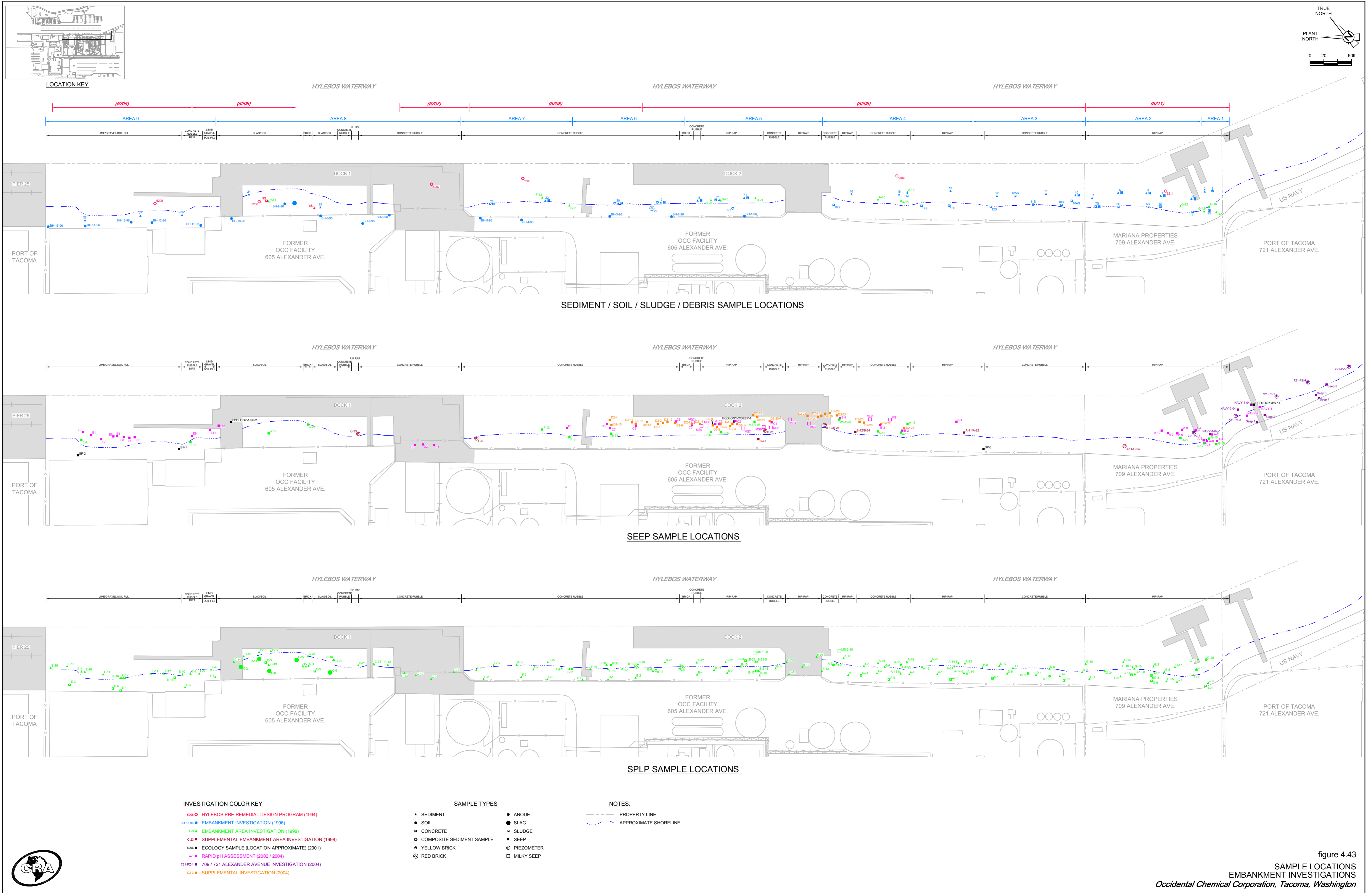


figure 4.43
SAMPLE LOCATIONS
EMBANKMENT INVESTIGATIONS
Occidental Chemical Corporation, Tacoma, Washington

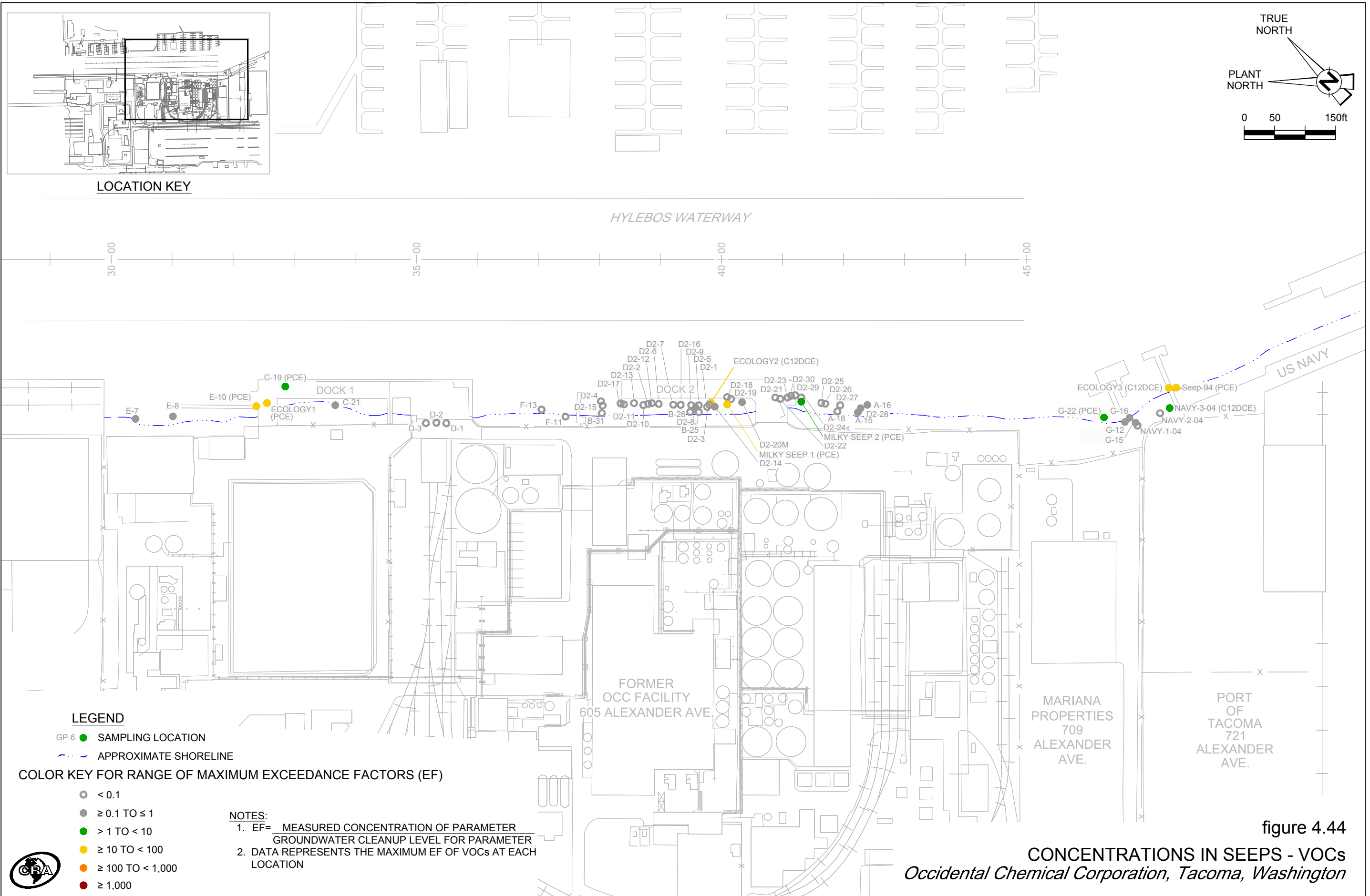
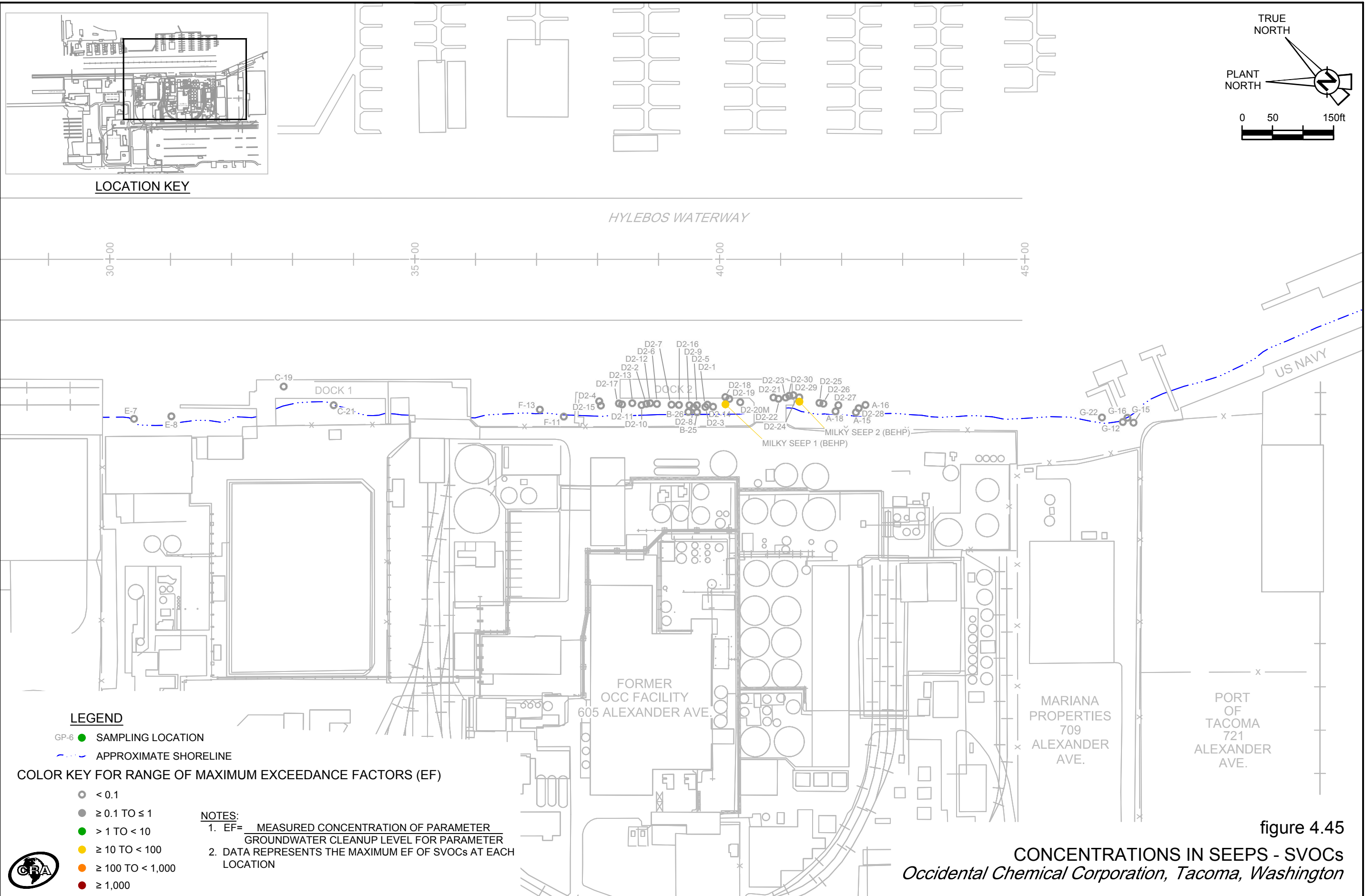


figure 4.44
CONCENTRATIONS IN SEEPS - VOCs
Occidental Chemical Corporation, Tacoma, Washington



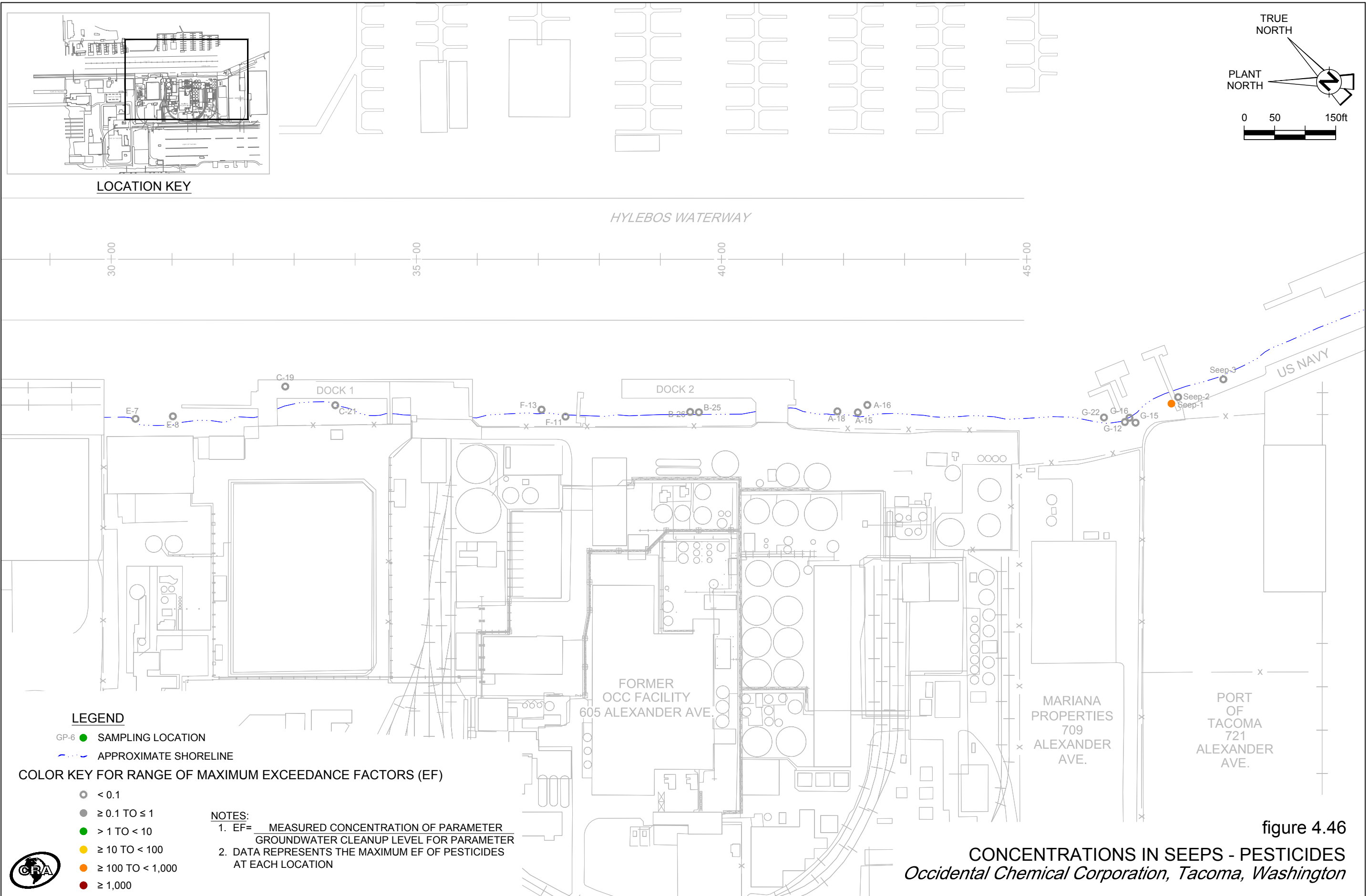
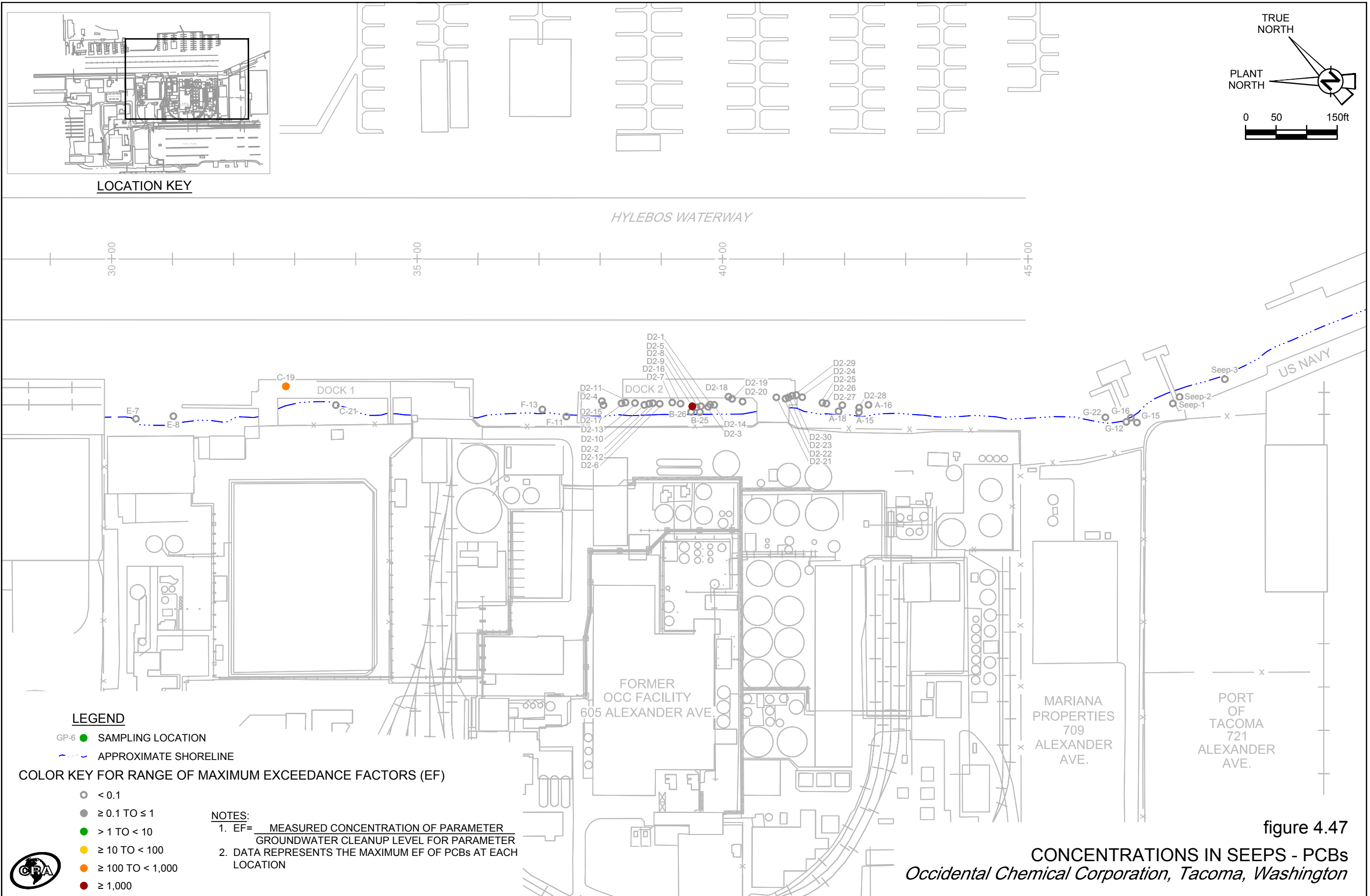


figure 4.46
CONCENTRATIONS IN SEEPS - PESTICIDES
Occidental Chemical Corporation, Tacoma, Washington



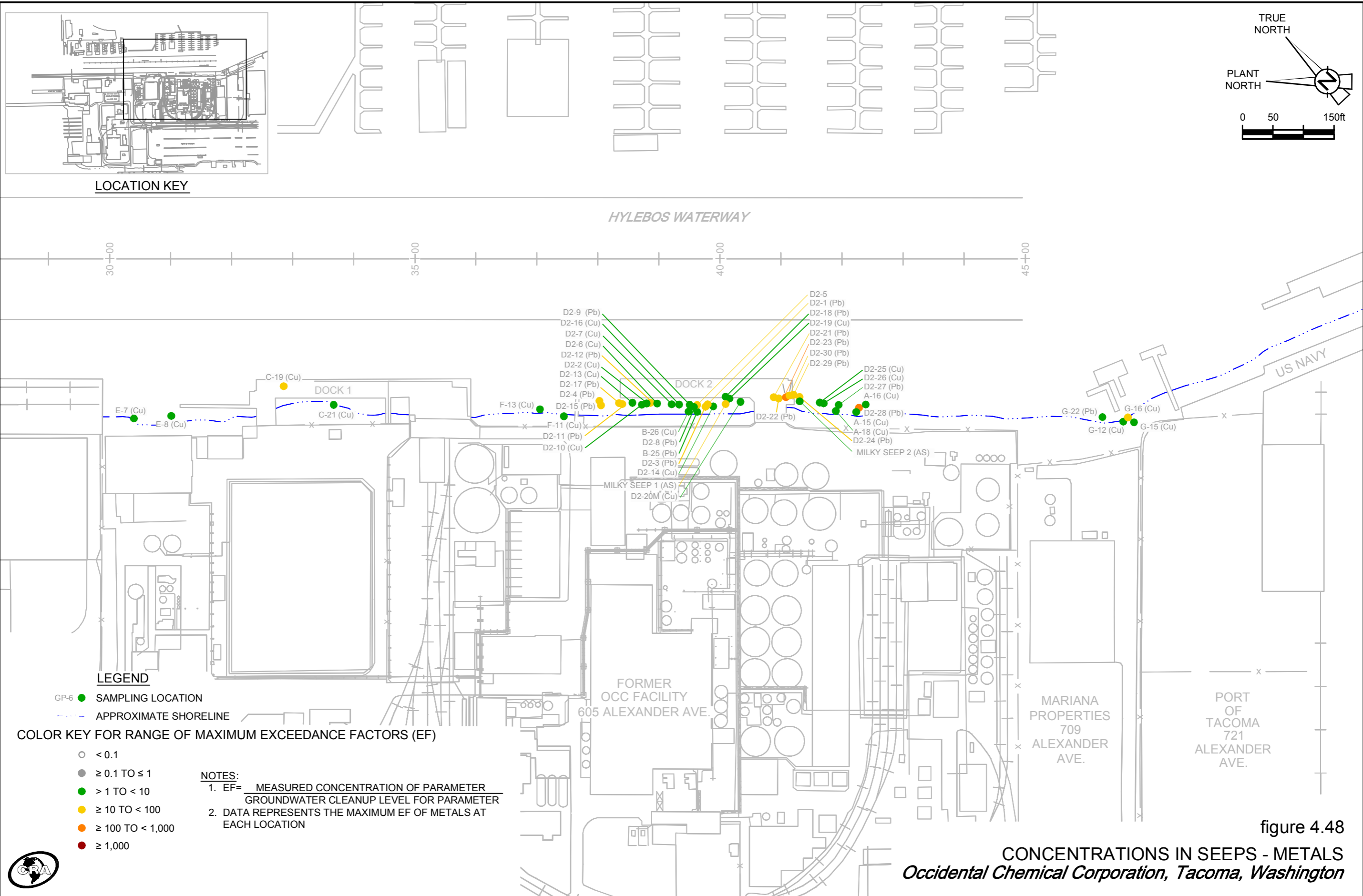
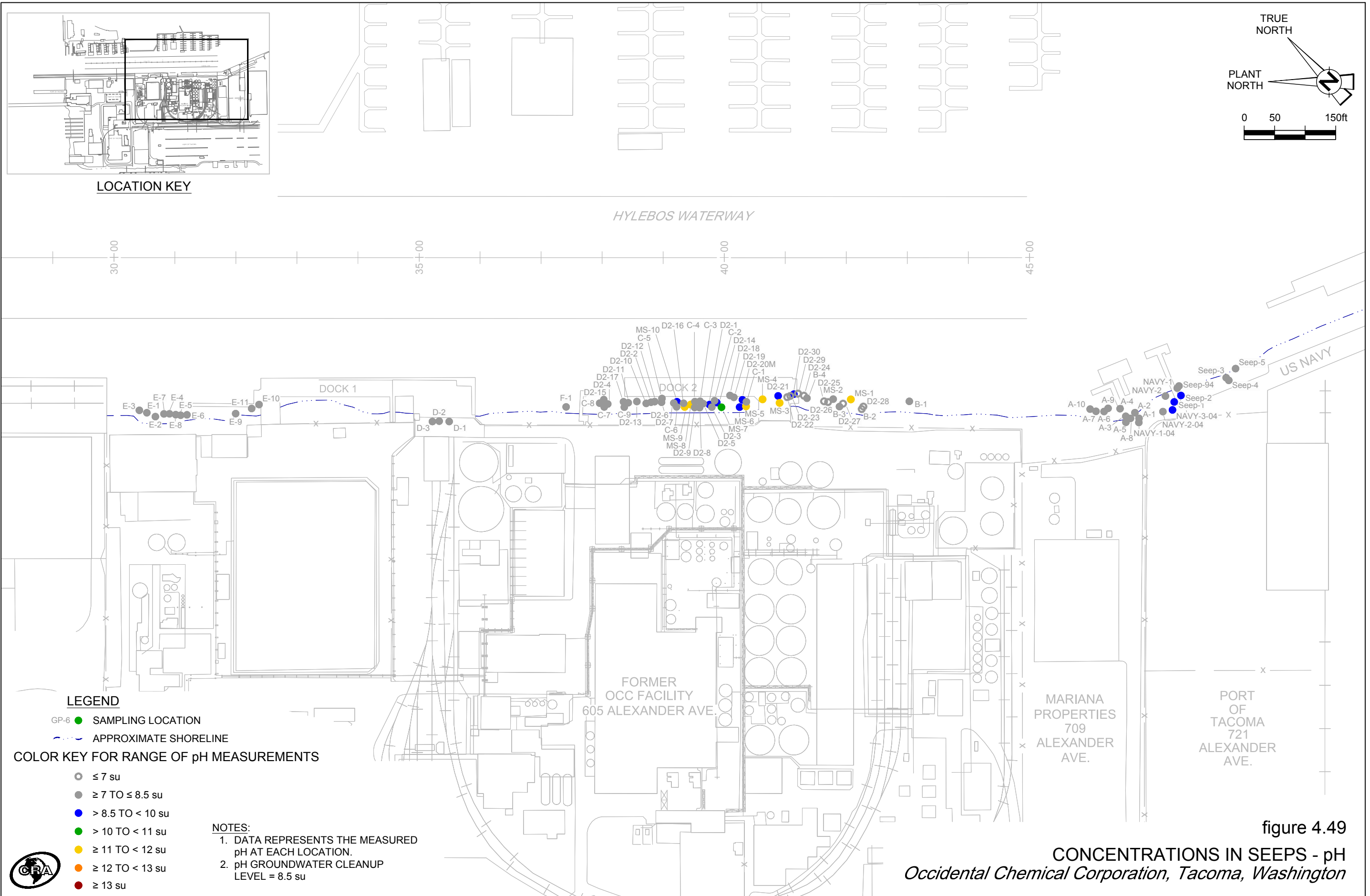
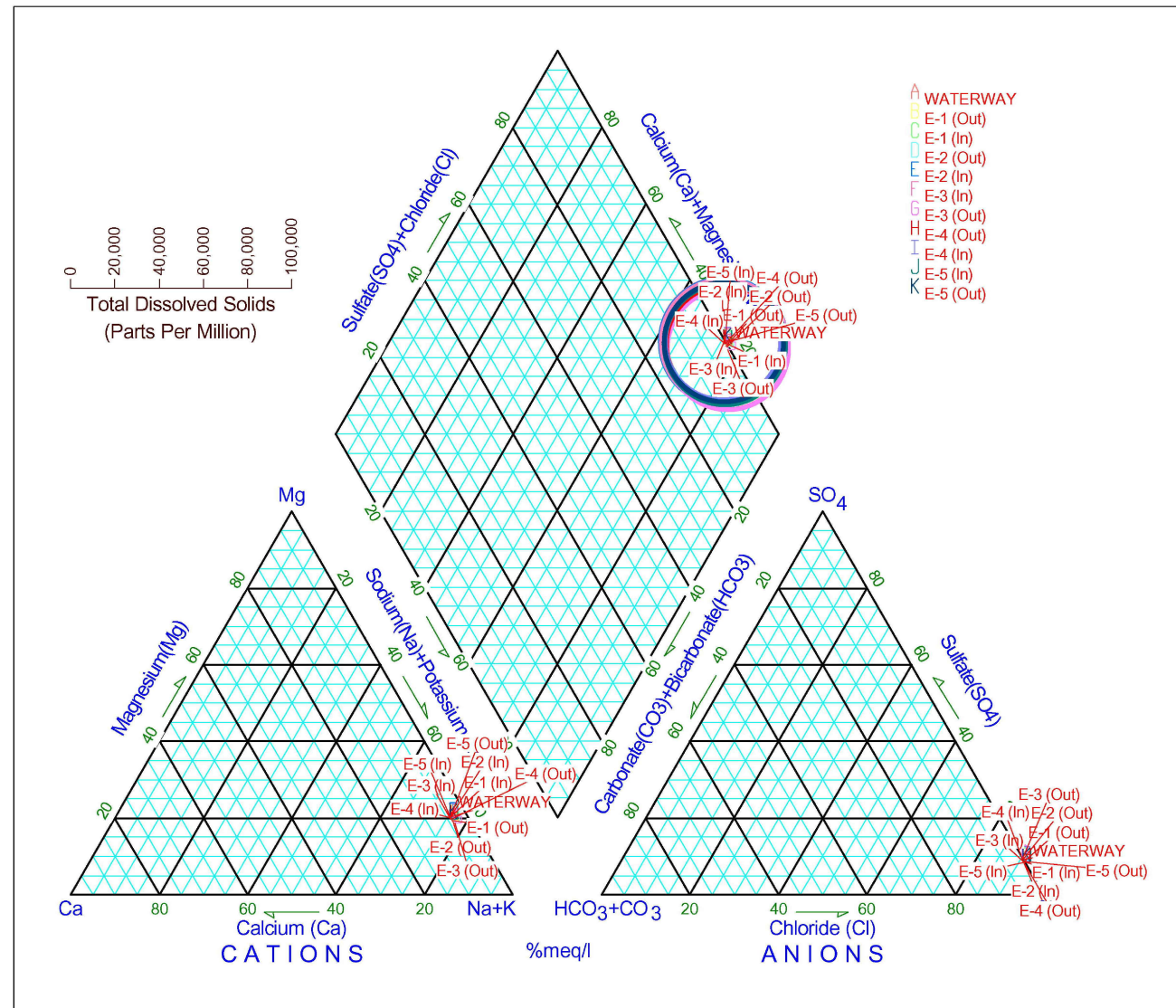


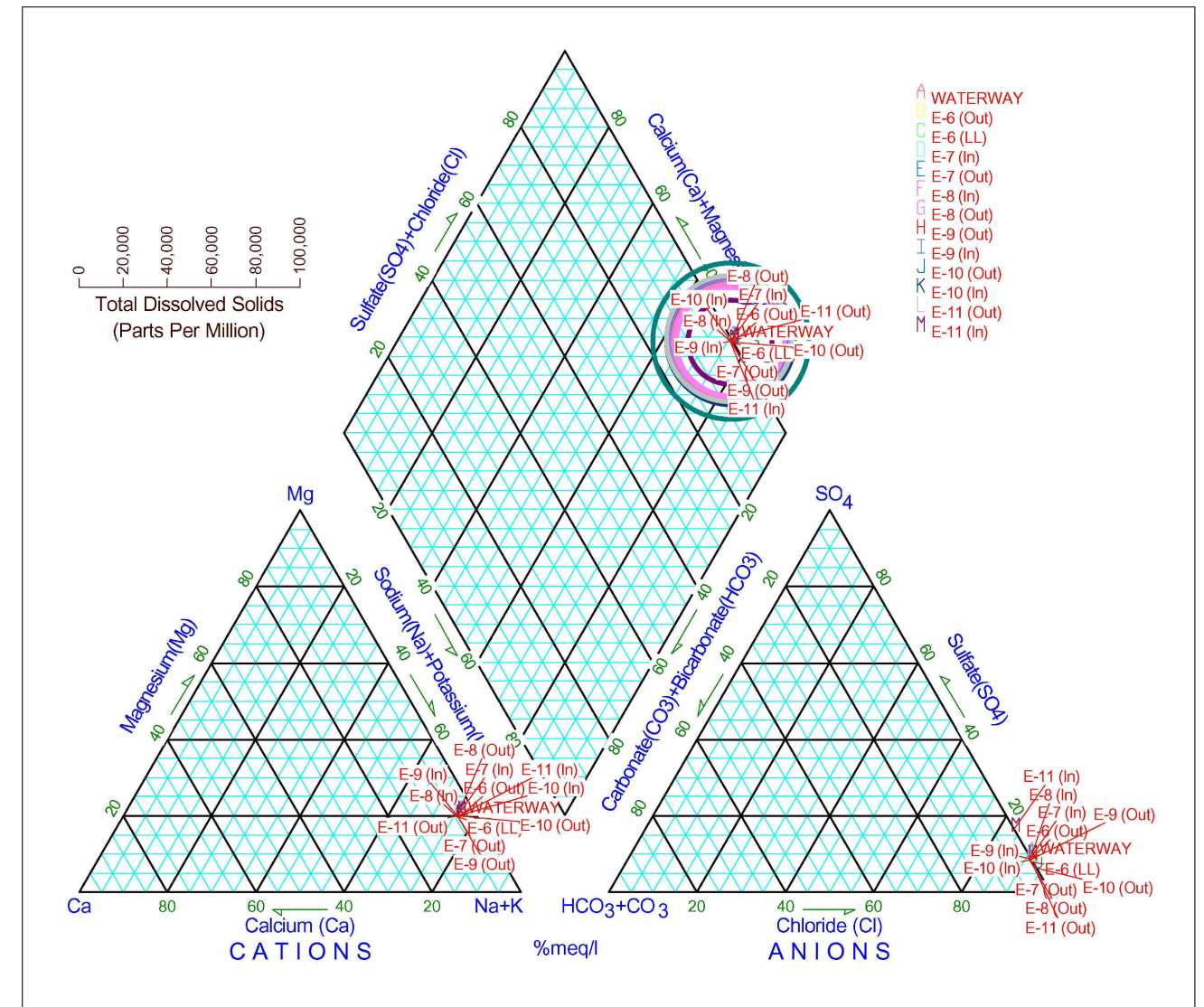
figure 4.48

CONCENTRATIONS IN SEEPS - METALS
Occidental Chemical Corporation, Tacoma, Washington





SEEPS E-1 THROUGH E-5



SEEPS E-6 THROUGH E-11

figure 4.50

PIPER DIAGRAM - BANK SEEPS
SEGMENT 1 NORTH

Occidental Chemical Corporation, Tacoma, Washington



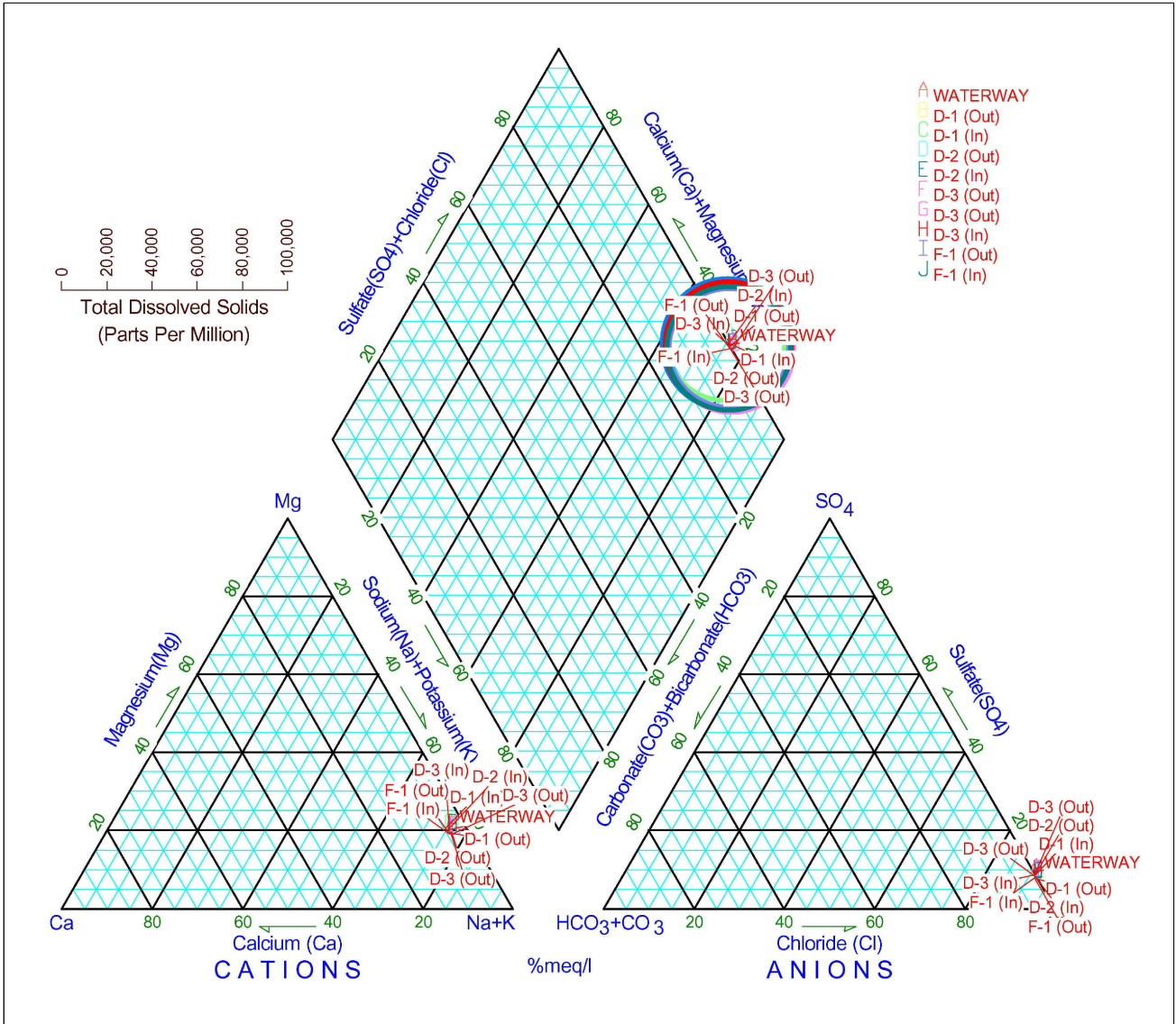
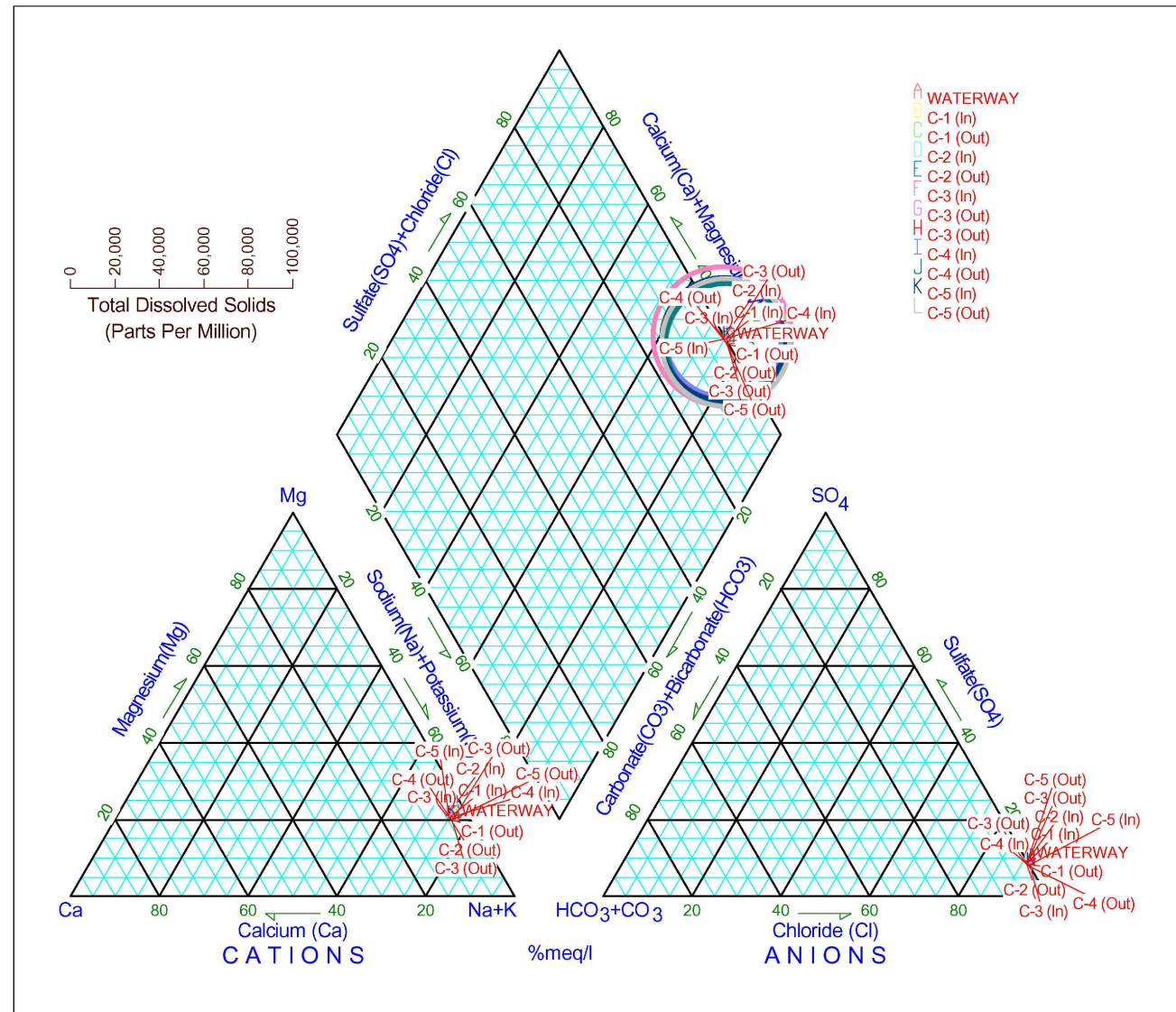


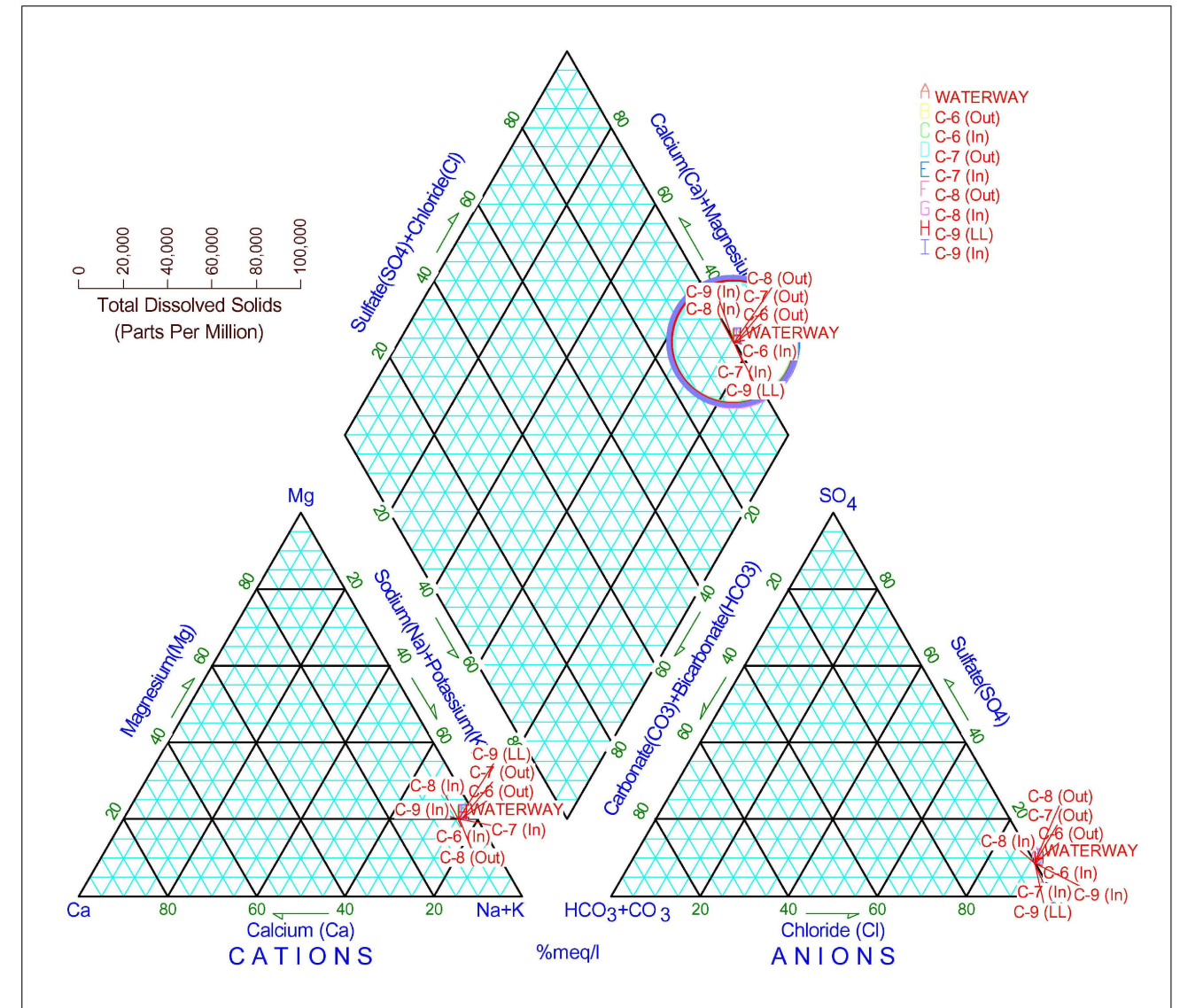
figure 4.51

PIPER DIAGRAM - BANK SEEPS
 SEGMENT 1 SOUTH
Occidental Chemical Corporation, Tacoma, Washington





SEEPS C-1 THROUGH C-5



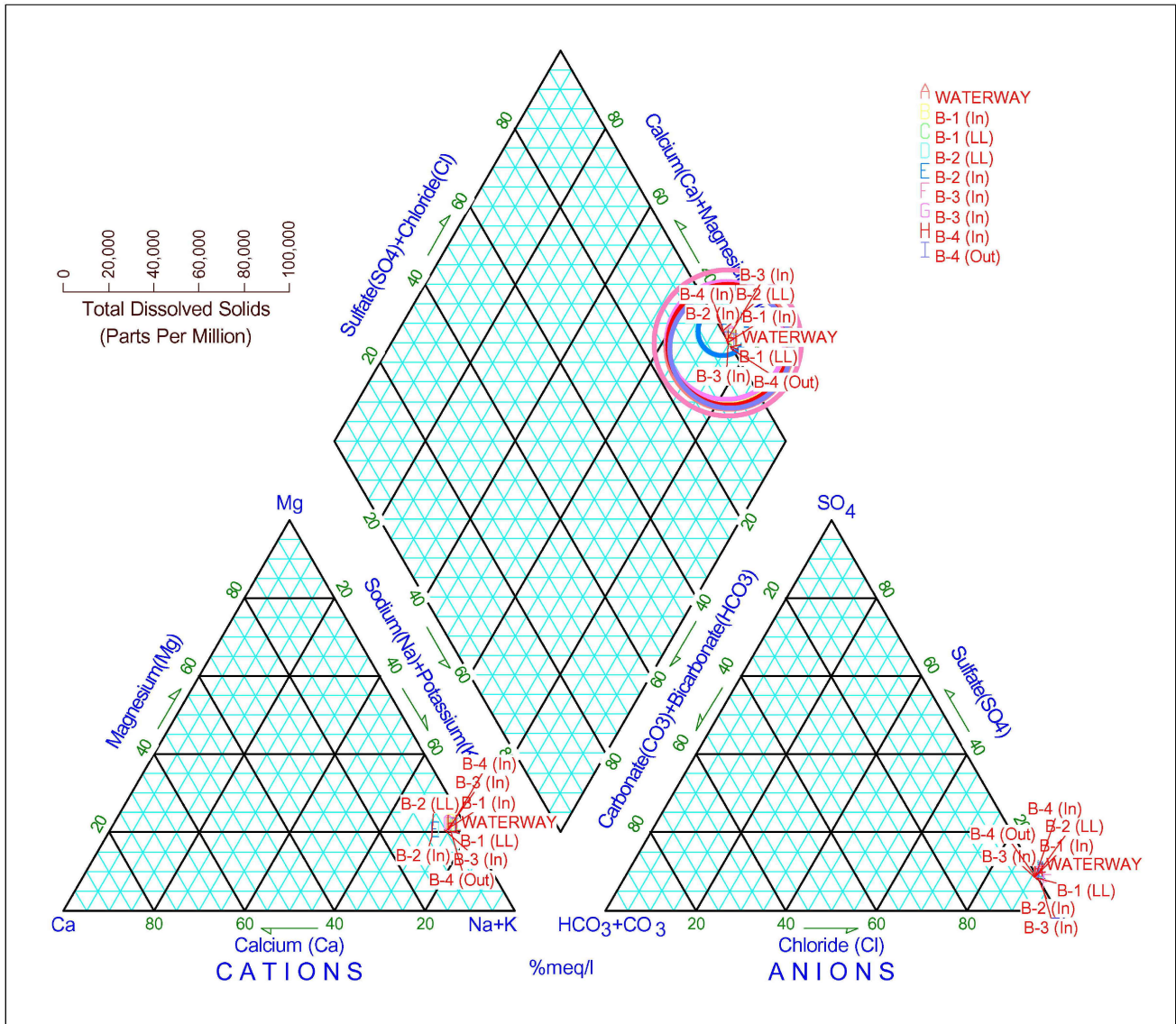
SEEPS C-6 THROUGH C-9

figure 4.52

PIPER DIAGRAM - BANK SEEPS
SEGMENT 2 NORTH

Occidental Chemical Corporation, Tacoma, Washington





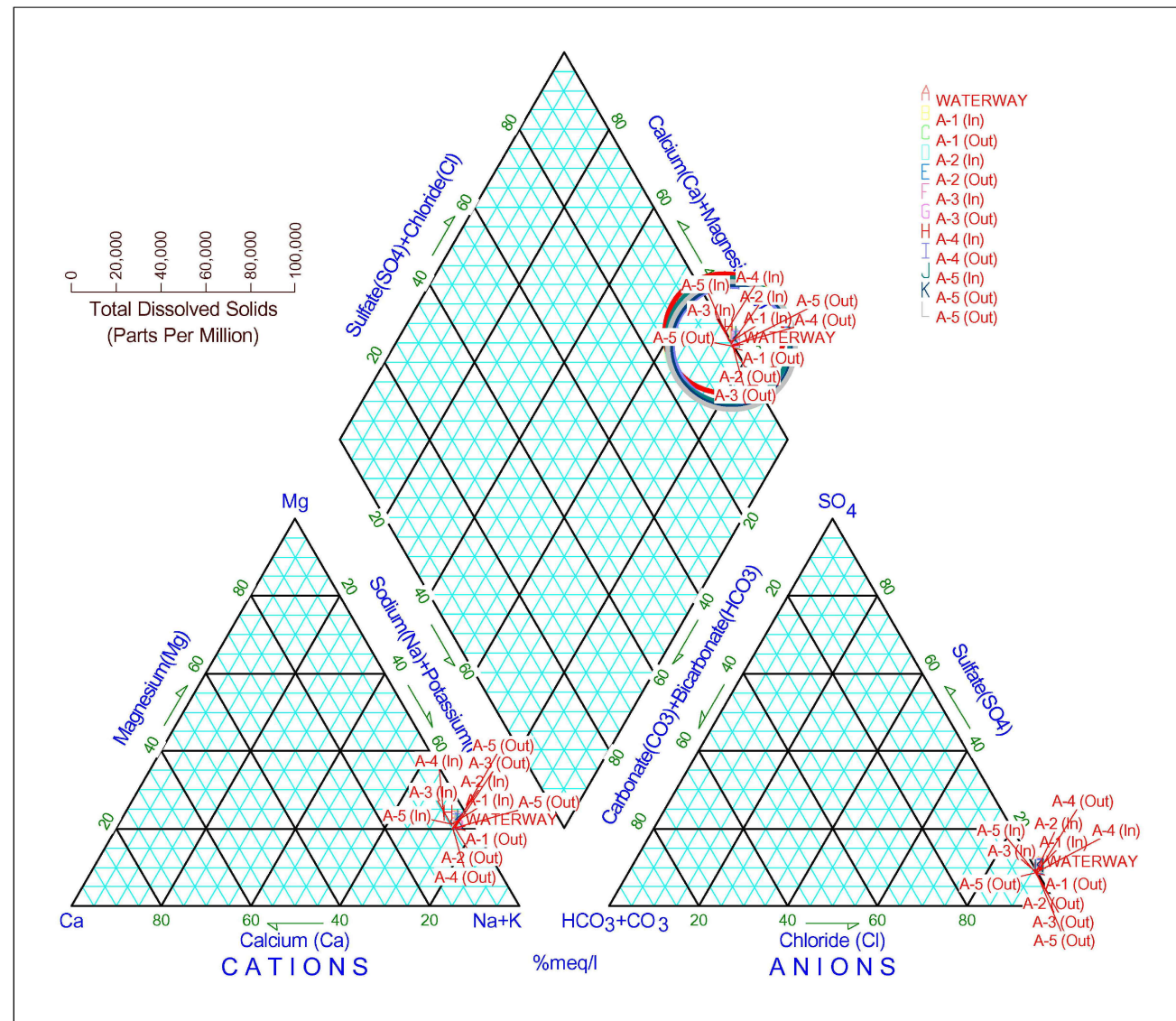
SEEPS B-1 THROUGH B-4

figure 4.53

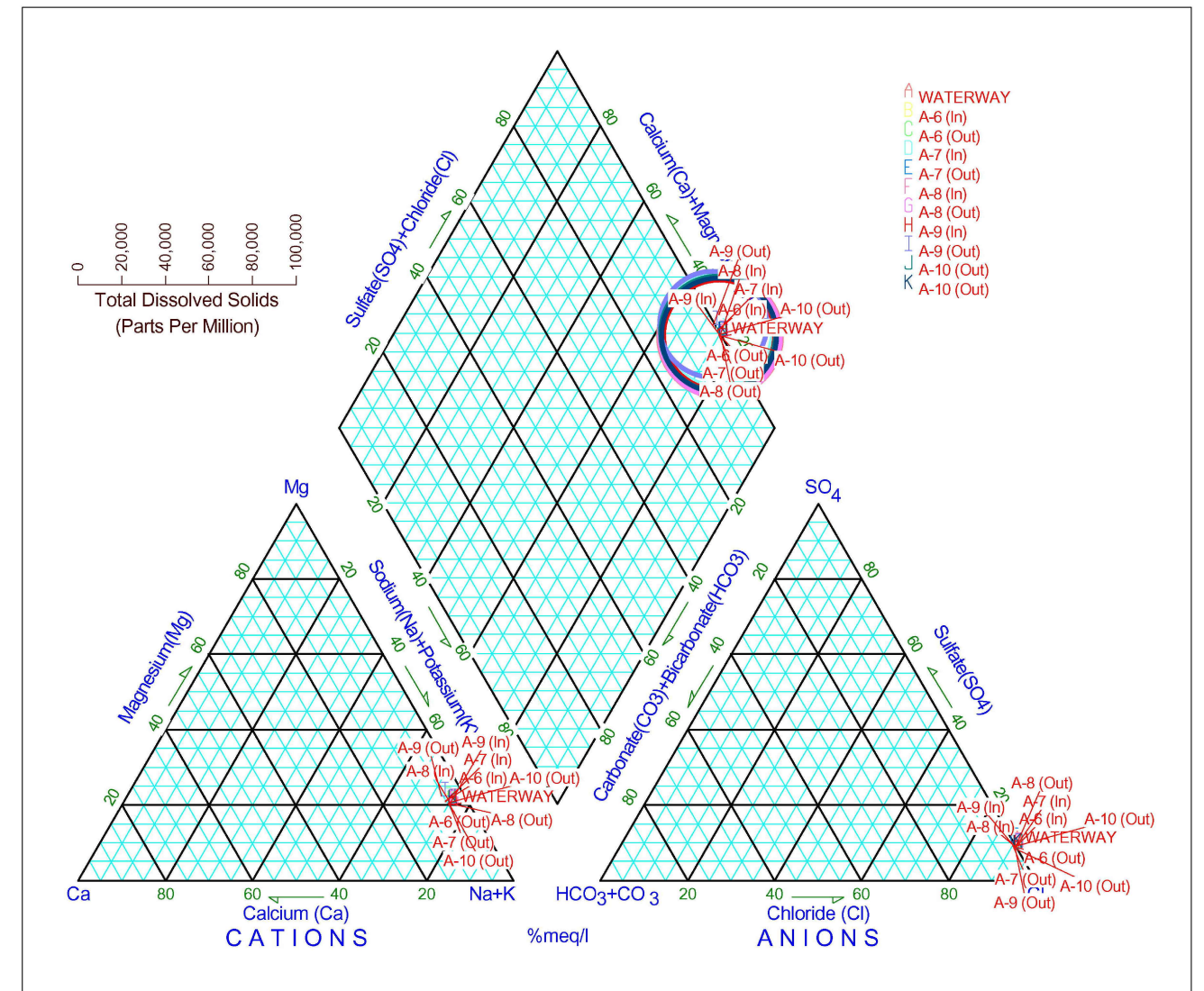
PIPER DIAGRAM - BANK SEEPS
 SEGMENT 2 SOUTH

Occidental Chemical Corporation, Tacoma, Washington





SEEPS A-1 THROUGH A-5



SEEPS A-6 THROUGH A-10

figure 4.54

PIPER DIAGRAM - BANK SEEPS
SEGMENT 3

Occidental Chemical Corporation, Tacoma, Washington



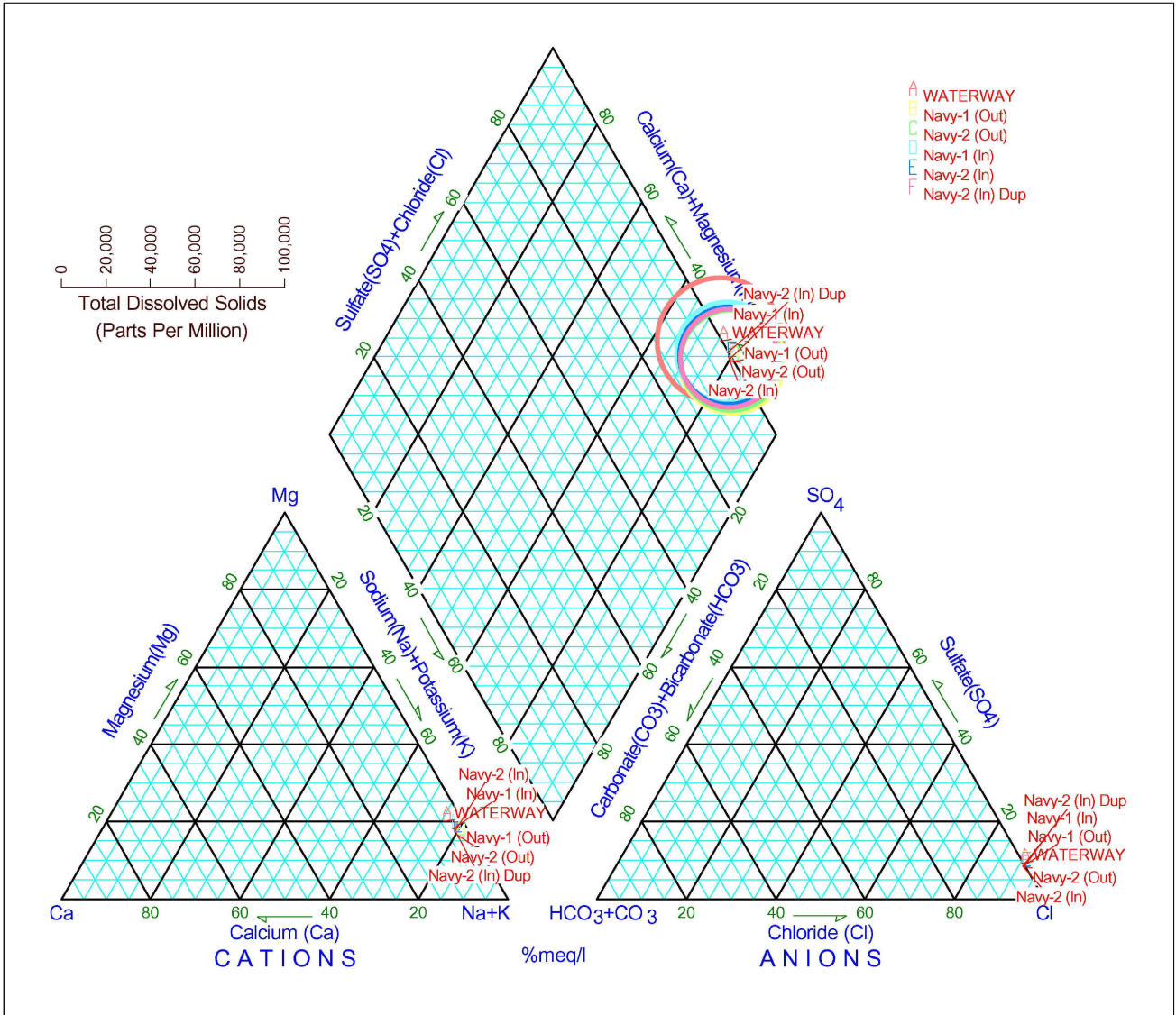


figure 4.55

PIPER DIAGRAM - BANK SEEPS
SEGMENT 4

Occidental Chemical Corporation, Tacoma, Washington



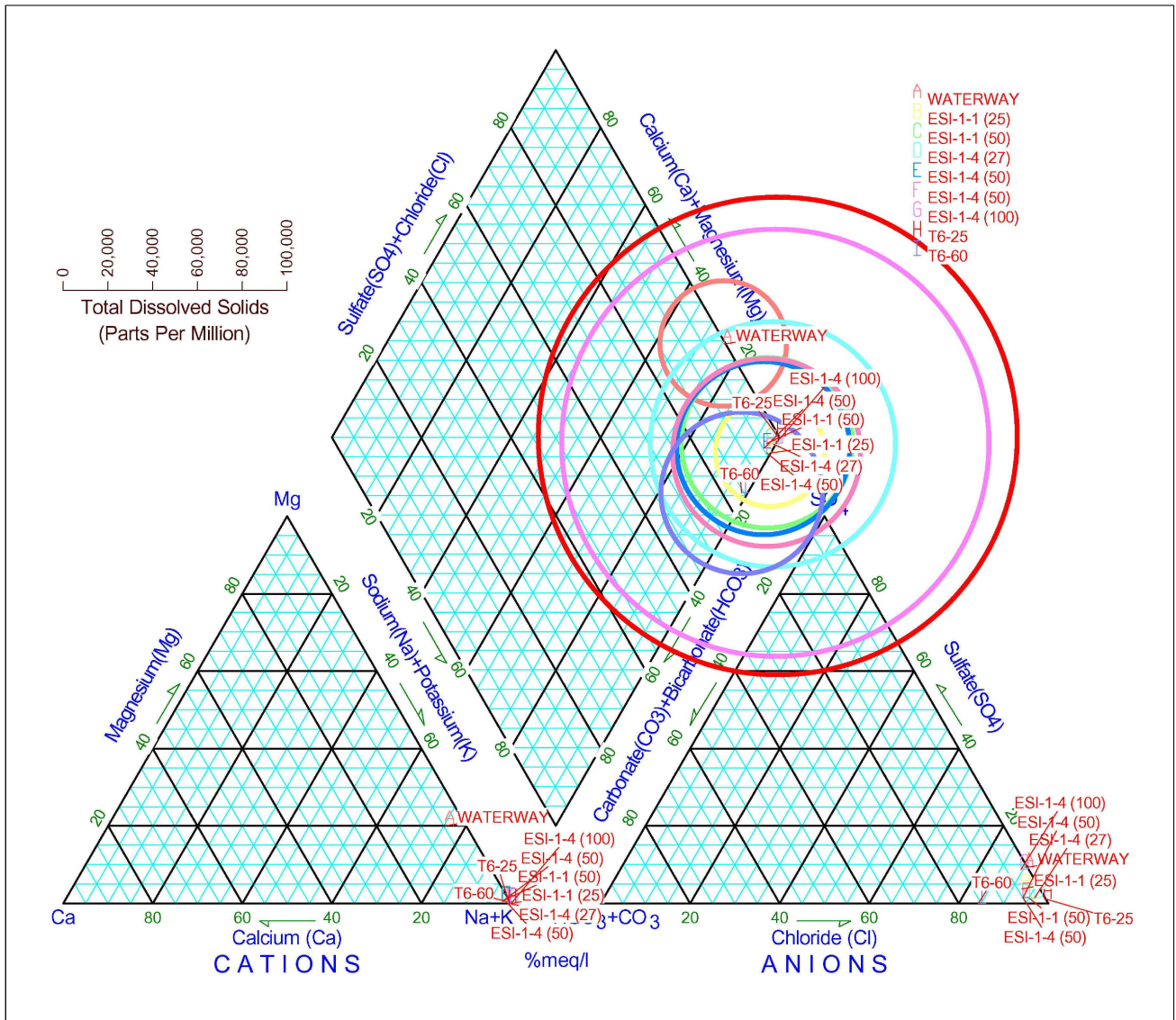


figure 4.56

PIPER DIAGRAM - GROUNDWATER
SEGMENT 1

Occidental Chemical Corporation, Tacoma, Washington



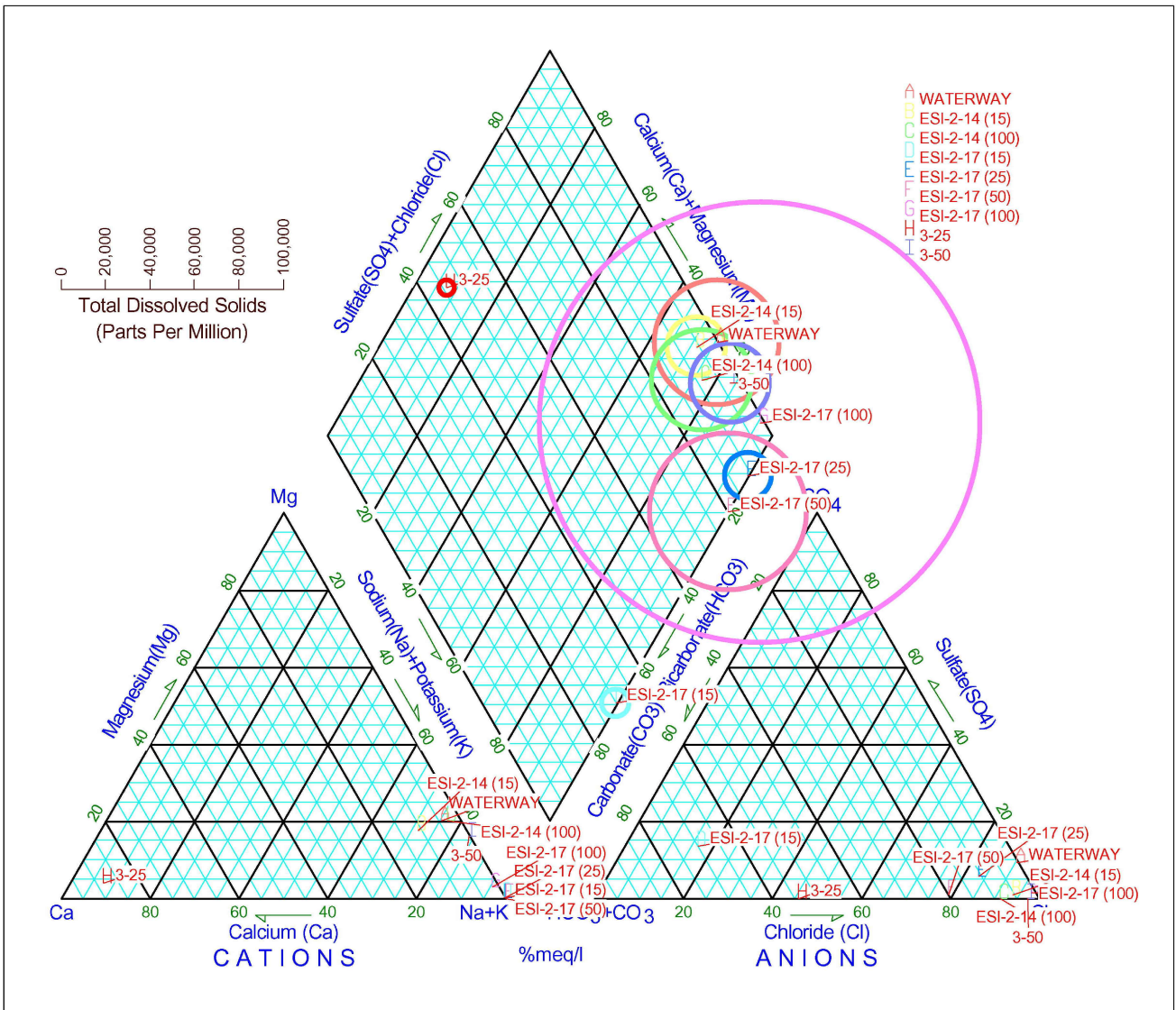


figure 4.57

PIPER DIAGRAM - GROUNDWATER
 SEGMENT 2

Occidental Chemical Corporation, Tacoma, Washington



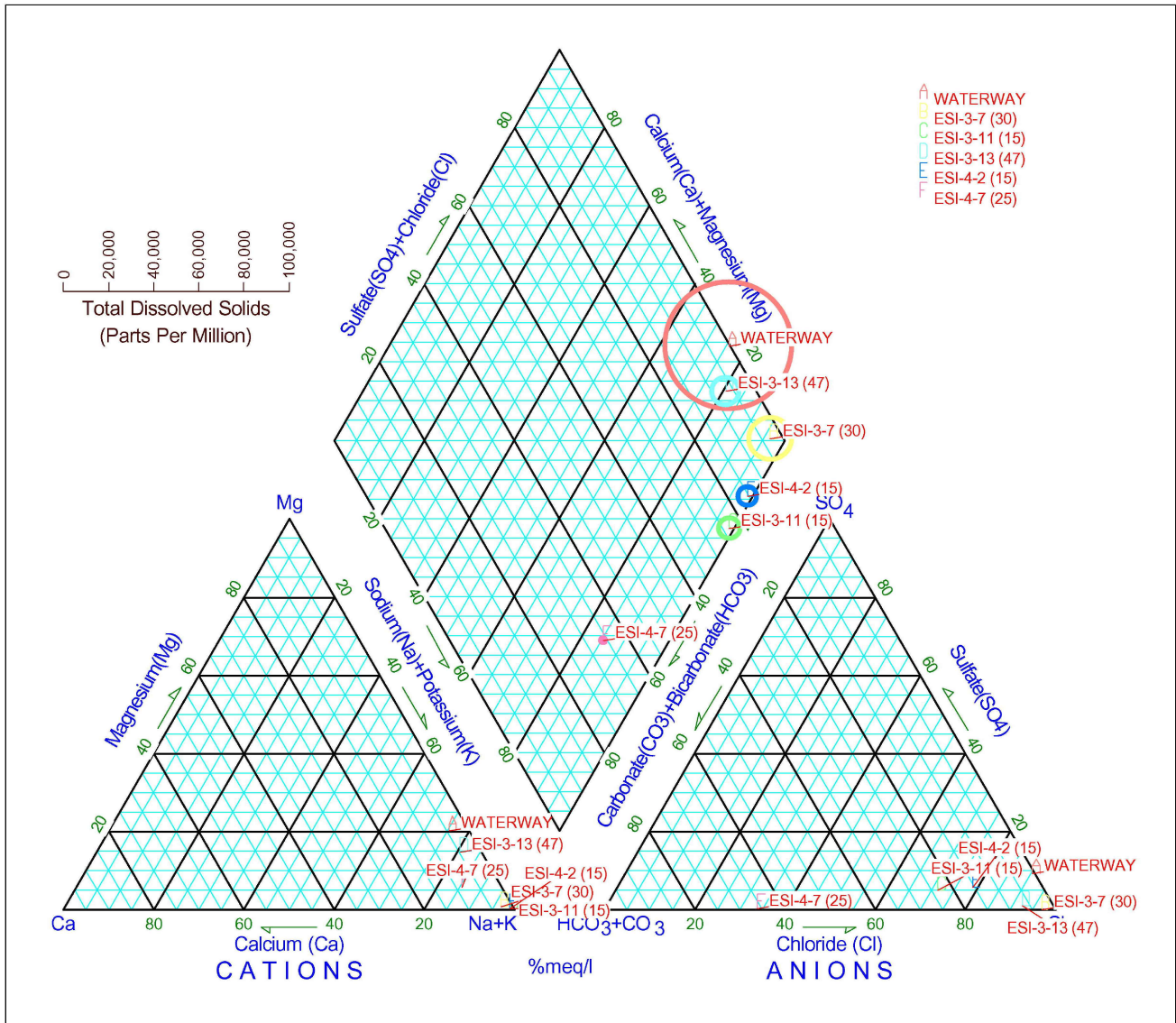


figure 4.58

PIPER DIAGRAM - GROUNDWATER
SEGMENTS 3 & 4

Occidental Chemical Corporation, Tacoma, Washington



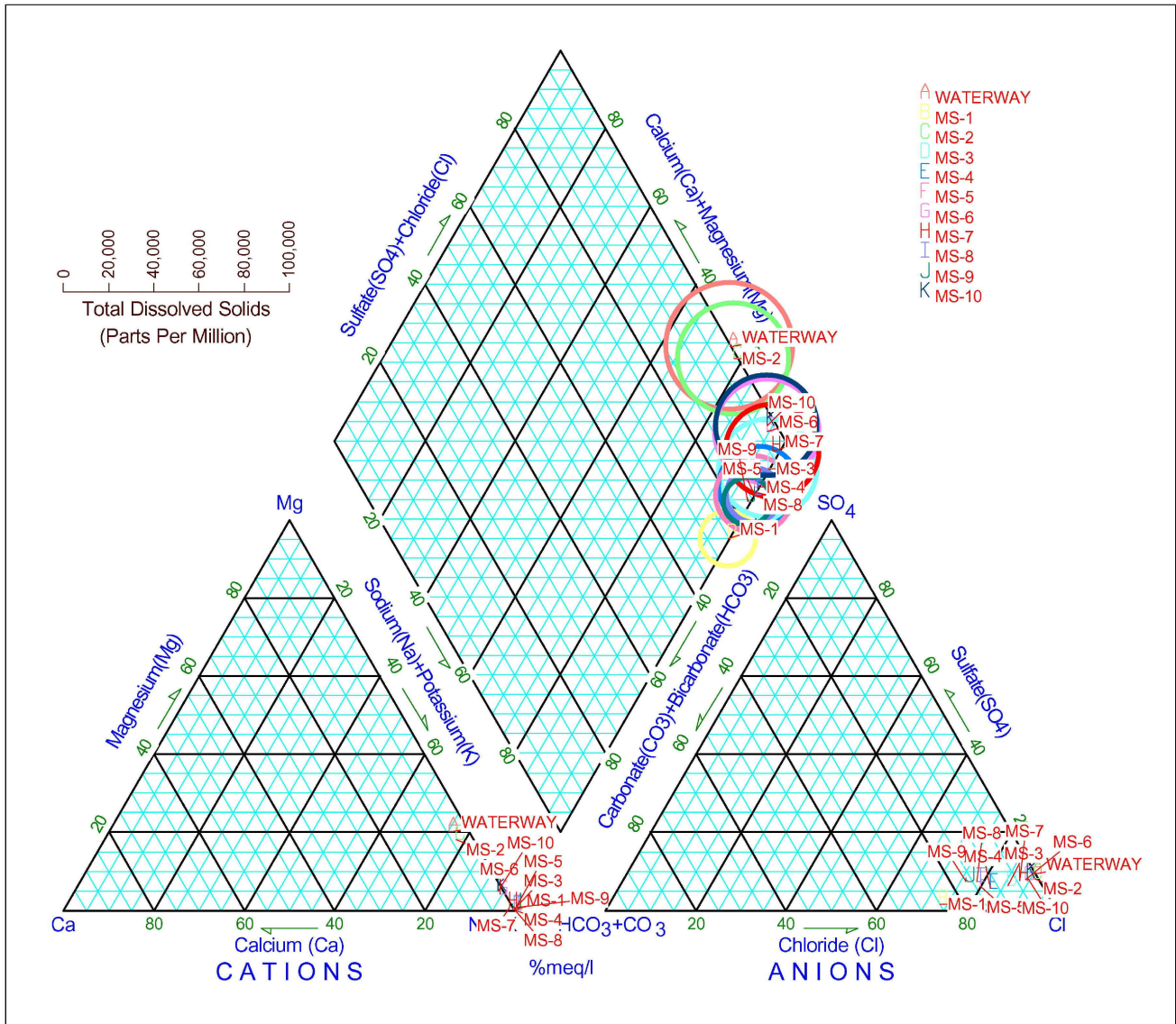
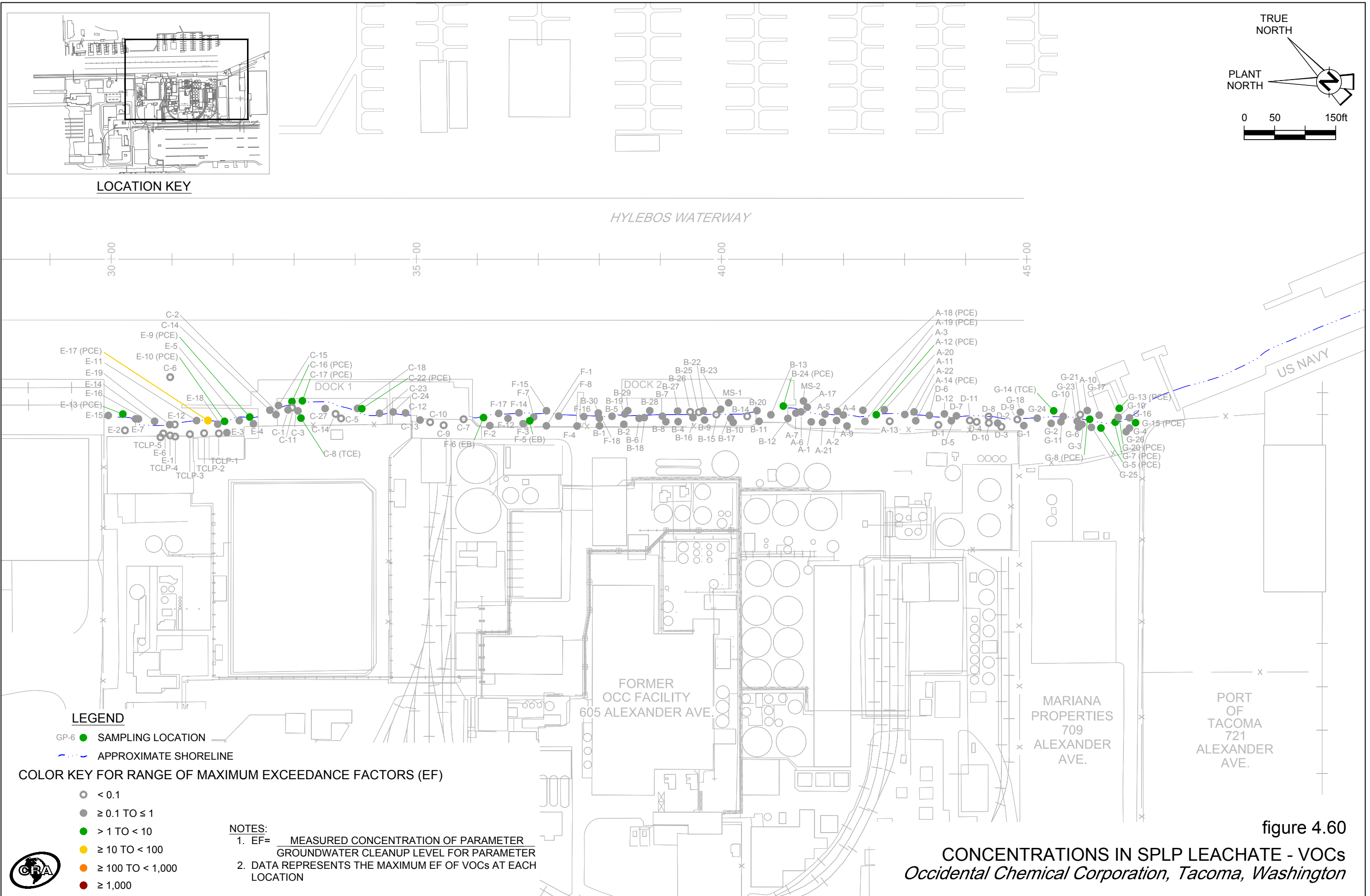


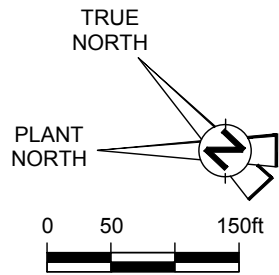
figure 4.59

PIPER DIAGRAM - MILKY SEEPS
Occidental Chemical Corporation, Tacoma, Washington





LOCATION KEY



HYLEBOS WATERWAY

30+00 35+00 40+00 45+00

LEGEND

- GP-6 ● SAMPLING LOCATION
- APPROXIMATE SHORELINE

COLOR KEY FOR RANGE OF MAXIMUM EXCEEDANCE FACTORS (EF)

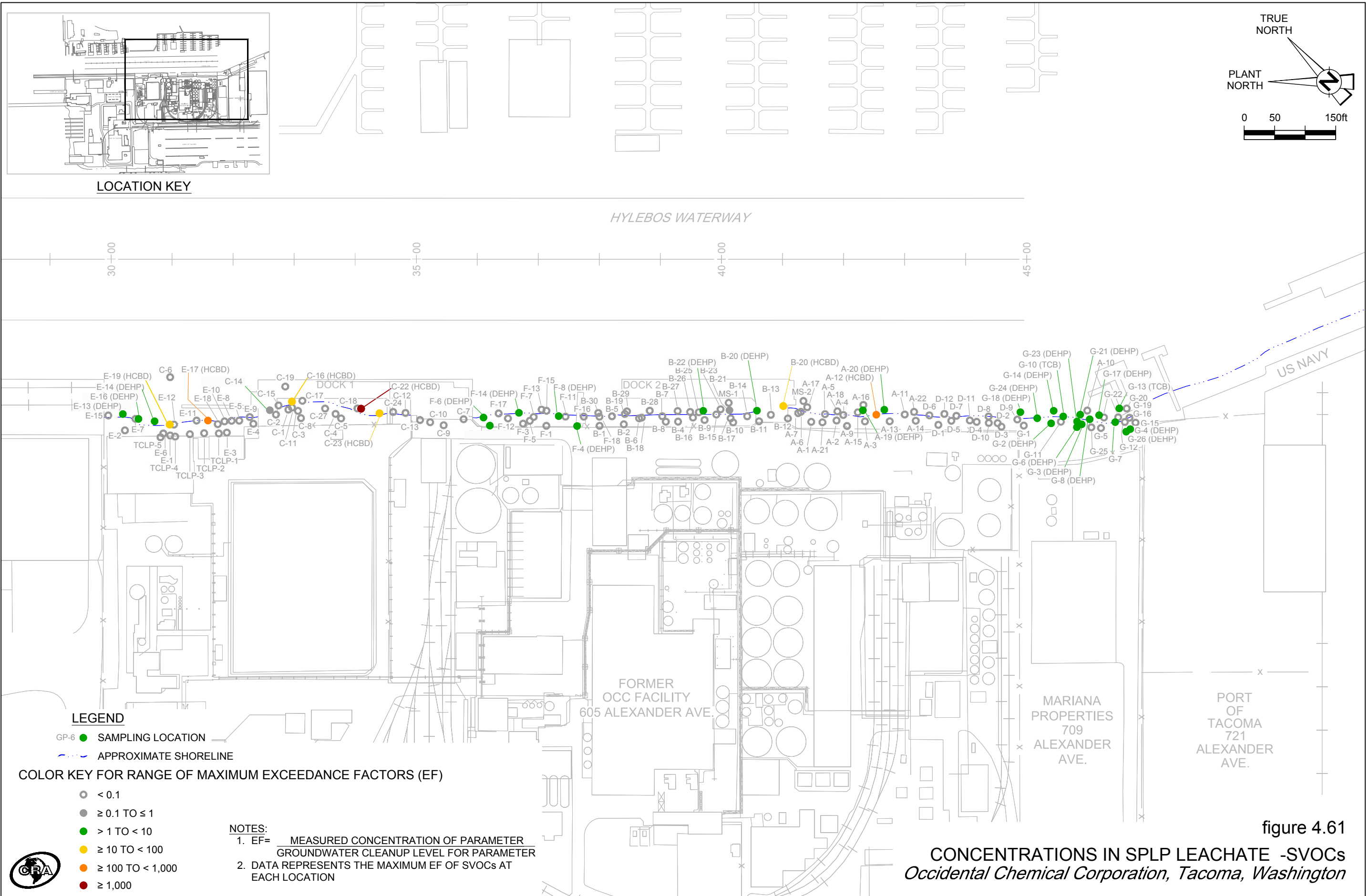
- < 0.1
- ≥ 0.1 TO ≤ 1
- > 1 TO < 10
- ≥ 10 TO < 100
- ≥ 100 TO < 1,000
- ≥ 1,000

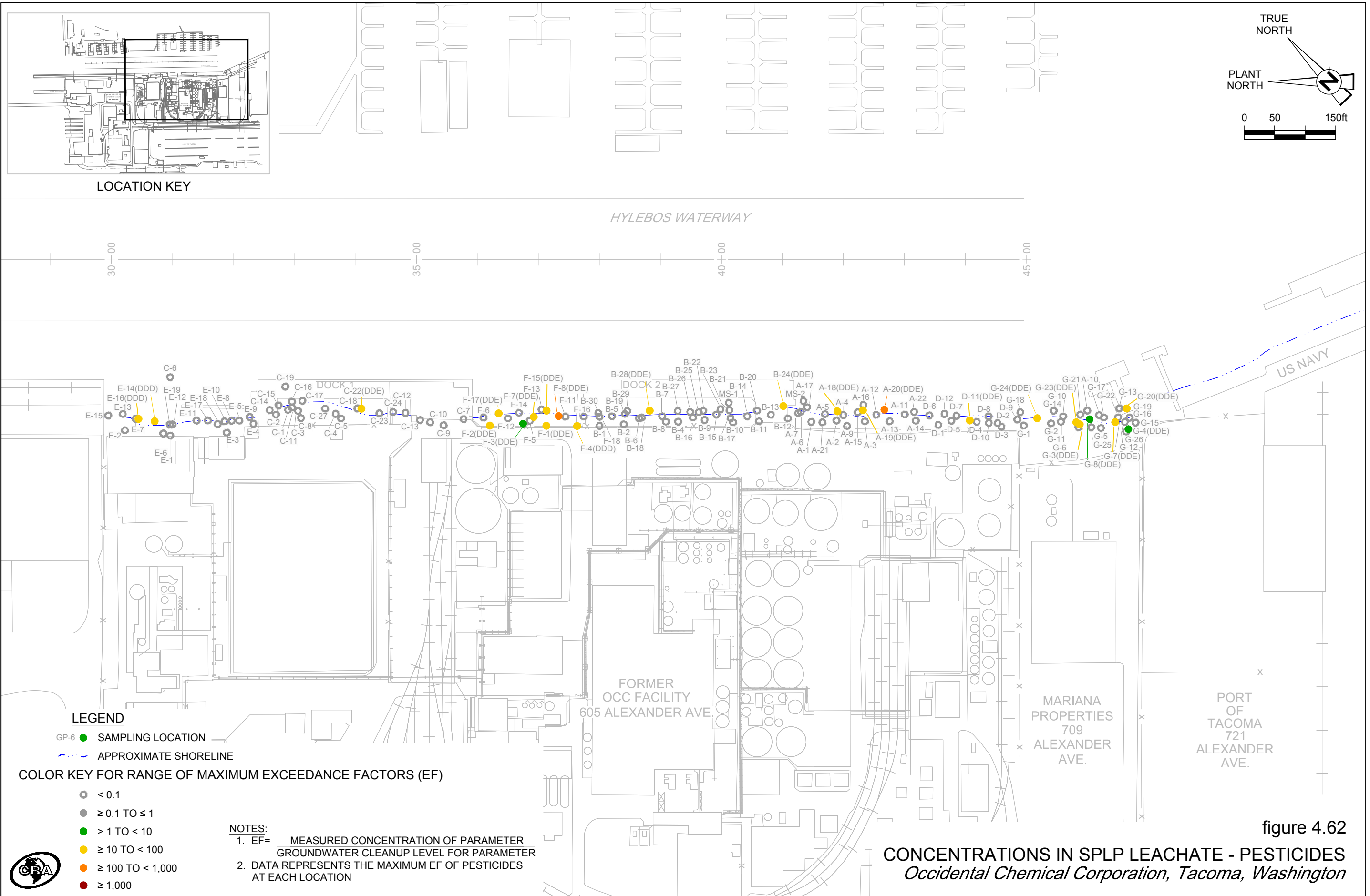
NOTES:
 1. EF= $\frac{\text{MEASURED CONCENTRATION OF PARAMETER}}{\text{GROUNDWATER CLEANUP LEVEL FOR PARAMETER}}$
 2. DATA REPRESENTS THE MAXIMUM EF OF VOCs AT EACH LOCATION



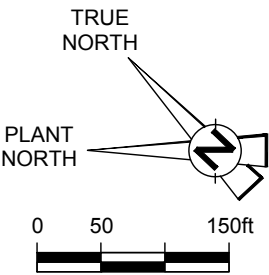
figure 4.60

CONCENTRATIONS IN SPLP LEACHATE - VOCs
Occidental Chemical Corporation, Tacoma, Washington





LOCATION KEY



HYLEBOS WATERWAY



LEGEND

- GP-6 ● SAMPLING LOCATION
- APPROXIMATE SHORELINE

COLOR KEY FOR RANGE OF MAXIMUM EXCEEDANCE FACTORS (EF)

- < 0.1
- ≥ 0.1 TO ≤ 1
- > 1 TO < 10
- ≥ 10 TO < 100
- ≥ 100 TO < 1,000
- ≥ 1,000

NOTES:
 1. EF= $\frac{\text{MEASURED CONCENTRATION OF PARAMETER}}{\text{GROUNDWATER CLEANUP LEVEL FOR PARAMETER}}$
 2. DATA REPRESENTS THE MAXIMUM EF OF PESTICIDES AT EACH LOCATION

CONCENTRATIONS IN SPLP LEACHATE - PESTICIDES
Occidental Chemical Corporation, Tacoma, Washington

figure 4.62

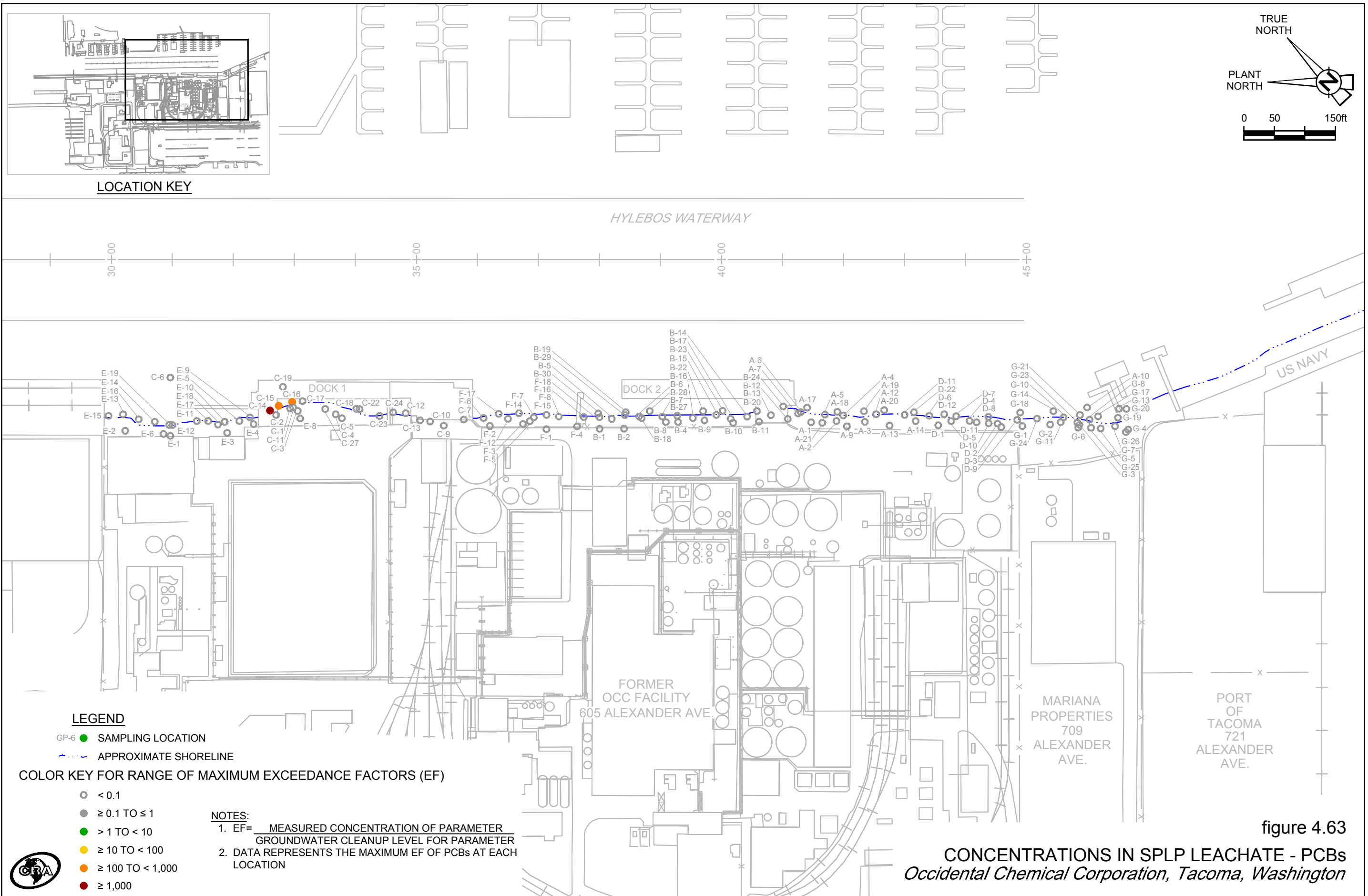


figure 4.63
CONCENTRATIONS IN SPLP LEACHATE - PCBs
Occidental Chemical Corporation, Tacoma, Washington

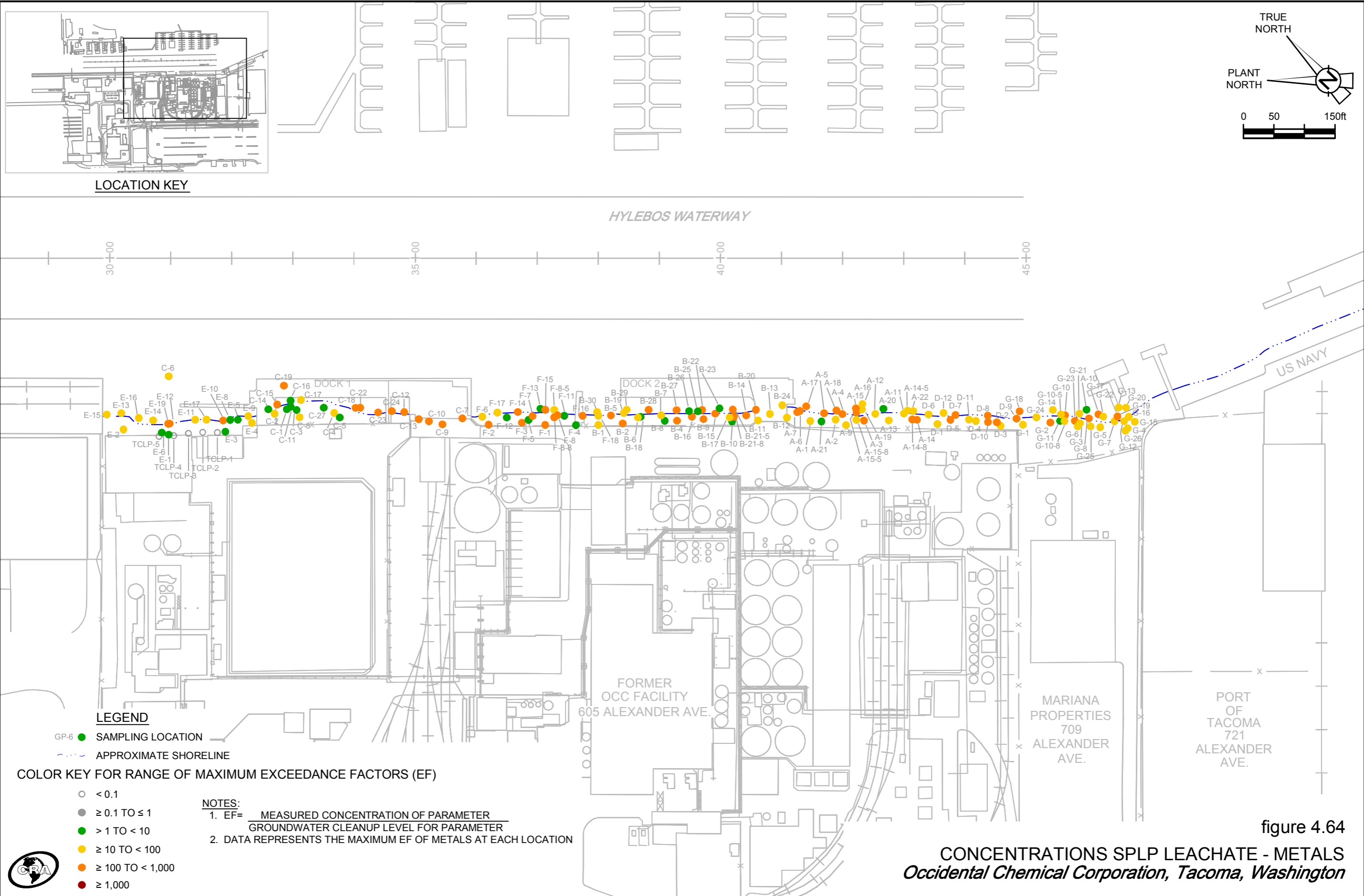
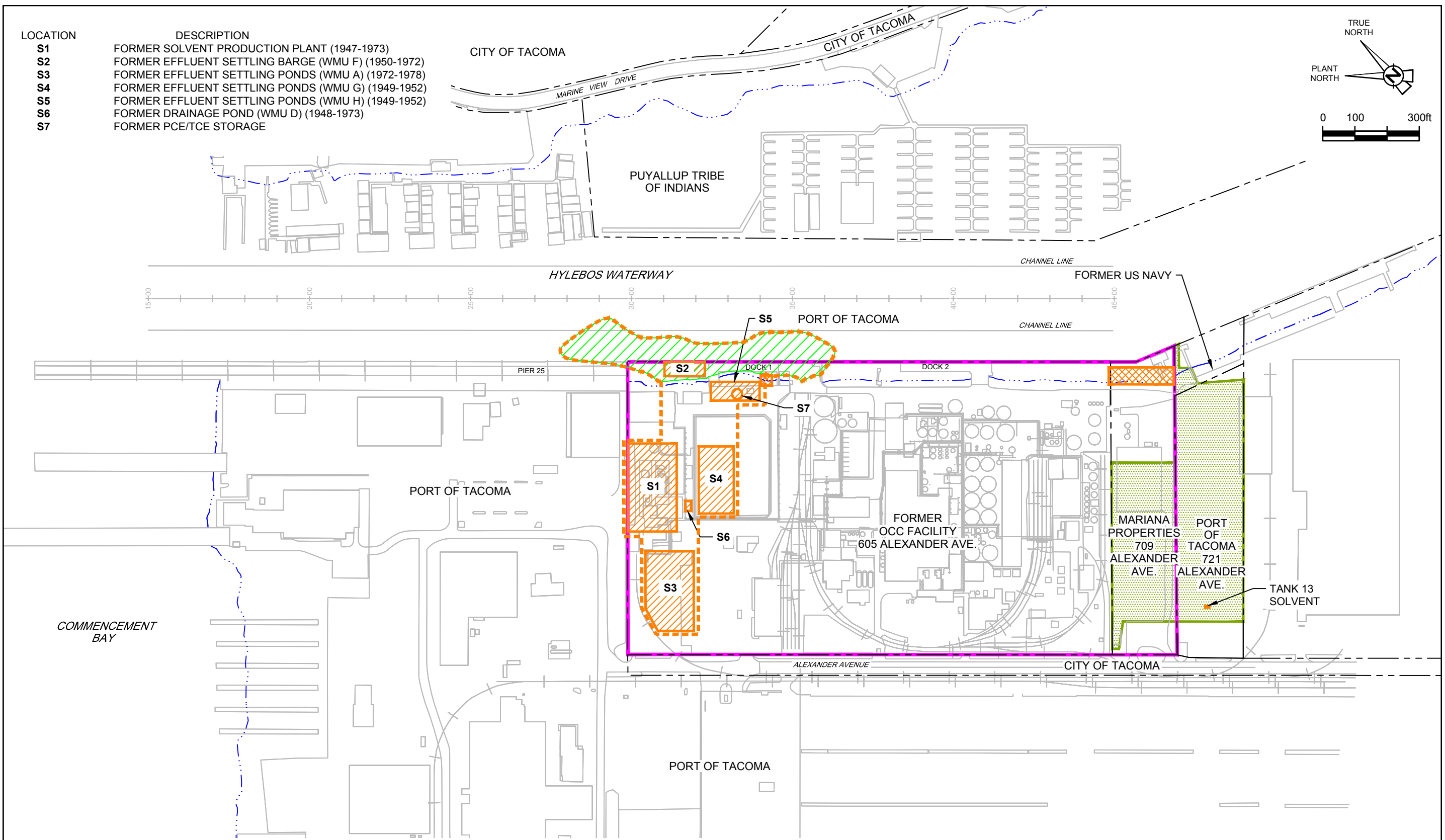
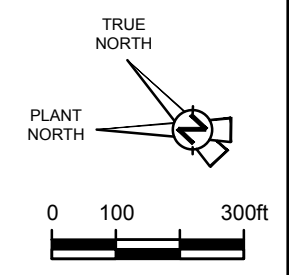


figure 4.64

CONCENTRATIONS SPLP LEACHATE - METALS
Occidental Chemical Corporation, Tacoma, Washington

LOCATION	DESCRIPTION
S1	FORMER SOLVENT PRODUCTION PLANT (1947-1973)
S2	FORMER EFFLUENT SETTLING BARGE (WMU F) (1950-1972)
S3	FORMER EFFLUENT SETTLING PONDS (WMU A) (1972-1978)
S4	FORMER EFFLUENT SETTLING PONDS (WMU G) (1949-1952)
S5	FORMER EFFLUENT SETTLING PONDS (WMU H) (1949-1952)
S6	FORMER DRAINAGE POND (WMU D) (1948-1973)
S7	FORMER PCE/TCE STORAGE



LEGEND	
	PROPERTY LINE
	APPROXIMATE SHORELINE
	FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)
	POTENTIAL CVOC SOURCE
	POTENTIAL CVOC SOURCE AREA
	FORMER FUEL-RELATED STRUCTURES AREA
	AREA 5106
	VOC IN EMBANKMENT FILL AREA (SEE FIGURE 1.5)

figure 5.1
POTENTIAL SOURCES OF VOCs
Occidental Chemical Corporation, Tacoma, Washington



LOCATION	DESCRIPTION
S8	FORMER CAUSTIC PROCESSING/STORAGE (CAUSTIC HOUSE)
S9	FORMER CAUSTIC STORAGE
S10	FORMER CAUSTIC PRODUCTION/STORAGE
S11	FORMER CAUSTIC STORAGE
S12	FORMER CAUSTIC STORAGE
S13	FORMER AMMONIUM HYDROXIDE PRODUCTION/CAUSTIC STORAGE

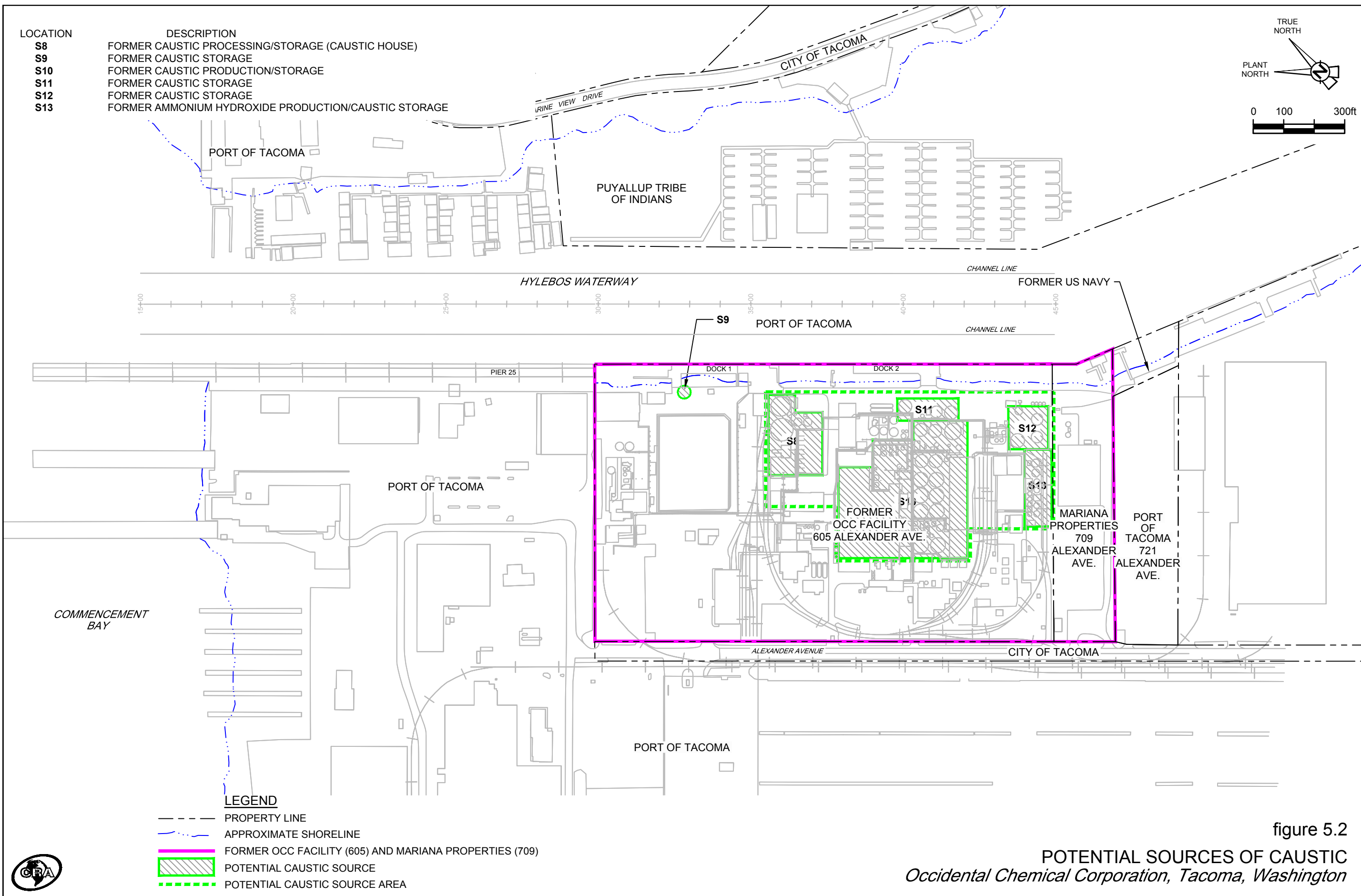
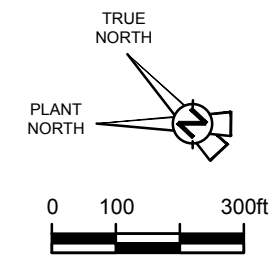
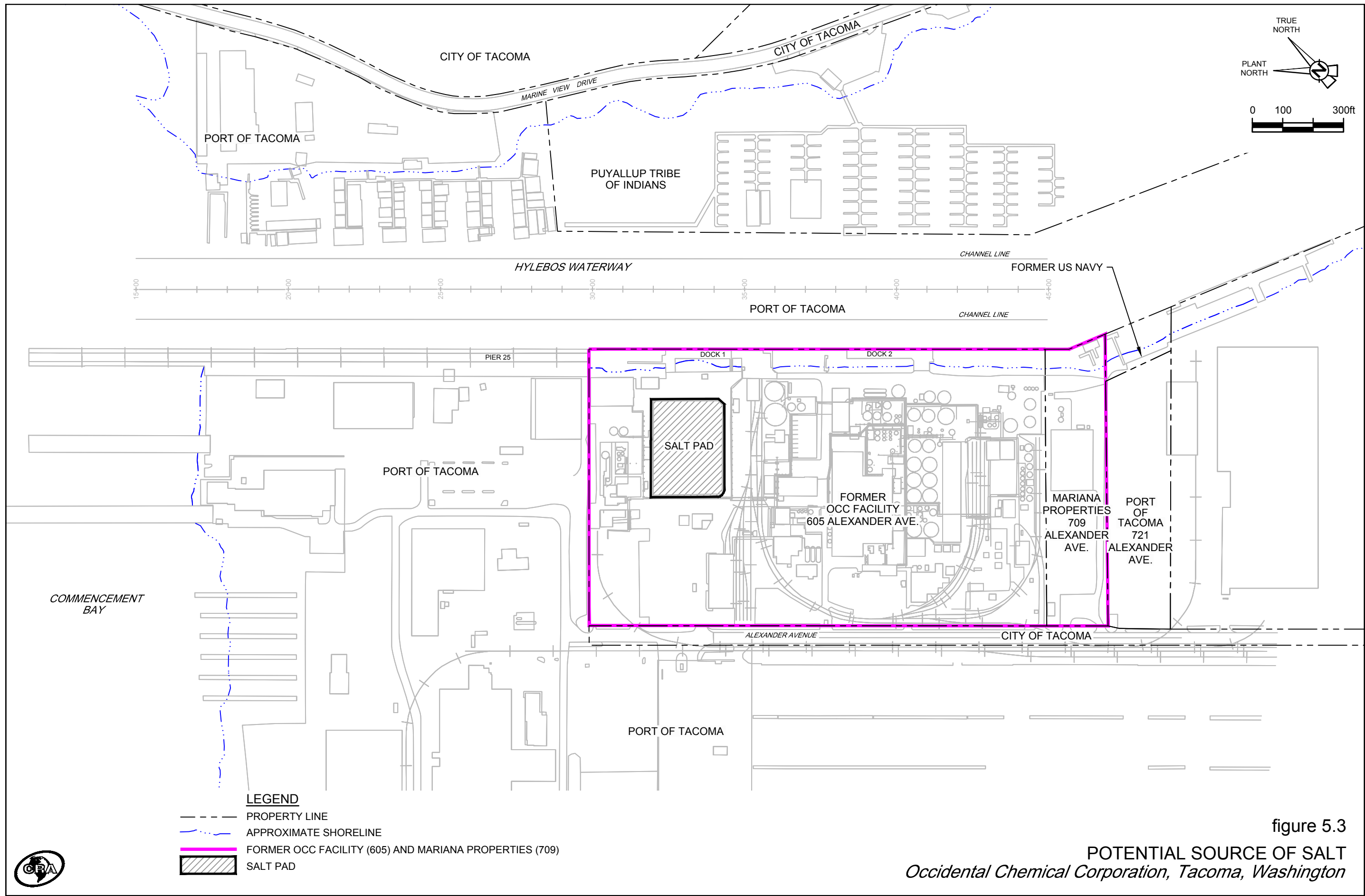
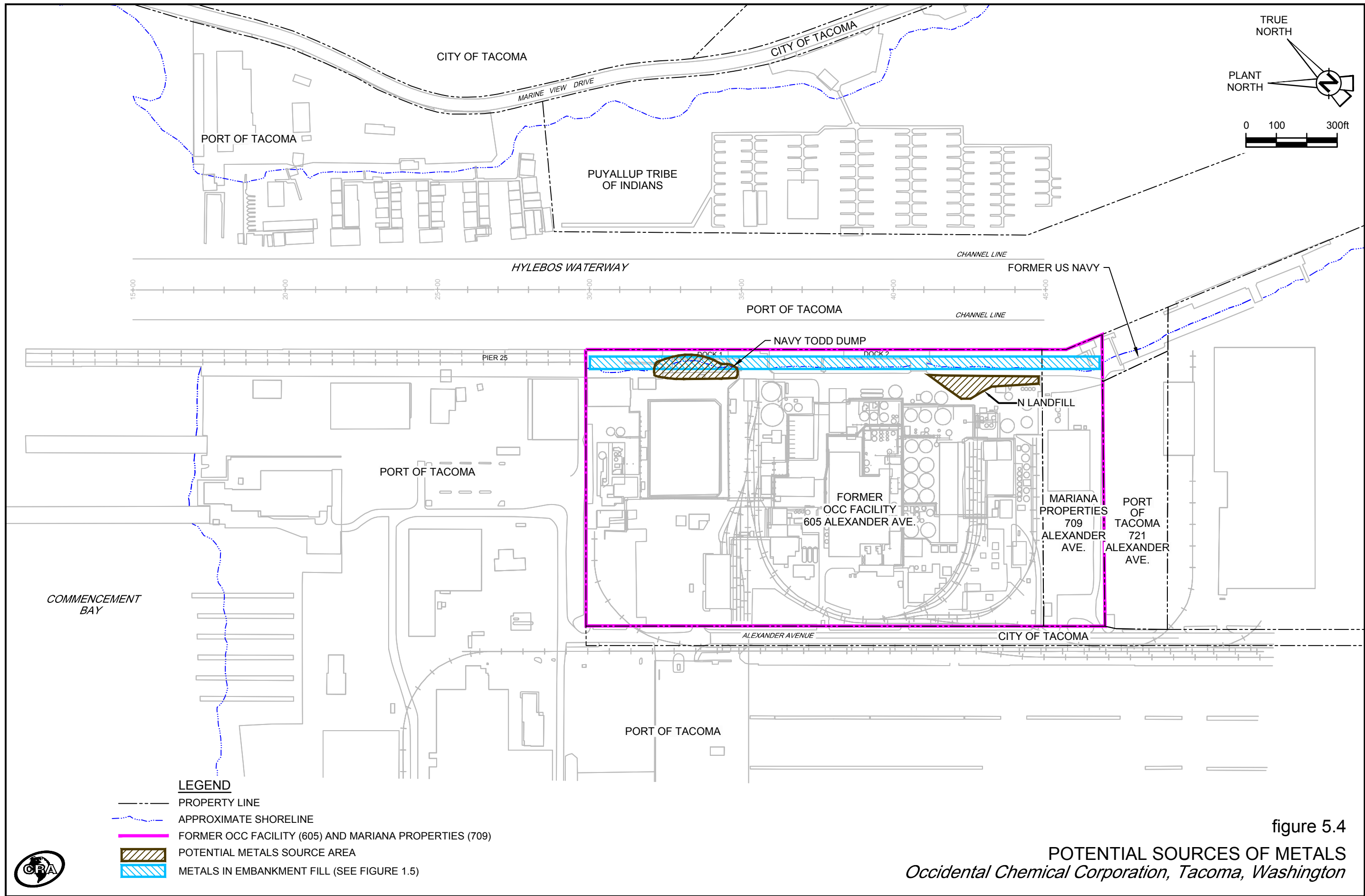
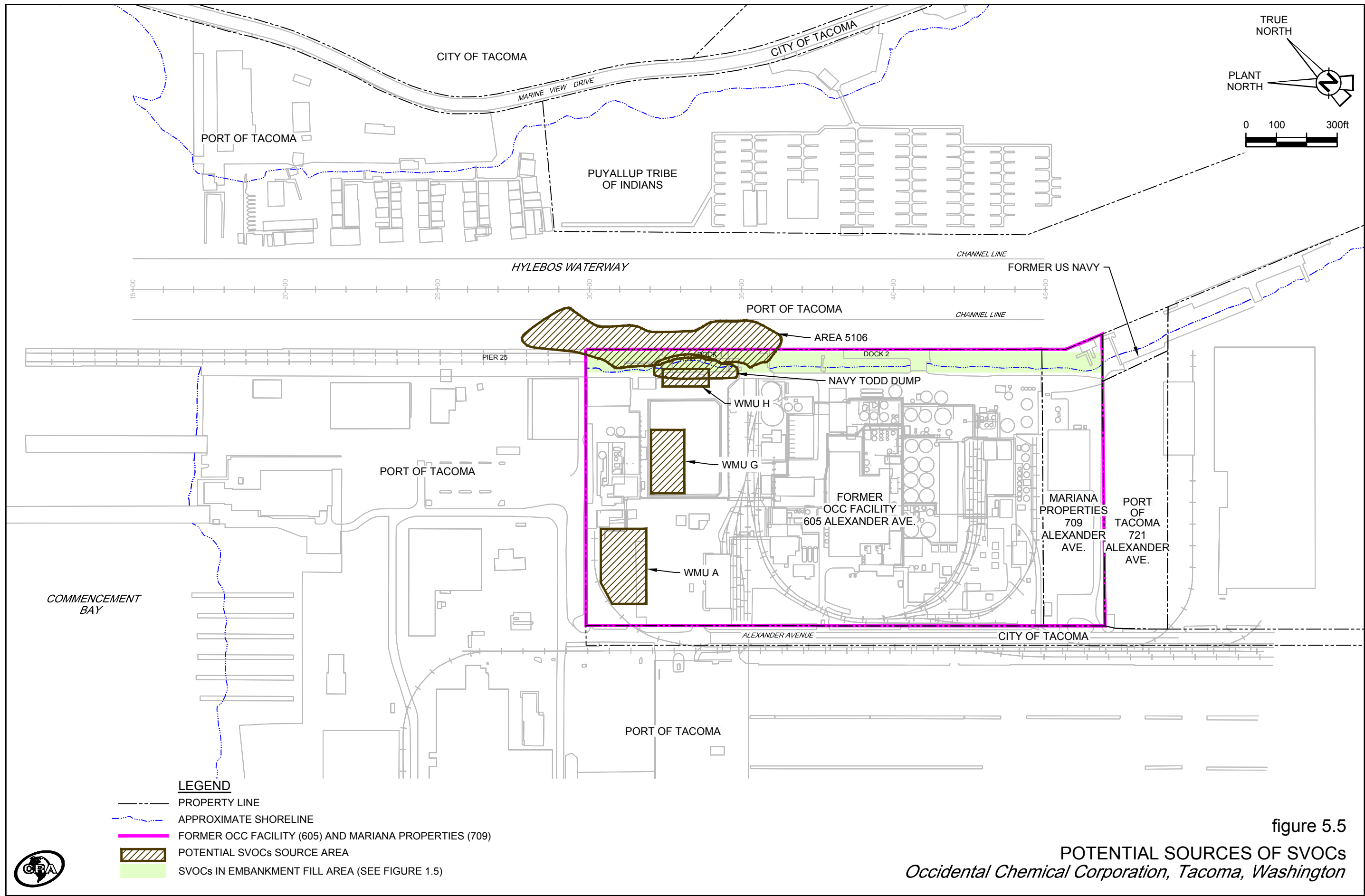


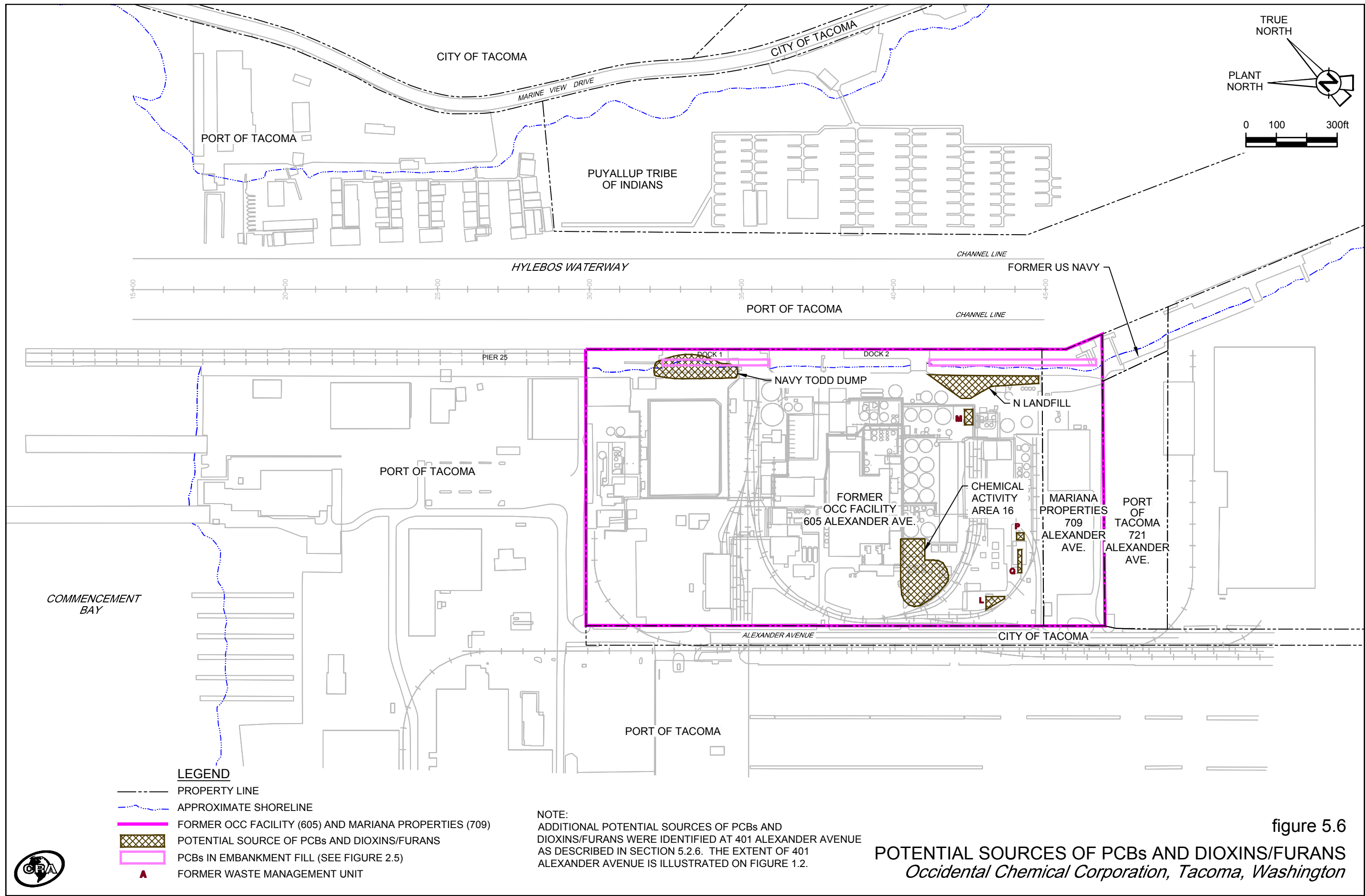
figure 5.2
POTENTIAL SOURCES OF CAUSTIC
Occidental Chemical Corporation, Tacoma, Washington

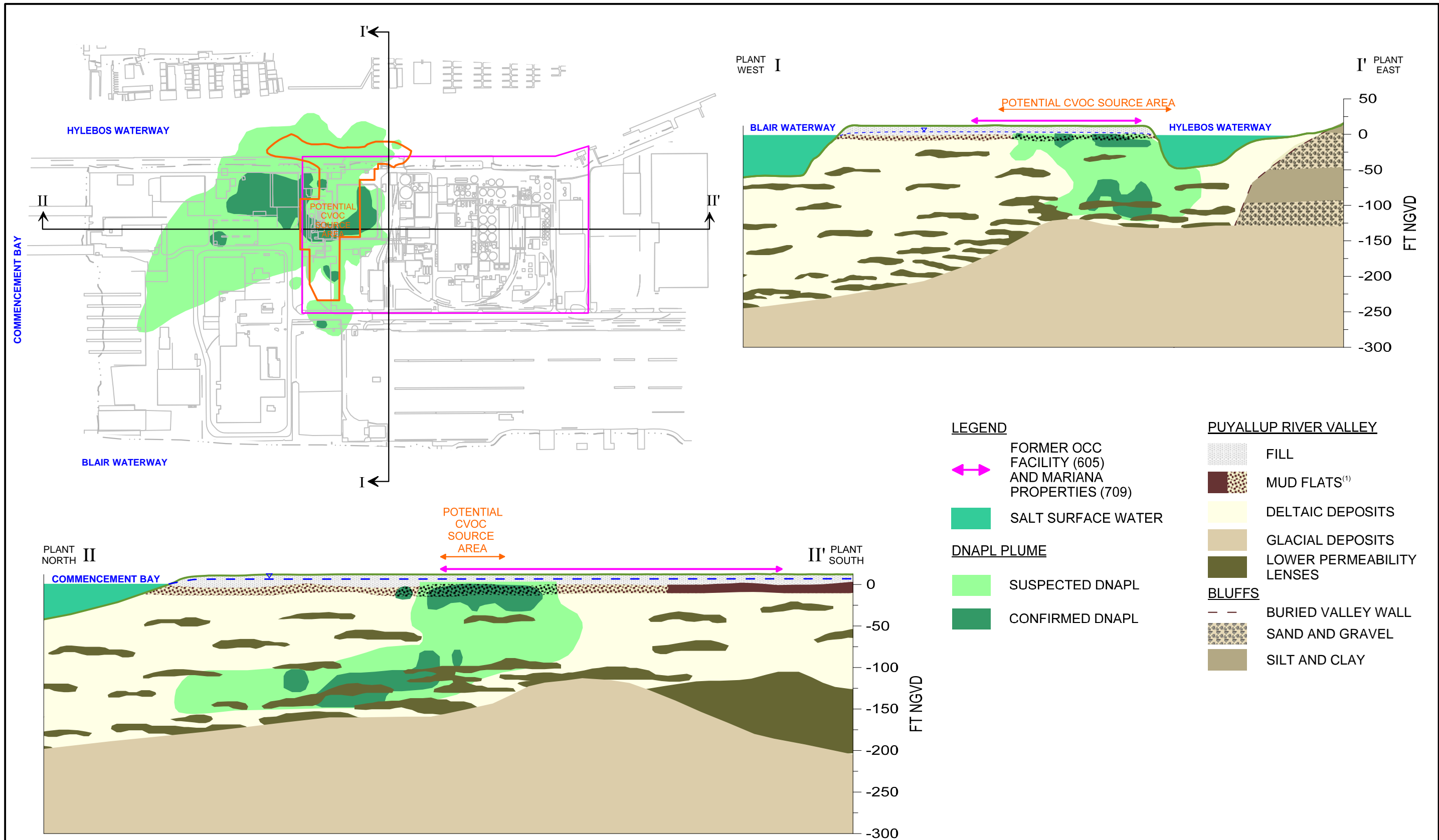








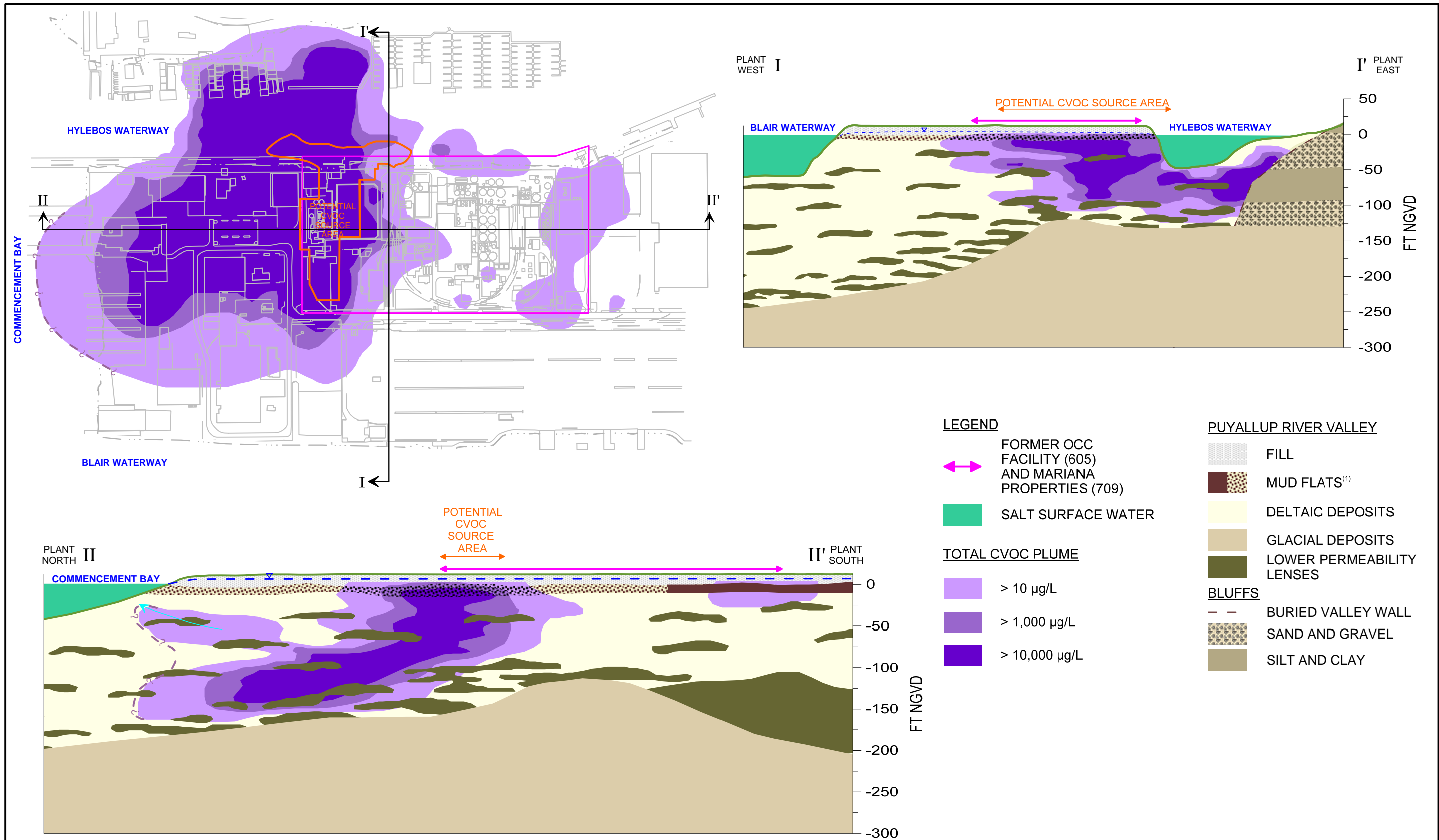




NOTES:
 (1) DARK BROWN INDICATES WHERE MUD FLATS ARE OBSERVED TO PROVIDE HYDRAULIC SEPARATION BETWEEN THE FILL AND DELTAIC DEPOSITS; LIGHT BROWN INDICATES WHERE HYDRAULIC SEPARATION BY THE MUD FLATS IS NOT CONFIRMED

figure 5.7

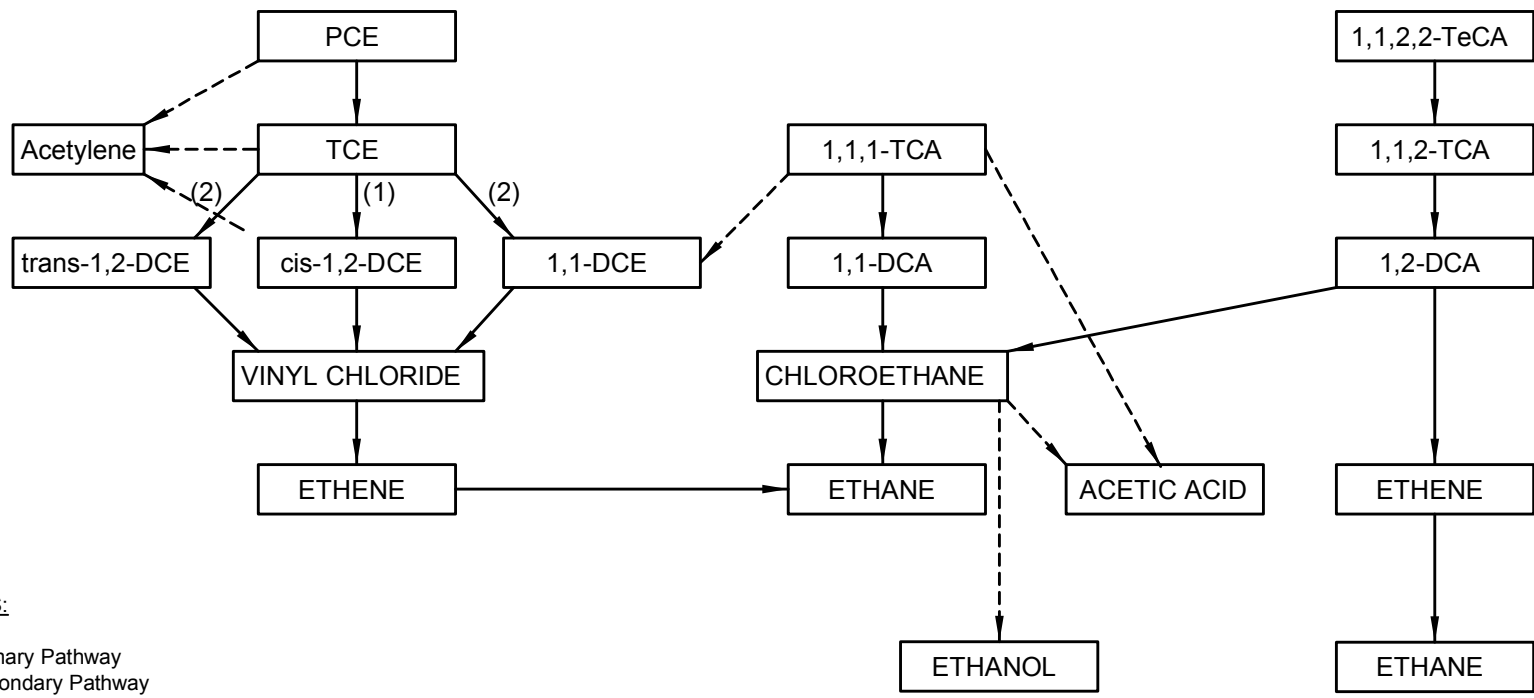
DNAPL DISTRIBUTION
Occidental Chemical Corporation, Tacoma, Washington



NOTES:
 (1) DARK BROWN INDICATES WHERE MUD FLATS ARE OBSERVED TO PROVIDE HYDRAULIC SEPARATION BETWEEN THE FILL AND DELTAIC DEPOSITS; LIGHT BROWN INDICATES WHERE HYDRAULIC SEPARATION BY THE MUD FLATS IS NOT CONFIRMED

figure 5.8

TOTAL CVOC PLUME IN GROUNDWATER
Occidental Chemical Corporation, Tacoma, Washington



NOTES:

- (1) Primary Pathway
- (2) Secondary Pathway

The tendency for degradation along a given pathway is dependent on various factors, such as oxidation-reduction conditions, microbiological conditions, or nutrient availability.

Vinyl chloride, 1,2-DCA and Chloroethane may undergo aerobic mineralization to CO₂.

TCE, DCE, Vinyl chloride and 1,1-DCA may undergo aerobic cometabolism to CO₂.

Source(s):

Weidemeier, T.H., H.S. Rifai, C.J. Newell and J.T. Wilson, 1999.

Natural Attenuation of Fuels and Chlorinated Solvents in the Subsurface, John Wiley & Sons, Inc., U.S.A.

U.S.EPA, September 1998, Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water, EPA/600/R-98/128.

LEGEND

- > BIOTIC PATHWAYS
- - - -> ABIOTIC PATHWAYS

figure 5.9

**OVERVIEW OF DEGRADATION PATHWAYS
FOR CHLORINATED ALIPHATIC HYDROCARBONS
*Occidental Chemical Corporation, Tacoma, Washington***



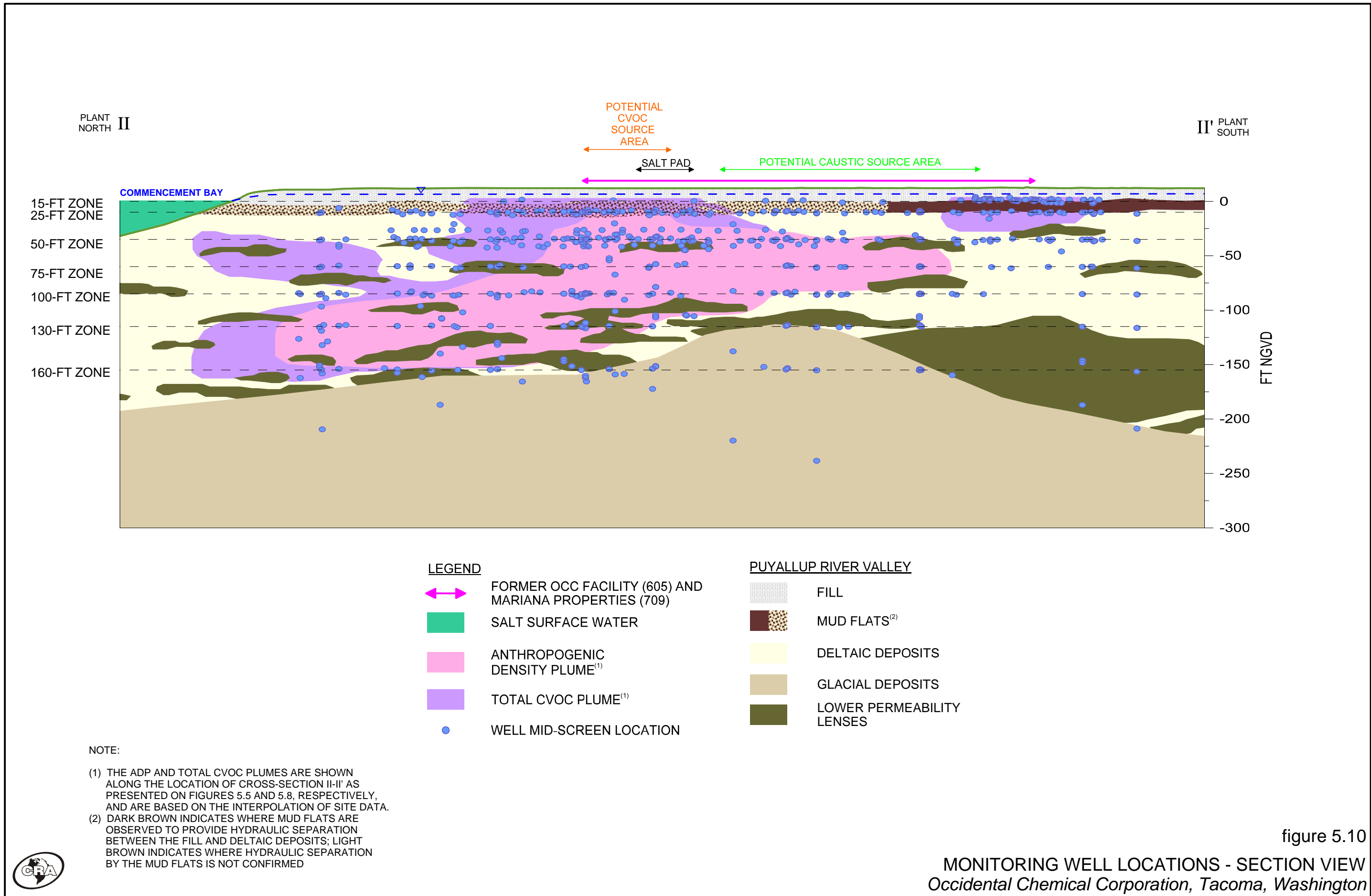
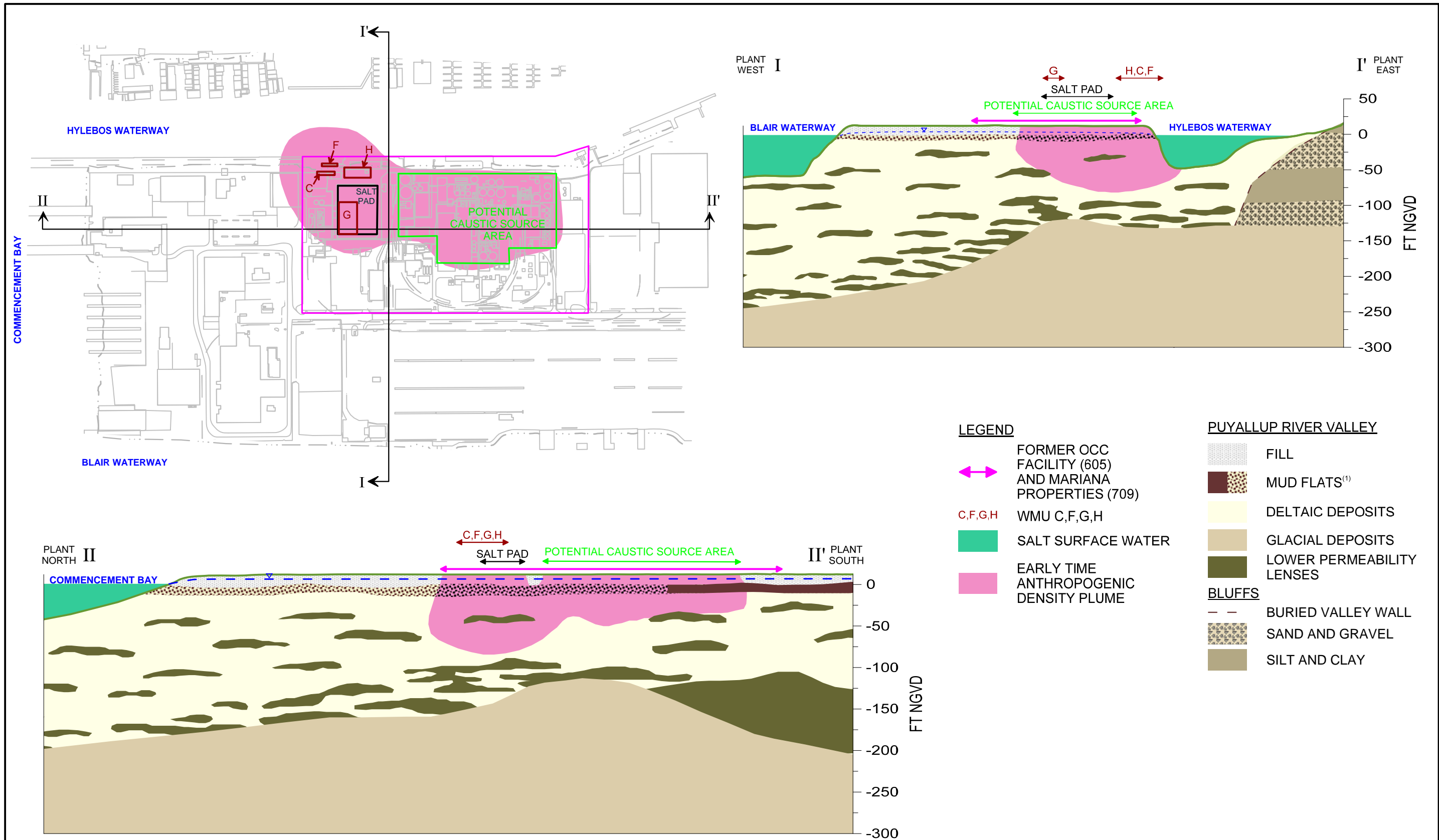


figure 5.10

MONITORING WELL LOCATIONS - SECTION VIEW
Occidental Chemical Corporation, Tacoma, Washington

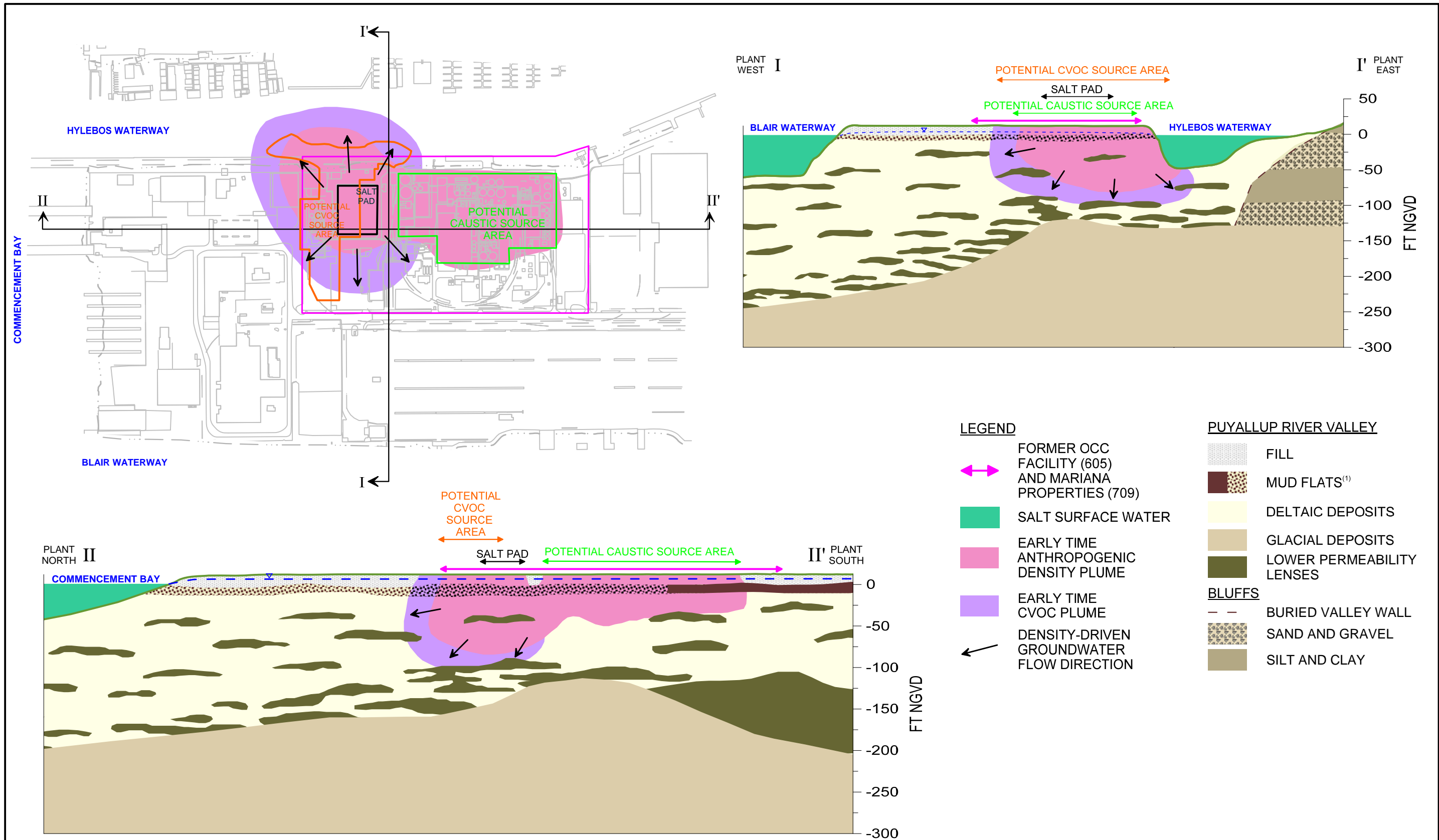




NOTES:
 (1) DARK BROWN INDICATES WHERE MUD FLATS ARE OBSERVED TO PROVIDE HYDRAULIC SEPARATION BETWEEN THE FILL AND DELTAIC DEPOSITS; LIGHT BROWN INDICATES WHERE HYDRAULIC SEPARATION BY THE MUD FLATS IS NOT CONFIRMED

figure 5.11

EARLY TIME ANTHROPOGENIC DENSITY PLUME
Occidental Chemical Corporation, Tacoma, Washington

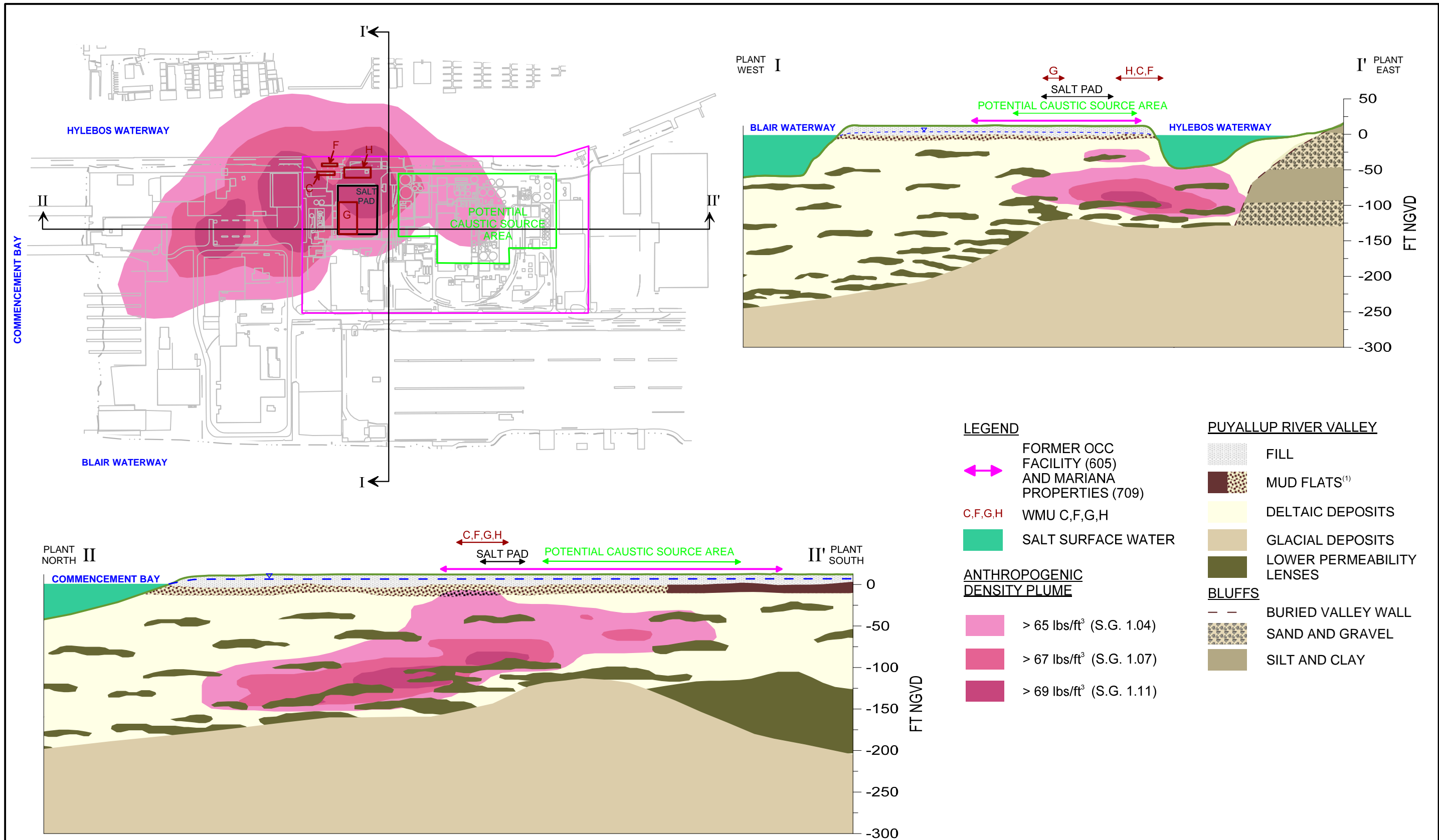


- LEGEND**
- FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)
 - SALT SURFACE WATER
 - EARLY TIME ANTHROPOGENIC DENSITY PLUME
 - EARLY TIME CVOC PLUME
 - DENSITY-DRIVEN GROUNDWATER FLOW DIRECTION
- PUYALLUP RIVER VALLEY**
- FILL
 - MUD FLATS⁽¹⁾
 - DELTAIC DEPOSITS
 - GLACIAL DEPOSITS
 - LOWER PERMEABILITY LENSES
- BLUFFS**
- BURIED VALLEY WALL
 - SAND AND GRAVEL
 - SILT AND CLAY

NOTES:
 (1) DARK BROWN INDICATES WHERE MUD FLATS ARE OBSERVED TO PROVIDE HYDRAULIC SEPARATION BETWEEN THE FILL AND DELTAIC DEPOSITS; LIGHT BROWN INDICATES WHERE HYDRAULIC SEPARATION BY THE MUD FLATS IS NOT CONFIRMED

figure 5.12
 EARLY TIME ANTHROPOGENIC DENSITY PLUME
 INFLUENCE ON TOTAL CVOC PLUME MIGRATION
Occidental Chemical Corporation, Tacoma, Washington

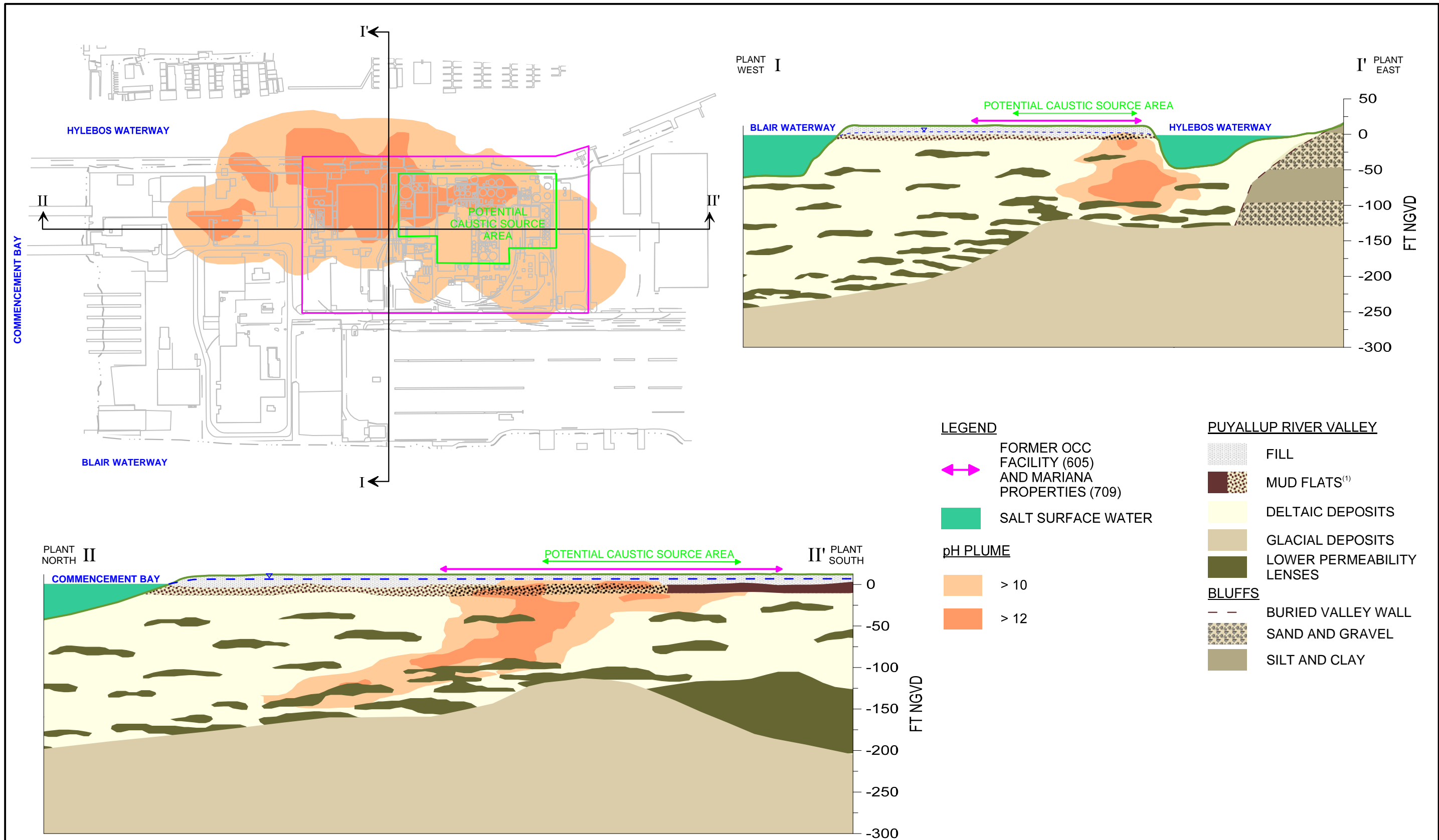




NOTES:
 (1) DARK BROWN INDICATES WHERE MUD FLATS ARE OBSERVED TO PROVIDE HYDRAULIC SEPARATION BETWEEN THE FILL AND DELTAIC DEPOSITS; LIGHT BROWN INDICATES WHERE HYDRAULIC SEPARATION BY THE MUD FLATS IS NOT CONFIRMED

figure 5.13

CURRENT ANTHROPOGENIC DENSITY PLUME
Occidental Chemical Corporation, Tacoma, Washington



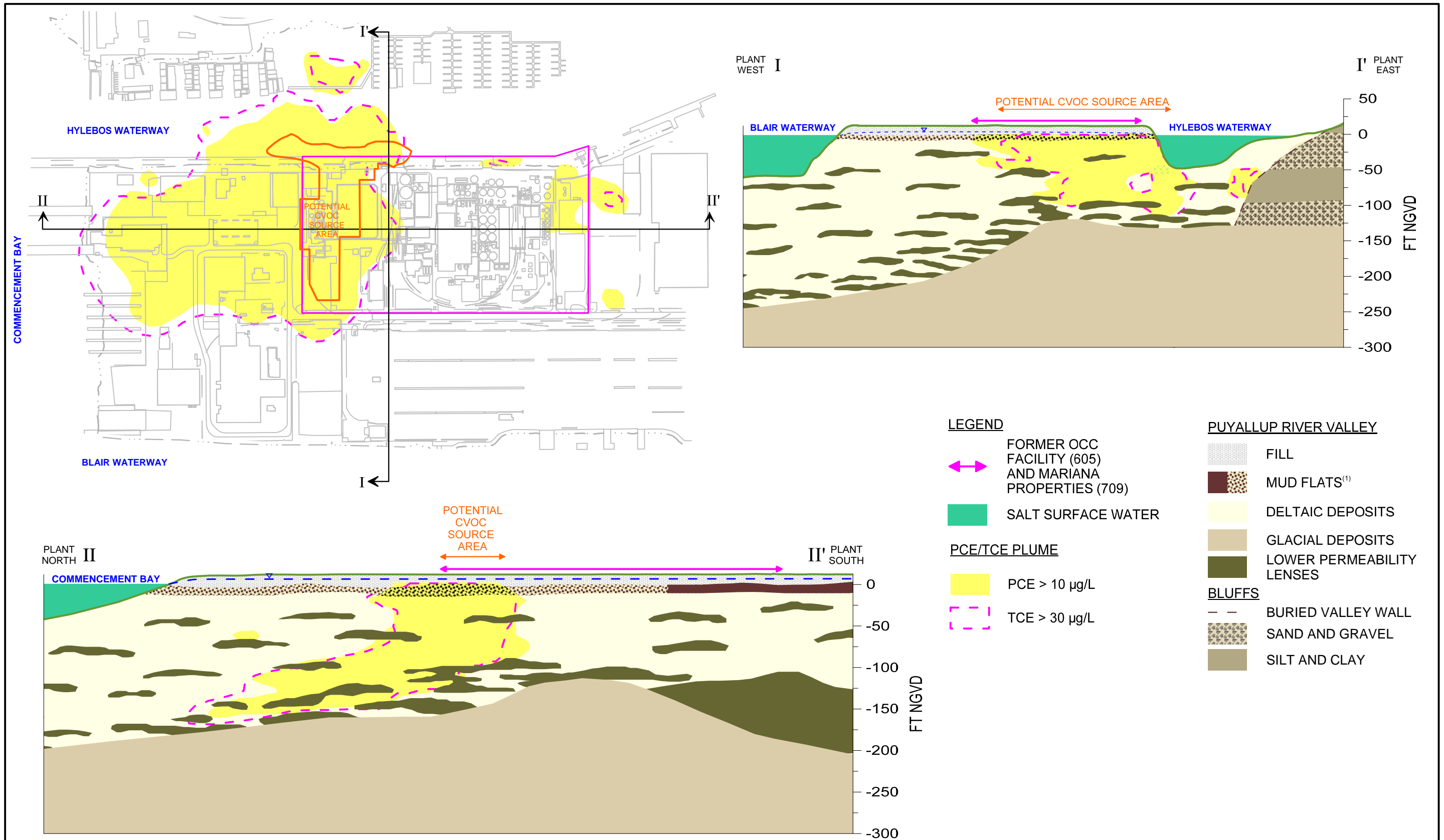
NOTES:
 (1) DARK BROWN INDICATES WHERE MUD FLATS ARE OBSERVED TO PROVIDE HYDRAULIC SEPARATION BETWEEN THE FILL AND DELTAIC DEPOSITS; LIGHT BROWN INDICATES WHERE HYDRAULIC SEPARATION BY THE MUD FLATS IS NOT CONFIRMED

figure 5.14

pH PLUME

Occidental Chemical Corporation, Tacoma, Washington





LEGEND

- FORMER OCC FACILITY (605) AND MARIANA PROPERTIES (709)
- SALT SURFACE WATER

PCE/TCE PLUME

- PCE > 10 µg/L
- TCE > 30 µg/L

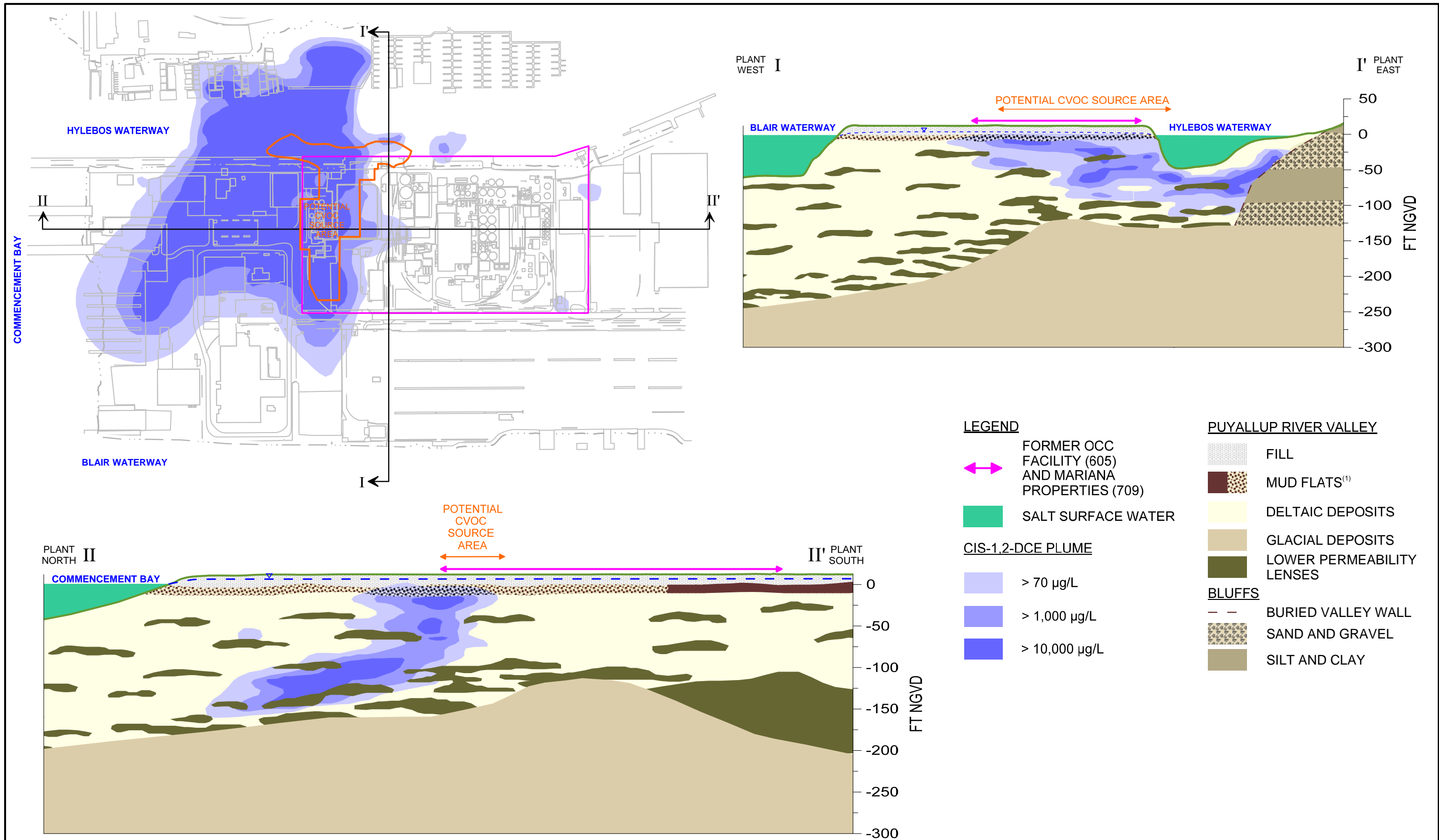
PUYALLUP RIVER VALLEY

- FILL
 - MUD FLATS⁽¹⁾
 - DELTAIC DEPOSITS
 - GLACIAL DEPOSITS
 - LOWER PERMEABILITY LENSES
- BLUFFS**
- BURIED VALLEY WALL
 - SAND AND GRAVEL
 - SILT AND CLAY

NOTES:
 (1) DARK BROWN INDICATES WHERE MUD FLATS ARE OBSERVED TO PROVIDE HYDRAULIC SEPARATION BETWEEN THE FILL AND DELTAIC DEPOSITS; LIGHT BROWN INDICATES WHERE HYDRAULIC SEPARATION BY THE MUD FLATS IS NOT CONFIRMED

figure 5.15
TCE/PCE PLUME IN GROUNDWATER
Occidental Chemical Corporation, Tacoma, Washington

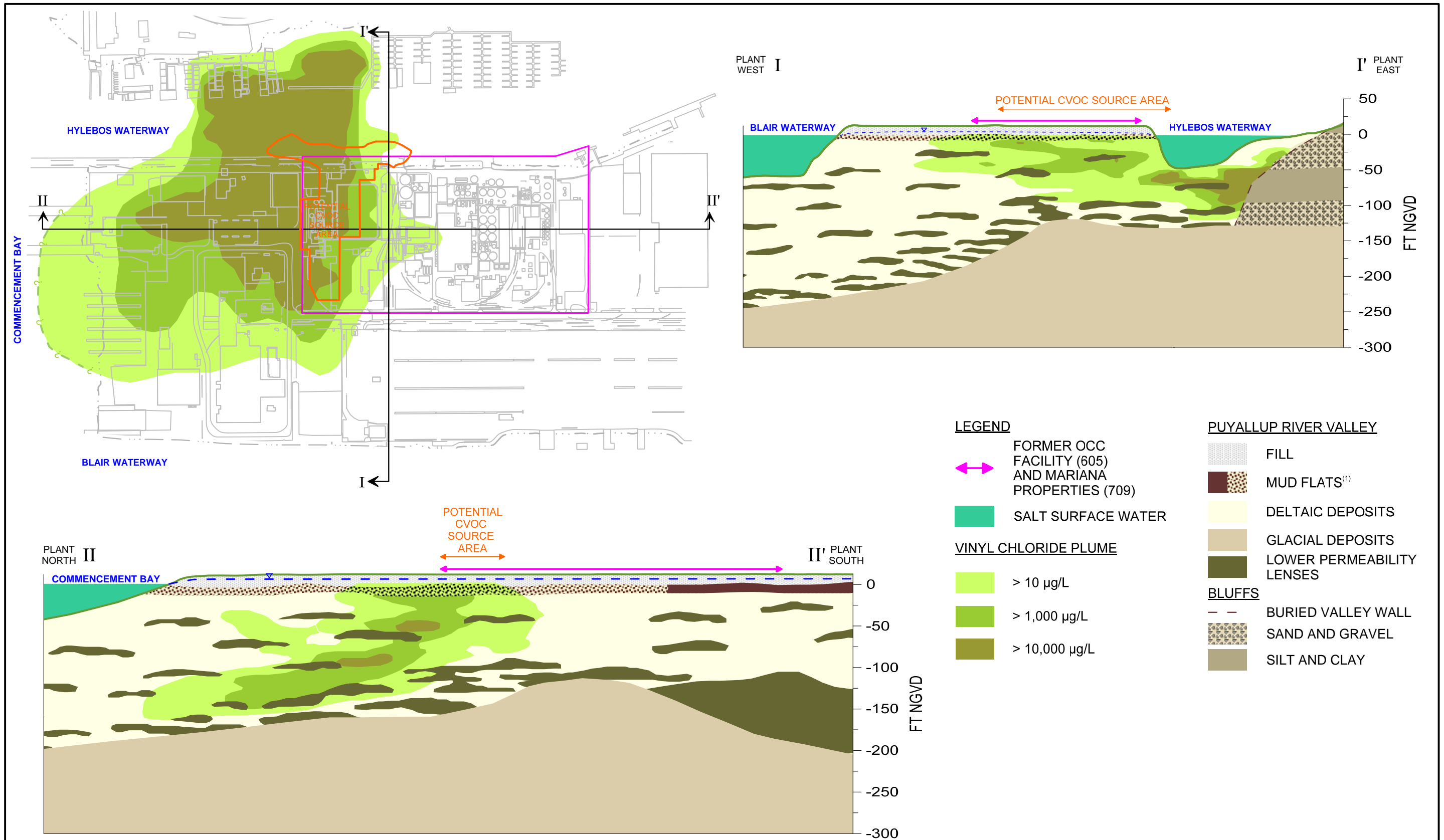




NOTES:
 (1) DARK BROWN INDICATES WHERE MUD FLATS ARE OBSERVED TO PROVIDE HYDRAULIC SEPARATION BETWEEN THE FILL AND DELTAIC DEPOSITS; LIGHT BROWN INDICATES WHERE HYDRAULIC SEPARATION BY THE MUD FLATS IS NOT CONFIRMED

figure 5.16
 CIS-1,2-DCE PLUME IN GROUNDWATER
 Occidental Chemical Corporation, Tacoma, Washington

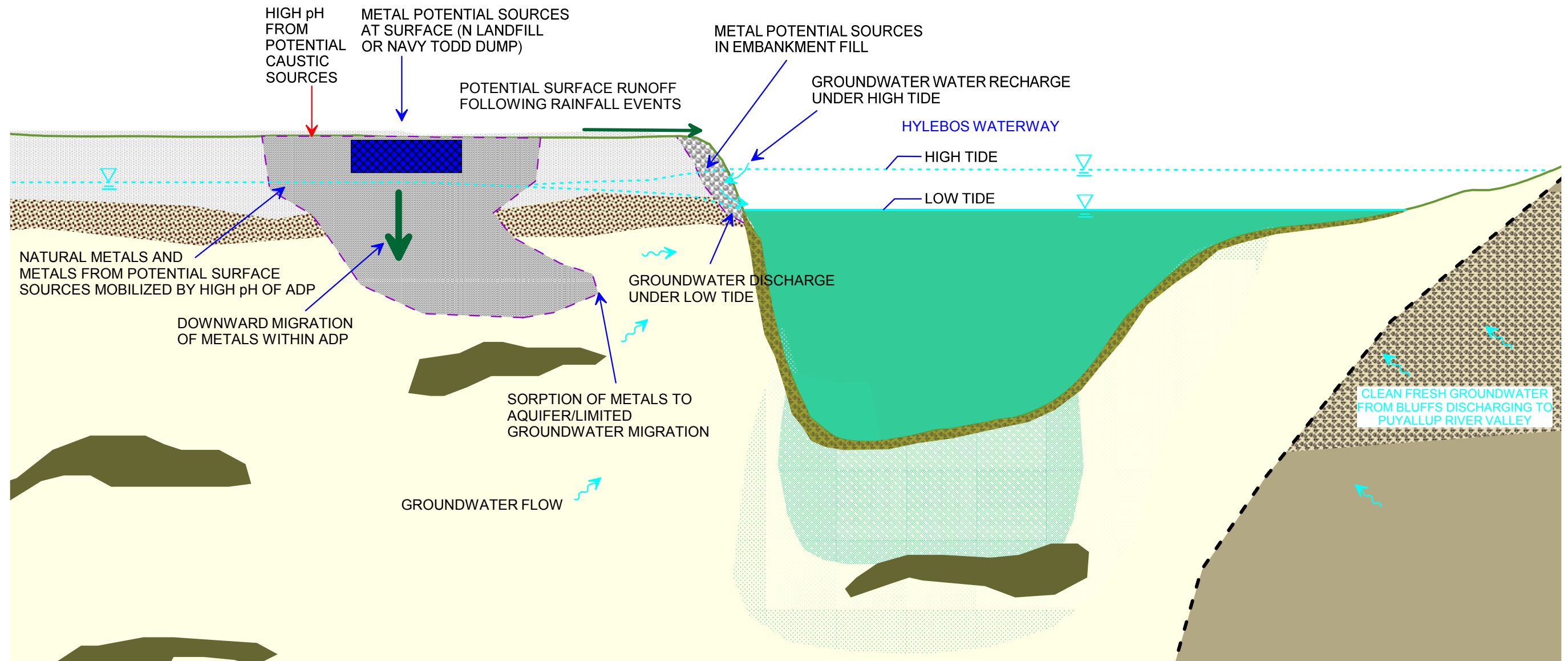




NOTES:
 (1) DARK BROWN INDICATES WHERE MUD FLATS ARE OBSERVED TO PROVIDE HYDRAULIC SEPARATION BETWEEN THE FILL AND DELTAIC DEPOSITS; LIGHT BROWN INDICATES WHERE HYDRAULIC SEPARATION BY THE MUD FLATS IS NOT CONFIRMED

figure 5.17

VINYL CHLORIDE PLUME IN GROUNDWATER
Occidental Chemical Corporation, Tacoma, Washington



LEGEND

- SEDIMENT
- METALS POTENTIAL SOURCES AT SURFACE
- METALS CONTAMINATED SOIL/GROUNDWATER
- SALT SURFACE WATER
- FRESH GROUNDWATER/SALT WATER TRANSITION ZONE IN AQUIFER
- SALT WATER IN AQUIFER

PUYALLUP RIVER VALLEY

- FILL MATERIAL
- MUD FLATS
- DELTAIC DEPOSITS
- LOWER PERMEABILITY LENSES

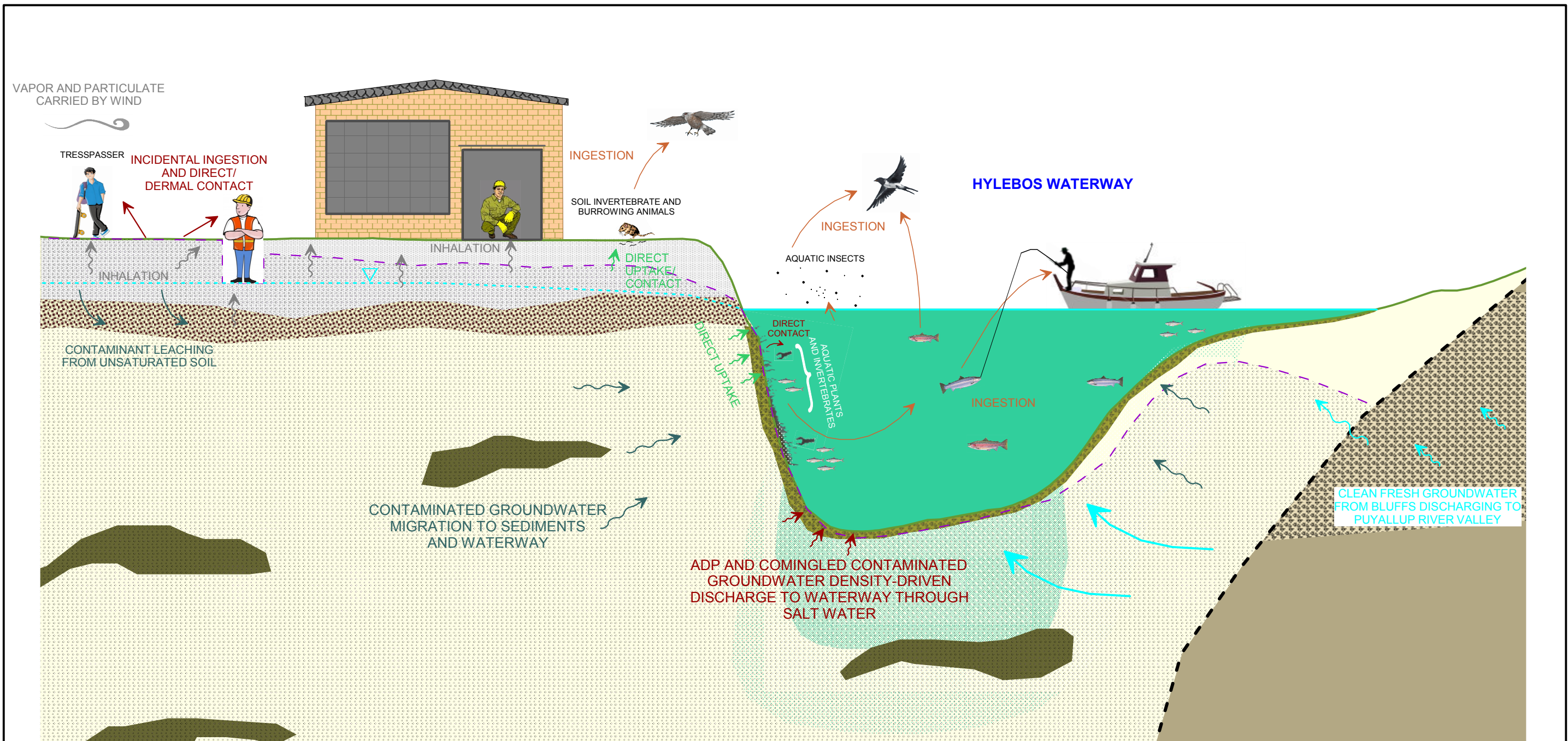
BLUFFS

- BURIED VALLEY WALL
- SAND AND GRAVEL
- SILT AND CLAY

DRAWING NOT TO SCALE

figure 5.18
SCHEMATIC OF METALS TRANSPORT PROCESSES
Occidental Chemical Corporation, Tacoma, Washington





LEGEND

- SEDIMENT
- CONTAMINATED SOIL/SEDIMENTS/ GROUNDWATER
- SALT SURFACE WATER
- SALT WATER IN AQUIFER
- FRESH/SALT WATER TRANSITION ZONE IN AQUIFER

PUYALLUP RIVER VALLEY

- FILL MATERIAL
- MUD FLATS
- DELTAIC DEPOSITS
- LOWER PERMEABILITY LENSES

BLUFFS

- BURIED VALLEY WALL
- SAND AND GRAVEL
- SILT AND CLAY

DRAWING NOT TO SCALE

figure 6.1

SCHMATIC OF EXPOSURE PATHWAYS AND RECEPTORS
Occidental Chemical Corporation, Tacoma, Washington



PRIMARY RISK DRIVERS

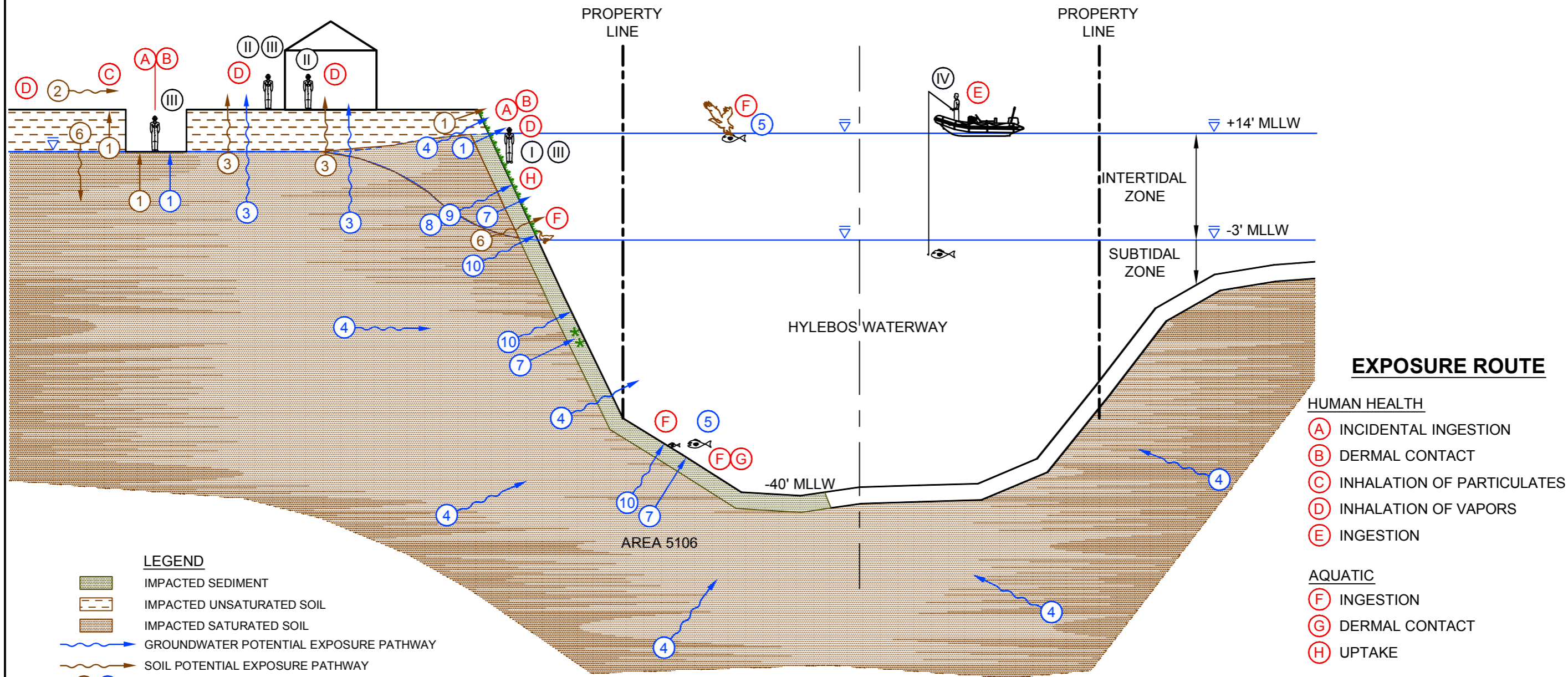
	GROUNDWATER	SEDIMENT	SOIL
VOCs	X	--	BENZENE, CHLOROFORM, PCE, TCE
SVOCs	HCB	--	HCB, HCBd
METALS	(1)	As, Pb	As, Pb
PESTICIDES	--	--	--
PCBs	X	X	X
DIOXINS / FURANS	X	X	X
pH	X	--	--

HUMAN RECEPTORS

- Ⓘ TRESPASSER
- Ⓜ INDUSTRIAL/COMMERCIAL WORKER
- Ⓢ CONSTRUCTION/UTILITY WORKER
- Ⓣ FISHER

RELEASE MECHANISMS

- | HUMAN HEALTH | AQUATIC |
|-----------------------|--------------------|
| ① ① DIRECT CONTACT | ⑦ ⑦ DIRECT CONTACT |
| ② ② WIND | ⑧ ⑧ INGESTION |
| ③ ③ VOLATILIZATION | ⑨ ⑨ UPTAKE |
| ④ ④ MIGRATION | ⑩ ⑩ DIETARY UPTAKE |
| ⑤ ⑤ BIO CONCENTRATION | |
| ⑥ ⑥ LEACHING | |



EXPOSURE ROUTE

- HUMAN HEALTH**
- Ⓐ INCIDENTAL INGESTION
 - Ⓑ DERMAL CONTACT
 - Ⓒ INHALATION OF PARTICULATES
 - Ⓓ INHALATION OF VAPORS
 - Ⓔ INGESTION
- AQUATIC**
- Ⓕ INGESTION
 - Ⓖ DERMAL CONTACT
 - Ⓗ UPTAKE

LEGEND

- IMPACTED SEDIMENT
- IMPACTED UNSATURATED SOIL
- IMPACTED SATURATED SOIL
- GROUNDWATER POTENTIAL EXPOSURE PATHWAY
- SOIL POTENTIAL EXPOSURE PATHWAY
- RELEASE MECHANISM (SOIL / GROUNDWATER)
- EXPOSURE ROUTE
- AQUATIC VEGETATION
- AQUATIC / BENTHIC INVERTEBRATE
- FISH
- BIRDS

NOTE:

(1) CONCENTRATIONS OF As, Cr, Cu, Pb, Ni, AND Zn PRESENT IN GROUNDWATER HAVE BEEN DETERMINED TO BE BIASED HIGH DUE TO INTERFERENCES ASSOCIATED WITH THE SITE'S GROUNDWATER MATRIX. THEY ARE NOT CONSIDERED TO BE REPRESENTATIVE OF SITE CONDITIONS.

figure 6.2
SCHEMATIC CONCEPTUAL SITE MODEL WITH RISK DRIVERS
Occidental Chemical Corporation, Tacoma, Washington

TABLE 3.1

**PRESENCE/ABSENCE OF LOW PERMEABILITY GLACIAL MATERIAL IN REGIONAL BOREHOLES EXTENDING FROM -150 TO -300 FT NGVD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Regional Borehole	Approximate Ground Surface Elevation (ft NGVD)	Depth Interval				Logged Soil Description	Low Permeability Glacial Material Present? ⁽¹⁾	Rationale
		Start Depth (ft BGS) ⁽²⁾	End Depth (ft BGS) ⁽²⁾	Start Elevation (ft NGVD)	End Elevation (ft NGVD)			
<u>Regional Boreholes with Low Permeability Glacial Material Present⁽¹⁾</u>								
20/3- 3L1	10	153	305	-143	-295	"Hardpan," Sand and Gravel, cemented; Sand and Clay	Yes	Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
20/3- 4J2	12	262	346	-250	-334	Boulders, in part cemented with clay	Yes	Cemented with clay, typically indicates glacial till
20/3- 4P2	10	145	195	-135	-185	"Hardpan," Shale	Yes	Hardpan and shale are typical terms for over consolidated fine grained soils, typically indicates glacial till
20/3- 4Q1	8	200	260	-192	-252	"Hardpan"	Yes	Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
		278	306	-270	-298	"Hardpan"	Yes	Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
20/3- 9D2	80	202	219	-122	-139	"Clay-Hardpan," Gravel, tight	Yes	Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
		220	235	-140	-155	"Clay-Hardpan," Gravel, tight	Yes	Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
		245	247	-165	-167	"Hardpan" and cemented gravel	Yes	Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
20/3- 9F1	40	202	286	-162	-246	"Hardpan," Cemented Gravel; Clay and a little gravel	Yes	Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
20/3- 10B1	25	136	211	-111	-186	Blue/Green Clay and Gravel	Yes	Clay and gravel typically indicates glacial till
		269	275	-244	-250	Clay and Gravel	Yes	Clay and gravel typically indicates glacial till
21/3- 27J1	10	147	243	-137	-233	Cemented Gravel; Gravel and Clay	Yes	Clay and gravel typically indicates glacial till
<u>Regional Boreholes with Low Permeability Glacial Material Possibly Present⁽¹⁾</u>								
20/3- 4G1	25	275	375	-250	-350	"Hardpan," brown and gray	Possibly	Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
20/3- 4H2	12	84	302	-72	-290	Gravel, Sand and Mud; Gravel, cemented; Clay and boulders	Possibly	Grain size range, cemented
20/4- 5E1	30	191	350	-161	-320	Clay, sandy; Clay; Clay, some gravel; Clay	Possibly	Layers of clay mixed with sand and gravel
20/3- 9A3	20	189	206	-169	-186	Clay and Gravel; Sand and Gravel, cemented	Possibly	Clay and gravel typically indicates glacial till
		259	280	-239	-260	"Hardpan," Sand and Gravel, cemented	Possibly	Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
20/3- 9D3	111	290	345	-179	-234	Gravel and Clay; Gravel and Clay with sand	Possibly	Gravel and clay typically indicates glacial till
20/3- 9D4	106	294	320	-188	-214	Clay, shot with gravel	Possibly	Clay and gravel typically indicates glacial till
21/3- 36P1	19	147	177	-128	-158	Shale (indicates very hard)	Possibly	"Shale" likely indicates over consolidated fine grained soils, typically indicates glacial till
RRI-B-167(B)	9.68	208.5	213.5	-198.82	-203.82	Gray, silty, fine sand with organics (dense, wet), gravel encountered during drilling	Possibly	High blow count indicates low permeability but description of wet and organics are not indicative of till
<u>Regional Boreholes with Low Permeability Glacial Material Not Present⁽¹⁾</u>								
20/3- 1L1	15	165	185	-150	-170	Sand, hard; Clay; Sand and streaks of clay	No	Sand and clay layers
20/3- 1R1	20	125	252	-105	-232	Sand, silty, numerous shells; Sand, fatty clay; Clay; Sand and Clay; Clay; Clay and Sand; Sand	No	Sand and clay layers, presence of shells
20/3- 4J3	10	165	310	-155	-300	Sand and small gravel; Clay; Gravel, cemented	No	Driller uses term "Gravel, cemented" to include water bearing units at depth
20/3- 9A1	20	150	175	-130	-155	Clean Gravel and Sand	No	Clean Gravel and Sand
20/3- 9C2	30	181	301	-151	-271	Several units of water bearing Sand, Gravel, mixed with clay	No	Water bearing sand, gravel
20/3- 12C1	15	143	277	-128	-262	Layered sands and clays	No	Layered sands and clays
20/4- 5Q2	50	187	540	-137	-490	Silts, Clays, Sands	No	No gravel in most units
20/4- 7Q1	24	163	190	-139	-166	Sand, blue; water-bearing	No	Sand
21/3- 26N1	11	142	310	-131	-299	Layered clays and sands	No	No gravel
21/3- 35B1	7	88	330	-81	-323	Clay; Sand, some gravel; Sand	No	Layers of clay, sand
21/3- 36L1	19	130	344	-111	-325	Layered sands and silts, some gravel	No	Layers of clay, sand
21/3- 36L2	15	138	308	-123	-293	Layered Sands and Clays	No	No gravel
21/4- 19B	283	385	618	-102	-335	Silty Sandy Clay; Sand with Silt; Silt	No	Silty sands, no gravel
21/4- 32F1	125	252	445	-127	-320	Clay, sand; Clay, hard; Sand and Silt, heaving; Clay, hard	No	No gravel
21/3- 49299	19	0	350	19	-331	Sand; Sand and Gravel; Muddy Sand; Sand	No	Sand and gravel, no clay, some Muddy Sand, but appears loose
21/3- 276182	19	166	329	-147	-310	Layered sand and clay	No	No gravel
21/3- 276388	19	0	241	19	-222	Clay and Sand	No	No gravel
RRI-B-165(B)	9.68	109.68	171.5	100	-161.82	Silt, fine sand, and trace shells	No	No gravel
RRI-B-169(B)	9.18	109.18	171.5	100	-162.32	Sand and Silty Sand	No	No gravel
RRI-B-170(B)	9.86	109.86	251.5	100	-241.64	Sand and Silt with Sand; Sand and gravel; Clayey Silt	No	Sand and gravel, no presence of silt in those layers
RRI-B-171(B)	9.48	109.48	171.5	100	-162.02	Sand with trace Silt	No	No gravel
RRI-B-172(B)	10.18	110.18	251.5	100	-241.32	Clay, Sand, and shells; Sand with Silt and Gravel; Clayey Silt	No	Shells directly above silt with trace gravel layer indicates that material is unlikely till; Density and wetness also do not support till

Notes:

- (1) A low permeability glacial material is considered present, or possibly present, where the soil description includes gravel and sand in a fine-grained silty matrix having a high density, no apparent layering, and low moisture content.
- (2) The start and end depths (and calculated elevations) are based on the start and end depths of the identified low permeability unit(s) on each stratigraphic log, even when the start depth is above -150 ft NGVD or the end depth extends below -300 ft NGVD. Where a low permeability unit was not identified on the stratigraphic log, the unit top and bottom depths straddling the -150 to -300 ft NGVD range are presented.

TABLE 3.2

PRESENCE/ABSENCE OF LOW PERMEABILITY GLACIAL MATERIAL IN REGIONAL BOREHOLES BELOW -300 ft NGVD
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Regional Borehole	Approximate Ground Surface Elevation (ft NGVD)	Depth Interval				Logged Soil Description	Low Permeability Glacial Material Present? ⁽¹⁾	Low Permeability Material (Non-Glacial) Present? ⁽²⁾	Rationale
		Start Depth (ft BGS) ⁽³⁾	End Depth (ft BGS) ⁽³⁾	Start Elevation (ft NGVD)	End Elevation (ft NGVD)				
20/3- 3L1	10	305	330	-295	-320	Sand and gravel, tight	No		
		330	333	-320	-323	Hardpan	Yes		Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
		333	344	-323	-334	Clay "sticky"	No	Yes	Clay, no gravel
		344	380	-334	-370	Sand and gravel	No		
		380	490	-370	-480	Clay "sticky," Hardpan	Yes	Yes	Clay, no gravel; Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
		490	534	-480	-524	Gravel; Hardpan	Yes (in part)	Yes (in part)	Clay, no gravel
20/3- 4G1	25	375	423	-350	-398	Clay, blue	No	Yes	Clay, no gravel
		423	583	-398	-558	Sand, cemented and gravel; Hardpan; Gravel, cemented, hard	Yes		Cemented soils often indicate till; Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
		583	640	-558	-615	Multiple units of sand and clay	No	Yes (in part)	Some deep "clay, no gravel" units below -500 ft NGVD
20/3- 4H2	12	302	314	-290	-302	Gravel	No		
		314	320	-302	-308	Clay	No	Yes	Clay, no gravel
		320	327	-308	-315	Gravel	No		
		327	460	-315	-448	"Hardpan," clay, and boulders	Yes		Hardpan is typical term for over consolidated fine grained soils; Clay and boulders indicates possible glacial till
		460	592	-448	-580	Gravel and boulders; Rock	No		
		592	1501	-580	-1489	Multiple units of gravel, shale, clay, sand	No	Yes (in part)	Some deep "clay, no gravel" units below -500 ft NGVD
20/3- 4J2	12	346	421	-334	-409	Clay and boulders	Possibly	Yes	Clay and boulders indicates possible till, clay indicates low permeability
		421	553	-409	-541	Multiple boulders, sand, gravel, cobbles units	No		
		553	705	-541	-693	Multiple units of boulders and clay, boulders, clay, gravel	No	Yes (in part)	Some deep "clay, no gravel" units below -500 ft NGVD
20/3- 4J3	10	310	317	-300	-307	Clay, sandy	No	Yes	Clay, no gravel
		317	369	-307	-359	Gravel, cemented, some water; sand, water bearing	No		
		369	379	-359	-369	Clay	No	Yes	Clay, no gravel
		379	388	-369	-378	Sand and gravel, water bearing	No		
		388	397	-378	-387	"Hardpan"	Yes		Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
		397	435	-387	-425	Sand and gravel, water bearing	No		
		435	447	-425	-437	"Hardpan"	Yes		Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
		447	457	-437	-447	Sand and gravel, water bearing	No		
		457	466	-447	-456	"Hardpan"	Yes		Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
		466	470	-456	-460	Clay	No	Yes	Clay, no gravel
		470	547	-460	-537	Gravel and sand, cemented; Gravel and sand; Sand	No		
20/3- 4Q1	8	306	320	-298	-312	Clay, brown and blue	No	Yes	Clay, no gravel
		320	328	-312	-320	Gravel, water bearing	No		
		328	335	-320	-327	"Hardpan"	Yes		Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
		335	430	-327	-422	Sands and gravels	No		
		430	489	-422	-481	"Hardpan"	Yes		Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
		489	492	-481	-484	Gravel, water bearing	No		
20/3- 9A3	20	283	288	-263	-268	Clay	No	Yes	Clay, no gravel
		288	303	-268	-283	Sand and gravel with clay	Possibly	Yes	Clay with sand and gravel indicates low permeability, possibly glacial till due to grain size range
		303	312	-283	-292	Clay	No	Yes	Clay, no gravel
		312	320	-292	-300	"Hardpan"	Yes		Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
20/3- 9D3	111	345	350	-234	-239	Sand	No		
		350	375	-239	-264	Clay, sandy	No	Yes	Clay, no gravel
		375	651	-264	-540	Sand; Sand and gravel	No		
		651	677	-540	-566	Clay	No	Yes	Clay, no gravel
20/3- 9D4	106	320	340	-214	-234	Clay, sandy	No	Yes	Clay, no gravel
		340	360	-234	-254	Sand, fine	No		
		360	375	-254	-269	Clay, sandy	No	Yes	Clay, no gravel
		375	520	-269	-414	Gravel; sand and gravel	No		
		520	540	-414	-434	Clay	No	Yes	Clay, no gravel

**TABLE 3.2
PRESENCE/ABSENCE OF LOW PERMEABILITY GLACIAL MATERIAL IN REGIONAL BOREHOLES BELOW -300 ft NGVD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Regional Borehole	Approximate Ground Surface Elevation (ft NGVD)	Depth Interval				Logged Soil Description	Low Permeability Glacial Material Present? ⁽¹⁾	Low Permeability Material (Non-Glacial) Present? ⁽²⁾	Rationale
		Start Depth (ft BGS) ⁽³⁾	End Depth (ft BGS) ⁽³⁾	Start Elevation (ft NGVD)	End Elevation (ft NGVD)				
20/3- 9F1	40	286	455	-246	-415	Multiple sand, sand and gravel, gravel units	No		
		455	467	-415	-427	Clay, blue	No	Yes	Clay, no gravel
		467	474	-427	-434	Sand and gravel, cemented	No		
		474	492	-434	-452	Clay, sandy	No	Yes	Clay, no gravel
		492	609	-452	-569	Sand and gravel, cemented; Sand and gravel	No		
		609	618	-569	-578	Hardpan	Yes		Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
20/4 5E1	30	240	350	-210	-320	Clay	No	Yes	Clay, no gravel
20/4- 5Q2	50	278	288	-228	-238	Clay, sandy	No	Yes	Clay and sand, no gravel
		288	332	-238	-282	Sand, fine, muddy; Sand, fine	No		
		332	415	-282	-365	Clay, blue	No	Yes	Clay, no gravel
		415	540	-365	-490	"Heaving sands"	No		
21/3- 26N1	11	310	340	-299	-329	Sand and gravel	No		
		340	456	-329	-445	Clay with some shells; clay, sandy; clay	No	Yes	Clay, no gravel
		456	458	-445	-447	Gravel	No		
		458	520	-447	-509	Sand and gravel, water bearing	No		
		520	785	-509	-774	Multiple units of gravel, sand, clay	No	Yes (in part)	Some deep "clay, no gravel" units below -500 ft NGVD
21/3- 27J1	10	243	328	-233	-318	Gravel and gravel, loose	No		
		328	352	-318	-342	"Hardpan"	Yes		Hardpan is typical term for over consolidated fine grained soils, typically indicates glacial till
		352	374	-342	-364	Wood and gravel	No		
		374	398	-364	-388	Clay, blue	No	Yes	Clay, no gravel
		398	420	-388	-410	Clay and gravel; cemented gravel	Yes		Grain size range
		420	430	-410	-420	Gravel	No		
		430	454	-420	-444	Clay and gravel; sandy clay	Possibly	Yes	Grain size range
		454	527	-444	-517	Clay, blue	No	Yes	Clay, no gravel
		527	1216	-517	-1206	Multiple units of gravel, sand, and clay	No	Yes (in part)	Some deep "clay, no gravel" units below -500 ft NGVD
21/3- 35B1	7	330	416	-323	-409	Sand	No		
		416	446	-409	-439	Clay, blue	No	Yes	Clay, no gravel
		446	458	-439	-451	Sand	No		
		458	481	-451	-474	Clay	No	Yes	Clay, no gravel
		481	856	-474	-849	Multiple units of gravel, clay, sand	No	Yes (in part)	Some deep "clay, no gravel" units below -500 ft NGVD
21/3- 36L1	19	344	352	-325	-333	Clay and silt	No	Yes	Clay, no gravel
		352	500	-333	-481	Sand	No		
		500	950	-481	-931	Multiple units of silt, gravel, clay, sand	No	Yes (in part)	Some deep "clay, no gravel" units below -500 ft NGVD
21/3- 36L2	15	308	530	-293	-515	Sand	No		
		530	836	-515	-821	Multiple units of clay, sand, gravel	No	Yes (in part)	Some deep "clay, no gravel" units below -500 ft NGVD
21/3- 36P1	19	288	515	-269	-496	Sand; gravel; sand	No		
		515	824	-496	-805	Multiple units of clay, gravel	No	Yes (in part)	Some deep "clay, no gravel" units below -500 ft NGVD
21/3- 49299	19	350	505	-331	-486	Sand	No		
		505	542	-486	-523	Clay, blue	No	Yes	Clay, no gravel
		542	907	-523	-888	Multiple units of sand, clay, sandy clay, muddy sand	No	Yes (in part)	Some deep "clay and sandy clay, no gravel" units below -500 ft NGVD
21/3- 276182	19	329	615	-310	-596	Alternating "sand and clay" and "clay" units	No	Yes (in part)	Numerous "sand and clay" and "clay" units
		615	901	-596	-882	Alternating "clay" and "sand and gravel", "sand and clay" units	No	Yes (in part)	Numerous deep "clay, no gravel" or "sand and clay, no gravel" units below -500 ft NGVD
21/3- 276388	19	288	465	-269	-446	Sand	No		
		465	515	-446	-496	Gravel	No		
		515	620	-496	-601	Clay	No	Yes	Clay, no gravel
		620	883	-601	-864	Multiple units of gravel, clay, silt, sand	No	Yes (in part)	Some deep "clay, no gravel" units below -500 ft NGVD

TABLE 3.2

PRESENCE/ABSENCE OF LOW PERMEABILITY GLACIAL MATERIAL IN REGIONAL BOREHOLES BELOW -300 ft NGVD
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Regional Borehole	Approximate Ground Surface Elevation (ft NGVD)	Depth Interval				Logged Soil Description	Low Permeability Glacial Material Present? ⁽¹⁾	Low Permeability Material (Non-Glacial) Present? ⁽²⁾	Rationale
		Start Depth (ft BGS) ⁽³⁾	End Depth (ft BGS) ⁽³⁾	Start Elevation (ft NGVD)	End Elevation (ft NGVD)				
21/4- 19B	283	618	701	-335	-418	Clay	No	Yes	Clay, no gravel
		701	921	-418	-638	Sand with silty zones	No		
		921	951	-638	-668	Clay	No	Yes	Clay, no gravel
21/4- 32F1	125	445	710	-320	-585	Clay and silt; clay	No	Yes	Clay and silt, clay, no gravel
		710	720	-585	-595	"Sandstone"	No		

Notes:

- (1) A low permeability glacial material is considered present, or possibly present, where the soil description includes gravel and sand in a fine-grained silty matrix having a high density, no apparent layering, and low moisture content.
- (2) A low permeability material is considered present when the soil description includes the words "clay" or "silt."
- (3) The start and end depths (and calculated elevations) are based on the start and end depths of the identified low permeability unit(s) on each stratigraphic log, even when the start depth is above -150 ft NGVD or the end depth extends below -300 ft NGVD. Where a low permeability unit was not identified on the stratigraphic log, the unit top and bottom depths straddling the -150 to -300 ft NGVD range are presented.

TABLE 3.4

**SOIL DESCRIPTIONS CORRESPONDING TO FORMER TIDAL MUD FLATS OBSERVED ALONG SHALLOW STRATIGRAPHIC CROSS-SECTION Z-Z'
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Stratigraphic Log Along Cross-Section Z-Z'</i>	<i>Depth Interval (ft BGS)</i>	<i>Elevation (ft NGVD)</i>	<i>Soil Description Corresponding to Former Tidal Mud Flats</i>
709-BH12/MW18 (BH)	15.25 to 17.25	-4.08 to -6.08	CL-SILTY CLAY, loose, low plasticity, seams/layers of silt and trace clay, light gray, very moist, sand size shell fragments, wood fragments.
709-BH-06	15 to 17	-4.75 to -5.85	CL-CLAY, firm, low plasticity, light gray, moist to wet, 0.01' to 0.03' length wood fragments.
709-MW15A (BH)	17.4 to 18.4	-5.37 to -6.37	CL-SILTY CLAY, firm, low plasticity, light gray, moist, wood fragments scattered in concentrated layers.
709-MW15A (BH)	24.5 to 27.5	-12.47 to -15.47	CL-SILTY CLAY, firm, low plasticity, light gray, moist, high concentration of fine to medium gravel size shell fragments.
709-BH-03	16.8 to 18.2	-4.83 to -6.23	CL-SILTY CLAY, firm, low to medium plasticity, some small wood fragments, dark gray,
709-BH-04	24 to 25	-12.23 to -13.13	CL-SILTY CLAY, firm, low plasticity, gray, moist. Fine to medium gravel size shell fragments at 24.7 ft BGS.
709-BH-01	15.5 to 18.8	-3.59 to -6.84	CL-SILTY CLAY, medium plasticity, brown, moist.
709-BH-02	24.25 to 25	-12.34 to -13.09	CL-CLAY, trace silt, trace fine grained sand, low plasticity, brown, moist, large shell
709-MW6-25	15 to 19	-3.14 to -7.14	CL-SILTY SANDY CLAY, stiff, low plasticity, gray, moist, shell fragments
709-MW6 BH	17.4 to 19	-5.61 to -7.21	CL-SILTY CLAY, firm, low to medium plasticity, gray, moist, wood fragments 0.03x0.01'
709-MW6 BH	27 to 27.8	-15.21 to -16.01	CL-SILTY CLAY, trace fine sand, firm, low to medium plasticity, light gray, very wet, up to medium gravel size shell fragments
709-MW20 (BH)	17.1 to 17.7	-3.64 to -4.24	CL-SILTY CLAY, firm, low plasticity, light gray, moist, wood fragments. 0.01' wood at 17.2 ft BGS
38-55	24.7 to 27.2	-12.4 to -27.2	CL-SILTY CLAY, light olive grey, soft to firm, wet. Shell fragments.

TABLE 3.5

EVIDENCE OF ZONE OF APPARENT CONFINING EFFECT
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Well Location	Stratigraphy	Sample Elev (ft NGVD)	Density (lb/ft ³)	Classification	TDS (mg/L)	TCVOCs (µg/L)	pH	Event 3a FEH 2012	FEH Category	Well Type	Even 3a ENV 2012	Approximate Glacial Surface Contact (ft NGVD)	Approximate Top of Zone of Apparent Confining Effects Elevation (ft NGVD)
5-25		-10.8	62.91976704	ADP	4350	2.54	11.17	1.89	1	Standard	1.81	-120	-85
5-50		-35.8	63.61200768	ADP	28500	65	10.98	1.57	4	Standard	1.16 ↓		
5-75		-59.5	64.80292416	ADP	53800	0.07	8.42	1.92	4	Standard	0.74 ↓		
5-100		-85.8	63.45665664	Transition	25800	0.5	7.74	2.35	2	Standard	0.46 ↓		
6A-50		-35.6	62.91936768	Transition	13100	1	11.89	1.97	1	Standard	1.73	<-200	Below -85.3
6A-100		-85.3	63.5701248	Transition	25800	0.5	11.97	2.16	2	Standard	1.18 ↓		
7-25		-9.5	62.4700128	ADP	939	146600	8.26	1.20	1	Standard	1.18	-175	-100
7-100		-84.7	63.48493632	Transition	22100	0.3	7.76	1.84	1	Standard	1.16 ↓		
7-181		-165.5	62.70503616	Fresh	6110	0.5	8.6	6.17	1	Standard	3.85 ↑		
9-25		-10.9	62.44857965	Fresh	1550	1.55	11.07	2.19	2	Standard	2.17	<-200	Below -85.8
9-50		-35.7	62.57776762	Fresh	2630	1.2	9.73	1.84	1	Standard	1.75 ↓		
9-100		-85.8	63.60254784	Salt	25200	0.77	8.1	2.79	4	Standard	2.16 ↑		
11-25		-10.18	62.51029824	ADP	1180	1248.5	8.5	1.50	1	Standard	1.47	-176	-130
11-45		-27.62	62.85372288	Transition	10600	108.8	8.27	0.56	1	Standard	0.38 ↓		
11-75		-60.65	63.03001536	ADP	17200	6928	8.72	0.88	1	Standard	0.42 ↑		
11-100		-83.5	65.68887936	ADP	75800	183200	6.88	1.80	4	Standard	0.53 ↑		
11-183		-165.62	62.8670016	Transition	8610	15.7	12.09	5.88	2	Standard	-0.92 ↓		
12-25		-10.6	62.42685696	Fresh	136	0.69	6.92	1.27	1	Standard	1.26	-150	-116
12-75		-58.73	63.10676736	Transition	14800	13	7.35	1.10	1	Standard	0.87 ↓		
12-100		-88.28	63.34550976	ADP	18500	6200	8.97	0.29	4	Standard	-0.35 ↓		
12-160		-144.02	62.64578112	Fresh	5070	0.5	7.95	7.03	1	Standard	5.27 ↑		
40-25		-8.6	62.48588736	Fresh	563	0.21	6.53	2.44	1	Standard	2.41	-176	Below -61.21
40-50		-34.1	63.65039616	Salt	26300	0.5	7.14	1.35	2	Standard	1.10 ↓		
40-75		-61.21	63.54513984	Transition	24600	4.47	7.15	0.91	2	Standard	0.29 ↓		
45-50		-35.2	62.61043776	Fresh	3290	0.65	9.28	1.71	1	Standard	1.64	<-200	Below -85.9
45-100		-85.9	63.8586624	Transition	29400	0.5	8.12	2.40	4	Standard	1.63 ↓		
64-100		-85.23	63.66579648	Transition	25500	1.32	6.92	2.12	2	Standard	0.78	-160	-145
64-170		-161.47	63.02517312	Transition	11400	0.84	7.31	5.71	2	Standard	0.84 ↑		
65-25		-11.05	62.89236096	Transition	9470	6.44	8.67	1.84	1	Standard	1.72	-120	-85
65-50		-36.04	64.07658816	ADP	34300	141.4	11.78	1.39	1	Standard	0.88 ↓		
65-100		-85.94	68.24942592	ADP	133000	0.5	8.21	2.91	4	Standard	0.39 ↓		
65-130		-115.73	62.59438848	Fresh	4130	0.5	7.84	5.20	2	Standard	1.61 ↑		
74-50		-35.76	63.50450496	Transition	23600	0.5	7.8	0.66	2	Standard	0.35	-175	Below -85.76
74-75		-60.76	63.81233664	Salt	31600	0.5	8.03	1.24	4	Standard	0.47 ↑		
74-100		-85.76	63.90773376	ADP	32800	6.85	7.93	2.18	1	Standard	0.87 ↑		
75-50		-35.36	63.67276032	ADP	27600 J	2.5	11.38	1.90	1	Standard	1.38	-120	-70
75-75		-60.27	67.4218272	ADP	116000 J	0.29	8.69	2.70	4	Standard	0.97 ↓		
75-100		-85.29	62.78673024	Transition	7930 J	0.5	10.64	3.00	1	Standard	0.20 ↓		
75-130		-115.2	62.44098432	Fresh	599	0.5	8.38	3.12	1	Standard	0.10 ↓		
709-MW16-15		0.6	62.48114496	Fresh	246	2.88	6.55	3.61	2	Standard	4.86	<-200	Below -60.44
709-MW16-25		-10.29	62.47710144	Fresh	404	10.52	8.53	1.82	1	Standard	1.81 ↓		
709-MW16-50		-35.42	62.58617664	Fresh	2280	0.5	11.54	1.65	1	Standard	1.54 ↓		
709-MW16-75		-60.44	62.49325056	Fresh	1130	0.37	12.03	1.87	2	Standard	1.61 ↑		
709-MW20-25		-8.97	62.48469926	Fresh	2250	81	7.77	1.11	1	Standard	1.07	-180	Below -61.56
709-MW20-50		-34.29	62.50897536	Fresh	2740	0.5	7.97	1.39	1	Standard	1.20 ↑		
709-MW20-75		-61.56	63.39285888	Transition	21100	0.5	7.75	1.96	2	Standard	1.51 ↑		
721-MW5-15		-1.02	62.4275808	Fresh	811	4.07	7.52	3.58	1	Standard	4.83	<-200	Below -60.19
721-MW5-25		-11.03	62.66487552	Fresh	4680	12.3	10.77	1.45	1	Standard	1.43 ↓		
721-MW5-50		-35.11	62.79766272	Transition	7510	18.4	8.15	1.55	2	Standard	1.40 ↓		
721-MW5-75		-60.19	63.52604544	Transition	23600	0.5	7.77	1.91	4	Standard	1.49 ↑		
721-MW10-15		-1.87	62.78253696	Transition	10100 J	0.5	6.73	2.97	4	Standard	4.21	<-200	Below -60.02
721-MW10-25		-11.8	62.48953152	Fresh	931	0.39	8.38	1.04	1	Standard	0.99 ↓		
721-MW10-50		-36.84	62.48750976	Transition	11000	1.48	8.25	1.84	2	Standard	1.67 ↑		
721-MW10-75		-60.02	63.51299136	Transition	22200	0.11	7.96	1.91	1	Standard	1.42 ↓		

TABLE 3.5
EVIDENCE OF ZONE OF APPARENT CONFINING EFFECT
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Table with columns: Well Location, Stratigraphy, Sample Elev (ft NGVD), Density (lb/ft³), Classification, TDS (mg/L), TCVOcs (µg/L), pH, Event 3a FEH 2012, FEH Category, Well Type, Even 3a ENV 2012, Approximate Glacial Surface Contact (ft NGVD), Approximate Top of Zone of Apparent Confining Effects Elevation (ft NGVD). Rows include wells like 721-MW11-15, PZ-SHI-2-75, SB-B-DEEP (72-74), MW-EXT-9-DEEP (72-74), MW-F-DEEP (57-59), MW-F-SHALLOW-NEW, MW-G-DEEP (52-54), MW-H-01 (72-74), WW-A1-2, WW-A2-2, WW-A3-25, WW-A4-25.

TABLE 3.6
SUMMARY OF WELL COMPLETION DETAILS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Location	Easting	Northing	Ground	Reference	Well	Screened Interval		Screened Interval		Sand Pack Interval		Sand Pack Interval		Monitoring Zone
			Elevation (ft NGVD)	Elevation (ft NGVD)	Diameter (in)	Bottom (ft BGS)	Top (ft BGS)	Bottom (ft NGVD)	Top (ft NGVD)	Bottom (ft BGS)	Top (ft BGS)	Bottom (ft NGVD)	Top (ft NGVD)	
C-2	1166919.5	715454.2	12.70	9.05	10.0	68.50	38.50	-55.80	-25.80	70.00	28.50	-57.30	-15.80	25,50
C-3	1166990.9	715372.3	13.00	9.23	10.0	68.50	37.50	-55.50	-24.50	70.00	20.00	-57.00	-7.00	25,50
C-4	1167038.8	715325.7	12.90	9.28	10.0	68.50	38.50	-55.60	-25.60	70.00	28.50	-57.10	-15.60	25,50
C-5	1167118.6	715256.6	12.80	9.17	10.0	68.50	38.50	-55.70	-25.70	70.00	28.50	-57.20	-15.70	25,50
C-6	1167177.9	715200.3	12.70	9.07	10.0	68.50	38.50	-55.80	-25.80	70.00	28.50	-57.30	-15.80	25,50
C-7	1167255.7	715124.8	12.60	8.96	10.0	68.50	38.50	-55.90	-25.90	70.00	28.50	-57.40	-15.90	25,50
C-70	1167628.1	715804.4	11.20	10.88	10.0	74.90	64.90	-63.70	-53.70	75.90	54.90	-64.70	-43.70	75
C-8	1167306.1	715047.2	12.50	8.85	10.0	68.50	38.50	-56.00	-26.00	70.00	28.50	-57.50	-16.00	25,50
C-9	1167380.4	715005.3	12.30	8.67	10.0	68.50	38.50	-56.20	-26.20	70.00	28.50	-57.70	-16.20	25,50
D-2	1166962.9	715609.3	12.10	8.60	10.0	68.50	38.50	-56.40	-26.40	70.00	28.50	-57.90	-16.40	25,50
D-3	1167069.7	715695.2	11.90	8.68	10.0	68.50	38.50	-56.60	-26.60	70.00	28.50	-58.10	-16.60	25,50
D-4	1167198.0	715866.7	11.60	8.32	10.0	104.90	94.90	-93.30	-83.30	106.00	84.70	-94.40	-73.10	100
D-5	1167032.0	715955.2	12.31	8.81	10.0	119.99	69.99	-107.68	-57.68	121.49	66.49	-109.18	-54.18	100
EW-101-50	1166895.5	715543.0	11.60	10.76	6.0	55.60	45.60	-44.00	-34.00	57.60	34.60	-46.00	-23.00	50
EW-133-50	1167256.2	716103.9	10.60	10.33	6.0	55.00	45.00	-44.40	-34.40	57.00	35.00	-46.40	-24.40	50
EW-138-145	1167024.1	716309.7	11.20	10.98	10.0	150.00	140.00	-138.80	-128.80	151.00	129.00	-139.80	-117.80	-
EXT-7	1167387.3	716052.4	11.41	11.15	6.0	132.00	122.00	-120.59	-110.59	135.00	117.00	-123.59	-105.59	100
EXT-9	1166777.4	716166.7	12.57	12.17	6.0	130.00	110.00	-117.43	-97.43	133.00	100.00	-120.43	-87.43	100
Injection Wells														
E-1	1166897.9	716556.4	10.90	7.34	10.0	50.00	25.00	-39.10	-14.10	50.00	20.00	-39.10	-9.10	25,50
E-10	1167337.5	715995.9	11.40	7.82	10.0	50.00	25.00	-38.60	-13.60	52.00	20.00	-40.60	-8.60	25,50
E-2	1166957.5	716495.7	11.10	7.58	10.0	50.00	25.00	-38.90	-13.90	50.00	20.00	-38.90	-8.90	25,50
E-3	1166965.9	716452.8	10.80	7.17	10.0	49.90	24.90	-39.10	-14.10	50.00	20.00	-39.20	-9.20	25,50
E-3A	1167000.0	716419.5	10.90	7.40	10.0	50.00	25.00	-39.10	-14.10	50.00	20.00	-39.10	-9.10	25,50
E-4	1167044.2	716386.0	11.00	7.46	10.0	50.00	25.00	-39.00	-14.00	50.00	20.00	-39.00	-9.00	25,50
E-5	1167082.2	716342.3	10.80	7.03	10.0	49.50	24.50	-38.70	-13.70	50.00	20.00	-39.20	-9.20	25,50
E-6	1167134.5	716292.1	10.70	7.13	10.0	50.00	25.00	-39.30	-14.30	50.00	20.00	-39.30	-9.30	25,50
E-7	1167167.7	716259.4	10.80	7.27	10.0	49.80	24.80	-39.00	-14.00	50.00	19.90	-39.20	-9.10	25,50
E-8	1167232.9	716196.0	10.30	6.75	10.0	50.00	25.00	-39.70	-14.70	50.00	20.00	-39.70	-9.70	25,50
E-9	1167372.0	716067.8	10.60	7.07	10.0	49.60	24.60	-39.00	-14.00	50.00	20.00	-39.40	-9.40	25,50
F-10	1167930.2	715563.4	9.80	7.84	10.0	50.00	25.00	-40.20	-15.20	50.00	20.00	-40.20	-10.20	25,50
F-2	1167386.1	715950.7	11.10	7.59	10.0	50.00	25.00	-38.90	-13.90	52.00	20.00	-40.90	-8.90	25,50
F-3	1167495.1	715954.9	11.40	7.89	10.0	50.00	25.00	-38.60	-13.60	52.00	20.00	-40.60	-8.60	25,50
F-4	1167542.5	715892.6	11.50	7.84	10.0	50.00	25.00	-38.50	-13.50	50.00	20.00	-38.50	-8.50	25,50
F-4A	1167608.3	715866.7	11.70	8.30	10.0	50.00	25.00	-38.30	-13.30	50.00	20.00	-38.30	-8.30	25,50
F-5	1167659.2	715817.0	11.50	8.33	10.0	50.00	25.00	-38.50	-13.50	52.00	20.00	-40.50	-8.50	25,50
F-6	1167703.6	715771.7	10.40	6.80	10.0	50.00	25.00	-39.60	-14.60	50.00	20.00	-39.60	-9.60	25,50
F-7	1167741.8	715706.9	10.50	7.28	10.0	50.00	25.00	-39.50	-14.50	50.00	20.00	-39.50	-9.50	25,50
F-8	1167798.5	715665.8	10.40	7.11	10.0	50.00	25.00	-39.60	-14.60	50.00	20.00	-39.60	-9.60	25,50
F-9	1167886.0	715606.8	11.40	7.83	10.0	50.00	25.00	-38.60	-13.60	50.00	20.00	-38.60	-8.60	25,50

TABLE 3.7

**EVENTS 1 AND 2 HYDRAULIC MONITORING LOCATIONS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

25-FT Zone		50-FT Zone		75-FT Zone
4-25R	64-25	3-50	64-50	4-83R
5-25	65-25	4-45R	65-50	74-75
6A-24.5	69-25	5-50	69-50	75-75
8-23	71-25	6A-50	71-50	PZ-SHI-1-75
9-25	78-25	8-54	74-50	PZ-SHI-2-75
11-25	709-MW20-25	9-50	75-50	PZ-SHI-3-75
12-25	721-MW5-25	11-45	78-50	WW-A1-75
14-25R	721-MW6-25	12-45	709-MW20-50	WW-A2-75
15-25R	721-MW9-25	14-50R	721-MW5-50	WW-A3-75
19-25	721-MW10-25	15-50R	721-MW6-50	WW-A4-75
21-25R	PZ-SHI-1-33	19-50R	721-MW9-50	WW-B1-2 ⁽¹⁾
25-25	PZ-SHI-2-25	21-48	721-MW10-50	WW-B1-75
25A-25	T1-25	25-50	PZ-SHI-3-42	WW-B2-75
34-25	WW-A3-25	25A-50	T1-50	WW-B3-75
35-25	WW-A4-25	32-50R	WW-A1-2 ⁽¹⁾	WW-B4-75R
36-25	WW-B3-2 ⁽¹⁾	34-50	WW-A2-2 ⁽¹⁾	WW-C1-2 ⁽¹⁾
40A-25	WW-B3-25	35-50	WW-A3-50	WW-C1-75
44-25	WW-B4-25	36-50	WW-A4-50	WW-C2-75
53-25	WW-C3-25	40A-50	WW-B2-2 ⁽¹⁾	WW-C3-75
55-25	WW-C4-2 ⁽¹⁾	41-50	WW-B3-50	WW-C4-75
		43-50	WW-B4-50	WW-D1-75
		44-50	WW-C2-2 ⁽¹⁾	
		45-50	WW-C3-50	
		53-50	WW-C4-50	
			WW-D1-2 ⁽¹⁾	
100-FT Zone		130-FT Zone		160-FT Zone
1-100R	74-100	15-120		1-175
2-100	75-100	41-138		3-175
3-100	76-100	65-130		4-175R
4-115R	77-100	74-130		7-181
5-100	PZ-SHI-1-100	75-130		11-183
6A-100	PZ-SHI-2-100	77-140		12-160
8-99R	PZ-SHI-3-100	PZ-SHI-1-126		64-170
9-100	T1-100	T5-120		WW-A1-160
11-100	WW-A1-100	T6-120		WW-A2-160
12-100	WW-A2-100	WW-A1-130		WW-A4-160
32-100	WW-A3-100	WW-A2-130		WW-B1-160
34-100	WW-A4-100	WW-A3-130		WW-B2-160
35-100	WW-B1-100	WW-A4-130		WW-B3-160
36-100R	WW-B2-100	WW-B1-130		WW-B4-160
40A-100	WW-B3-100	WW-B2-130		WW-C2-160
41-100	WW-B4-100	WW-B3-130		WW-C3-160
45-100	WW-C1-100	WW-B4-130		WW-C4-160
53-100	WW-C2-100	WW-C2-130		
64-100	WW-C3-100	WW-C3-130		
65-100	WW-C4-100	WW-C4-130		
	WW-D1-100	WW-D1-130		

Note:

- (1) Subtidal piezometers installed 2 feet below mudline are grouped within nearest depth zone.

TABLE 3.8

EVENT 3 HYDRAULIC MONITORING LOCATIONS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<u>15-ft Zone</u>			<u>25-ft Zone (cont'd)</u>			<u>50-ft Zone</u>			<u>50-ft Zone (cont'd)</u>		
<i>Well I.D.</i>	<i>Type of Well</i>	<i>Type of Transducer</i>	<i>Well I.D.</i>	<i>Type of Well</i>	<i>Type of Transducer</i>	<i>Well I.D.</i>	<i>Type of Well</i>	<i>Type of Transducer</i>	<i>Well I.D.</i>	<i>Type of Well</i>	<i>Type of Transducer</i>
49-15	Standard	Levellogger	46C-25	CMT	Geokon	5-50	Standard	Levellogger	95C-50	CMT	Geokon
50-15	Standard	Levellogger	53C-25	CMT	Geokon	6A-50	Standard	Levellogger	709-MW6-50	Standard	Levellogger
52-15	Standard	Levellogger	55-25	Standard	Levellogger	9-50	Standard	Levellogger	709-MW15A-50	Standard	Levellogger
95-15	Standard	Levellogger	61C-25	CMT	Geokon	11-45	Standard	Levellogger	709-MW16-50	Standard	Levellogger
709-MW5-15	Standard	Levellogger	65-25	Standard	Levellogger	12A-50	Standard	Levellogger	709-MW18-50	Standard	Levellogger
709-MW6-15	Standard	Levellogger	67-25	Standard	Levellogger	15-50R	Standard	Levellogger	709-MW20-50	Standard	Levellogger
709-MW9-15	Standard	Levellogger	69-25	Standard	Levellogger	17C-50	CMT	Micron	709-MW21-50	Standard	Levellogger
709-MW11-15	Standard	Levellogger	70-25	Standard	Levellogger	18-50R	Standard	Levellogger	721-MW5-50	Standard	Levellogger
709-MW16-15	Standard	Levellogger	71-25	Standard	Levellogger	21C-50	CMT	Geokon	721-MW6-50	Standard	Levellogger
709-MW18-15	Standard	Levellogger	77C-25	CMT	Geokon	22-50	Standard	Levellogger	721-MW9-50	Standard	Levellogger
709-MW20-15	Standard	Levellogger	78C-25	CMT	Geokon	32-50R	Standard	Levellogger	721-MW10-50	Standard	Levellogger
709-MW21-15	Standard	Levellogger	80-25	Standard	Levellogger	34-50R	Standard	Levellogger	721-MW11-50	Standard	Levellogger
721-MW5-15	Standard	Levellogger	83C-25	CMT	Geokon	36-50	Standard	Levellogger	721-MW12-50	Standard	Levellogger
721-MW6-15	Standard	Levellogger	84C-25	CMT	Geokon	40-50	Standard	Levellogger	721-MW13-50	Standard	Levellogger
721-MW9-15	Standard	Levellogger	85C-25	CMT	Geokon	41C-50	Standard	Geokon	721-MW14-50	Standard	Levellogger
721-MW10-15	Standard	Levellogger	86C-25	CMT	Geokon	42-50	Standard	Levellogger	721-MW15-50	Standard	Levellogger
721-MW11-15	Standard	Levellogger	87C-25	CMT	Geokon	43-50	Standard	Levellogger	T3-50	Standard	Levellogger
721-MW12-15	Standard	Levellogger	88C-25	CMT	Geokon	44-50	Standard	Levellogger	WW-A1-2	CMT	Geokon
721-MW13-15	Standard	Levellogger	89-25	Standard	Levellogger	45-50	Standard	Levellogger			
721-MW14-15	Standard	Levellogger	90C-25	CMT	Geokon	46C-50	CMT	Geokon			
721-MW15-15	Standard	Levellogger	91C-25	CMT	Geokon	53C-50	CMT	Geokon			
			92C-25	CMT	Geokon	55-50	Standard	Levellogger			
			93C-25	CMT	Geokon	61C-50	CMT	Geokon			
			94C-25	CMT	Geokon	65-50	Standard	Levellogger			
			95C-25	CMT	Geokon	67-50	Standard	Levellogger			
			709-MW6-25	Standard	Levellogger	71-50	Standard	Levellogger			
			709-MW9-25	Standard	Levellogger	74-50	Standard	Levellogger			
			709-MW11-25	Standard	Levellogger	75-50	Standard	Levellogger			
			709-MW16-25	Standard	Levellogger	77C-50	CMT	Geokon			
			709-MW18-25	Standard	Levellogger	78C-50	CMT	Geokon			
			709-MW20-25	Standard	Levellogger	81-50	Standard	Levellogger			
			709-MW21-25	Standard	Levellogger	83C-50	CMT	Geokon			
			721-MW5-25	Standard	Levellogger	84C-50	CMT	Geokon			
			721-MW6-25	Standard	Levellogger	85C-50	CMT	Geokon			
			721-MW9-25	Standard	Levellogger	86C-50	CMT	Geokon			
			721-MW10-25	Standard	Levellogger	87C-50	CMT	Geokon			
			721-MW11-25	Standard	Levellogger	88C-50	CMT	Geokon			
			721-MW12-25	Standard	Levellogger	89-50	Standard	Levellogger			
			721-MW13-25	Standard	Levellogger	90C-50	CMT	Micron			
			721-MW14-25	Standard	Levellogger	91C-50	CMT	Geokon			
			721-MW15-25	Standard	Levellogger	92C-50	CMT	Geokon			
						93C-50	CMT	Geokon			
						94C-50	CMT	Geokon			

<u>75-ft Zone</u>		
<i>Well I.D.</i>	<i>Type of Well</i>	<i>Type of Transducer</i>
5-75	Standard	Levellogger
11-75	Standard	Levellogger
12-75	Standard	Levellogger
17C-75	CMT	Micron
21C-75	CMT	Geokon
34-75	Standard	Levellogger
40-75	Standard	Levellogger
41C-75	Standard	Geokon
46C-75	CMT	Geokon
53C-75	CMT	Geokon
61C-75	CMT	Geokon
74-75	Standard	Levellogger
75-75	Standard	Levellogger
77C-75	CMT	Geokon
78C-75	CMT	Geokon
83C-75	CMT	Geokon
84C-75	CMT	Geokon
85C-75	CMT	Geokon
86C-75	CMT	Geokon
87C-75	CMT	Geokon
88C-75	CMT	Geokon
89-75	Standard	Levellogger

TABLE 3.8

EVENT 3 HYDRAULIC MONITORING LOCATIONS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<u>15-ft Zone</u>			<u>25-ft Zone (cont'd)</u>			<u>50-ft Zone</u>			<u>50-ft Zone (cont'd)</u>		
<i>Well I.D.</i>	<i>Type of Well</i>	<i>Type of Transducer</i>	<i>Well I.D.</i>	<i>Type of Well</i>	<i>Type of Transducer</i>	<i>Well I.D.</i>	<i>Type of Well</i>	<i>Type of Transducer</i>	<i>Well I.D.</i>	<i>Type of Well</i>	<i>Type of Transducer</i>
<u>75-ft Zone (cont'd)</u>			<u>100-ft Zone (cont'd)</u>			<u>130-ft Zone (cont'd)</u>			<u>Below 160-ft Zone</u>		
<i>Well I.D.</i>	<i>Type of Well</i>	<i>Type of Transducer</i>	<i>Well I.D.</i>	<i>Type of Well</i>	<i>Type of Transducer</i>	<i>Well I.D.</i>	<i>Type of Well</i>	<i>Type of Transducer</i>	<i>Well I.D.</i>	<i>Type of Well</i>	<i>Type of Transducer</i>
90C-75	CMT	Micron	77C-100	CMT	Geokon	90C-130	CMT	Geokon	46C-250	Below CMT	Geokon
91C-75	CMT	Geokon	78C-100	CMT	Geokon	91C-130	CMT	Geokon	89C-185	Below CMT	Geokon
92C-75	CMT	Geokon	82-100	Standard	Levellogger	92C-130	CMT	Geokon	93C-220	Below CMT	Geokon
93C-75	CMT	Geokon	83C-100	CMT	Micron	93C-130	CMT	Geokon	93C-286	Below CMT	Geokon
94C-75	CMT	Micron	84C-100	CMT	Geokon	94C-130	CMT	Geokon	95C-198	Below CMT	Geokon
95C-75	CMT	Geokon	85C-100	CMT	Geokon	95C-130	CMT	Geokon			
709-MW16-75	Standard	Levellogger	86C-100	CMT	Micron	T5-120	Standard	Levellogger			
709-MW20-75	Standard	Levellogger	87C-100	CMT	Micron	WW-A1-130	CMT	Geokon			
721-MW5-75	Standard	Levellogger	88C-100	CMT	Geokon	WW-B1-130	CMT	Geokon			
721-MW10-75	Standard	Levellogger	89C-100	CMT	Geokon						
721-MW11-75	Standard	Levellogger	90C-100	CMT	Geokon	<u>160-ft Zone</u>					
PZ-SHI-2-75	Standard	Levellogger	91C-100	CMT	Geokon	<i>Well I.D.</i>	<i>Type of Well</i>	<i>Type of Transducer</i>			
PZ-SHI-3-75	Standard	Levellogger	92C-100	CMT	Geokon	7-181	Standard	Levellogger			
WW-A1-75	CMT	Geokon	93C-100	CMT	Geokon	11-183	Standard	Levellogger			
WW-B1-2	CMT	Geokon	94C-100	CMT	Geokon	12-160	Standard	Levellogger			
WW-B1-75	CMT	Geokon	95C-100	CMT	Geokon	17C-160	CMT	Geokon			
WW-C1-2	CMT	Geokon	PZ-SHI-2-100	Standard	Levellogger	21C-160	CMT	Geokon			
WW-C1-75	CMT	Geokon	WW-A1-100	CMT	Geokon	34C-160	Standard	Geokon			
			WW-B1-100	CMT	Geokon	41C-160	Standard	Geokon			
			WW-C1-100M	CMT	Geokon	46C-160	CMT	Geokon			
			WW-C1-100S	CMT	Geokon	53C-160	CMT	Geokon			
<u>100-ft Zone</u>			<u>130-ft Zone</u>								
<i>Well I.D.</i>	<i>Type of Well</i>	<i>Type of Transducer</i>	<i>Well I.D.</i>	<i>Type of Well</i>	<i>Type of Transducer</i>						
5-100	Standard	Levellogger	17C-130	CMT	Geokon	77C-160	CMT	Geokon			
6A-100	Standard	Levellogger	21C-130	CMT	Geokon	78C-160	CMT	Geokon			
7-100	Standard	Levellogger	34C-130	CMT	Geokon	83C-160	CMT	Geokon			
9-100	Standard	Levellogger	41-130	Standard	Geokon	84C-160	CMT	Geokon			
11-100	Standard	Levellogger	46C-130	CMT	Geokon	85C-160	CMT	Geokon			
12-100	Standard	Levellogger	53C-130	CMT	Geokon	86C-160	CMT	Geokon			
17C-100	CMT	Micron	61C-130	CMT	Geokon	87C-160	CMT	Geokon			
21C-100	CMT	Geokon	65-130	Standard	Levellogger	88C-160	CMT	Geokon			
34C-100	Standard	Micron	75-130	Standard	Levellogger	89C-160	CMT	Geokon			
35-100R	Standard	Levellogger	77C-130	CMT	Geokon	90C-160	CMT	Geokon			
36-100R	Standard	Levellogger	78C-130	CMT	Geokon	91C-160	CMT	Geokon			
40-100R	Standard	Levellogger	83C-130	CMT	Geokon	92C-160	CMT	Geokon			
41C-100	Standard	Geokon	84C-130	CMT	Geokon	93C-160	CMT	Geokon			
45-100	Standard	Levellogger	85C-130	CMT	Geokon	94C-160	CMT	Geokon			
46C-100	CMT	Geokon	86C-130	CMT	Geokon	95C-160	CMT	Geokon			
53C-100	CMT	Micron	87C-130	CMT	Geokon	WW-A1-160	CMT	Geokon			
61C-100	CMT	Geokon	88C-130	CMT	Geokon	WW-B1-160	CMT	Geokon			
64-100	Standard	Levellogger	89C-130	CMT	Geokon						
65-100	Standard	Levellogger									
74-100	Standard	Levellogger									
75-100	Standard	Levellogger									

Malfunctioned

TABLE 3.9

**SUMMARY OF BASELINE AND CURRENT HORIZONTAL HYDRAULIC CONDUCTIVITY VALUES
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Location</i>	<i>USCS Soil Type</i>	<i>Dominant Hydrostratigraphic Integer</i>	<i>Baseline Hydraulic Conductivity (cm/sec)</i>	<i>Screened Interval Bottom (ft NGVD)</i>	<i>Screened Interval Top (ft NGVD)</i>	<i>Date Established</i>	<i>Current Hydraulic Conductivity (cm/sec)</i>	<i>Current Hydraulic Conductivity Test Date</i>	<i>Comments</i>
1-25	SP or SW	3	2.69E-03	-6.90	-11.90	1998	9.96E-03	7/9/2004	
1-45	NC	2	1.93E-05	-23.82	-33.82	2002	1.47E-05	12/1/2005	
1-100	ML	1	8.60E-05	-81.40	-86.40	1989	8.60E-05	1989	
1-100R	SP or SW	3	5.16E-04	-87.90	-92.90	11/15/2005	5.16E-04	11/15/2005	
1-175	SM	2	9.00E-04	-153.60	-163.60	1989	9.00E-04	1989	
2-14	SP or SW	3	3.30E-02	2.50	-1.50	1989	3.30E-02	1989	
2-25	SP or SW	3	1.16E-03	-6.90	-11.90	11/8/2005	1.16E-03	11/8/2005	
2-50	ML	1	1.62E-04	-32.10	-37.10	11/8/2005	1.62E-04	11/8/2005	
2-100	SM	2	2.92E-05	-82.00	-87.00	11/8/2005	2.92E-05	11/8/2005	
3-25	SP or SW	3	nr	-7.40	-12.40	nr	8.77E-04	Jan.-Mar. 2013	
3-50	SM	2	2.55E-05	-32.40	-37.40	12/1/2005	2.55E-05	12/1/2005	
3-100	SP or SW	3	1.00E-02	-82.50	-87.50	1989	1.05E-02	9/23/2005	
3-175	SM	2	3.20E-06	-157.20	-162.20	1989	5.98E-03	2005	
4-25	SM	2	7.60E-03	-8.40	-13.40	1989	7.60E-03	1989	
4-25R	SM	2	9.48E-03	-8.10	-13.10	1998	1.09E-02	9/21/2005	
4-45R	NC	--	5.87E-06	-28.10	-33.10	2002	1.08E-04	8/10/2005	
4-83R	NC	2	1.46E-04	-64.80	-69.80	11/15/2005	1.46E-04	11/15/2005	
4-115R	NC	2	4.91E-04	-98.60	-103.60	1998	2.90E-03	8/10/2005	
4-175R	GP or GW	2	4.56E-03	-156.60	-161.60	1998	4.15E-03	7/14/2005	
5-15	SM	2	4.30E-02	3.20	-1.80	1989	4.30E-02	1989	
5-25	SM	2	5.12E-05	-8.30	-13.30	11/7/2005	1.00E-04	Jan.-Mar. 2013	
5-50	SM	2	9.50E-04	-33.30	-38.30	11/7/2005	9.50E-04	11/7/2005	
5-75	SM	2	4.95E-04	-57.00	-62.00	Jan.-Mar. 2013	4.95E-04	Jan.-Mar. 2013	
5-100	SP or SW	3	1.15E-03	-83.30	-88.30	11/7/2005	5.47E-03	Jan.-Mar. 2013	
6A-24.5	SM	2	4.41E-04	-7.90	-12.90	11/17/2005	4.41E-04	11/17/2005	
6A-50	SP or SW	3	1.17E-03	-33.10	-38.10	11/17/2005	4.56E-04	Jan.-Mar. 2013	
6A-100	SP or SW	3	1.01E-04	-82.80	-87.80	11/17/2005	6.72E-04	Jan.-Mar. 2013	
7-25	SP or SW	3	1.00E-02	-7.00	-12.00	1989	1.00E-02	1989	
7-100	SP or SW	3	2.71E-03	-82.20	-87.20	11/17/2005	3.62E-05	Jan.-Mar. 2013	
7-181	ML	1	nr	-163.00	-168.00	nr	3.80E-04	Jan.-Mar. 2013	
8-23	SM	2	8.03E-05	-6.00	-11.00	11/7/2005	9.79E-05	Jan.-Mar. 2013	
8-54	SP or SW	3	1.28E-02	-37.00	-42.00	1998	1.14E-02	8/3/2005	
8-99R	SP or SW	3	2.12E-02	-80.50	-85.50	1998	1.84E-02	8/3/2005	

TABLE 3.9

**SUMMARY OF BASELINE AND CURRENT HORIZONTAL HYDRAULIC CONDUCTIVITY VALUES
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Location</i>	<i>USCS Soil Type</i>	<i>Dominant Hydrostratigraphic Integer</i>	<i>Baseline Hydraulic Conductivity (cm/sec)</i>	<i>Screened Interval Bottom (ft NGVD)</i>	<i>Screened Interval Top (ft NGVD)</i>	<i>Date Established</i>	<i>Current Hydraulic Conductivity (cm/sec)</i>	<i>Current Hydraulic Conductivity Test Date</i>	<i>Comments</i>
9-25	SM	2	1.00E-02	-8.40	-13.40	1989	1.92E-02	8/5/2005	
9-50	SP or SW	3	5.30E-03	-33.20	-38.20	1989	9.02E-03	8/5/2005	
9-100	SM	2	3.87E-04	-83.30	-88.30	11/17/2005	7.36E-04	Jan.-Mar. 2013	
10-24	SP or SW	3	8.90E-03	-9.10	-14.10	1989	9.32E-03	Jan.-Mar. 2013	
10-50	SM	2	3.40E-03	-34.90	-39.90	1989	3.40E-03	1989	non-responsive well Jan.-Mar. 2013
10-100	SM	2	1.70E-05	-84.70	-89.70	1989	1.70E-05	1989	non-responsive well Jan.-Mar. 2013
11-15	SP	3	1.10E-01	4.00	-1.00	1989	1.10E-01	1989	
11-25	SP or SW	3	1.31E-02	-7.68	-12.68	5/3/2006	1.31E-02	5/3/2006	
11-45	SM	2	1.37E-03	-22.62	-32.62	1998	1.79E-02	Jan.-Mar. 2013	
11-75	SP or SW	3	1.10E-02	-58.15	-63.15	Jan.-Mar. 2013	1.10E-02	Jan.-Mar. 2013	
11-100	SM	2	4.41E-03	-81.00	-86.00	1998	3.10E-03	8/10/2005	
11-183	NC	2	9.13E-04	-160.62	-170.62	11/30/2005	9.13E-04	11/30/2005	
12-25	NC	2	8.46E-03	-8.10	-13.10	11/21/2005	8.46E-03	11/21/2005	
12-45	SM	2	2.66E-03	-23.92	-33.92	1998	2.79E-03	7/15/2005	
12-75	SP or SW	3	3.50E-05	-56.23	-61.23	Jan.-Mar. 2013	3.50E-05	Jan.-Mar. 2013	
12-100	ML	1	2.52E-04	-85.78	-90.78	5/3/2006	2.52E-04	5/3/2006	
12-160	SM	2	6.13E-03	-139.02	-149.02	1998	6.85E-03	7/15/2005	
12A-25	SP or SW	3	1.14E-02	-5.80	-10.80	1998	8.12E-03	7/15/2005	
12A-50	SM	2	1.24E-03	-30.70	-35.70	2001	1.22E-03	7/15/2005	
13-25	SM	2	2.60E-04	-7.10	-12.10	1989	2.60E-04	1989	
13-49	SM	2	5.55E-08	-30.40	-35.40	12/1/2005	5.55E-08	12/1/2005	possibly non-representative
14-25R	SP or SW	3	2.98E-03	-8.20	-13.20	11/8/2005	1.24E-03	Jan.-Mar. 2013	
14-50R	SP or SW	3	4.48E-03	-35.10	-40.10	11/8/2005	1.23E-03	Jan.-Mar. 2013	
15-120	SP or SW	3	7.37E-04	-103.00	-108.00	1998	1.47E-03	Jan.-Mar. 2013	
15-25R	GP or GW	3	1.17E-01	-9.20	-14.20	11/8/2005	1.17E-01	11/8/2005	
15-50	ML	1	6.70E-07	-34.09	-39.09	1989	6.70E-07	1989	
15-50R	SP or SW	3	1.54E-03	-34.10	-39.10	11/9/2005	1.54E-03	11/9/2005	
16-25	SM	2	1.89E-03	-7.20	-12.20	1998	1.50E-03	7/20/2005	
16-50	SP or SW	3	4.57E-03	-33.10	-38.10	11/8/2005	4.57E-03	11/8/2005	
17-24	SM	2	3.72E-06	-8.20	-13.20	11/8/2005	3.72E-06	11/8/2005	
17-50	SP or SW	3	3.90E-04	-33.64	-38.64	1989	3.90E-04	1989	
17-50R	SP or SW	3	3.08E-04	-28.60	-33.60	11/8/2005	3.08E-04	11/8/2005	
18-25	SP or SW	3	1.60E-03	-6.50	-11.50	2002	1.18E-03	8/19/2005	

TABLE 3.9

SUMMARY OF BASELINE AND CURRENT HORIZONTAL HYDRAULIC CONDUCTIVITY VALUES
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Location	USCS Soil Type	Dominant Hydrostratigraphic Integer	Baseline Hydraulic Conductivity (cm/sec)	Screened Interval Bottom (ft NGVD)	Screened Interval Top (ft NGVD)	Date Established	Current Hydraulic Conductivity (cm/sec)	Current Hydraulic Conductivity Test Date	Comments
18-50	ML	1	1.60E-05	-31.57	-36.57	1989	1.60E-05	1989	
18-50R	SM	2	1.80E-04	-33.00	-38.00	1998	5.01E-04	Jan.-Mar. 2013	
19-25	SP or SW	3	1.26E-03	-8.60	-13.60	11/7/2005	1.26E-03	11/7/2005	
19-50	SM	2	1.80E-03	-33.82	-38.82	1989	1.80E-03	1989	
19-50R	SM	2	3.96E-04	-33.80	-38.80	1998	2.65E-04	7/18/2005	
20-25	SM	2	2.30E-03	-5.80	-10.80	1989	2.30E-03	1989	
20-50	SM	2	7.10E-05	-31.90	-36.90	1989	7.10E-05	1989	
21-25	SP or SW	3	7.00E-03	-6.97	-11.97	1989	7.00E-03	1989	
21-25R	SP or SW	3	1.55E-02	-7.00	-12.00	1998	1.51E-02	7/15/2005	
21-48	SM	2	5.29E-04	-29.60	-34.60	11/15/2005	5.29E-04	11/15/2005	
22-25R	SM	2	4.67E-08	-8.00	-13.00	2000	6.60E-07	2004	possibly non-representative
22-50	SM	2	1.52E-03	-32.90	-37.90	1998	5.26E-07	12/6/2005	possibly non-representative
22-70	SM	2	1.05E-04	-41.50	-46.50	11/7/2005	1.05E-04	11/7/2005	
23-25	SP or SW	3	1.50E-04	-7.27	-12.27	1989	1.50E-04	1989	
23-25R	SP or SW	3	7.61E-03	-7.30	-12.30	1998	7.63E-03	Jan.-Mar. 2013	
23-50	SM	2	1.09E-05	-32.40	-37.40	2002	1.35E-06	12/1/2005	possibly non-representative
24-15	SP or SW	3	nr	3.37	-1.63	nr	8.70E-02	Jan.-Mar. 2013	
24-35	SM	2	nr	-17.80	-22.80	nr	1.32E-03	Jan.-Mar. 2013	
24-50	SM	2	nr	-32.90	-37.90	nr	4.89E-03	Jan.-Mar. 2013	
25-25	SP or SW	3	8.50E-03	-8.70	-13.70	11/21/2005	8.50E-03	11/21/2005	
25-50	SP or SW	3	2.14E-03	-33.80	-38.80	2001	2.07E-03	7/18/2005	
25A-25	SP or SW	3	6.41E-04	-5.60	-10.60	11/21/2005	6.41E-04	11/21/2005	
25A-50	SM	2	1.37E-03	-30.70	-35.70	1998	1.14E-03	7/18/2005	
26-25	SP or SW	3	4.70E-03	-6.90	-11.90	1989	4.70E-03	1989	
26-50	SP or SW	3	1.50E-03	-31.90	-36.90	1989	1.50E-03	1989	
27-15	SM	2	2.90E-02	2.38	-2.62	1989	2.90E-02	1989	
27-25	SP or SW	3	3.90E-03	-7.40	-12.40	1989	3.90E-03	1989	
27-50	SP or SW	3	5.80E-03	-31.40	-36.40	1989	5.80E-03	1989	
27-100	SM	2	7.30E-04	-83.90	-88.90	1990	7.30E-04	1990	
28-15	SP or SW	3	5.60E-03	3.50	-1.50	1989	5.60E-03	1989	
31-25	SP or SW	3	4.90E-03	-6.00	-11.00	1989	4.90E-03	1989	
31-50B	SP or SW	3	2.90E-04	-30.90	-35.90	1989	2.90E-04	1989	
32-25	SP or SW	3	3.00E-03	-5.30	-10.30	1989	3.00E-03	1989	

TABLE 3.9

**SUMMARY OF BASELINE AND CURRENT HORIZONTAL HYDRAULIC CONDUCTIVITY VALUES
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Location</i>	<i>USCS Soil Type</i>	<i>Dominant Hydrostratigraphic Integer</i>	<i>Baseline Hydraulic Conductivity (cm/sec)</i>	<i>Screened Interval Bottom (ft NGVD)</i>	<i>Screened Interval Top (ft NGVD)</i>	<i>Date Established</i>	<i>Current Hydraulic Conductivity (cm/sec)</i>	<i>Current Hydraulic Conductivity Test Date</i>	<i>Comments</i>
32-50	SP or SW	3	3.70E-03	-30.80	-35.80	1989	3.70E-03	1989	
32-50R	SP or SW	3	2.35E-03	-32.80	-37.80	1998	2.17E-03	9/15/2005	
32-100	ML	1	5.40E-06	-82.70	-87.70	11/16/2005	5.40E-06	11/16/2005	
33-25	SM	2	6.50E-03	-5.70	-10.70	1989	6.50E-03	1989	
33-50B	SM	2	1.90E-03	-29.80	-34.80	1989	1.90E-03	1989	
33-100	SP or SW	3	4.00E-03	-81.20	-86.20	1993	4.00E-03	1993	
34-25	SP or SW	3	1.50E-02	-9.20	-14.20	1989	2.60E-02	9/15/2005	
34-25R	SP or SW	3	1.65E-02	-7.68	-12.68	Jan.-Mar. 2013	1.65E-02	Jan.-Mar. 2013	
34-50	SP or SW	3	2.41E-03	-33.20	-38.20	2001	3.16E-03	7/19/2005	
34-50R	SP or SW	3	5.24E-03	-31.92	-36.92	Jan.-Mar. 2013	5.24E-03	Jan.-Mar. 2013	
34-75R	SM	2	3.57E-04	-57.43	-62.43	Jan.-Mar. 2013	3.57E-04	Jan.-Mar. 2013	
34-100	ML	1	2.99E-05	-83.00	-88.00	1998	2.14E-05	9/15/2005	
35-25	SP or SW	3	4.47E-04	-8.10	-13.10	1998	9.76E-04	Jan.-Mar. 2013	
35-50	ML	1	5.28E-04	-27.90	-32.90	11/16/2005	5.28E-04	11/16/2005	
35-100	SP or SW	3	9.50E-05	-81.00	-86.00	1998	8.17E-05	9/15/2005	
35-100R	SP or SW	3	nr	-81.65	-86.65	nr	3.07E-04	Jan.-Mar. 2013	
36-25	SP or SW	3	2.22E-02	-9.90	-14.90	11/22/2005	2.22E-02	11/22/2005	
36-50	SP or SW	3	1.35E-02	-34.30	-39.30	11/21/2005	1.35E-02	11/21/2005	
36-100	SP or SW	3	1.30E-02	-84.30	-89.30	1990	1.30E-02	1990	
36-100R	SP or SW	3	1.99E-02	-84.30	-89.30	1998	1.57E-02	9/13/2005	
37-25	SM	2	6.30E-05	-9.90	-14.90	1990	6.30E-05	1990	
37-50	SP or SW	3	1.10E-02	-33.70	-38.70	1990	1.10E-02	1990	
37-100	SP or SW	3	8.10E-03	-83.90	-88.90	1990	8.10E-03	1990	
38-55	SP or SW	3	1.57E-02	-32.70	-42.70	5/4/2006	1.57E-02	5/4/2006	
39-55	SP or SW	3	5.70E-03	-33.80	-43.80	1990	5.70E-03	1990	
40-25	SM	2	1.13E-02	-6.10	-11.10	1998	4.36E-02	Jan.-Mar. 2013	
40-50	SM	2	6.36E-03	-31.60	-36.60	1998	2.37E-02	Jan.-Mar. 2013	
40-75	SP or SW	3	1.29E-03	-58.71	-63.71	Jan.-Mar. 2013	1.29E-03	Jan.-Mar. 2013	
40-100	SM	2	3.60E-03	-81.60	-86.60	1993	3.60E-03	1993	
40-100R	SM	2	5.69E-04	-80.18	-85.18	2001	4.94E-03	Jan.-Mar. 2013	
40A-25	SM	2	2.85E-03	-5.40	-10.40	11/9/2005	2.85E-03	11/9/2005	
40A-50	ML	1	7.96E-05	-30.30	-35.30	11/9/2005	7.96E-05	11/9/2005	
40A-100	SP or SW	3	2.34E-02	-83.90	-88.90	1998	2.58E-02	7/21/2005	

TABLE 3.9

SUMMARY OF BASELINE AND CURRENT HORIZONTAL HYDRAULIC CONDUCTIVITY VALUES
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Location	USCS Soil Type	Dominant Hydrostratigraphic Integer	Baseline Hydraulic Conductivity (cm/sec)	Screened Interval Bottom (ft NGVD)	Screened Interval Top (ft NGVD)	Date Established	Current Hydraulic Conductivity (cm/sec)	Current Hydraulic Conductivity Test Date	Comments
41-50	SM	2	8.96E-03	-32.50	-37.50	1998	7.19E-03	8/17/2005	
41-100	SM	2	1.64E-04	-83.30	-88.30	11/30/2005	1.64E-04	11/30/2005	
41-138	SM	2	1.07E-03	-111.18	-116.08	11/30/2005	1.07E-03	11/30/2005	
41C-130	SP or SW	3	1.34E-03	-94.21	-99.21	Jan.-Mar. 2013	1.34E-03	Jan.-Mar. 2013	
42-25	SM	2	2.70E-05	-6.60	-11.60	1998	4.82E-05	Jan.-Mar. 2013	
42-50	SM	2	2.29E-04	-31.60	-36.60	1998	9.96E-04	Jan.-Mar. 2013	
43-25	SP or SW	3	9.52E-03	-6.30	-11.30	1998	7.16E-03	7/15/2005	
43-50	SM	2	5.72E-04	-31.30	-36.30	1998	4.19E-04	7/15/2005	
44-25	SM	2	1.92E-04	-6.70	-11.70	11/16/2005	9.76E-05	Jan.-Mar. 2013	
44-50	SM	2	1.72E-05	-31.70	-36.70	11/16/2005	9.37E-05	Jan.-Mar. 2013	
45-100	SP or SW	3	2.49E-03	-83.40	-88.40	1998	2.93E-03	7/19/2005	
45-50	SM	2	1.28E-02	-32.70	-37.70	1998	3.58E-02	7/19/2005	non-responsive well Jan.-Mar. 2013
46-100	SP or SW	3	3.02E-02	-81.70	-86.70	1998	2.51E-02	7/20/2005	
46-50	SM	2	4.04E-03	-31.70	-36.70	11/7/2005	4.04E-03	11/7/2005	
49-15	SP or SW	3	nr	7.60	-2.40	nr	3.51E-02	Jan.-Mar. 2013	
50-15	SP or SW	3	nr	5.40	-4.60	nr	6.04E-02	Jan.-Mar. 2013	
52-15	SP or SW	3	nr	6.80	-3.20	nr	4.71E-02	Jan.-Mar. 2013	
53-25	SP or SW	3	5.63E-03	-7.60	-12.60	11/17/2005	5.63E-03	11/17/2005	
53-50	SP or SW	3	5.95E-04	-32.60	-37.60	11/17/2005	5.95E-04	11/17/2005	
53-100	SP or SW	3	1.53E-05	-82.10	-87.10	1998	1.83E-04	9/28/2005	
54-50	ML	1	5.44E-04	-31.60	-36.60	1998	5.44E-04	1998	
54-100	SP or SW	3	1.31E-03	-81.50	-86.50	1998	1.31E-03	1998	
55-25	SP or SW	3	7.64E-03	-6.29	-11.19	5/4/2006	7.64E-03	5/4/2006	
55-50	SP or SW	3	1.65E-02	-32.60	-37.60	2005	1.65E-02	7/18/2005	
55-100	SP or SW	3	2.87E-02	-81.70	-86.70	2005	2.87E-02	7/18/2005	
56-50	SP or SW	3	8.64E-03	-35.70	-40.70	1998	1.81E-02	9/13/2005	
57-50	SM	2	2.04E-05	-33.70	-38.70	11/21/2005	2.04E-05	11/21/2005	
59-25	SP or SW	3	9.97E-03	-7.14	-12.14	11/9/2005	9.97E-03	11/9/2005	
59-50	SP or SW	3	4.09E-03	-32.27	-37.27	2002	3.29E-03	9/1/2005	
60-25	SP or SW	3	5.88E-03	-7.55	-12.55	11/9/2005	5.88E-03	11/9/2005	
60-50	SP or SW	3	1.97E-03	-32.37	-37.37	2002	1.68E-03	9/16/2005	
64-25	SM	2	9.14E-03	-8.84	-13.84	2003	4.53E-03	12/1/2005	
64-50	SM	2	1.07E-02	-32.10	-37.10	2003	2.87E-03	9/21/2005	

TABLE 3.9

SUMMARY OF BASELINE AND CURRENT HORIZONTAL HYDRAULIC CONDUCTIVITY VALUES
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Location	USCS Soil Type	Dominant Hydrostratigraphic Integer	Baseline Hydraulic Conductivity (cm/sec)	Screened Interval Bottom (ft NGVD)	Screened Interval Top (ft NGVD)	Date Established	Current Hydraulic Conductivity (cm/sec)	Current Hydraulic Conductivity Test Date	Comments
64-100	NC	--	3.26E-02	-82.73	-87.73	2003	1.75E-02	9/21/2005	
64-170	SM	2	8.27E-03	-158.97	-163.97	2003	5.54E-04	9/21/2005	
65-25	SM	2	5.17E-04	-8.55	-13.55	11/8/2005	5.17E-04	11/8/2005	
65-50	SP or SW	3	1.18E-03	-33.54	-38.54	11/8/2005	1.18E-03	11/8/2005	
65-100	NC	--	1.06E-03	-83.44	-88.44	11/9/2005	1.27E-03	Jan.-Mar. 2013	
65-130	SM	2	3.35E-02	-113.23	-118.23	1/15/2008	3.35E-02	1/15/2008	
67-25	SM	2	1.29E-02	-8.49	-13.49	2004	5.91E-03	8/30/2005	
67-50	SM	2	7.68E-04	-34.06	-39.06	2004	5.64E-04	8/30/2005	
68-25	SM	2	3.35E-03	-8.65	-13.65	2004	2.52E-03	8/30/2005	
68-50	SM	2	1.53E-02	-33.67	-38.67	2004	1.04E-02	8/30/2005	
69-25	SP or SW	3	1.35E-02	-9.91	-14.91	2004	8.15E-03	9/21/2005	
69-50	SM	2	7.26E-04	-35.10	-40.10	11/9/2005	7.26E-04	11/9/2005	
70-25	SM	2	5.45E-03	-9.49	-14.49	2004	1.79E-03	8/31/2005	non-responsive well Jan.-Mar. 2013
70-50	SM	2	6.24E-03	-35.50	-40.50	2004	1.42E-03	8/31/2005	
71-25	SM	2	5.69E-03	-9.18	-14.18	11/10/2005	5.69E-03	11/10/2005	
71-50	SM	2	2.90E-02	-34.80	-39.80	11/10/2005	2.90E-02	11/10/2005	
72-25	SM	2	1.58E-02	-10.22	-15.22	2004	5.82E-03	8/31/2005	
72-50	SM	2	1.19E-02	-34.83	-39.83	2004	5.91E-03	8/31/2005	
73-25	SM	2	1.42E-02	-10.00	-15.00	2004	6.38E-03	8/31/2005	
73-50	SM	2	8.15E-04	-35.11	-40.11	11/10/2005	8.15E-04	11/10/2005	
74-50	SP or SW	3	4.19E-03	-33.26	-38.26	11/9/2005	5.24E-03	Jan.-Mar. 2013	
74-75	SP or SW	3	1.06E-03	-58.26	-63.26	11/9/2005	1.27E-03	Jan.-Mar. 2013	
74-100	SP or SW	3	4.12E-03	-83.26	-88.26	11/9/2005	4.12E-03	11/9/2005	non-responsive well Jan.-Mar. 2013
74-130	SM	2	1.43E-03	-113.22	-118.22	11/9/2005	1.43E-03	11/9/2005	
75-50	SM	2	2.56E-03	-32.86	-37.86	11/15/2005	2.34E-03	Jan.-Mar. 2013	
75-75	SM	2	2.62E-04	-57.77	-62.77	11/15/2005	3.76E-04	Jan.-Mar. 2013	
75-100	SP or SW	3	1.83E-03	-82.79	-87.79	11/15/2005	1.83E-03	11/15/2005	
75-130	ML	1	nr	-112.70	-117.70	nr	1.05E-04	Jan.-Mar. 2013	
76-100	ML	1	1.18E-04	-83.81	-88.81	5/4/2006	1.18E-04	5/4/2006	
77-100	SM	2	5.23E-04	-86.49	-91.49	5/4/2006	5.23E-04	5/4/2006	
77-140	SM	2	2.41E-03	-126.22	-131.22	5/4/2006	2.41E-03	5/4/2006	
78-25	SP or SW	3	1.08E-02	-9.71	-14.71	5/4/2006	1.08E-02	5/4/2006	
78-50	SP or SW	3	2.63E-03	-34.71	-39.71	5/4/2006	2.63E-03	5/4/2006	

TABLE 3.9

SUMMARY OF BASELINE AND CURRENT HORIZONTAL HYDRAULIC CONDUCTIVITY VALUES
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Location	USCS Soil Type	Dominant Hydrostratigraphic Integer	Baseline Hydraulic Conductivity (cm/sec)	Screened Interval Bottom (ft NGVD)	Screened Interval Top (ft NGVD)	Date Established	Current Hydraulic Conductivity (cm/sec)	Current Hydraulic Conductivity Test Date	Comments
81-50	SP or SW	3	nr	-33.40	-38.40	nr	5.26E-04	Jan.-Mar. 2013	
82-30	SP or SW	3	5.93E-03	-18.54	-23.54	7/26/2010	5.93E-03	7/26/2010	
82-100	SP or SW	3	2.28E-03	-79.90	-84.90	7/26/2010	2.28E-03	7/26/2010	
82-150	SP or SW	3	2.09E-03	-135.29	-140.29	7/26/2010	2.09E-03	7/26/2010	
82-230	SP or SW	3	5.36E-03	-217.28	-222.28	7/26/2010	5.36E-03	7/26/2010	
89C-25	SM	2	1.23E-02	-7.93	-12.93	Jan.-Mar. 2013	1.23E-02	Jan.-Mar. 2013	
89C-50	SM	2	2.83E-03	-32.27	-37.27	Jan.-Mar. 2013	2.83E-03	Jan.-Mar. 2013	
89C-75	SM	2	1.27E-03	-57.52	-62.52	Jan.-Mar. 2013	1.27E-03	Jan.-Mar. 2013	
95-15	SM	2	1.92E-03	6.50	-3.50	Jan.-Mar. 2013	1.92E-03	Jan.-Mar. 2013	
709-MW6-25	SP or SW	3	1.00E-02	-8.44	-13.44	Jan.-Mar. 2013	1.00E-02	Jan.-Mar. 2013	
709-MW6-50	SP or SW	3	5.24E-04	-32.51	-37.51	Jan.-Mar. 2013	5.24E-04	Jan.-Mar. 2013	
709-MW9-25	SM	2	5.72E-03	-7.64	-12.64	Jan.-Mar. 2013	5.72E-03	Jan.-Mar. 2013	
709-MW11-25	SM	2	1.42E-02	-8.78	-13.78	Jan.-Mar. 2013	1.42E-02	Jan.-Mar. 2013	
709-MW15-15	SP or SW	3	nr	6.53	-3.47	nr	1.82E-02	Jan.-Mar. 2013	
709-MW15A-50	SP or SW	3	9.89E-02	-34.56	-39.56	Jan.-Mar. 2013	9.89E-02	Jan.-Mar. 2013	
709-MW16-25	SP or SW	3	5.07E-03	-7.79	-12.79	Jan.-Mar. 2013	5.07E-03	Jan.-Mar. 2013	
709-MW16-50	SP or SW	3	1.96E-02	-32.92	-37.92	Jan.-Mar. 2013	1.96E-02	Jan.-Mar. 2013	
709-MW16-75	SP or SW	3	5.28E-03	-57.94	-62.94	Jan.-Mar. 2013	5.28E-03	Jan.-Mar. 2013	
709-MW18-25	SP or SW	3	1.44E-02	-7.80	-12.80	Jan.-Mar. 2013	1.44E-02	Jan.-Mar. 2013	
709-MW18-50	SP or SW	3	7.20E-02	-32.65	-37.65	Jan.-Mar. 2013	7.20E-02	Jan.-Mar. 2013	
709-MW20-25	SP or SW	3	3.15E-02	-6.47	-11.47	2004	2.00E-02	9/28/2005	
709-MW20-50	SM	2	6.96E-05	-31.79	-36.79	11/21/2005	1.63E-04	Jan.-Mar. 2013	
709-MW20-75	SP or SW	3	1.53E-02	-59.06	-64.06	Jan.-Mar. 2013	1.53E-02	Jan.-Mar. 2013	
709-MW21-15	SM	2	2.95E-03	6.55	-3.45	Jan.-Mar. 2013	2.95E-03	Jan.-Mar. 2013	
709-MW21-25	SP or SW	3	8.96E-03	-7.52	-12.52	Jan.-Mar. 2013	8.96E-03	Jan.-Mar. 2013	
709-MW21-50	SP or SW	3	1.90E-02	-32.54	-37.54	Jan.-Mar. 2013	1.90E-02	Jan.-Mar. 2013	
721-MW5-25	ML	1	3.54E-03	-8.53	-13.53	11/21/2005	3.54E-03	11/21/2005	
721-MW5-50	SP or SW	3	2.88E-02	-32.61	-37.61	2004	3.75E-02	9/29/2005	
721-MW5-75	SP or SW	3	8.90E-03	-57.69	-62.69	Jan.-Mar. 2013	8.90E-03	Jan.-Mar. 2013	
721-MW6-25	SM	2	1.26E-02	-8.73	-13.73	2004	3.41E-03	11/29/2005	
721-MW6-50	SM	2	3.88E-02	-33.82	-38.82	2004	3.00E-02	11/29/2005	
721-MW9-25	SP or SW	3	2.70E-03	-8.60	-13.60	11/21/2005	2.70E-03	11/21/2005	
721-MW9-50	SP or SW	3	1.61E-03	-33.90	-38.90	11/21/2005	1.61E-03	11/21/2005	

TABLE 3.9

SUMMARY OF BASELINE AND CURRENT HORIZONTAL HYDRAULIC CONDUCTIVITY VALUES
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Location	USCS Soil Type	Dominant Hydrostratigraphic Integer	Baseline Hydraulic Conductivity (cm/sec)	Screened Interval Bottom (ft NGVD)	Screened Interval Top (ft NGVD)	Date Established	Current Hydraulic Conductivity (cm/sec)	Current Hydraulic Conductivity Test Date	Comments
721-MW10-25	SM	2	1.61E-02	-9.30	-14.30	2004	1.09E-02	9/29/2005	
721-MW10-50	SP or SW	3	3.10E-02	-34.34	-39.34	2004	3.77E-02	9/29/2005	
721-MW10-75	CL-ML	0	1.56E-04	-57.52	-62.52	Jan.-Mar. 2013	1.56E-04	Jan.-Mar. 2013	
721-MW11-15	SM	2	3.29E-03	6.48	-3.52	Jan.-Mar. 2013	3.29E-03	Jan.-Mar. 2013	
721-MW11-25	SM	2	9.71E-03	-7.53	-12.53	Jan.-Mar. 2013	9.71E-03	Jan.-Mar. 2013	
721-MW11-50	SM	2	2.15E-02	-32.54	-37.54	Jan.-Mar. 2013	2.15E-02	Jan.-Mar. 2013	
721-MW11-75	SP or SW	3	7.04E-03	-57.54	-62.54	Jan.-Mar. 2013	7.04E-03	Jan.-Mar. 2013	
721-MW12-15	SP or SW	3	5.14E-03	6.47	-3.53	Jan.-Mar. 2013	5.14E-03	Jan.-Mar. 2013	
721-MW12-25	SP or SW	3	1.03E-02	-7.58	-12.58	Jan.-Mar. 2013	1.03E-02	Jan.-Mar. 2013	
721-MW12-50	SP or SW	3	7.27E-02	-37.48	-54.52	Jan.-Mar. 2013	7.27E-02	Jan.-Mar. 2013	
721-MW13-15	SP or SW	3	1.03E-02	6.46	-3.54	Jan.-Mar. 2013	1.03E-02	Jan.-Mar. 2013	
721-MW13-25	SP or SW	3	9.80E-03	-7.61	-12.61	Jan.-Mar. 2013	9.80E-03	Jan.-Mar. 2013	
721-MW13-50	SP or SW	3	1.69E-02	-32.66	-37.66	Jan.-Mar. 2013	1.69E-02	Jan.-Mar. 2013	
721-MW14-15	SP or SW	3	7.72E-03	6.64	-3.36	Jan.-Mar. 2013	7.72E-03	Jan.-Mar. 2013	
721-MW14-25	SP or SW	3	5.99E-03	-7.37	-12.37	Jan.-Mar. 2013	5.99E-03	Jan.-Mar. 2013	
721-MW14-50	SP or SW	3	6.75E-02	-32.40	-37.40	Jan.-Mar. 2013	6.75E-02	Jan.-Mar. 2013	
721-MW15-15	SP or SW	3	4.20E-03	6.30	-3.70	Jan.-Mar. 2013	4.20E-03	Jan.-Mar. 2013	
721-MW15-25	SP or SW	3	1.40E-02	-7.67	-12.67	Jan.-Mar. 2013	1.40E-02	Jan.-Mar. 2013	
721-MW15-50	SP or SW	3	7.74E-02	-32.60	-37.60	Jan.-Mar. 2013	7.74E-02	Jan.-Mar. 2013	
PS1-002	SM	--	1.35E-03	1.60	-28.40	3/15/2007	1.35E-03	3/15/2007	30 ft screen, no dominant stratigraphy
PS1-004	SP or SW	--	1.57E-03	1.60	-28.40	3/15/2007	1.57E-03	3/15/2007	30 ft screen, no dominant stratigraphy
PS2-001	SP or SW	3	1.14E-03	-9.86	-14.86	3/15/2007	1.14E-03	3/15/2007	
PS2-002	SP or SW	3	6.55E-03	-9.81	-14.81	3/15/2007	6.55E-03	3/15/2007	
PS2-003	SP or SW	3	1.08E-02	-9.75	-14.75	3/15/2007	1.08E-02	3/15/2007	
PS2-005	SP or SW	3	9.37E-03	-10.07	-15.07	3/15/2007	9.37E-03	3/15/2007	
PS2-006	SM	2	1.08E-02	-10.10	-15.10	3/15/2007	1.08E-02	3/15/2007	
PS4-001	SP or SW	3	2.25E-03	-38.40	-41.40	2/21/2008	2.25E-03	2/21/2008	
PS4-002	SP or SW	3	3.79E-03	-38.90	-41.90	2/21/2008	3.79E-03	2/21/2008	
PS4-003	SM	2	2.95E-03	-38.90	-41.90	2/21/2008	2.95E-03	2/21/2008	
PS4-004	SM	2	6.31E-04	-38.40	-41.40	2/21/2008	6.31E-04	2/21/2008	
PS4-005	SP or SW	3	9.40E-04	-38.90	-41.90	2/21/2008	9.40E-04	2/21/2008	
PS5-002R	SM	2	7.52E-04	-8.40	-13.40	12/16/2008	7.52E-04	12/16/2008	
PS5-003	SM	2	3.30E-04	-33.40	-38.40	12/16/2008	3.30E-04	12/16/2008	

TABLE 3.9

SUMMARY OF BASELINE AND CURRENT HORIZONTAL HYDRAULIC CONDUCTIVITY VALUES
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Location	USCS Soil Type	Dominant Hydrostratigraphic Integer	Baseline Hydraulic Conductivity (cm/sec)	Screened Interval Bottom (ft NGVD)	Screened Interval Top (ft NGVD)	Date Established	Current Hydraulic Conductivity (cm/sec)	Current Hydraulic Conductivity Test Date	Comments
PZ-SHI-001-033	SP or SW	3	1.24E-02	-20.39	-21.39	11/10/2005	1.24E-02	11/10/2005	
PZ-SHI-001-075	SP or SW	3	9.51E-03	-59.12	-64.12	12/6/2005	9.51E-03	12/6/2005	
PZ-SHI-001-100	SP or SW	3	3.02E-03	-84.11	-89.11	11/10/2005	3.02E-03	11/10/2005	
PZ-SHI-001-126	NC	2	*	-112.14	-117.14	*	nt	nt	
PZ-SHI-002-025	SP or SW	3	8.38E-04	-12.32	-13.32	11/18/2005	8.38E-04	11/18/2005	
PZ-SHI-002-075	SP or SW	3	1.67E-02	-58.68	-63.68	11/18/2005	1.67E-02	11/18/2005	
PZ-SHI-002-100	SM	2	6.83E-04	-83.64	-88.64	1/22/2008	1.55E-03	Jan.-Mar. 2013	
PZ-SHI-003-042	SM	2	*	-28.28	-29.28	*	(1)	(1)	
PZ-SHI-003-075	SP or SW	3	1.98E-03	-57.78	-62.78	11/18/2005	1.98E-03	11/18/2005	
PZ-SHI-003-100	SP or SW	3	3.36E-03	-83.32	-88.32	11/18/2005	3.36E-03	11/18/2005	
T1-25	NC	2	8.34E-03	-7.78	-12.78	11/15/2005	8.34E-03	11/15/2005	
T1-50	NC	2	3.72E-04	-32.85	-37.85	1998	3.15E-04	7/21/2005	
T1-100	ML	1	2.26E-05	-82.93	-87.93	11/15/2005	2.26E-05	11/15/2005	
T2-25	SM	2	2.08E-05	-7.40	-12.80	1996	2.08E-05	1996	
T2-50	SM	2	7.85E-03	-32.50	-37.50	1996	7.85E-03	1996	
T3-25	SM	2	6.41E-03	-7.85	-12.85	1996	6.41E-03	1996	
T3-50	SM	2	3.38E-04	-32.83	-37.83	1996	8.15E-04	Jan.-Mar. 2013	
T4-25	SM	2	6.66E-03	-7.28	-12.28	1996	6.66E-03	1996	
T4-50	SM	2	3.72E-05	-32.29	-37.29	1996	3.72E-05	1996	
T5-25	SP or SW	3	7.45E-04	-7.10	-12.10	12/5/2005	7.45E-04	12/5/2005	
T5-60	SM	2	2.37E-03	-42.20	-47.20	1998	2.31E-03	9/16/2005	
T5-120	SM	2	7.21E-05	-101.80	-106.80	1998	7.75E-04	Jan.-Mar. 2013	
T6-25	SM	2	6.46E-05	-7.50	-12.50	1998	5.34E-05	9/27/2005	
T6-60	SM	2	2.87E-03	-42.40	-47.40	1998	1.80E-03	9/27/2005	
T6-120	ML	1	1.73E-05	-102.50	-107.50	2002	1.13E-05	9/27/2005	

Notes:

USCS	Unified Soil Classification System.	GM	Silty Gravel.
cm/sec	Centimeters per second.	nr	No record of baseline hydraulic conductivity available.
CL-ML	Clayey Silt.	nt	Not tested.
ML	Sandy Silt.	*	New monitoring well, no baseline value established.
SM	Silty Sand.	NC	No Soil Classification on Log.
SP or SW	Sand.	(1)	Slug test data not considered to be reliable.
GP or GW	Gravel.		

TABLE 3.10

**SUMMARY OF VERTICAL HYDRAULIC CONDUCTIVITY VALUES
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Location	USCS Soil Type	9-Integer Soil Code	Elevation (ft NGVD)	Laboratory Testing				Field Testing
				Moisture Content (%)	Porosity (n)	Vertical Hydraulic Conductivity (cm/sec)	Rigid Vertical Hydraulic Conductivity (cm/sec)	Vertical Hydraulic Conductivity (cm/sec)
12	ML	1	-90.8	30	0.43	3.00E-05	--	--
41C	SP/GP	7	-153.4	18.2	--	4.20E-04	--	--
55	SP or SW	3	-12.7	24	0.38	4.00E-04	--	--
65	ML	1	-85.80	--	--	--	--	3.20E-04
	SM	2	-118.20	26	--	--	--	--
74	SM	2	-60.80	--	--	--	--	1.56E-04
	SM	2	-85.80	--	--	--	--	8.67E-03
	SM	2	-115.80	--	--	--	--	1.43E-03
75	SM	2	-35.80	25	0.45	--	--	4.99E-04
	ML	1	-60.80	29	0.42	--	--	5.01E-03
	SP or SW	3	-85.80	--	--	--	--	4.32E-03
77	SM	2	-91.50	31	0.43	9.00E-06	--	1.11E-04
	SM	2	-131.20	30	0.45	7.00E-04	--	--
77C	SM	2	-192.7	23.7	--	5.80E-06	--	--
78	SM	2	-14.70	30	0.44	--	8.00E-03	--
	SP or SW	3	-39.70	34	0.47	--	4.00E-06	--
84C	SP/GP (glacial)	Not Logged	-177.6	15.1	--	1.70E-06	--	--
89C	CL-ML	0	-180.3	31.5	0.49	5.50E-08	--	--
91C	GM (glacial)	Not Logged	-145.9	29.7	--	6.90E-08	--	--
95C	CL	0	-213.9	39.7	--	2.70E-08	--	--

TABLE 3.10

**SUMMARY OF VERTICAL HYDRAULIC CONDUCTIVITY VALUES
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Location	USCS Soil Type	9-Integer Soil Code	Elevation (ft NGVD)	Laboratory Testing				Field Testing
				Moisture Content (%)	Porosity (n)	Vertical Hydraulic Conductivity (cm/sec)	Rigid Vertical Hydraulic Conductivity (cm/sec)	Vertical Hydraulic Conductivity (cm/sec)
PZ-SHI-1	SM	2	-62.12	34	0.5	--	--	--
	SP or SW	3	-63.12	18	0.42	--	--	--
	SP or SW	3	-63.87	31	0.45	--	--	8.29E-04
	SP or SW	3	-86.86	25	0.46	--	--	5.45E-04
	ML	1	-118.4	29	0.39	1.00E-06	--	--
PZ-SHI-2	SP or SW	3	-13.60	27	0.39	8.00E-05	--	3.26E-04
	SP or SW	3	-63.70	24	0.43	--	--	3.20E-03
	SP or SW	3	-88.60	30	0.43	4.00E-06	--	5.54E-04
PZ-SHI-3	SM	2	-29.80	39	0.52	5.00E-07	--	9.36E-04
	SP or SW	3	-62.80	25	0.4	1.00E-03	--	7.51E-04
	SP or SW	3	-87.80	32	0.52	--	--	3.44E-04
WMUR-06/94C	SM/GM (glacial)	6	-161.2	11.6	--	6.90E-07	--	--
WW-A1	SP or SW	3	-44.12	--	--	--	--	3.11E-02
	SP or SW	3	-63.32	9	0.4	1.00E-03	--	5.77E-03
	SP or SW	3	-88.32	--	--	--	--	6.40E-02
	ML	1	-118.32	22.5	0.4	3.00E-04	--	--
WW-A2	SP or SW	3	-45.92	21	0.46	4.00E-04	--	--
	SM	2	-63.32	27	0.42	1.00E-05	--	1.79E-02
WW-A3	SP or SW	3	-17.75	22	--	--	--	5.51E-03
	GM	5	-41.75	15	0.35	--	--	--
	SM	6	-66.75	15	--	--	--	7.83E-04
	SP or SW	7	-91.75	12	--	--	--	--
	GM	5	-120.75	8	--	--	--	--

TABLE 3.10

SUMMARY OF VERTICAL HYDRAULIC CONDUCTIVITY VALUES
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Location	USCS Soil Type	9-Integer Soil Code	Elevation (ft NGVD)	Laboratory Testing				Field Testing
				Moisture Content (%)	Porosity (n)	Vertical Hydraulic Conductivity (cm/sec)	Rigid Vertical Hydraulic Conductivity (cm/sec)	Vertical Hydraulic Conductivity (cm/sec)
WW-A4	GM	5	-13.74	14	--	--	--	--
	SM	5	-61.74	12	--	--	--	--
	GM	5	-86.74	8	--	--	--	4.17E-04
	GM	5	-116.70	25	0.42	2.00E-07	--	--
	GM	5	-146.74	8	0.13	--	--	--
WW-B1	SP or SW	3	-50.82	31	0.48	4.00E-04	--	3.11E-02
	0	3	-64.32	--	--	--	--	3.55E-02
	NC	3	-88.32	30	0.44	4.00E-04	--	3.64E-02
	SP or SW	3	-146.93	23	--	--	--	--
WW-B2	SP or SW	3	-43.80	29	0.4	4.00E-04	--	3.09E-02
	SM	2	-62.82	27	0.48	--	1.00E-02	--
	ML	8	-118.82	25	0.39	4.00E-07	--	--
WW-B3	SM	2	-6.52	30	0.47	--	1.00E-05	--
	SP or SW	3	-8.52	13	0.4	4.00E-04	--	--
	SM	2	-16.52	25	0.38	4.00E-07	--	--
	SM	2	-39.52	41	0.5	8.00E-05	--	--
WW-B4	SM	2	-14.32	22	0.39	--	5.00E-04	--
	ML	8	-62.68	--	--	--	--	3.32E-02
WW-C1	ML	1	-50.42	29	0.44	6.00E-05	--	--
	SP or SW	3	-63.02	39	0.51	4.00E-04	--	--
WW-C2	SM	2	-43.92	--	--	--	--	2.11E-02
	SM	2	-63.32	25	0.42	1.00E-05	--	1.14E-01
	SM	2	-63.32	21	0.43	--	9.00E-05	--
	SP or SW	3	-88.32	28	0.66	--	1.00E-03	--
	SM	2	-118.32	34	0.48	1.00E-04	--	--

TABLE 3.10

SUMMARY OF VERTICAL HYDRAULIC CONDUCTIVITY VALUES
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Location	USCS Soil Type	9-Integer Soil Code	Elevation (ft NGVD)	Laboratory Testing				Field Testing
				Moisture Content (%)	Porosity (n)	Vertical Hydraulic Conductivity (cm/sec)	Rigid Vertical Hydraulic Conductivity (cm/sec)	Vertical Hydraulic Conductivity (cm/sec)
WW-C3	SM	2	-14.60	19	--	--	--	--
	GM	5	-39.59	10	--	--	--	--
	SM	6	-64.59	10	--	--	--	--
	GM	6	-89.59	10	--	--	--	--
	GM	5	-119.59	12	--	--	--	--
	SP or SW	7	-147.59	26	0.41	5.00E-05	--	--
WW-C4	NC	3	-63.32	--	--	--	--	2.44E-02
	ML	1	-88.32	34	0.45	9.00E-08	--	--
WW-D1	SP or SW	3	-63.32	17	0.47	--	2.00E-03	7.33E-01

Notes:

Stratigraphic Soil Code Soil Description

USCS	Unified Soil Classification System.	0	Clayey Silt (CL-ML)
ft BGS	Feet below ground surface.	1	Sandy Silt (ML)
ft BML	Feet below mudline.	2	Silty Sand (SM)
ft NGVD	Feet National Geodetic Vertical Datum.	3	Sand (SP or SW)
cm/sec	Centimeters per second.	4	Gravel (GP or GW)
CL-ML	Clayey Silt.	5	Low Permeability Glacial-Derived Material "Low_K_Glacial"
ML	Sandy Silt.		[same as the Silty Gravel (GM) in the original approach]
SM	Silty Sand.	6	Medium Permeability Glacial-Derived Material "Med_K_Glacial" (SP/SM or GP/GW describe high density, some silt, and/or low moisture content, and corresponding to an elevation horizon where glacial-derived material was observed in adjacent borehol
SP or SW	Sand.		
GP or GW	Gravel.		
GM	Silty Gravel.	7	High Permeability Glacial-Derived Material "High_K_Glacial" (SP/GP described as loose, abs and/or high moisture content, and corresponding to an elevation horizon where glacial-derived material was observed in adjacent boreholes)
NC	No Soil Classification on Log.	8	ML corresponding to an elevation horizon where glacial-derived material was observed in adjacent boreholes "ML_in_Glacial"

TABLE 3.11

**STATISTICAL SUMMARY OF SPECIFIC DISCHARGE TO HYLEBOS WATERWAY
SEEPAGE METER MONITORING PROGRAM
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Location ID</i>	<i>Seepage Meter Type</i>	<i>Specific Discharge (cm/d)</i>			
		<i>Mean</i> ⁽¹⁾	<i>Minimum</i> ⁽²⁾	<i>Maximum</i> ⁽³⁾	<i>SD</i>
SM-1	US	3.0	-0.3	5.2	0.8
SM-2	US	2.9	-0.6	5.2	1.3
SM-3	US	3.3	-0.3	6.8	1.4
SM-4	US	-1.2	-3.0	1.1	0.9
SM-5	US	0.9	-3.5	10.6	3.4
SM-5R	US	0.6	-4.1	11.3	3.3
SM-6	US	2.0	-1.8	5.7	1.4
SM-6R	US	3.7	-0.2	9.0	1.2
SM-7	US	0.1	-2.0	2.7	1.0
SM-8	US	-3.0	-4.2	-1.6	0.6
SM-8R	US	0.8	-3.3	3.1	1.6
SM-9	US	1.4	-4.4	4.4	1.7
SM-10	SFO	-1.8	-6.1	3.0	1.9
SM-11	US	14.0	1.7	26.6	4.6
SM-12	SFO	0.4	-0.5	3.1	0.6
SM-13N	BS	0.9	-6.4	14.2	4.3
SM-13NW	BS	0.7	-1.1	3.3	1.1
SM-14	US	2.4	-2.8	7.7	2.7
SM-15	US	1.6	-1.3	5.0	1.2
SM-16	US	-0.8	-5.2	2.0	1.4
SM-17	SFO	-0.1	-2.6	2.7	1.3
SM-18	US	1.0	-1.5	3.9	1.4
SM-19	US	0.4	-2.4	3.9	1.4
SM-20	US	2.0	-1.3	6.9	1.8
SM-21	US	-0.4	-2.7	2.8	1.3
SM-22	SFO	-0.3	-2.4	2.6	1.2
SM-23	US	3.2	1.2	6.1	1.1
SM-23R	US	3.3	1.4	7.2	1.4
SM-24	SFO	-0.2	-2.5	4.4	1.8
SM-25	US	8.8	1.2	15.5	3.4
SM-26	US	17.9	0.2	28.9	7.4

Notes:

US UltraSeep.

BS UltraSeep Buoy System.

SFO Ultrasonic Submerged Flow-Only System.

SD Standard Deviation.

cm/d Centimeters per day.

(1) Arithmetic mean of specific discharge measurements at location during the 24-hour deployment cycle.

(2) Minimum specific discharge measured at location during the 24-hour deployment cycle.

(3) Maximum specific discharge measured at location during the 24-hour deployment period.

TABLE 4.1

UPLAND GROUNDWATER CONSTITUENTS OF CONCERN⁽³⁾
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Volatiles

1,1,2,2-Tetrachloroethane⁽¹⁾
 1,1,2-Trichloroethane⁽¹⁾
 1,1-Dichloroethene⁽¹⁾
 Benzene^(1,2)
 Carbon Tetrachloride⁽¹⁾
 Chloroform (Trichloromethane)⁽¹⁾
 Methylene chloride⁽¹⁾
 Tetrachloroethene⁽¹⁾
 cis-1,2-Dichloroethene⁽¹⁾
 trans-1,2-Dichloroethene⁽¹⁾
 Trichloroethene⁽¹⁾
 Vinyl Chloride⁽¹⁾

Semi-Volatiles

Hexachlorobutadiene
 Hexachlorobenzene
 Pentachlorophenol

Pesticides/PCBs

4,4'-DDD
 4,4'-DDE
 4,4'-DDT
 Total PCBs

Metals

Arsenic
 Chromium, total
 Copper
 Lead
 Mercury
 Nickel
 Thallium
 Zinc

General Chemistry

pH⁽¹⁾

Notes:

- (1) From Table 3.1 of the Statement of Work (January 2005).
 (2) 709/721 Alexander portion of Site only.
 (3) From Table 2.1 of the Draft Feasibility Study (May 2015).
 PCB Polychlorinated Biphenyl.

TABLE 4.2

EMBANKMENT AREA/ SUBTIDAL GROUNDWATER CONSTITUENTS OF CONCERN⁽¹⁾
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Volatiles

1,1,1,2-Tetrachloroethane
 1,1,2-Trichloroethane
 1,1-Dichloroethene
 Benzene ⁽²⁾
 Carbon tetrachloride
 Chloroform (Trichloromethane)
 Methylene chloride
 Tetrachloroethene
 cis-1,2-Dichloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

Semi-Volatiles

Hexachlorobutadiene
 Hexachlorobenzene
 Pentachlorophenol

PCB

Total PCBs

Metals

Arsenic
 Chromium, total
 Copper
 Lead
 Mercury
 Nickel
 Thallium
 Zinc

General Chemistry

pH

Notes:

- (1) From Table 3.2 of the Statement of Work (January 2005).
 (2) 709/721 Alexander portion of Site only.
 PCB Polychlorinated Biphenyl.

TABLE 4.3

SURFACE WATER CONSTITUENTS OF CONCERN⁽¹⁾
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Volatiles

1,1,2,2-Tetrachloroethane
 1,1,2-Trichloroethane
 1,1-Dichloroethene
 Benzene⁽²⁾
 Carbon tetrachloride
 Chloroform (Trichloromethane)
 Methylene chloride
 Tetrachloroethene
 cis-1,2-Dichloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl chloride

Semi-Volatiles

Hexachlorobenzene
 Pentachlorophenol

PCB

Total PCBs

Metals

Arsenic
 Chromium, total
 Copper
 Lead
 Mercury
 Nickel
 Thallium
 Zinc

General Chemistry

pH

Notes:

- (1) From Table 3.3 of the Statement of Work (January 2005).
 (2) 709/721 Alexander portion of Site only.
 PCB Polychlorinated Biphenyl.

TABLE 4.4

SEDIMENT/POREWATER CONSTITUENTS OF CONCERN^(1,4)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Volatiles

1,1,2,2-Tetrachloroethane
 1,1,2-Trichloroethane
 1,1-Dichloroethene
 Benzene⁽²⁾
 Carbon Tetrachloride
 Chloroform (Trichloromethane)
 Ethylbenzene
 Methylene chloride
 Tetrachloroethene
 cis-1,2-Dichloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl Chloride

Semi-Volatiles

1,2,4-Trichlorobenzene
 bis(2-Ethylhexyl) phthalate
 Hexachlorobutadiene
 Hexachlorobenzene
 Pentachlorophenol

Pesticides, PCB(s)

4,4'-DDD
 4,4'-DDE
 4,4'-DDT
 Aroclor 1248
 Aroclor 1254
 Aroclor 1260
 Total PCBs
 Dioxin-Furan (2,3,7,8 tcdd)

Metals

Antimony
 Arsenic
 Cadmium
 Chromium, total⁽³⁾
 Copper
 Lead
 Mercury
 Nickel
 Silver
 Thallium⁽³⁾
 Zinc

General Chemistry

pH

Notes:

- (1) From Table 3.4 of the Statement of Work (January 2005).
 (2) 709/721 Alexander portion of Site only.
 (3) Porewater COC only.
 (4) From Table 2.1 of the Draft Feasibility Study (May 2015), except Aroclors.
 PCB Polychlorinated Biphenyl.

TABLE 4.5

SUMMARY OF SITE CLEANUP LEVELS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Site Constituents of Concern		Applicable Surface Water Criteria ⁽¹⁾					Laboratory Practical Quantitation Limits ⁽²⁾	Cleanup Levels			
		Marine Aquatic Life Criteria		Human Health Criteria		Most Stringent Surface Water Criteria		MTCA Cleanup Level		Sediment Cleanup Level ⁽⁵⁾	
		Washington State/NTR/ARARs		National Toxics Rule/MTCA Calculated	National Recommended WQC ⁽⁹⁾			Surface Water ⁽³⁾	Groundwater ⁽⁴⁾	SQO	SQS ^(h)
µg/L		µg/L	µg/L	µg/L	µg/L	µg/L	µg/kg	µg/kg			
Volatiles	1,1,2,2-Tetrachloroethane	NV		11 e	NV	11.0	0.5	11.0	11.0	NV	
	1,1,2-Trichloroethane	NV		42 e	NV	42	0.5	42	42	NV	
	1,1-Dichloroethene	NV		3.2 e	7,100	3.2	0.5	3.2	3.2	NV	
	Benzene	NV		71 e	NV	71	0.5	71	71	NV	
	Carbon tetrachloride	NV		4.4 e	NV	4.4	0.5	4.4	4.4	NV	
	Chloroform (Trichloromethane)	NV		470 e	NV	470	0.5	470	470	NV	
	Ethylbenzene	NV		29,000 e	2,100	2,100	0.5	2,100	2,100	10	
	Methylene chloride	NV		1,600 e	NV	1600	5	1600	1600	NV	
	Tetrachloroethene	450 a		8.85 e	NV	8.85	0.5	8.85	8.85	57	
	cis-1,2-Dichloroethene	NV		NV	NV	NV	0.5	NV	NV	NV	
	trans-1,2-Dichloroethene	224,000 a		NV	10,000	10,000	0.5	10,000	10,000	NV	
	Trichloroethene	2000 a		81 e	NV	81	0.5	81	81	NV	
Vinyl chloride	NV		525 e	2.4	2.4	0.5	2.4	2.4	NV		
Semi-volatiles	1,2,4-Trichlorobenzene	NV		NV	70	70	0.5	70	70	51	
	bis(2-Ethylhexyl) phthalate	NV		5.9 e	NV	5.9	1.0	5.9	5.9	1,300	
	Hexachlorobenzene	129 a		0.00077 e	NV	0.00077	0.01	0.01 *	0.01 *	22	
	Hexachlorobutadiene	NV		50 e	NV	50	0.01	50	50	11	
	Pentachlorophenol (neutral pH)	7.9 b,c		8.2 e	NV	7.9	0.1	7.9	7.9	360	
Pentachlorophenol (pH = 8.0)	7.9 b,c		8.2 e	NV	7.9	0.1	7.9	7.9	360		
Pesticides, PCBs, Dioxin-furan	4,4'-DDD	NV		0.00084 e	NV	0.00084	0.01	0.01 *	0.01 *	16	
	4,4'-DDE	NV		0.00059 e	NV	0.00059	0.01	0.01 *	0.01 *	9	
	4,4'-DDT	0.001 b,c		0.00059 e	NV	0.00059	0.01	0.01 *	0.01 *	34	
	Aroclor 1248	0.03 b,c		0.00017	NV	0.00017	0.2	0.2 *	0.2 *	150	
	Aroclor 1254	0.03 b,c		0.00017	NV	0.00017	0.2	0.2 *	0.2 *	150	
	Aroclor 1260	0.03 b,c		0.00017	NV	0.00017	0.2	0.2 *	0.2 *	150	
	Total PCBs	0.03 b,c		0.00017 e	NV	0.00017	0.2	0.2 *	0.2 *	300 m	
	Dioxin-Furan (2,3,7,8 tcdd)	NV		1.4E-08 e	NV	1.4E-08	0.00001	0.00001 *	0.00001 *	NV	
Metals	Antimony	NV		4,300 e	NV	4300	2.0	4,300	4,300	150,000	
	Arsenic	36 b,c		0.14 e	NV	0.14	1.0	1.0 *,k	5.0 +	57,000	
	Cadmium	9.30 b,c		NV f	NV	9.3	1.0	9.3	9.3	5,100	
	Chromium, total ⁽⁶⁾	50 b,c		NV f	NV	50.0	2.0	50	50	NV	260,000
	Copper	2.40 b		NV f	NV	2.4	2.0	2.4 *	2.4 *	390,000	
	Lead	8.1 b,c		NV f	NV	8.1	1.0	8.1	8.1	450,000	
	Mercury	0.025 b,c		0.15 e	NV	0.025	0.2	0.2 *	0.2 *	590	
	Nickel	8.2 b,c		4,600 e	NV	8.2	1.0	8.2	8.2	140,000	
	Silver	NV		NV f	NV	NV	1.0	NV	NV	6,100	
	Thallium	NV		6.3 e	0.47	0.47	1.0	1.0 *	1.0 *	NV	
	Zinc	81 b,c		NV f	NV	81	50	81	81	410,000	
General	pH	7 - 8.5 su d				7 - 8.5 su		7 - 8.5 su			

**SUMMARY OF SITE CLEANUP LEVELS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Notes:

- 1 Based on MTCA Method B for Surface Water.
- 2 Practical Quantitation Limit (PQL), equal to or lower than that specified in analytical methods, is based on PQLs from Washington State Certified laboratories. Arsenic PQL is for the ICP/MS analytical method.
- 3 MTCA Surface Water Cleanup Level is the largest of the Most Stringent Surface Water Criteria and the Laboratory PQL, except where noted.
- 4 State groundwater standards are based on state surface-water standards due to restrictive covenants limiting the use of Occidental onsite and offsite groundwater to 'non-potable' uses.
- 5 Based on Sediment Quality Objectives (SQOs) defined under the Commencement Bay Nearshore/Tide Flats Record of Decision where an SQO exist. Where an SQO does not exist, the Sediment Cleanup Level is based on State of Washington Sediment Quality Standards (SQS), if one exist for that parameter.
- 6 Criteria for hexavalent chromium was used if no criteria is given for total chromium.
- * Cleanup Level established at a concentration equal to the practical quantitation limit for that chemical in accordance with WAC 173-340-700 (6)(d). Value may decrease with improvements in analytical methods.
- + Cleanup Level established at the natural background concentration.

µg/L	micrograms per liter
µg/kg	micrograms per kilogram
ARAR	Applicable or Relevant or Appropriate Requirements
MTCA	Model Toxics Control Act
NTR	National Toxics Rule (40 CFR 131.36)
PCB	Polychlorinated Biphenyl
PQL	Practical Quantitation Limit
SQO	Sediment Quality Objective
SQS	Sediment Quality Standard
WQC	Water Quality Criteria

Sources:

- a Various references. Chronic marine WQC based on Lowest Observed Effects (LOEL).
- b 40 CFR 131.36 criterion for continuous concentration. (NTR).
- c WAC 173-201A-240, Table 240(3).
- d pH must be within the range of 7.0 to 8.5 with a human-caused variation within the above range of less than 0.5 units per WAC 173-201A, Table 210(1)(f).
- e 40 CFR 131.36 criterion based on 1E-06 risk for human consumption of organisms (fish) only. (NTR).
- f Calculated from MTCA Chapter 173-340, Equation 730-1 for Noncarcinogens.
- g EPA-822-F-03-012.
- h WAC 173-204-320, Table 1. SQS apply only where no SQO is available.
- k Cleanup level based on NTR criterion adjusted to the practical quantitation limit. Additional upward adjustment to the natural background level for groundwater, 5 µg/L, will be made if compliance monitoring is located in discharging groundwater.
- m The SQO for Total PCBs is 300 µg/kg. Where modeling of natural recovery shows that a reduction to 300 µg/kg can be achieved in 10 years or less, the Sediment Remedial Action Level may be up to 450 µg/kg provided undo harm associated leaving PCBs above 300 µg/kg will not occur.

TABLE 4.6

SUMMARY OF SOIL SCREENING CRITERIA
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Embankment Area Groundwater COCs		Contaminant data					Most Stringent Groundwater Criteria ⁽¹⁾	Maximum Soil Concentration Protective of Groundwater ⁽²⁾	
		K _{oc} L/kg	H'	K _d (L/kg)				C _u µg/kg	C _s µg/kg
				TOC ⁽³⁾ = 0.001 g/g	Neutral pH	pH = 8.0			
				µg/L					
Volatiles	1,1,2,2-Tetrachloroethane	79 b	1.41E-02 a	0.079 d			11	61.6	4.02
	1,1,2-Trichloroethane	75 b	3.74E-02 a	0.075 d			42	233.7	15.2
	1,1-Dichloroethene	65 b	1.07E+00 a	0.065 d			3.2	22.9	1.13
	Benzene	58.9 b	2.28E-01 a	0.0589 d			71	395.7	24.5
	Carbon tetrachloride	152 b	1.25E+00 a	0.152 d			4.4	40.5	1.93
	Chloroform (Trichloromethane)	53 b	1.50E-01 a	0.053 d			470	2,500	160
	Ethylbenzene	204 b	3.23E-01 a	0.204 d			2,100	18,144	1,030
	Methylene chloride	10 b	8.98E-02 a	0.01 d			1600	6,969	475
	Tetrachloroethene	265 b	7.54E-01 a	0.265 d			8.85	93.9	4.88
	cis-1,2-Dichloroethene	35.5 a	1.67E-01 a	0.0355 d			224,000	1,119,881	72,165
	trans-1,2-Dichloroethene	38 b	3.85E-01 a	0.038 d			10,000	54,273	3,247
	Trichloroethene	94 b	4.22E-01 a	0.094 d			81	536	30.8
	Vinyl chloride	18.6 a	1.07E+00 c	0.0186 d			2.4 #	14.9	0.73
Semi-volatiles	Hexachlorobenzene	80,000 b	5.41E-02 a	80.0 d			0.00077	1.24	0.062
	Pentachlorophenol (neutral pH)	592 a	1.00E-06 a	0.592 d			7.9	125	6.94
	Pentachlorophenol (pH = 8.0)	410 i	1.00E-06 a	0.41 d			7.9	96.4	5.50
PCBs	Total PCBs	309,000 a	3.11E+05 h	309 d			0.00017	92.7	0.053
Metals	Arsenic		0.00 f		29 e	31 j	5 k	2,920	146
	Chromium, Total ⁽⁴⁾		0.00 f		1,000 e	14 j	50	14,200	714
	Copper		0.00 f		22 e	NV	2.4	1,066	53.5
	Lead		0.00 f		10,000 e	NV	8.1	1,620,032	81,002
	Mercury		0.47 f		52 e	200 j	0.025	26.1	1.31
	Nickel		0.00 f		65 e	1900 j	8.2	10,693	535
	Thallium		0.00 f		71 j	96 j	0.47	669	34
	Zinc		0.00 f		62 e	530 j	81	100,764	5,045

TABLE 4.6

**SUMMARY OF SOIL SCREENING CRITERIA
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Notes:

- # GW Criteria of 2.4 µg/L for Vinyl Chloride based on a cancer risk of 1 x 10⁻⁶ for the purposes of the calculations. See Table 4.5 for GW Cleanup Level.
 - 1. See Table 4.5, column "Most Stringent Surface Water Criteria". GW Cleanup Levels exceed these values for some COCs due to PQLs or background concentrations.
 - 2. Unless noted otherwise soil values are based on WAC 173-340-747, Eq. 747-1 using default parameters.
 - 3. TOC value = 0.001 is the default value shown in WAC 173-340-747, Equation 747-2.
 - 4. Criteria for hexavalent chromium was used if no criteria is given for total chromium.
-
- H' Henry's Law Constant, unitless form
 - C_u Soil to groundwater criteria, unsaturated
 - C_s Soil to groundwater criteria, saturated
 - COC Constituent of Concern
 - K_{oc} Organic Carbon Partitioning Coefficient
 - K_d Partitioning Coefficient
 - µg/L Micrograms per liter
 - µg/kg Micrograms per kilogram
 - L/kg Liters per kilogram

Sources:

- a EPA Soil Screening Guidance: User's Guide, Table C-1.
- b WAC 173-340-900, Table 747-1
- c USEPA On-Line Tools for Site Assessment Calculations.
- d WAC 173-340-900, Equation 747-2
- e WAC 173-340-900, Table 747-3
- f WAC 173-340-747(4)(d)
- h Geometric mean of aroclors, "Groundwater Chemicals Desk Reference", second Edition, Montgomery, 1996
- i WAC 173-340-900, Table 747-2.
- j EPA Soil Screening Guidance: User's Guide, Table C-4.
- k Based on regional background concentrations

TABLE 4.7

SUMMARY OF POREWATER SCREENING CRITERIA
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Parameter		Partitioning Coefficient K_{oc} ⁽¹⁾ L/kg	Partitioning Coefficient (K_d)			Most Stringent Surface Water Criteria ⁽⁴⁾ µg/L	Laboratory Practical Quantitation Limits µg/L	Cleanup Levels ⁽⁴⁾		Porewater Screening Criteria	
			MTCA Default K_d Values ⁽²⁾		Site-Specific K_d ⁽³⁾ TOC = 0.016 g/g L/kg			Surface Water Cleanup Level µg/L	Sediment Cleanup Level µg/kg	Calculated Porewater Criteria Protective of Sediment Cleanup Level ⁽⁵⁾ µg/L	Porewater Criteria ⁽⁶⁾ µg/L
			Neutral pH; pH = 6.8 L/kg	pH = 8.0 L/kg							
Volatiles	1,1,2,2-Tetrachloroethane	79 a			1.264	11	0.5	11	NV		11
	1,1,2-Trichloroethane	75 a			1.20	42	0.5	42	NV		42
	1,1-Dichloroethene	65 a			1.04	3.2	0.5	3.2	NV		3.2
	Benzene	58.9 a			0.94	71	0.5	71	NV		71
	Carbon tetrachloride	152 a			2.43	4.4	0.5	4.4	NV		4.4
	Chloroform (Trichloromethane)	53 a			0.848	470	0.5	470	NV		470
	Ethylbenzene	204 a			3.26	2,100	0.5	2,100	10	3.1	3.1
	Methylene chloride	10 a			0.160	1600	5	1600	NV		1,600
	Tetrachloroethene	265 a			4.24	8.85	0.5	8.9	57	13	8.85
	cis-1,2-Dichloroethene	35.5 c			0.568	NV	0.5	NV	NV		NV
	trans-1,2-Dichloroethene	38 a			0.608	10,000	0.5	10,000	NV		10,000
	Trichloroethene	94 a			1.50	81	0.5	81	NV		81
	Vinyl chloride	18.6 c			0.298	2.4	0.5	2.4	NV		2.4
Semi-Volatiles	1,2,4-Trichlorobenzene	1,659 a			26.5	70	0.5	70	51	1.9	1.92
	bis(2-Ethylhexyl) phthalate	111,123 a			1778	5.9	1.0	5.9	1300	0.73	1.0 *
	Hexachlorobenzene	80,000 a			1280	0.00077	0.01	0.01	22	0.017	0.01 *
	Hexachlorobutadiene	53,700 a			859	50	0.01	50	11	0.013	0.013
	Pentachlorophenol (neutral pH)	592 c			9.47	7.9	0.1	7.9	360	38	7.90
Pentachlorophenol (pH = 8.0)	410 b			6.56	7.9	0.1	7.9	360	55	7.90	
Pesticides, PCBs, Dioxin-Furans	4,4'-DDD	45,800 a			733	0.00084	0.01	0.01	16	0.022	0.01 *
	4,4'-DDE	86,405 a			1,382	0.00059	0.01	0.01	9	0.0065	0.01 *
	4,4'-DDT	677,934 a			10,847	0.00059	0.01	0.01	34	0.003	0.01 *
	Aroclor 1248	436,516 d			6,984	0.00017	0.2	0.2	150	0.021	0.2 *
	Aroclor 1254	172,492 d			2,760	0.00017	0.2	0.2	150	0.05	0.2 *
	Aroclor 1260	822,422 a			13,159	0.00017	0.2	0.2	150	0.011	0.2 *
	Total PCBs	309,000 c			4,944	0.000170	0.2	0.2	300	0.061	0.2 *
	Dioxin-Furan (2,3,7,8 tcdd)	23,315,625 n			373,050	1.4E-08	0.00001	0.00001	NV		0.00001 *
Metals	Antimony		45 f	NV		4,300	2.0	4,300	150,000	3,333	3,333
	Arsenic		29 g	31 f		0.14	1.0	1.0	57,000	1,839	1.0 +
	Cadmium		6.7 g	4300 f		9.3	1.0	9.3	5100	1.2	1.2
	Chromium, total ⁽⁷⁾		1000 g	14 f		50	2.0	50	260,000	260	50
	Copper		22 g	NV		2.4	2.0	2.4	390,000	17,727	2.4
	Lead		10,000 g	NV		8.1	1.0	8.1	450,000	45	8.1
	Mercury		52 g	200 f		0.025	0.2	0.2	590	3.0	0.2 *
	Nickel		65 g	1900 f		8.2	1.0	8.2	140,000	74	8.2
	Silver		8.3 f	110 f		NV	1.0	NV	6,100	55	55
	Thallium		71 f	96 f		0.47	1.0	1.0	NV		1.0 *
	Zinc		62 g	530 f		81	50	81	410,000	774	81
General	pH					7 - 8.5 su		7 - 8.5 su			7 - 8.5 su

TABLE 4.7

**SUMMARY OF POREWATER SCREENING CRITERIA
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Notes:

- (1) Partitioning coefficient (K_{oc}) values are sorption-based values taken from literature sources. Literature sources are referenced below.
- (2) K_d values shown for metals are taken from literature. Literature sources are referenced below.
- (3) The site-specific K_d for sediment is based upon using a site-specific TOC value in WAC 173-340-747, Equation 747-2. The site-specific TOC value of 0.01145 g/g is based upon the mean of TOC data obtained from non-impacted sediment samples collected at the Site.
- (4) Taken from Table 4.5 - Summary of Site Cleanup Levels.
- (5) For dry-weight sediment standards, protective porewater concentration = Sediment Cleanup Level / K_d .
- (6) Most stringent criteria protective of sediments and based on achieving compliance with surface water criteria at the point of compliance, 0 to 10 cm below the sediment surface, unless determined otherwise.
- (7) Values for hexavalent chromium were used where no value for total chromium were listed.
- + Established at the natural background concentration for arsenic.
- * Cleanup Level established at a concentration equal to the practical quantitation limit for that chemical in accordance with WAC 173-340-700(6)(d). Value may decrease with improvements in analytical methods.

g/g	grams per gram
K_{oc}	Organic Carbon Partitioning Coefficient
K_d	Partitioning Coefficient
L/Kd	liters/kilogram
mg/kg	milligrams per kilogram
MTCA	Model Toxics Control Act
PCB	Polychlorinated Biphenyl
TOC	Total Organic Carbon
$\mu\text{g/L}$	micrograms per liter
$\mu\text{g/kg}$	micrograms per kilogram

Sources:

- a WAC 173-340-900, Table 747-1.
- b WAC 173-340-900, Table 747-2.
- c EPA Soil Screening Guidance: User's Guide, Table C-1.
- d Groundwater Chemicals Desk Reference, 2nd Edition, Montgomery (1996).
- f EPA Soil Screening Guidance: User's Guide, Table C-4.
- g MTCA 173-340-900, Table 747-3.
- h

The SQO for Total PCBs is 300 $\mu\text{g/kg}$. Where modeling of natural recovery shows that a reduction to 300 $\mu\text{g/kg}$ can be achieved in 10 years or less, the Sediment Remedial Action Level may be up to 450 $\mu\text{g/kg}$ provided undo harm associated leaving PCBs above 300 $\mu\text{g/kg}$.

TABLE 4.8

**SUMMARY OF CSI SCREENING CRITERIA
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

	<i>Groundwater</i>			<i>Soil</i>		
	<i>Practical Quantitation Limit</i>	<i>CSI Screening Level Groundwater</i>		<i>Practical Quantitation Limit</i>	<i>CSI Soil Screening Level Protective of Groundwater</i>	
				<i>C_u</i>	<i>C_s</i>	
Site-Specific Volatile Organic Compounds (VOCs)						
1,1,2,2-Tetrachloroethane	0.5 µg/L	11 µg/L	(1)	5.0 µg/Kg	61.6 µg/Kg	4.02 µg/Kg
1,1,2-Trichloroethane	0.5 µg/L	42 µg/L	(1)	5.0 µg/Kg	233.7 µg/Kg	15.2 µg/Kg
1,1-Dichloroethene	0.5 µg/L	3.2 µg/L	(1)	5.0 µg/Kg*	22.9 µg/Kg	1.13 µg/Kg
Carbon Tetrachloride	0.5 µg/L	4.4 µg/L	(1)	5.0 µg/Kg	40.5 µg/Kg	1.93 µg/Kg
Chloroform (Trichloromethane)	0.5 µg/L	470 µg/L	(1)	5.0 µg/Kg	2500 µg/Kg	160 µg/Kg
Methylene Chloride	2.0 µg/L	1600 µg/L	(1)	10.0 µg/Kg	6969 µg/Kg	475 µg/Kg
Tetrachloroethene	0.5 µg/L	8.85 µg/L	(1)	5.0 µg/Kg	93.9 µg/Kg	4.88 µg/Kg
cis-1,2-Dichloroethene	0.5 µg/L	16.00 µg/L	(3)	5.0 µg/Kg	NV µg/Kg	NV µg/Kg
trans-1,2-Dichloroethene	0.5 µg/L	10000 µg/L	(1)	5.0 µg/Kg	54273 µg/Kg	3247 µg/Kg
Trichloroethene	0.5 µg/L	81 µg/L	(1)	5.0 µg/Kg	536 µg/Kg	30.8 µg/Kg
Vinyl Chloride	0.5 µg/L	2.4 µg/L	(1)	5.0 µg/Kg	14.9 µg/Kg	0.73 µg/Kg
Benzene	0.5 µg/L	71.0 µg/L	(1)	5.0 µg/Kg	395.7 µg/Kg	24.5 µg/Kg
Toluene	0.5 µg/L	640 µg/L	(3)	5.0 µg/Kg	465.37 µg/Kg	273.1 µg/Kg
Ethylbenzene	0.5 µg/L	3.1 µg/L	(1)	5.0 µg/Kg	12662 µg/Kg	633 µg/Kg
Xylenes	0.5 µg/L	1600 µg/L	(3)	5.0 µg/Kg	14629.8 µg/Kg	831.5 µg/Kg
Polynuclear Aromatic Hydrocarbons (PAHs)						
Acenaphthene	0.02 µg/L	643 µg/L	(2)	5.0 µg/Kg	65567 µg/Kg	3334 µg/Kg
Acenaphthylene	0.02 µg/L	NV		5.0 µg/Kg	NV µg/Kg	NV µg/Kg
Anthracene	0.02 µg/L	110000 µg/L	(2)	5.0 µg/Kg	52125109 µg/Kg	2615763 µg/Kg
Benz(a)anthracene	0.02 µg/L*	0.018 µg/L	(4)	5.0 µg/Kg	128.79 µg/Kg	6.44 µg/Kg
Benzo(a)pyrene	0.02 µg/L*	0.018 µg/L	(4)	5.0 µg/Kg	581.4 µg/Kg	29.10 µg/Kg
Benzo(b)fluoranthene	0.02 µg/L*	0.018 µg/L	(4)	5.0 µg/Kg	442.9 µg/Kg	22.1 µg/Kg
Benzo(k)fluoranthene	0.02 µg/L*	0.018 µg/L	(4)	5.0 µg/Kg	442.9 µg/Kg	22.1 µg/Kg
Chrysene	0.02 µg/L*	0.018 µg/L	(4)	5.0 µg/Kg	143.4 µg/Kg	7.2 µg/Kg
Dibenz(a,h)anthracene	0.02 µg/L*	0.018 µg/L	(4)	5.0 µg/Kg	644.1 µg/Kg	32.2 µg/Kg
Fluoranthene	0.02 µg/L	90.2 µg/L	(2)	5.0 µg/Kg	88930.1 µg/Kg	4454.3 µg/Kg
Fluorene	0.02 µg/L	640 µg/L	(3)	5.0 µg/Kg	101212.5 µg/Kg	511.6 µg/Kg
Indeno(1,2,3-cd)pyrene	0.02 µg/L	0.018 µg/L	(4)	5.0 µg/Kg	1249.27 µg/Kg	62.47 µg/Kg
2-Methylnaphthalene	0.02 µg/L	32 µg/L	(3)	5.0 µg/Kg*	5.44 µg/Kg	0.27 µg/Kg
Naphthalene	0.02 µg/L	160 µg/L	(3)	5.0 µg/Kg	4456.69 µg/Kg	236.43 µg/Kg
Phenanthrene	0.02 µg/L	NV		5.0 µg/Kg	NV µg/Kg	NV µg/Kg
Pyrene	0.02 µg/L	480 µg/L	(3)	5.0 µg/Kg	654644 µg/Kg	32774 µg/Kg

TABLE 4.8

SUMMARY OF CSI SCREENING CRITERIA
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

	<i>Groundwater</i>		<i>Soil</i>			
	<i>Practical Quantitation Limit</i>	<i>CSI Screening Level Groundwater</i>	<i>Practical Quantitation Limit</i>	<i>CSI Soil Screening Level Protective of Groundwater</i> C _u	C _s	
Site-Specific Semi-Volatile Organic Compounds (SVOCs)						
1,2,4-Trichlorobenzene	0.2 µg/L	1.92 µg/L	(1)	5 µg/Kg	71.58 µg/Kg	3.74 µg/Kg
Bis(2-ethylhexyl) phthalate	1.0 µg/L*	0.73 µg/L	(1)	60 µg/Kg	1625.32 µg/Kg	81.33 µg/Kg
Hexachlorobenzene (8270)	0.2 µg/L	0.00077 µg/L	(1)	0.1 µg/Kg	1.24 µg/Kg	0.062 µg/Kg
Hexachlorobenzene (8081)	0.0005 µg/L	0.00077 µg/L	(1)	- -	- -	- -
Hexachlorobutadiene (8270)	0.2 µg/L	0.013 µg/L	(1)	0.1 µg/Kg	14.02 µg/Kg	0.702 µg/Kg
Hexachlorobutadiene (8081)	0.0005 µg/L	0.013 µg/L	(1)	- -	- -	- -
Pentachlorophenol	1.0 µg/L	7.9 µg/L	(1)	20 µg/Kg	125 µg/Kg	6.94 µg/Kg
Chlorodibenzo-p-Dioxins/Chlorodibenzofurans (PCDD/PCDFs)						
2,3,7,8-Tetrachlorodibenzo-p-dioxin	10 pg/L*	5.10E-09 pg/L	(1)	1.0 ng/Kg	2.37 ng/Kg	0.1189 ng/Kg
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	25 pg/L	NV		2.5 ng/Kg	NV	NV
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	25 pg/L	NV		2.5 ng/Kg	NV	NV
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	25 pg/L	NV		2.5 ng/Kg	NV	NV
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	25 pg/L	NV		2.5 ng/Kg	NV	NV
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	25 pg/L	NV		2.5 ng/Kg	NV	NV
Octachlorodibenzo-p-dioxin	50 pg/L	NV		5.0 ng/Kg	NV	NV
2,3,7,8-Tetrachlorodibenzofuran	10 pg/L	NV		1.0 ng/Kg	NV	NV
1,2,3,7,8-Pentachlorodibenzofuran	25 pg/L	NV		2.5 ng/Kg	NV	NV
2,3,4,7,8-Pentachlorodibenzofuran	25 pg/L	NV		2.5 ng/Kg	NV	NV
1,2,3,4,7,8-Hexachlorodibenzofuran	25 pg/L	NV		2.5 ng/Kg	NV	NV
1,2,3,6,7,8-Hexachlorodibenzofuran	25 pg/L	NV		2.5 ng/Kg	NV	NV
1,2,3,7,8,9-Hexachlorodibenzofuran	25 pg/L	NV		2.5 ng/Kg	NV	NV
2,3,4,6,7,8-Hexachlorodibenzofuran	25 pg/L	NV		2.5 ng/Kg	NV	NV
1,2,3,4,6,7,8-Heptachlorodibenzofuran	25 pg/L	NV		2.5 ng/Kg	NV	NV
1,2,3,4,7,8,9-Heptachlorodibenzofuran	25 pg/L	NV		2.5 ng/Kg	NV	NV
Octachlorodibenzofuran	50 pg/L	NV		5.0 ng/Kg	NV	NV
Polychlorinated Biphenyls (PCBs)						
Total PCBs (8082)	0.005 µg/L**	0.00017 µg/L	(1)	10 µg/Kg**	92.7 µg/Kg	0.053 µg/Kg
PCB Congeners (1668)***	0.000005-0.00005 µg/L****	0.00017 µg/L	(1)	0.001-0.050 µg/Kg****	µg/Kg	µg/Kg

TABLE 4.8

SUMMARY OF CSI SCREENING CRITERIA
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

	<i>Groundwater</i>		<i>Soil</i>	
	<i>Practical Quantitation Limit</i>	<i>CSI Screening Level Groundwater</i>	<i>Practical Quantitation Limit</i>	<i>CSI Soil Screening Level Protective of Groundwater</i> C _u C _s
Polychlorinated Naphthalenes (PCNs)				
Total PCNs	20.0 µg/L	NV µg/L	0.002 µg/Kg	NV NV
Metals				
Aluminum	2 µg/L	16000 µg/L ⁽³⁾	2.0 µg/Kg	NV NV
Antimony	0.05 µg/L	3333 µg/L ⁽¹⁾	0.05 µg/Kg	NV NV
Arsenic	0.5 µg/L*	0.14 µg/L ⁽¹⁾	0.5 µg/Kg	2920 µg/Kg 146 µg/Kg
Cadmium	0.02 µg/L	1.2 µg/L ⁽¹⁾	0.02 µg/Kg	1663 µg/Kg 8.3 µg/Kg
Chromium	0.2 µg/L	50 µg/L ⁽¹⁾	0.2 µg/Kg	14200 µg/Kg 714 µg/Kg
Copper	0.1 µg/L	2.4 µg/L ⁽¹⁾	0.1 µg/Kg	1066 µg/Kg 53.5 µg/Kg
Iron	20 µg/L	11200 µg/L ⁽³⁾	4.0 µg/Kg	NV µg/Kg NV µg/Kg
Lead	0.02 µg/L	8.1 µg/L ⁽¹⁾	0.05 µg/Kg	1620032 µg/Kg 81002 µg/Kg
Mercury	0.2 µg/L	0.025 µg/L ⁽¹⁾	0.02 µg/Kg	26.1 µg/Kg 1.31 µg/Kg
Nickel	0.2 µg/L	8.2 µg/L ⁽¹⁾	0.2 µg/Kg	10693 µg/Kg 535 µg/Kg
Silica	400 µg/L	NV µg/L	0.5 µg/Kg	NV NV
Silver	0.02 µg/L	55 µg/L ⁽¹⁾	NA	NV NV
Thallium	0.02 µg/L	0.47 µg/L ⁽¹⁾	0.02 µg/Kg	669 µg/Kg 34 µg/Kg
Zinc	0.5 µg/L	81 µg/L ⁽¹⁾	0.5 µg/Kg	100764 µg/Kg 5045 µg/Kg
Tetraethyl Lead	0.0005 µg/L	0.0008 µg/L ⁽³⁾	1.0 µg/Kg	NV NV
Total Petroleum Hydrocarbons				
Gasoline Range Organics (TPH-GRO)	250 µg/L	800 µg/L ⁽⁵⁾	5.0 mg/Kg	30 mg/Kg 30 mg/Kg
Diesel Range Organics (TPH-DRO)	250 µg/L	500 µg/L ⁽⁵⁾	25.0 mg/Kg	2000 mg/Kg 2000 mg/Kg
Oil Range Organics (TPH-ORO)	500 µg/L	500 µg/L ⁽⁵⁾	100 mg/Kg	2000 mg/Kg 2000 mg/Kg

TABLE 4.8

**SUMMARY OF CSI SCREENING CRITERIA
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Notes:

- Not applicable.
- * PQL exceeds SL but is considered acceptable for CSI.
- ** PQL values are for individual Aroclors or congeners but CSI SL will be compared to total PCB concentrations.
- *** Method 1668 to be run on a subset of samples where PCBs were not detected using Method 8082.
- **** Range of congener limits.
- MTCA Model Toxics Control Act
- NV No value listed in current SOW Table 4.1 or in CLARC for groundwater or surface water.
- µg/L Micrograms per liter (parts per billion [ppb]).
- pg/L Picograms per liter (parts per quadrillion [ppq]).
- µg/kg Micrograms per kilogram (parts per billion [ppb]).
- mg/kg Milligrams per kilogram (parts per million [ppm]).
- ng/kg Nanograms per kilogram (parts per trillion [ppt]).
- C_u Soil to Groundwater Criteria, unsaturated.
- C_s Soil to Groundwater Criteria, saturated.
- (1) Lowest value listed in SOW Table 4.1 for surface water, groundwater or pore water.
- (2) CLARC-Surface Water, Method B, Non-Carcinogen, Standard Formula Value.
- (3) CLARC-Ground Water, Method B, Non-Carcinogen, Standard Formula Value.
- (4) CLARC-Surface Water, Human Health - Marine - Clean Water Act, Section 304.
- (5) Ground Water, MTCA Method A.

TABLE 4.9

**SUMMARY OF SOIL VAPOR AND INDOOR AIR SCREENING CRITERIA
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

CASRN	Method Reporting Limit (MRL) ⁽¹⁾ (µg/m ³)	EPA Regional Screening Levels Industrial Air Supporting ⁽²⁾				Indoor Air Short-term ⁽⁴⁾ NC	Updated DRAFT MTCA Method B Levels ⁽⁵⁾				
		Indoor Air		Soil Gas (below slab) ⁽³⁾			Indoor Air ⁽⁶⁾		Soil Gas (below slab) ⁽³⁾		
		C	NC	C	NC		C	NC	C	NC	
Volatile Organic Compounds (VOCs)		10⁻⁶	HI=1	10⁻⁶	HI=1						
Vinyl Chloride	75-01-4	0.1	2.8	440	28	4400		0.28	46	2.8	457
1,1-Dichloroethene	75-35-4	0.1	-	880	-	8800		-	91	-	914
Methylene Chloride	75-09-2	0.5	1200	2600	12000	26000		250	274	2500	2743
trans-1,2-Dichloroethene	156-60-5	0.1	-	260	-	2600		-	27	-	274
cis-1,2-Dichloroethene	156-59-2	0.1	-	-	-	-		-	-	-	-
Chloroform	67-66-3	0.1	0.53	430	5.3	4300		0.11	-	1.1	-
Benzene	71-43-2	0.1	1.6	130	16	1300		0.32	14	3.2	137
Carbon Tetrachloride	56-23-5	0.1	2	440	20	4400		0.42	46	4.2	457
Trichloroethene (TCE)	79-01-6	0.1	3	8.8	30	88	8.4	0.61	0.91	6.1	9.1
1,1,2-Trichloroethane	79-00-5	0.1	0.77	0.88	7.7	8.8		0.16	-	1.6	-
Toluene	108-88-3	0.5	-	22000	-	220000		-	2286	-	22857
Tetrachloroethene	127-18-4	0.1	47	180	470	1800		9.6	18	96	183
Ethylbenzene	100-41-4	0.5	4.9	4400	49	44000		-	457	-	4571
m,p-Xylenes	1330-20-7	0.5	-	440	-	4400		-	46	-	457
o-Xylene	95-47-6	0.5	-	440	-	4400		-	46	-	457
1,1,2,2-Tetrachloroethane	79-34-5	0.025*	0.21	-	2.1	-		0.043	--	0.43	-
1,2,4-Trichlorobenzene	120-82-1	0.5	-	8.8	-	88		-	0.91	-	9.1
Naphthalene	91-20-3	0.1*	0.36	13	3.6	130		-	1.4	-	14
Hexachlorobutadiene	87-68-3	0.025*	0.56	-	5.6	-		0.11	-	1.1	-
1,1,1-Trichloroethane	71-55-6	0.1	-	22000	-	220000		-	2286	-	22857
1,2,4-Trimethylbenzene	95-63-6	0.5	-	31	-	310		-	3.2	-	32
1,4-Dichlorobenzene	106-46-7	0.1	1.1	3500	11	35000		-	366	-	3657
Styrene	100-42-5	0.5	-	4400	-	44000		-	457	-	4571
1,3,5-Trimethylbenzene	108-67-8	0.5	-	-	-	-		-	-	-	-

Notes:

µg/m³ Values in micrograms per cubic meter.

C Refers to the substances toxicity as a carcinogen. (<http://www.epa.gov/region9/superfund/prg/>)

NC Refers its toxicity as a non-carcinogen.

(1) Low Level EPA Method TO-15. * Reporting limits for these parameters are for TO-15 Selective Ion Monitoring (SIM) analysis.

(2) Regional Screening Level (RSL) Industrial Air Supporting Table November 2012.

(3) Indoor air concentration ÷ 0.1

(4) Short-term, non-cancer concentration is 8.4 µg/m³, USEPA Region 10 Memorandum; OEA Recommendations Regarding Trichloroethylene Toxicity in Human Health Risk Assessments, Office of Environmental Assessment, December 13, 2012.

(5) Updated MTCA Method B indoor air concentrations were derived using updated toxicity values included in USEPA's Integrated Risk Information System (IRIS) supplemented, as needed, with USEPA Preliminary Peer-Reviewed Toxicity Values (PPRTVs). This approach is consistent with the MTCA Regulation and as implemented by the Washington State Department of Ecology (Ecology) in its Cleanup Levels and Risk Calculation (CLARC) tool. The one exception was 1,1,2,2-tetrachloroethylene, for which the California EPA unit risk factor was used in order to be consistent with the draft 2009 Ecology VI guidance since there was no toxicity value available for this constituent.

(6) Updated indoor air concentrations were compared to CLARC Air, Method B criteria, and updated values were consistent with CLARC criteria with the exception of methylene chloride and trichloroethylene, for which revised IRIS toxicity values were developed by USEPA but not yet incorporated in the CLARC tool. Because no indoor air criteria are available for cis-1,2-dichloroethylene and 1,3,5-trimethylbenzene, surrogate criteria would need to be selected if indoor air concentrations are needed. Recommended surrogates are trans-1,2-dichloroethylene for cis-1,2-dichloroethylene and 1,2,4-trimethylbenzene for 1,3,5-trimethylbenzene.

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	17C	709-BH-01	709-BH-02	709-BH-03	709-BH-04	709-BH-05		
Sample ID:	S-071312-KB-17C-001	S-051612-NE-709BH01-001	S-051612-NE-709BH02-001	S-051612-NE-709BH03-001	S-051612-NE-709BH04-001	S-051712-NE-709BH05-001		
Sample Date:	7/13/2012	5/16/2012	5/16/2012	5/16/2012	5/16/2012	5/17/2012		
Sample Depth:	5 to 5 ft BGS	4 to 5 ft BGS	1.5 to 3.5 ft BGS	1.5 to 2.5 ft BGS	1.5 to 2.5 ft BGS	4 to 5 ft BGS		
elev_MLLW	12.99 to 12.99	14.23 to 13.23	16.48 to 14.48	16.69 to 15.69	15.83 to 14.83	12.86 to 11.86		
elev_NGVD	6.7 to 6.7	7.9 to 6.9	10.2 to 8.2	10.4 to 9.4	9.5 to 8.5	6.5 to 5.5		
Parameters								
	Units	Cu						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	61.6	5.1 U	5.4 U	5.5 U	5.2 U	7.3 U	550 UJ
1,1,2-Trichloroethane	µg/kg	233.7	5.1 U	5.4 U	5.5 U	5.2 U	7.3 U	550 UJ
1,1-Dichloroethene	µg/kg	22.9	5.1 U	5.4 U	5.5 U	5.2 U	7.3 U	140 UJ
Carbon tetrachloride	µg/kg	40.5	0.81 J	5.4 U	5.5 U	5.2 U	7.3 U	140 UJ
Chloroform (Trichloromethane)	µg/kg	2500	6.6	5.4 U	5.5 U	5.2 U	7.3 U	140 UJ
cis-1,2-Dichloroethene	µg/kg	NV	0.47 J	5.4 U	5.5 U	0.89 J	7.3 U	140 UJ
Methylene chloride	µg/kg	6969	11 U	11 U	11 U	11 U	15 U	550 UJ
Tetrachloroethene	µg/kg	93.9	23	3.8 J	2.6 J	23	0.68 J	550 UJ
trans-1,2-Dichloroethene	µg/kg	54273	5.1 U	5.4 U	5.5 U	5.2 U	7.3 U	140 UJ
Trichloroethene	µg/kg	536	5.9	1.1 J	1.2 J	5.9	7.3 U	140 UJ
Vinyl chloride	µg/kg	14.9	5.1 U	5.4 U	5.5 U	5.2 U	7.3 U	140 UJ
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	1.24	120	-	-	-	-	-
Hexachlorobutadiene	µg/kg	14.02	170	-	-	-	-	-
Pentachlorophenol	µg/kg	125	150 J	-	-	-	-	-
Metals~Total								
Arsenic	µg/kg	2920	39600	1140	2490	2180	12000	1080
Chromium	µg/kg	14200	33400	6760	6840	6930	20600	7010
Copper	µg/kg	1066	160000	9660	11500	11100	75500	7440
Lead	µg/kg	1620032	1110000	1080	4570	5530	450000	4080
Mercury	µg/kg	26.1	244	4 J	12 J	14 J	17 J	10 J
Nickel	µg/kg	10693	41900	6980	7630	7300	10700	6650
Thallium	µg/kg	669	155	32	31	30	39.4	23.1
Zinc	µg/kg	100764	1020000	14000	19600	17600	617000	13100
PCBs								
Total PCBs	µg/kg	92.7	4700 U	5.4 U	5.4 U	5.3 U	140	8.0 U
Pesticides								
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-

TABLE 4.10

**UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			709-BH-06	709-BH-06	709-BH-07	709-BH-08	709-BH-09
<i>Sample ID:</i>			S-051712-NE-709BH06-001	FD-051712-NE-709BH06-001	S-051712-NE-709BH07-001	S-051812-NE-709BH08-001	S-051812-NE-709BH09-001
<i>Sample Date:</i>			5/17/2012	5/17/2012	5/17/2012	5/18/2012	5/18/2012
<i>Sample Depth:</i>			2.5 to 4 ft BGS	2.5 to 4 ft BGS	3.75 to 5 ft BGS	3.75 to 4.75 ft BGS	3.75 to 5 ft BGS
<i>elev_MLLW</i>			14.57 to 13.07	14.57 to 13.07	13.11 to 11.86	13.75 to 12.75	13.49 to 12.24
<i>elev_NGVD</i>			8.2 to 6.8	8.2 to 6.8	6.8 to 5.5	7.4 to 6.4	7.2 to 5.9
<i>Parameters</i>	<i>Units</i>	<i>Cu</i>	<i>(Duplicate)</i>				
<i>Volatile Organic Compounds</i>							
1,1,2,2-Tetrachloroethane	µg/kg	61.6	130 U	R	6.7 U	6.4 UJ	71 U
1,1,2-Trichloroethane	µg/kg	233.7	130 U	R	6.7 U	6.4 U	71 U
1,1-Dichloroethene	µg/kg	22.9	130 U	R	6.7 U	6.4 U	71 U
Carbon tetrachloride	µg/kg	40.5	130 U	R	6.7 U	6.4 U	71 U
Chloroform (Trichloromethane)	µg/kg	2500	130 U	R	6.7 U	6.4 U	71 U
cis-1,2-Dichloroethene	µg/kg	NV	130 U	R	6.7 U	6.4 U	71 U
Methylene chloride	µg/kg	6969	510 U	R	39 U	13 U	35 J
Tetrachloroethene	µg/kg	93.9	130 U	R	1.6 J	0.73 J	71 U
trans-1,2-Dichloroethene	µg/kg	54273	130 U	R	6.7 U	6.4 U	71 U
Trichloroethene	µg/kg	536	130 U	R	6.7 U	6.4 U	71 U
Vinyl chloride	µg/kg	14.9	130 U	R	6.7 U	6.4 U	71 U
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/kg	1.24	-	-	-	-	-
Hexachlorobutadiene	µg/kg	14.02	-	-	-	-	-
Pentachlorophenol	µg/kg	125	-	-	-	-	-
<i>Metals~Total</i>							
Arsenic	µg/kg	2920	750	960	540	550	880
Chromium	µg/kg	14200	7860	7340	5980	6850	7200
Copper	µg/kg	1066	8840	8550	7880	8650	9240
Lead	µg/kg	1620032	1270 J	1850 J	2370	3260	9890
Mercury	µg/kg	26.1	16 J	8 J	3 J	3 J	6 J
Nickel	µg/kg	10693	6700	7490	7740	5920	8220
Thallium	µg/kg	669	30.6	29.2	23	25	27
Zinc	µg/kg	100764	15200	15700	18900	14300	21800
<i>PCBs</i>							
Total PCBs	µg/kg	92.7	8.7 U	68 U	61 U	9.9 U	20 U
<i>Pesticides</i>							
4,4'-DDD	µg/kg	0.867	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	709-BH-10	709-BH-11	709-BH-11	709-BH-12	709-MW6-15		
Sample ID:	S-051812-NE-709BH10-001	S-060112-NE-709BH11-001	FD-060112-NE-709BH11-001	S-060312-NE-709BH12-001	S-051912-NE-MW6-001		
Sample Date:	5/18/2012	6/1/2012	6/1/2012	6/3/2012	5/19/2012		
Sample Depth:	4 to 5 ft BGS	1.5 to 3 ft BGS	1.5 to 3 ft BGS	2 to 3 ft BGS	2 to 2 ft BGS		
elev_MLLW	13.6 to 12.6	16.4 to 14.9	16.4 to 14.9	15.54 to 14.54	15.92 to 15.92		
elev_NGVD	7.3 to 6.3	10.1 to 8.6	10.1 to 8.6 (Duplicate)	9.2 to 8.2	9.6 to 9.6		
Parameters	Units	Cu					
Volatiles Organic Compounds							
1,1,2,2-Tetrachloroethane	µg/kg	61.6	5.2 UJ	5.5 U	5.2 U	5.9 U	-
1,1,2-Trichloroethane	µg/kg	233.7	5.2 U	5.5 U	5.2 U	5.9 U	-
1,1-Dichloroethene	µg/kg	22.9	5.2 U	5.5 U	5.2 U	5.9 U	-
Carbon tetrachloride	µg/kg	40.5	5.2 U	5.5 U	5.2 U	5.9 U	-
Chloroform (Trichloromethane)	µg/kg	2500	5.2 U	5.5 U	5.2 U	5.9 U	-
cis-1,2-Dichloroethene	µg/kg	NV	5.2 U	5.5 U	5.2 U	5.9 U	-
Methylene chloride	µg/kg	6969	11 U	11 U	11 U	12 U	-
Tetrachloroethene	µg/kg	93.9	0.38 J	0.71 J	0.48 J	2.4 J	-
trans-1,2-Dichloroethene	µg/kg	54273	5.2 U	5.5 U	5.2 U	5.9 U	-
Trichloroethene	µg/kg	536	0.31 J	5.5 U	5.2 U	0.60 J	-
Vinyl chloride	µg/kg	14.9	5.2 U	5.5 U	5.2 U	5.9 U	-
Semi-volatile Organic Compounds							
Hexachlorobenzene	µg/kg	1.24	-	-	-	-	-
Hexachlorobutadiene	µg/kg	14.02	-	-	-	-	-
Pentachlorophenol	µg/kg	125	-	-	-	-	-
Metals~Total							
Arsenic	µg/kg	2920	1050	760	850	3050	8250
Chromium	µg/kg	14200	6390	5170	6170	9210	9040
Copper	µg/kg	1066	9340	7370	8500	12800	15700
Lead	µg/kg	1620032	2210	2840	3090	51500	59300
Mercury	µg/kg	26.1	4 J	3 J	3 J	17 J	67
Nickel	µg/kg	10693	6960	6110	6640	9040	10700
Thallium	µg/kg	669	27	22	26	41	34
Zinc	µg/kg	100764	13600	10100 J	11800	75500	45200 J
PCBs							
Total PCBs	µg/kg	92.7	20 U	-	-	-	-
Pesticides							
4,4'-DDD	µg/kg	0.867	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	709-MW20	709-MW21	721-MW5-50	721-MW6-50	721-MW7-15	721-MW8-15	721-MW9-50		
Sample ID:	S-060212-NE-709MW20-001	S-060112-NE-709MW21-001	04-10141-GU31A	04-10366-GU61D	04-10387-GU67C	04-10385-GU67A	04-10145-GU31E		
Sample Date:	6/2/2012	6/1/2012	6/28/2004	7/1/2004	6/30/2004	6/30/2004	6/29/2004		
Sample Depth:	1.5 to 2.5 ft BGS	2.5 to 3.5 ft BGS	4 to 6 ft BGS	2 to 4 ft BGS	4 to 6 ft BGS	0 to 2 ft BGS	4 to 6 ft BGS		
elev_MLLW	18.28 to 17.28	15.56 to 14.56	13.71 to 11.71	15.5 to 13.5	13.51 to 11.51	17.34 to 15.34	13.72 to 11.72		
elev_NGVD	12 to 11	9.2 to 8.2	7.4 to 5.4	9.2 to 7.2	7.2 to 5.2	11 to 9	7.4 to 5.4		
Parameters									
	Units	Cu							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	61.6	-	5.7 U	9.1 U	150 U	1.0 U	0.9 U	0.8 U
1,1,2-Trichloroethane	µg/kg	233.7	-	5.7 U	9.1 U	150 U	1.0 U	0.9 U	0.8 U
1,1-Dichloroethene	µg/kg	22.9	-	5.7 U	9.1 U	150 U	1.0 U	0.9 U	0.8 U
Carbon tetrachloride	µg/kg	40.5	-	5.7 U	9.1 U	150 U	1.0 U	0.9 U	0.8 U
Chloroform (Trichloromethane)	µg/kg	2500	-	5.7 U	9.1 U	150 U	1.0 U	0.9 U	0.8 U
cis-1,2-Dichloroethene	µg/kg	NV	-	5.7 U	9.1 U	150 U	1.0 U	0.9 U	0.8 U
Methylene chloride	µg/kg	6969	-	12 U	18 U	290 U	2.0 U	1.7 U	1.6 U
Tetrachloroethene	µg/kg	93.9	-	5.7 U	9.1 U	150 U	1.0 U	0.9 U	0.8 U
trans-1,2-Dichloroethene	µg/kg	54273	-	5.7 U	9.1 U	150 U	1.0 U	0.9 U	0.8 U
Trichloroethene	µg/kg	536	-	5.7 U	9.1 U	150 U	1.0 U	0.9 U	0.8 U
Vinyl chloride	µg/kg	14.9	-	5.7 U	9.1 U	150 U	1.0 U	0.9 U	0.8 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	1.24	-	-	58 U	170 U	19 U	19 U	58 U
Hexachlorobutadiene	µg/kg	14.02	-	-	58 U / 46 U	730 U / 170 U	19 U / 5.1 U	19 U / 4.3 U	4.0 U / 58 U
Pentachlorophenol	µg/kg	125	-	-	290 U	870 U	96 U	94 U	290 U
Metals~Total									
Arsenic	µg/kg	2920	4490	900	-	-	-	-	-
Chromium	µg/kg	14200	11100	5950	-	-	-	-	-
Copper	µg/kg	1066	19700	7690	-	-	-	-	-
Lead	µg/kg	1620032	1200000	1760	-	-	-	-	-
Mercury	µg/kg	26.1	47	4 J	-	-	-	-	-
Nickel	µg/kg	10693	39900	6310	-	-	-	-	-
Thallium	µg/kg	669	99	26	-	-	-	-	-
Zinc	µg/kg	100764	60300	12000 J	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	92.7	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	721-MW10	721-BH-01	721-BH-02	721-BH-03	721-BH-04
Sample ID:	S-060512-NE-721MW10-001	S-053012-NE-721BH01-001	S-052312-NE-721BH02-001	S-053112-NE-721BH03-001	S-052212-NE-721BH04-001
Sample Date:	6/5/2012	5/30/2012	5/23/2012	5/31/2012	5/22/2012
Sample Depth:	2 to 3 ft BGS	3.5 to 4.5 ft BGS	3 to 4 ft BGS	0.5 to 1.5 ft BGS	3.5 to 4.5 ft BGS
elev_MLLW	15.1 to 14.1	14.23 to 13.23	14.63 to 13.63	17.26 to 16.26	13.79 to 12.79
elev_NGVD	8.8 to 7.8	7.9 to 6.9	8.3 to 7.3	10.9 to 9.9	7.5 to 6.5

Parameters	Units	Cu					
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	µg/kg	61.6	-	5.5 U	5.4 U	65 U	5.5 U
1,1,2-Trichloroethane	µg/kg	233.7	-	5.5 U	5.4 U	65 U	5.5 U
1,1-Dichloroethene	µg/kg	22.9	-	5.5 U	5.4 U	65 U	5.5 U
Carbon tetrachloride	µg/kg	40.5	-	5.5 U	5.4 U	65 U	5.5 U
Chloroform (Trichloromethane)	µg/kg	2500	-	5.5 U	5.4 U	65 U	5.5 U
cis-1,2-Dichloroethene	µg/kg	NV	-	5.5 U	5.4 U	65 U	5.5 U
Methylene chloride	µg/kg	6969	-	11 U	11 U	260 U	11 U
Tetrachloroethene	µg/kg	93.9	-	2.3 J	1.3 J	26 J	2.0 J
trans-1,2-Dichloroethene	µg/kg	54273	-	5.5 U	5.4 U	65 U	5.5 U
Trichloroethene	µg/kg	536	-	0.44 J	5.4 U	65 U	5.5 U
Vinyl chloride	µg/kg	14.9	-	5.5 U	5.4 U	65 U	5.5 U
Semi-volatile Organic Compounds							
Hexachlorobenzene	µg/kg	1.24	-	-	-	-	-
Hexachlorobutadiene	µg/kg	14.02	-	-	-	-	-
Pentachlorophenol	µg/kg	125	-	-	-	-	-
Metals~Total							
Arsenic	µg/kg	2920	2880	1370	1090	6380	3370
Chromium	µg/kg	14200	13200	6160	7430	16400	7160
Copper	µg/kg	1066	34700	8980	8840	17400	8800
Lead	µg/kg	1620032	103000	1220	11100	112000	21800
Mercury	µg/kg	26.1	109	4 J	6 J	18 J	10 J
Nickel	µg/kg	10693	14400	8930	5040	17000	6100
Thallium	µg/kg	669	43	31	37	44	32
Zinc	µg/kg	100764	59300 J	13800	12400	40900 J	28600
PCBs							
Total PCBs	µg/kg	92.7	-	-	-	-	-
Pesticides							
4,4'-DDD	µg/kg	0.867	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	721-BH-05	721-BH-07	721-BH-08	721-BH-09	721-BH-10
Sample ID:	S-053112-NE-721BH05-001	S-053012-NE-721BH07-001	S-053112-NE-721BH08-001	S-061912-SP-721BH9-001	S-053112-NE-721BH10-001
Sample Date:	5/31/2012	5/30/2012	5/31/2012	6/19/2012	5/31/2012
Sample Depth:	2.5 to 3.5 ft BGS	3 to 4 ft BGS	2.5 to 3.5 ft BGS	0 to 5 ft BGS	3 to 4 ft BGS
elev_MLLW	15.17 to 14.17	14.12 to 13.12	15.13 to 14.13	17.4 to 12.4	14.52 to 13.52
elev_NGVD	8.8 to 7.8	7.8 to 6.8	8.8 to 7.8	11.1 to 6.1	8.2 to 7.2

Parameters	Units	Cu	721-BH-05	721-BH-07	721-BH-08	721-BH-09	721-BH-10
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	µg/kg	61.6	5.5 U	6.4 U	5.2 U	270 U	5.4 UJ
1,1,2-Trichloroethane	µg/kg	233.7	5.5 U	6.4 U	5.2 U	270 U	5.4 UJ
1,1-Dichloroethene	µg/kg	22.9	5.5 U	6.4 U	5.2 U	270 U	5.4 UJ
Carbon tetrachloride	µg/kg	40.5	5.5 U	6.4 U	5.2 U	270 U	5.4 UJ
Chloroform (Trichloromethane)	µg/kg	2500	5.5 U	6.4 U	5.2 U	270 U	5.4 UJ
cis-1,2-Dichloroethene	µg/kg	NV	5.5 U	6.4 U	5.2 U	270 U	5.4 UJ
Methylene chloride	µg/kg	6969	11 U	13 U	11 U	1100 U	270 UJ
Tetrachloroethene	µg/kg	93.9	0.86 J	1.8 J	0.72 J	270 U	5.4 UJ
trans-1,2-Dichloroethene	µg/kg	54273	5.5 U	6.4 U	5.2 U	270 U	5.4 UJ
Trichloroethene	µg/kg	536	5.5 U	6.4 U	5.2 U	270 U	5.4 UJ
Vinyl chloride	µg/kg	14.9	5.5 U	6.4 U	5.2 U	270 U	5.4 UJ
Semi-volatile Organic Compounds							
Hexachlorobenzene	µg/kg	1.24	-	-	-	-	-
Hexachlorobutadiene	µg/kg	14.02	-	-	-	-	-
Pentachlorophenol	µg/kg	125	-	-	-	-	-
Metals~Total							
Arsenic	µg/kg	2920	5870	1090	3060	3210	4610
Chromium	µg/kg	14200	10600	6720	8560	9710	9380
Copper	µg/kg	1066	283000	8440	16600	14300	17700
Lead	µg/kg	1620032	899000	939	39600	26800	31100
Mercury	µg/kg	26.1	26	5 J	15 J	13 J	24
Nickel	µg/kg	10693	6980	6640	6480	6940	9620
Thallium	µg/kg	669	41	27	36	35	46
Zinc	µg/kg	100764	438000 J	12200	42400 J	38100	33600 J
PCBs							
Total PCBs	µg/kg	92.7	-	-	-	-	-
Pesticides							
4,4'-DDD	µg/kg	0.867	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	721-BH-11	721-BH-12	721-BH-13	721-BH-14	721-BH-14		
Sample ID:	S-052112-NE-721BH11-001	S-052312-NE-721BH12-001	S-052112-NE-721BH13-001	S-052012-NE-721BH14-001	FD-052012-NE-721BH14-001		
Sample Date:	5/21/2012	5/23/2012	5/21/2012	5/20/2012	5/20/2012		
Sample Depth:	3 to 4 ft BGS	3.75 to 4.75 ft BGS	4 to 5 ft BGS	2 to 3 ft BGS	2 to 3 ft BGS		
elev_MLLW	14.36 to 13.36	14.02 to 13.02	13.63 to 12.63	14.95 to 13.95	14.95 to 13.95		
elev_NGVD	8 to 7	7.7 to 6.7	7.3 to 6.3	8.6 to 7.6	8.6 to 7.6 (Duplicate)		
Parameters	Units	Cu					
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	µg/kg	61.6	5.5 U	65 U	86 U	5.8 UJ	5.6 UJ
1,1,2-Trichloroethane	µg/kg	233.7	5.5 U	65 U	86 U	5.8 U	5.6 U
1,1-Dichloroethene	µg/kg	22.9	5.5 U	65 U	86 U	5.8 U	5.6 U
Carbon tetrachloride	µg/kg	40.5	5.5 U	65 U	86 U	5.8 U	5.6 U
Chloroform (Trichloromethane)	µg/kg	2500	5.5 U	65 U	86 U	5.8 U	5.6 U
cis-1,2-Dichloroethene	µg/kg	NV	5.5 U	65 U	86 U	5.8 U	5.6 U
Methylene chloride	µg/kg	6969	11 U	260 U	350 U	12 U	12 U
Tetrachloroethene	µg/kg	93.9	5.5 U	14 J	86 U	0.32 J	0.63 J
trans-1,2-Dichloroethene	µg/kg	54273	5.5 U	65 U	86 U	5.8 U	5.6 U
Trichloroethene	µg/kg	536	5.5 U	65 U	86 U	5.8 U	0.38 J
Vinyl chloride	µg/kg	14.9	5.5 U	65 U	86 U	5.8 U	5.6 U
Semi-volatile Organic Compounds							
Hexachlorobenzene	µg/kg	1.24	-	-	-	-	-
Hexachlorobutadiene	µg/kg	14.02	-	-	-	-	-
Pentachlorophenol	µg/kg	125	-	-	-	-	-
Metals~Total							
Arsenic	µg/kg	2920	820	2640	3250	910	1080
Chromium	µg/kg	14200	6450	8430	8640	6710	7090
Copper	µg/kg	1066	8840	10300	12700	8670	9300
Lead	µg/kg	1620032	941	10800	56100	926	963
Mercury	µg/kg	26.1	4 J	10 J	16 J	6 J	5 J
Nickel	µg/kg	10693	5140	5210	6840	7270	7940
Thallium	µg/kg	669	30	32	35	27	30
Zinc	µg/kg	100764	17000	20000	38700	14100	15000
PCBs							
Total PCBs	µg/kg	92.7	9.9 U	-	5.4	20 U	20 U
Pesticides							
4,4'-DDD	µg/kg	0.867	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	721-BH-15	721-BH-16	721-BH-17	721-BH-18	721-GP5	721-GP5		
Sample ID:	S-052212-NE-721BH15-001	S-052012-NE-721BH16-001	S-100112-JN-BH17-001	S-061912-SP-721BH18-001	04-9763-GT75A	S-721-GP5-005		
Sample Date:	5/22/2012	5/20/2012	10/1/2012	6/19/2012	6/23/2004	6/23/2004		
Sample Depth:	3.75 to 4.75 ft BGS	0.25 to 1.25 ft BGS	5 to 5 ft BGS	5 to 5 ft BGS	5 ft BGS	5 ft bgs		
elev_MLLW	14 to 13	17.49 to 16.49	12.06 to 12.06	12.45 to 12.45	12.92	12.92		
elev_NGVD	7.7 to 6.7	11.2 to 10.2	5.7 to 5.7	6.1 to 6.1	6.6	6.6		
Parameters	Units	Cu						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	61.6	5.4 U	4.5 U	5.6 U	5.5 U	0.9 U	0.78 U
1,1,2-Trichloroethane	µg/kg	233.7	5.4 U	4.5 U	5.6 U	5.5 U	0.9 U	0.52 U
1,1-Dichloroethene	µg/kg	22.9	5.4 U	4.5 U	5.6 U	5.5 U	0.9 U	0.85 U
Carbon tetrachloride	µg/kg	40.5	5.4 U	4.5 U	5.6 U	5.5 U	0.9 U	0.86 U
Chloroform (Trichloromethane)	µg/kg	2500	5.4 U	4.5 U	5.6 U	5.5 U	0.9 U	1.54 U
cis-1,2-Dichloroethene	µg/kg	NV	5.4 U	4.5 U	5.6 U	5.5 U	0.9 U	0.75 U
Methylene chloride	µg/kg	6969	11 U	8.9 U	37 U	2.2 J	1.8 U	4.92 U
Tetrachloroethene	µg/kg	93.9	1.8 J	4.5 U	5.6 U	5.5 U	0.9 U	0.58 U
trans-1,2-Dichloroethene	µg/kg	54273	5.4 U	4.5 U	5.6 U	5.5 U	0.9 U	1.45 U
Trichloroethene	µg/kg	536	0.37 J	4.5 U	5.6 U	5.5 U	0.9 U	1.13 U
Vinyl chloride	µg/kg	14.9	5.4 U	4.5 U	5.6 U	5.5 U	0.9 U	1.80 U
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	1.24	-	-	-	-	19 U	-
Hexachlorobutadiene	µg/kg	14.02	-	-	-	-	4.5 U / 19 U	-
Pentachlorophenol	µg/kg	125	-	-	-	-	95 U	-
Metals~Total								
Arsenic	µg/kg	2920	930	1990	1250	1050	-	-
Chromium	µg/kg	14200	6700	11000	6850	11400	-	-
Copper	µg/kg	1066	8190	13500	9910	10000	-	-
Lead	µg/kg	1620032	1360	7000	2700 J	1550	-	-
Mercury	µg/kg	26.1	4 J	10 J	6 J	6 J	-	-
Nickel	µg/kg	10693	9810	11000	7230	8970	-	-
Thallium	µg/kg	669	30	37	37	31	-	-
Zinc	µg/kg	100764	21500	27300	14400	15400 U	-	-
PCBs								
Total PCBs	µg/kg	92.7	-	20 U	65 U	-	-	-
Pesticides								
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	A	BH-2-96	BH-4-96	BH-13-96	BH-14-96	CH-1
Sample ID:	S-071613-NH-BW-SB-A-001	Upland~BH-2-96~4-6	Upland~BH-4-96~2-6	Upland~BH-13-96~0-2	Upland~BH-14-96~0-2, 4-4.9	S-060106-LH-CH1-001
Sample Date:	7/16/2013	3/27/1996	3/26/1996	4/1/1996	4/1/1996	6/1/2006
Sample Depth:	9 ft BGS	4 to 6 ft bgs	2 to 6 ft bgs	0 to 2 ft bgs	0 to 4.9 ft bgs	0 to 2 ft bgs
elev_MLLW	5.2	14.12 to 12.12	15.62 to 11.62	17.22 to 15.22	17.12 to 12.22	17.92 to 15.92
elev_NGVD	-1.1	7.8 to 5.8	9.3 to 5.3	10.9 to 8.9	10.8 to 5.9	11.6 to 9.6

Parameters	Units	Cu	A	BH-2-96	BH-4-96	BH-13-96	BH-14-96	CH-1
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	61.6	410 U	-	-	-	-	1.4 U
1,1,2-Trichloroethane	µg/kg	233.7	410 U	-	-	-	-	0.55 U
1,1-Dichloroethene	µg/kg	22.9	410 U	-	-	-	-	0.91 U
Carbon tetrachloride	µg/kg	40.5	410 U	-	-	-	-	2.0 J
Chloroform (Trichloromethane)	µg/kg	2500	410 U	-	-	-	-	6.0
cis-1,2-Dichloroethene	µg/kg	NV	120 J	-	-	-	-	1.2 U
Methylene chloride	µg/kg	6969	140 J	-	-	-	-	6.8
Tetrachloroethene	µg/kg	93.9	290000	1.0 U	3.8	1.0	1.0 U	0.62 U
trans-1,2-Dichloroethene	µg/kg	54273	410 U	-	-	-	-	1.6 U
Trichloroethene	µg/kg	536	2100	1.0 U	0.9 U	4.7	1.0 U	0.82 U
Vinyl chloride	µg/kg	14.9	410 U	-	-	-	-	1.9 U
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	1.24	-	5.2 J	6.4 U	63	130	-
Hexachlorobutadiene	µg/kg	14.02	-	28	25	20 U	45	-
Pentachlorophenol	µg/kg	125	-	96 U	89 U	99 U	98 U	-
Metals~Total								
Arsenic	µg/kg	2920	-	5000 U	5000 U	30000 U	40000	360 J
Chromium	µg/kg	14200	-	16000	15000	28000	55000	7600
Copper	µg/kg	1066	-	21000	20000	56000	48000	12800
Lead	µg/kg	1620032	-	29000	1200000	180000	100000	36200
Mercury	µg/kg	26.1	-	50 U	50 U	530	1200	20 U
Nickel	µg/kg	10693	-	11000	12000	25000	29000	6600
Thallium	µg/kg	669	-	-	-	-	-	140 U
Zinc	µg/kg	100764	-	45000	40000	230000	160000	35900
PCBs								
Total PCBs	µg/kg	92.7	-	50 U	50 U	1850 J	50 U	-
Pesticides								
4,4'-DDD	µg/kg	0.867	-	1.9 U	1.8 U	2.0 U	2.0 U	-
4,4'-DDE	µg/kg	1.160	-	1.9 U	1.8 U	7.3	3.0	-
4,4'-DDT	µg/kg	9.10	-	1.9 U	1.8 U	3.3	5.9	-

TABLE 4.10

**UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>CH-2</i>	<i>CH-3</i>	<i>CH-4</i>	<i>CH-5</i>	<i>EA-1</i>	<i>EA-2</i>	<i>EA-3</i>	
<i>Sample ID:</i>		<i>S-060106-DR-CH2-001</i>	<i>S-053006-LH-CH3-001</i>	<i>S-053106-LH-CH4-001</i>	<i>S-060806-DR-CH5-001</i>	<i>S-092205-NR-EA-1-001</i>	<i>S-101005-DC-EA-2-001</i>	<i>S-102405-JL-EA-3-001</i>	
<i>Sample Date:</i>		<i>6/1/2006</i>	<i>5/30/2006</i>	<i>5/31/2006</i>	<i>6/8/2006</i>	<i>9/22/2005</i>	<i>10/10/2005</i>	<i>10/24/2005</i>	
<i>Sample Depth:</i>		<i>0 to 2 ft bgs</i>	<i>0 to 2 ft bgs</i>	<i>0 to 2 ft bgs</i>	<i>0 to 2 ft bgs</i>	<i>19.5 to 21.5 ft bgs</i>	<i>20 to 22 ft bgs</i>	<i>10 to 12 ft bgs</i>	
<i>elev_MLLW</i>		<i>17.92 to 15.92</i>	<i>17.92 to 15.92</i>	<i>17.92 to 15.92</i>	<i>17.92 to 15.92</i>	<i>-1.5 to -3.5</i>	<i>-2 to -4</i>	<i>8 to 6</i>	
<i>elev_NGVD</i>		<i>11.6 to 9.6</i>	<i>11.6 to 9.6</i>	<i>11.6 to 9.6</i>	<i>11.6 to 9.6</i>	<i>-7.8 to -9.8</i>	<i>-8.3 to -10.3</i>	<i>1.7 to -0.3</i>	
Parameters	Units	Cu							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	61.6	1.3 U	1.3 U	1.4 U	8.1 UJ	3.51 J	0.102 U	1.5 U
1,1,2-Trichloroethane	µg/kg	233.7	0.51 U	0.49 U	0.56 U	3.1 UJ	0.0977 U	0.0905 U	0.57 U
1,1-Dichloroethene	µg/kg	22.9	0.84 U	0.81 U	0.91 U	5.2 UJ	0.48 U	8.31	0.93 U
Carbon tetrachloride	µg/kg	40.5	0.85 U	0.82 U	0.93 U	5.3 UJ	0.104 U	0.0943 U	0.95 U
Chloroform (Trichloromethane)	µg/kg	2500	1.6 J	5.1	1.7 U	9.4 UJ	0.0655 U	0.0598 U	2.9 J
cis-1,2-Dichloroethene	µg/kg	NV	1.1 U	1.1 U	1.2 U	7.0 UJ	3.15	5090 J	1.3 U
Methylene chloride	µg/kg	6969	4.9 J	7.1	8.1	30 UJ	0.202 UJ	0.0913 U	5.4 U
Tetrachloroethene	µg/kg	93.9	0.57 U	8.8	0.63 U	3.5 UJ	1.41	5680 J	0.64 U
trans-1,2-Dichloroethene	µg/kg	54273	1.4 U	1.4 U	1.6 U	8.9 UJ	1.6	19.8	1.6 U
Trichloroethene	µg/kg	536	0.75 U	0.73 U	0.82 U	4.7 UJ	15.1	542 J	3.8 J
Vinyl chloride	µg/kg	14.9	1.8 U	1.7 U	1.9 U	11 UJ	0.64 J	2630 J	2.0 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	1.24	-	-	-	-	0.464 U	0.895 U	7.6 U
Hexachlorobutadiene	µg/kg	14.02	-	-	-	-	1.69 U	3.26 U	82
Pentachlorophenol	µg/kg	125	-	-	-	-	R	1.54 U	16 UJ
Metals~Total									
Arsenic	µg/kg	2920	1300	3200	2100	210 J	1930 J	856	11700
Chromium	µg/kg	14200	9400 J	30000	13500	21500 J	10900	14100	16000
Copper	µg/kg	1066	10600	14800	32800	11400 J	13600	12400	39400
Lead	µg/kg	1620032	7000 J	6700	83800	5100	26400	8730	46800
Mercury	µg/kg	26.1	25 U	34 U	140 U	47 U	5.41 U	4.23 U	76 J
Nickel	µg/kg	10693	7100 J	26900	48700	85300 J	8420	8550	40300
Thallium	µg/kg	669	34 U	140 U	72 U	49 J	46.1 U	135 J	640 U
Zinc	µg/kg	100764	21500	42300	107000	42300 J	18400 J	26700	94000
PCBs									
Total PCBs	µg/kg	92.7	-	-	-	-	3.88 U	7.58	4000
Pesticides									
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		EXT-9-Deep	F-Deep	G	H-01	HA-A	HA-B	HA-B	
Sample ID:		S-071113-NH-MW-EXT-9-DEEP-0	S-062813-NH-F-1	S-072213-NH-MW-G-DEEP-1	S-061813-MD-H-01-1	HA-A(S-1)	HA-B(S-1)	HA-B DUPE	
Sample Date:		7/11/2013	6/28/2013	7/22/2013	6/18/2013	11/30/1995	12/1/1995	12/1/1995	
Sample Depth:		10 ft BGS	8 ft BGS	9 ft BGS	10 ft BGS	1.5 to 2.5 ft BGS	1.5 to 2.5 ft BGS	1.5 to 2.5 ft BGS	
elev_MLLW		8.9	9.49	7.7	7.73				
elev_NGVD		2.6	3.2	1.4	1.4				
<i>(Duplicate)</i>									
Parameters	Units	Cu							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	61.6	50 U	5.4 U	2.6 U	6.0 U	61 U	60 U	58 U
1,1,2-Trichloroethane	µg/kg	233.7	50 U	5.4 U	2.6 U	6.0 U	61 U	60 U	58 U
1,1-Dichloroethene	µg/kg	22.9	50 U	5.4 U	2.6 U	6.0 U	61 U	60 U	58 U
Carbon tetrachloride	µg/kg	40.5	50 U	5.4 U	2.6 U	6.0 U	61 U	60 U	58 U
Chloroform (Trichloromethane)	µg/kg	2500	50 U	5.4 U	2.6 U	6.0 U	61 U	60 U	58 U
cis-1,2-Dichloroethene	µg/kg	NV	50 U	5.4 U	2.6 U	6.0 U	-	-	-
Methylene chloride	µg/kg	6969	14 J	11 U	5.1 U	12 U	300 U	300 U	290 U
Tetrachloroethene	µg/kg	93.9	50 U	5.4 U	2.6 U	6.0 U	61 U	60 U	58 U
trans-1,2-Dichloroethene	µg/kg	54273	50 U	5.4 U	2.6 U	6.0 U	-	-	-
Trichloroethene	µg/kg	536	50 U	5.4 U	2.6 U	6.0 U	61 U	60 U	58 U
Vinyl chloride	µg/kg	14.9	50 U	5.4 U	2.6 U	6.0 U	61 U	60 U	58 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	1.24	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	14.02	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	125	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	2920	-	-	-	-	-	-	-
Chromium	µg/kg	14200	-	-	-	-	-	-	-
Copper	µg/kg	1066	-	-	-	-	-	-	-
Lead	µg/kg	1620032	-	-	-	-	-	-	-
Mercury	µg/kg	26.1	-	-	-	-	-	-	-
Nickel	µg/kg	10693	-	-	-	-	-	-	-
Thallium	µg/kg	669	-	-	-	-	-	-	-
Zinc	µg/kg	100764	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	92.7	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>HA-C</i>	<i>HA-D</i>	<i>HA-E</i>	<i>HA-F</i>	<i>HA-G</i>	<i>HA-H</i>	<i>HA-I</i>	<i>HA-J</i>	<i>HA-K</i>	
<i>Sample ID:</i>		<i>HA-C(S-1)</i>	<i>HA-D(S-1)</i>	<i>HA-E(S-1)</i>	<i>HA-F(S-2)</i>	<i>HA-G(S-2)</i>	<i>HA-H(S-1)</i>	<i>HA-I(S-2)</i>	<i>HA-J(S-2)</i>	<i>HA-K(S-2)</i>	
<i>Sample Date:</i>		12/1/1995	12/1/1995	12/1/1995	12/1/1995	11/30/1995	12/1/1995	11/30/1995	11/30/1995	11/30/1995	
<i>Sample Depth:</i>		1 to 2 ft BGS	1.5 to 2.5 ft BGS	1.5 to 2.5 ft BGS	2.5 to 3.5 ft BGS	2.5 to 3.5 ft BGS	1.5 to 2.5 ft BGS	2.5 to 3.5 ft BGS	2.5 to 3.5 ft BGS	2.5 to 3.5 ft BGS	
<i>elev_MLLW</i>											
<i>elev_NGVD</i>											
<i>Parameters</i>	<i>Units</i>	<i>Cu</i>									
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/kg	61.6	58 U	56 U	57 U	54 U	54 U	60 U	56 U	53 U	54 U
1,1,2-Trichloroethane	µg/kg	233.7	58 U	56 U	57 U	54 U	54 U	60 U	56 U	53 U	54 U
1,1-Dichloroethene	µg/kg	22.9	58 U	56 U	57 U	54 U	54 U	60 U	56 U	53 U	54 U
Carbon tetrachloride	µg/kg	40.5	58 U	56 U	57 U	54 U	54 U	60 U	56 U	53 U	54 U
Chloroform (Trichloromethane)	µg/kg	2500	58 U	56 U	57 U	54 U	54 U	60 U	56 U	53 U	54 U
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg	6969	290 U	280 U	290 U	270 U	300 U	280 U	260 U	270 U	270 U
Tetrachloroethene	µg/kg	93.9	58 U	56 U	57 U	54 U	54 U	60 U	56 U	53 U	54 U
trans-1,2-Dichloroethene	µg/kg	54273	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	536	58 U	56 U	57 U	54 U	54 U	60 U	56 U	53 U	54 U
Vinyl chloride	µg/kg	14.9	58 U	56 U	57 U	54 U	54 U	60 U	56 U	53 U	54 U
<i>Semi-volatile Organic Compounds</i>											
Hexachlorobenzene	µg/kg	1.24	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	14.02	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	125	-	-	-	-	-	-	-	-	-
<i>Metals~Total</i>											
Arsenic	µg/kg	2920	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	14200	-	-	-	-	-	-	-	-	-
Copper	µg/kg	1066	-	-	-	-	-	-	-	-	-
Lead	µg/kg	1620032	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	26.1	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	10693	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	669	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	100764	-	-	-	-	-	-	-	-	-
<i>PCBs</i>											
Total PCBs	µg/kg	92.7	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>											
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HA-L	HA-M	HC08-B113	HC08-EP17	HC08-EP18	HC-N12342526-TP-4-1	TP-1-93	TP-1-95
Sample ID:	HA-L(S-3)	HA-M(S-2)	HC08-B113-S1	HC08-EP17-S1	HC08-EP18-S1	HC-N12342526-TP-4-1	TP-1/S-1(508155)	TP1-S2
Sample Date:	11/30/1995	11/30/1995	10/1/2008	10/24/2008	10/24/2008	9/28/2011	12/8/1993	3/28/1995
Sample Depth:	2.5 to 3.5 ft BGS	2.5 to 3.5 ft BGS	2.5 to 4 ft BGS	0.5 to 2.5 ft BGS	1.5 to 3 ft BGS	2 to 3 ft BGS	1 to 1.5 ft BGS	5 to 6 ft BGS
elev_MLLW						15.5 to 14.5	17.92 to 17.42	
elev_NGVD						9.2 to 8.2	11.6 to 11.1	

Parameters	Units	Cu								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	61.6	55 U	56 U	91 U	1.2 U	560 U	1.1 U	18	-
1,1,2-Trichloroethane	µg/kg	233.7	55 U	56 U	91 U	1.2 U	560 U	1.1 U	1.1 U	-
1,1-Dichloroethene	µg/kg	22.9	55 U	56 U	91 U	1.2 U	560 U	1.1 U	1.1 U	-
Carbon tetrachloride	µg/kg	40.5	55 U	56 U	120	1.2 U	560 U	1.1 U	1.1 U	-
Chloroform (Trichloromethane)	µg/kg	2500	55 U	56 U	920	1.2 U	560 U	1.1 U	7.1	-
cis-1,2-Dichloroethene	µg/kg	NV	-	-	91 U	1.2 U	560 U	1.1 U	1.1 U	-
Methylene chloride	µg/kg	6969	280 U	280 U	220	2.4 U	1100 U	5.6 U	2.8	-
Tetrachloroethene	µg/kg	93.9	170	56 U	12000	6.2	560 U	1.1 U	220	-
trans-1,2-Dichloroethene	µg/kg	54273	-	-	91 U	1.2 U	560 U	1.1 U	1.1 U	-
Trichloroethene	µg/kg	536	55 U	56 U	680	1.2 U	560 U	1.1 U	11	-
Vinyl chloride	µg/kg	14.9	55 U	56 U	91 U	1.2 U	560 U	1.1 U	2.2 U	-
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	1.24	-	-	-	-	-	36 U	-	-
Hexachlorobutadiene	µg/kg	14.02	-	-	9100 / 1600	64 U / 5.9 U	2800 U / 480 U	5.6 U / 36 U	35	-
Pentachlorophenol	µg/kg	125	-	-	-	-	-	180 U	-	-
Metals~Total										
Arsenic	µg/kg	2920	-	-	10000 U	5000 U	11000	11000 U	-	-
Chromium	µg/kg	14200	-	-	25000	16300	44900	29000	-	-
Copper	µg/kg	1066	-	-	114000	13200	34500	-	-	-
Lead	µg/kg	1620032	-	-	33200000	79000 J	497000	5400 U	-	5000 U
Mercury	µg/kg	26.1	-	-	420	40 U	110	270 U	-	-
Nickel	µg/kg	10693	-	-	62000	10000	14000	-	-	-
Thallium	µg/kg	669	-	-	-	-	-	-	-	-
Zinc	µg/kg	100764	-	-	1130000	28000	269000	-	-	-
PCBs										
Total PCBs	µg/kg	92.7	-	-	13000 U	30 U	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-	-	-

TABLE 4.10

**UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>TP-2-93</i>	<i>TP-2-93</i>	<i>TP-2-95</i>	<i>TP-3-93</i>	<i>TP-3-93</i>	<i>TP-3-95</i>	<i>TP-4-93</i>	
<i>Sample ID:</i>		<i>TP2-S1-93</i>	<i>TP-2/S-2(9312-142-1)</i>	<i>TP2-S2</i>	<i>TP-3/S-1(9312-142-3)</i>	<i>TP-3/S-2(9312-142-4)</i>	<i>TP3-S2</i>	<i>TP-4/S-2(9312-142-6)</i>	
<i>Sample Date:</i>		<i>12/8/1993</i>	<i>12/8/1993</i>	<i>3/28/1995</i>	<i>12/8/1993</i>	<i>12/8/1993</i>	<i>3/28/1995</i>	<i>12/8/1993</i>	
<i>Sample Depth:</i>		<i>1 to 1.5 ft bgs</i>	<i>4 to 4.5 ft BGS</i>	<i>5 to 6 ft BGS</i>	<i>1.5 to 2 ft BGS</i>	<i>3 to 3.5 ft BGS</i>	<i>5 to 6 ft BGS</i>	<i>4 to 4.5 ft BGS</i>	
<i>elev_MLLW</i>		<i>17.92 to 17.42</i>	<i>14.92 to 14.42</i>		<i>17.42 to 16.92</i>	<i>15.92 to 15.42</i>	<i>12.92 to 11.92</i>	<i>14.92 to 14.42</i>	
<i>elev_NGVD</i>		<i>11.6 to 11.1</i>	<i>8.6 to 8.1</i>		<i>11.1 to 10.6</i>	<i>9.6 to 9.1</i>	<i>6.6 to 5.6</i>	<i>8.6 to 8.1</i>	
Parameters	Units	Cu							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	61.6	-	53 U	-	55 U	54 U	2300 U	54 U
1,1,2-Trichloroethane	µg/kg	233.7	-	53 U	-	55 U	54 U	1100 U	54 U
1,1-Dichloroethene	µg/kg	22.9	-	53 U	-	55 U	54 U	1100 U	54 U
Carbon tetrachloride	µg/kg	40.5	11 U	79	-	55 U	54 U	1100 U	990
Chloroform (Trichloromethane)	µg/kg	2500	7.1	2200	-	240	230	1100 U	11000
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	1100 U	-
Methylene chloride	µg/kg	6969	2.8	260	-	280 U	270 U	6800 U	160 J
Tetrachloroethene	µg/kg	93.9	220	1100	-	150	700	1100 U	3600
trans-1,2-Dichloroethene	µg/kg	54273	-	-	-	-	-	1100 U	-
Trichloroethene	µg/kg	536	11	53 U	-	55 U	54 U	1100 U	190
Vinyl chloride	µg/kg	14.9	-	53 U	-	55 U	54 U	6800 U	54 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	1.24	-	430	-	410	1300	3700 U	180 J
Hexachlorobutadiene	µg/kg	14.02	35	890	-	260	2000	3700 U / 3700 U	340
Pentachlorophenol	µg/kg	125	-	140 J	-	180 U	1500	19000 U	180 U
Metals~Total									
Arsenic	µg/kg	2920	-	570 U	-	6100	4500	-	3400
Chromium	µg/kg	14200	-	16000	-	18000	60000	-	8400
Copper	µg/kg	1066	-	570000	-	23000	74000	-	15000
Lead	µg/kg	1620032	-	2800000 D3	5000 U	210000 D3	5000000 D3	5000 U	5200000 D3
Mercury	µg/kg	26.1	-	100 U	-	110 U	110 U	-	110 U
Nickel	µg/kg	10693	-	15000	-	15000	66000	-	7200
Thallium	µg/kg	669	-	1300 U	-	270 U	270 U	-	270 U
Zinc	µg/kg	100764	-	180000	-	34000	490000	-	49000
PCBs									
Total PCBs	µg/kg	92.7	-	3500 UJ	-	3700 UJ	3600 UJ	40 U	3600 UJ
Pesticides									
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	TP-4-95	TP-5-95	TP-5-95	TP-6-95	TP-9-95	TP-10-95	NL-6	NL-6		
Sample ID:	TP4-S2	TP5-S1	TP5-S1(DUP)	TP6-S2	TP9-S2	TP10-S2	S-053105-JS-NL6-001	S-053105-JS-NL6-002		
Sample Date:	3/28/1995	3/28/1995	3/28/1995	3/28/1995	3/28/1995	3/28/1995	5/31/2005	5/31/2005		
Sample Depth:	5 to 6 ft BGS	2.5 to 3.5 ft BGS	2.5 to 3.5 ft BGS	5 to 6 ft BGS	5 to 6 ft BGS	5 to 6 ft BGS	0 to 2 ft bgs	3 to 4 ft bgs		
elev_MLLW		15.42 to 14.42	15.42 to 14.42	12.92 to 11.92	12.92 to 11.92		17.92 to 15.92	14.92 to 13.92		
elev_NGVD		9.1 to 8.1	9.1 to 8.1 (Duplicate)	6.6 to 5.6	6.6 to 5.6		11.6 to 9.6	8.6 to 7.6		
Parameters	Units	Cu								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	61.6	-	5200 U	-	5800 U	100 U	-	6 U	8 U
1,1,2-Trichloroethane	µg/kg	233.7	-	2600 U	-	2900 U	50 U	-	6 U	8 U
1,1-Dichloroethene	µg/kg	22.9	-	2600 U	-	2900 U	50 U	-	6 U	8 U
Carbon tetrachloride	µg/kg	40.5	-	2600 U	-	2900 U	50 U	-	6 U	8 U
Chloroform (Trichloromethane)	µg/kg	2500	-	2600 U	-	2900 U	50 U	-	6 U	13
cis-1,2-Dichloroethene	µg/kg	NV	-	2600 U	-	2900 U	50 U	-	6 U	8 U
Methylene chloride	µg/kg	6969	-	16000 U	-	17000 U	300 U	-	3.5 J	8 U
Tetrachloroethene	µg/kg	93.9	-	2600 U	-	2900 U	50 U	-	9.0	110
trans-1,2-Dichloroethene	µg/kg	54273	-	-	-	2900 U	50 U	-	6 U	8 U
Trichloroethene	µg/kg	536	-	2600 U	-	2900 U	50 U	-	6 U	18
Vinyl chloride	µg/kg	14.9	-	16000 U	-	17000 U	300 U	-	6 U	8 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	1.24	-	3500 U	-	3800 U	180 U	-	1800 U	2500 U
Hexachlorobutadiene	µg/kg	14.02	-	3500 U / 3500 U	-	3800 U / 3800 U	180 U / 180 U	-	1800 U	2500 U
Pentachlorophenol	µg/kg	125	-	18000 U	-	20000 U	920 U	-	3600 UJ	4900 U
Metals~Total										
Arsenic	µg/kg	2920	-	-	-	-	-	-	5500	45300
Chromium	µg/kg	14200	-	-	-	-	-	-	19700	48100
Copper	µg/kg	1066	-	-	-	-	-	-	58100	1200000
Lead	µg/kg	1620032	5000 U	5000 U	5000 U	25000	27000	5000 U	454000	6600000
Mercury	µg/kg	26.1	-	-	-	-	-	-	100 U	300
Nickel	µg/kg	10693	-	-	-	-	-	-	33000	146000
Thallium	µg/kg	669	-	-	-	-	-	-	100 U	100 U
Zinc	µg/kg	100764	-	-	-	-	-	-	75300 J	247000 J
PCBs										
Total PCBs	µg/kg	92.7	-	35 U	-	41 U	36 U	-	9100 U	13000 U
Pesticides										
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:			NL-7	NL-7	NL-8	NL-9	NL-10	NL-11	NL-12
Sample ID:			S-053105-JS-NL7-001	S-053105-JS-NL7-002	S-053105-JS-NL8-001	S-060105-JS-NL9-001	S-060105-JS-NL10-001	S-060205-JS-NL11-001	S-060205-JS-NL12-001
Sample Date:			5/31/2005	5/31/2005	5/31/2005	6/1/2005	6/1/2005	6/2/2005	6/2/2005
Sample Depth:			1 to 3 ft bgs	3 to 4 ft bgs	1 to 4 ft bgs	1 to 2 ft bgs	3 to 5 ft bgs	1 to 4 ft bgs	1 to 3 ft bgs
elev_MLLW			16.92 to 14.92	14.92 to 13.92	16.92 to 13.92	16.92 to 15.92	14.92 to 12.92	16.92 to 13.92	16.92 to 14.92
elev_NGVD			10.6 to 8.6	8.6 to 7.6	10.6 to 7.6	10.6 to 9.6	8.6 to 6.6	10.6 to 7.6	10.6 to 8.6
Parameters			Units	Cu					
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	61.6	7 U	9 U	R	6 U	5 U	5 U	5 UJ
1,1,2-Trichloroethane	µg/kg	233.7	7 U	9 U	8 U	6 U	5 U	5 U	5 UJ
1,1-Dichloroethene	µg/kg	22.9	7 U	9 U	8 U	6 U	5 U	5 U	5 UJ
Carbon tetrachloride	µg/kg	40.5	7 U	9 U	8 U	6 U	5 U	5 U	5 UJ
Chloroform (Trichloromethane)	µg/kg	2500	7.6 J	9 U	8 U	4.0 J	5 U	3.2 J	5 UJ
cis-1,2-Dichloroethene	µg/kg	NV	7 U	9 U	45 J	6 U	5 U	5 U	5 UJ
Methylene chloride	µg/kg	6969	22 J	8.1 J	8 U	23 J	5 U	5 U	5 U
Tetrachloroethene	µg/kg	93.9	7.0 J	6.1 J	110 J	0.97 J	2.5 J	12	10 J
trans-1,2-Dichloroethene	µg/kg	54273	7 U	9 U	8 U	6 U	5 U	5 U	5 UJ
Trichloroethene	µg/kg	536	5.0 J	9 U	27 J	6 U	5 U	3.3 J	5.1 J
Vinyl chloride	µg/kg	14.9	7 U	9 U	8 U	6 U	5 U	5 U	5 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	1.24	67000 U	560 J	3100 U	1900 U	350 U	1800 U	1800 U
Hexachlorobutadiene	µg/kg	14.02	67000 U	3100 U	3100 U	1900 U	350 U	1800 U	1800 U
Pentachlorophenol	µg/kg	125	130000 U	6100 U	6300 U	3800 U	700 U	3500 U	3500 U
Metals~Total									
Arsenic	µg/kg	2920	228000	26900	28700	10600	1100	3000	2600
Chromium	µg/kg	14200	8900	196000	2800	18400	9500	7100 J	11400 J
Copper	µg/kg	1066	136000	7070000	20100	213000	13600	19400	19600
Lead	µg/kg	1620032	59500	1370000	49200	239000 J	130000 J	354000	269000
Mercury	µg/kg	26.1	100 U	200 U	200 U	100 U	100 U	100 U	100 U
Nickel	µg/kg	10693	70600	870000	129000	37900	6800	9400 J	10300 J
Thallium	µg/kg	669	150	200 U	200 U	100 UJ	100 UJ	100 U	100 U
Zinc	µg/kg	100764	106000 J	2540000 J	96600 J	69300	23000	102000	41600
PCBs									
Total PCBs	µg/kg	92.7	4700 U	440	780 U	1100 U	53 U	4500 U	54 U
Pesticides									
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	NL-18	NL-18	NL-19	NL-20	NL-21	NL-22		
Sample ID:	S-080106-LH-NL18-001	S-080106-LH-NL18-002	S-072706-LH-NL19-001	S-072706-LH-NL20-001	S-072506-LH-NL21-001	S-072506-LH-NL22-001		
Sample Date:	8/1/2006	8/1/2006	7/27/2006	7/27/2006	7/25/2006	7/25/2006		
Sample Depth:	2 to 4 ft bgs	4 to 6 ft bgs	2 to 4 ft bgs	2 to 4 ft bgs	2 to 4 ft bgs	0 to 4 ft bgs		
elev_MLLW	15.92 to 13.92	13.92 to 11.92	15.92 to 13.92	15.92 to 13.92	15.92 to 13.92	17.92 to 13.92		
elev_NGVD	9.6 to 7.6	7.6 to 5.6	9.6 to 7.6	9.6 to 7.6	9.6 to 7.6	11.6 to 7.6		
Parameters								
	Units	Cu						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	61.6	2.1 J	1.6 U	1.3 U	1.4 U	6.01 U	5.88 U
1,1,2-Trichloroethane	µg/kg	233.7	0.56 U	0.62 U	0.50 U	0.55 U	1.50 U	1.47 U
1,1-Dichloroethene	µg/kg	22.9	0.92 U	1 U	0.83 U	0.90 U	3.61 U	3.53 U
Carbon tetrachloride	µg/kg	40.5	0.93 U	1 U	0.84 U	0.91 U	6.01 U	5.88 U
Chloroform (Trichloromethane)	µg/kg	2500	4.1 J	1.9 U	1.5 U	1.6 U	3.01 U	1.52 J
cis-1,2-Dichloroethene	µg/kg	NV	1.2 U	1.4 U	1.1 U	1.2 U	3.61 U	3.53 U
Methylene chloride	µg/kg	6969	5.3 U	6.0 U	4.8 U	5.2 U	1.84 J	2.29 J
Tetrachloroethene	µg/kg	93.9	44	71	3.4 J	0.62 U	2.40 U	4.25
trans-1,2-Dichloroethene	µg/kg	54273	1.6 U	1.8 U	1.4 U	1.5 U	3.01 U	2.94 U
Trichloroethene	µg/kg	536	9.1	5.5 J	0.75 UJ	0.81 UJ	3.01 U	11.1
Vinyl chloride	µg/kg	14.9	2.0 U	2.2 U	1.8 U	1.9 U	3.01 U	2.94 U
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	1.24	97	2.1 U	1.7 U	1.8 U	0.738 J	989
Hexachlorobutadiene	µg/kg	14.02	150	21	9.4	0.91 U	12.0 U	7.09 J
Pentachlorophenol	µg/kg	125	46	4.3 U	3.5 U	3.8 U	32.4 U	33.3 U
Metals~Total								
Arsenic	µg/kg	2920	5500	5600	2000	950	2350	8110
Chromium	µg/kg	14200	34700	9600	6000	5500	9480	23600
Copper	µg/kg	1066	29800	25500	10000	7100	13800	186000
Lead	µg/kg	1620032	1140000	70500	21500	6400	23100	5860000
Mercury	µg/kg	26.1	220	92 U	22 U	190	404 U	57 J
Nickel	µg/kg	10693	23500	24700	6200 J	7000 J	9690	152000
Thallium	µg/kg	669	27 J	28 U	23 U	25 U	584 U	666 U
Zinc	µg/kg	100764	85500	51900	19100 J	19900 J	42900	425000
PCBs								
Total PCBs	µg/kg	92.7	110 U	13 U	10 U	11 U	54.0 U	61.7 U
Pesticides								
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>								
<i>Sample ID:</i>								
<i>Sample Date:</i>								
<i>Sample Depth:</i>								
<i>elev_MLLW</i>								
<i>elev_NGVD</i>								
		<i>NTD-1</i>	<i>NTD-1</i>	<i>NTD-2</i>	<i>Pier25-32</i>	<i>PS-3</i>	<i>SP-1</i>	
		<i>S-112906-ILM-NTD1-001</i>	<i>S-011007-TS-NTD1-001</i>	<i>S-112906-ILM-NTD2-001</i>	<i>SE-040406-PIER25-32-001</i>	<i>PS-3</i>	<i>S-062306-LH-SP1-001</i>	
		<i>11/29/2006</i>	<i>1/10/2007</i>	<i>11/29/2006</i>	<i>4/4/2006</i>	<i>9/21/1989</i>	<i>6/23/2006</i>	
		<i>3 to 4 ft bgs</i>	<i>3 to 5 ft bgs</i>	<i>3 to 4.5 ft bgs</i>	<i>0 to 2 ft bgs</i>	<i>1 ft BGS</i>	<i>0 to 2 ft bgs</i>	
		<i>14.92 to 13.92</i>	<i>14.92 to 12.92</i>	<i>15.02 to 13.52</i>	<i>15 to 13</i>		<i>17.92 to 15.92</i>	
		<i>8.6 to 7.6</i>	<i>8.6 to 6.6</i>	<i>8.7 to 7.2</i>	<i>8.7 to 6.7</i>		<i>11.6 to 9.6</i>	
Parameters	Units	Cu						
Volatiles Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	61.6	-	-	-	1.5 U	-	5.04 U
1,1,2-Trichloroethane	µg/kg	233.7	-	-	-	0.59 U	-	1.26 U
1,1-Dichloroethene	µg/kg	22.9	-	-	-	0.98 U	-	3.03 U
Carbon tetrachloride	µg/kg	40.5	-	-	-	0.99 U	-	5.04 U
Chloroform (Trichloromethane)	µg/kg	2500	-	-	-	1.8 U	-	2.52 U
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	1.3 U	-	3.03 U
Methylene chloride	µg/kg	6969	-	-	-	5.7 U	-	3.53 U
Tetrachloroethene	µg/kg	93.9	-	-	-	0.67 U	-	3.33
trans-1,2-Dichloroethene	µg/kg	54273	-	-	-	1.7 U	-	2.52 U
Trichloroethene	µg/kg	536	-	-	-	0.88 U	-	1.57 J
Vinyl chloride	µg/kg	14.9	-	-	-	4.2 U	-	2.52 U
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	1.24	-	-	-	-	-	1.09 U
Hexachlorobutadiene	µg/kg	14.02	-	-	-	-	-	5.04 U
Pentachlorophenol	µg/kg	125	-	-	-	-	-	54.8 U
Metals~Total								
Arsenic	µg/kg	2920	-	-	-	-	-	2290 J
Chromium	µg/kg	14200	-	-	-	-	-	25600 J
Copper	µg/kg	1066	-	-	-	-	-	13900 J
Lead	µg/kg	1620032	-	-	-	-	-	4450 J
Mercury	µg/kg	26.1	-	-	-	-	-	64.5 J
Nickel	µg/kg	10693	-	-	-	-	-	28700 J
Thallium	µg/kg	669	-	-	-	-	-	R
Zinc	µg/kg	100764	-	-	-	-	-	29800 J
PCBs								
Total PCBs	µg/kg	92.7	1700	1400	3000	-	24300	54.6 U
Pesticides								
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8		
Sample ID:	S-070706-DR-SP2-001	S-061406-LH-SP3-001	S-062006-DR-SP4-001	S-060206-DR-SP5-001	S-060506-DR-SP6-001	S-062806-LH-SP7-001	S-071306-LH-SP8-001		
Sample Date:	7/7/2006	6/14/2006	6/20/2006	6/2/2006	6/5/2006	6/28/2006	7/13/2006		
Sample Depth:	0 to 2 ft bgs	0 to 2 ft bgs	0 to 2 ft bgs	0 to 2 ft bgs	0 to 2 ft bgs	0 to 2 ft bgs	0 to 2 ft bgs		
elev_MLLW	17.92 to 15.92	17.92 to 15.92	17.92 to 15.92	17.92 to 15.92	17.92 to 15.92	17.92 to 15.92	17.92 to 15.92		
elev_NGVD	11.6 to 9.6	11.6 to 9.6	11.6 to 9.6	11.6 to 9.6	11.6 to 9.6	11.6 to 9.6	11.6 to 9.6		
Parameters	Units	Cu							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	61.6	1.3 U	103 UJ	6.21 U	1.4 U	1.3 U	1.5 U	5.53 U
1,1,2-Trichloroethane	µg/kg	233.7	0.51 U	103 UJ	1.55 U	0.52 U	0.50 U	0.59 U	1.38 U
1,1-Dichloroethene	µg/kg	22.9	0.84 U	103 UJ	3.73 U	0.86 U	8.0	0.97 U	3.32 U
Carbon tetrachloride	µg/kg	40.5	0.85 U	103 UJ	6.21 U	17	1.2 J	0.99 U	5.53 U
Chloroform (Trichloromethane)	µg/kg	2500	1.5 U	103 UJ	3.11 U	52	7.1	1.8 U	2.76 U
cis-1,2-Dichloroethene	µg/kg	NV	1.1 U	103 UJ	3.73 U	2.8 J	8.8	1.3 U	3.32 U
Methylene chloride	µg/kg	6969	4.9 U	1030 UJ	1.93 J	5.0 U	4.8 U	5.7 U	3.87 U
Tetrachloroethene	µg/kg	93.9	11	5850 J	9.16	2200	2500	15	9.16
trans-1,2-Dichloroethene	µg/kg	54273	1.4 U	103 UJ	3.11 U	1.5 U	3.0 J	1.7 U	2.76 U
Trichloroethene	µg/kg	536	1. J	211 J	3.11 U	280	540	26	2.76 U
Vinyl chloride	µg/kg	14.9	1.8 U	103 UJ	3.11 U	1.8 U	1.8 U	2.1 U	2.76 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	1.24	1.7 U	5.88	1.63	13 J	42 U	9.9 U	1.36 U
Hexachlorobutadiene	µg/kg	14.02	0.85 U	1790 J	1.43 J	920	1100	4.9 U	4.61 J
Pentachlorophenol	µg/kg	125	3.5 U	52.3 U	52.9 U	18 U	87 U	20 U	21.9 J
Metals~Total									
Arsenic	µg/kg	2920	1600	4470 J	1540 J	3200	1800	1800	1890 J
Chromium	µg/kg	14200	26200 J	24000 J	17700 J	19500 J	14700	27900	14200 J
Copper	µg/kg	1066	12200	20500 J	15200 J	23700	10800	13200 J	18900 J
Lead	µg/kg	1620032	1500	17400 J	19900 J	31000 J	8000	2000	5230 J
Mercury	µg/kg	26.1	35 U	375 U	421 U	61 U	46 U	33 U	478 U
Nickel	µg/kg	10693	20700 J	26500 J	21000 J	19200 J	12300	23300	9220 J
Thallium	µg/kg	669	37 J	R	R	44 U	40 J	43 J	578 UJ
Zinc	µg/kg	100764	25400	45800 J	29100 J	48600	23300	30700	25600 J
PCBs									
Total PCBs	µg/kg	92.7	10 U	53.1 U	53.2 U	11 U	10 U	12 U	40.9
Pesticides									
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			SS1-95	SS1-95	SS1-95	SS1-95	WMUA-1	WMUA-2	WMUA-3
<i>Sample ID:</i>			S-1002-110895-JOS-024	S-1002-110895-JOS-025	S-1002-110895-JOS-026	S-1002-110895-JOS-027	S-WMUA1-0-4	S-WMUA2-0-4	S-WMUA3-0-4
<i>Sample Date:</i>			11/8/1995	11/8/1995	11/8/1995	11/8/1995	6/11/2004	6/11/2004	6/10/2004
<i>Sample Depth:</i>			0 to 1 ft bgs	1 to 2 ft bgs	2 to 3 ft bgs	3 to 4 ft bgs	0 to 4 ft bgs	0 to 4 ft bgs	0 to 4 ft bgs
<i>elev_MLLW</i>			17.92 to 16.92	16.92 to 15.92	15.92 to 14.92	14.92 to 13.92	17.92 to 13.92	17.92 to 13.92	17.92 to 13.92
<i>elev_NGVD</i>			11.6 to 10.6	10.6 to 9.6	9.6 to 8.6	8.6 to 7.6	11.6 to 7.6	11.6 to 7.6	11.6 to 7.6
<i>Parameters</i>	<i>Units</i>	<i>Cu</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	61.6	5 U	6 U	6 U	6 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/kg	233.7	5 U	6 U	6 U	6 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/kg	22.9	5 U	6 U	6 U	6 U	5 U	5 U	5 U
Carbon tetrachloride	µg/kg	40.5	5 U	6 U	6 U	6 U	5 U	5 U	5 U
Chloroform (Trichloromethane)	µg/kg	2500	5 U	6 U	6 U	6 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	5 U	5 U	5 U
Methylene chloride	µg/kg	6969	6 U	19 U	14 U	10 U	22.9 U	5 U	22.9 U
Tetrachloroethene	µg/kg	93.9	200 J	11	76 J	10	5.1	19	20
trans-1,2-Dichloroethene	µg/kg	54273	-	-	-	-	5 U	5 U	5 U
Trichloroethene	µg/kg	536	37	4 J	13 J	3 J	5 U	5 U	5 U
Vinyl chloride	µg/kg	14.9	10 U	12 U	11 U	11 U	5 U	5 U	5 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	1.24	-	-	-	-	360 U	350 U	350 U
Hexachlorobutadiene	µg/kg	14.02	-	-	-	-	360 U	350 U	210 J
Pentachlorophenol	µg/kg	125	-	-	-	-	710 U	710 U	700 U
<i>Metals~Total</i>									
Arsenic	µg/kg	2920	-	-	-	-	-	-	-
Chromium	µg/kg	14200	-	-	-	-	-	-	-
Copper	µg/kg	1066	-	-	-	-	-	-	-
Lead	µg/kg	1620032	-	-	-	-	-	-	-
Mercury	µg/kg	26.1	-	-	-	-	-	-	-
Nickel	µg/kg	10693	-	-	-	-	-	-	-
Thallium	µg/kg	669	-	-	-	-	-	-	-
Zinc	µg/kg	100764	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	92.7	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		WMUA-3	WMUA-5	WMUA-5	WMUA-6	WMUA-7	WMUA-7	WMUA-8	WMUA-8	
Sample ID:		S-WMUA3-4-8	S-WMUA5-0-4.0	S-WMUA5-4.0-8.0	S-WMUA6-4-8	S-WMUA7-0-4	S-WMUA7-4-8	S-WMUA8-0-4	S-WMUA8-4-8	
Sample Date:		6/10/2004	6/10/2004	6/10/2004	6/10/2004	6/10/2004	6/10/2004	6/11/2004	6/11/2004	
Sample Depth:		4 to 8 ft bgs	0 to 4 ft bgs	4 to 8 ft bgs	4 to 8 ft bgs	0 to 4 ft bgs	4 to 8 ft bgs	0 to 4 ft bgs	4 to 8 ft bgs	
elev_MLLW		13.92 to 9.92	17.92 to 13.92	13.92 to 9.92	13.92 to 9.92	17.92 to 13.92	13.92 to 9.92	17.92 to 13.92	13.92 to 9.92	
elev_NGVD		7.6 to 3.6	11.6 to 7.6	7.6 to 3.6	7.6 to 3.6	11.6 to 7.6	7.6 to 3.6	11.6 to 7.6	7.6 to 3.6	
Parameters										
	Units	Cu								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	61.6	6 U	5 U	6 U	6 U	6 UJ	6 U	6 U	R
1,1,2-Trichloroethane	µg/kg	233.7	6 U	5 U	6 U	6 U	6 U	6 U	6 U	6 U
1,1-Dichloroethene	µg/kg	22.9	6 U	5 U	6 U	6 U	6 U	6 U	6 U	6 U
Carbon tetrachloride	µg/kg	40.5	6 U	5 U	6 U	6 U	6 U	6 U	6 U	6 U
Chloroform (Trichloromethane)	µg/kg	2500	6 U	5 U	6 U	6 U	6 U	6 U	6 U	6 U
cis-1,2-Dichloroethene	µg/kg	NV	6 U	5 U	6 U	6 U	6 U	6 U	6 U	12
Methylene chloride	µg/kg	6969	6 U	5 U	6 U	6 U	6 U	6 U	6 U	12
Tetrachloroethene	µg/kg	93.9	540	14	1000	930 J	6.4	6000	3000 J	45000 J
trans-1,2-Dichloroethene	µg/kg	54273	6 U	5 U	6 U	6 U	6 U	6 U	6 U	6 U
Trichloroethene	µg/kg	536	9.4	5 U	6 U	35	6 U	340	1100 J	430 J
Vinyl chloride	µg/kg	14.9	6 U	5 U	6 U	6 U	6 U	6 U	6 U	7.5
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	1.24	370 U	1800 U	240 J	530	370 U	370 U	370 U	240 J
Hexachlorobutadiene	µg/kg	14.02	2900	1800 U	19000	28000	370 U	23000	2700	26000
Pentachlorophenol	µg/kg	125	730 U	3500 U	730 U	720 U	740 U	740 U	740 U	740 U
Metals~Total										
Arsenic	µg/kg	2920	-	-	-	-	-	-	-	-
Chromium	µg/kg	14200	-	-	-	-	-	-	-	-
Copper	µg/kg	1066	-	-	-	-	-	-	-	-
Lead	µg/kg	1620032	-	-	-	-	-	-	-	-
Mercury	µg/kg	26.1	-	-	-	-	-	-	-	-
Nickel	µg/kg	10693	-	-	-	-	-	-	-	-
Thallium	µg/kg	669	-	-	-	-	-	-	-	-
Zinc	µg/kg	100764	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	92.7	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		WMUA-9	WMUA-10	WMUA-11	WMUA-11	WMUA-12	WMUA-12	WMUA-13	WMUA-14
Sample ID:		S-WMUA9-0-4	S-WMUA10-0-4	S-081406-BG-WMUA11-025	S-WMUA11-JC-001	S-WMUA12-JC-001	S-WMUA12-JC-002	S-WMUA13-JC-001	S-WMUA14-JS-001
Sample Date:		6/11/2004	6/11/2004	8/14/2006	6/6/2005	6/6/2005	6/6/2005	6/6/2005	6/13/2005
Sample Depth:		0 to 4 ft bgs	0 to 4 ft bgs	3 to 7 ft bgs	5 to 7 ft bgs	3 to 5 ft bgs	7 to 8 ft bgs	5 to 7 ft bgs	6 to 8 ft bgs
elev_MLLW		17.92 to 13.92	17.92 to 13.92	14.92 to 10.92	12.92 to 10.92	14.92 to 12.92	10.92 to 9.92	12.92 to 10.92	11.92 to 9.92
elev_NGVD		11.6 to 7.6	11.6 to 7.6	8.6 to 4.6	6.6 to 4.6	8.6 to 6.6	4.6 to 3.6	6.6 to 4.6	5.6 to 3.6
Parameters									
	Units	Cu							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	61.6	5 U	5 U	1.3 U	5 U	6 U	5 UJ	5 U
1,1,2-Trichloroethane	µg/kg	233.7	5 U	5 U	0.28 U	5 U	6 U	5 U	5 U
1,1-Dichloroethene	µg/kg	22.9	5 U	5 U	0.80 U	5 U	6 U	5 U	5 U
Carbon tetrachloride	µg/kg	40.5	5 U	5 U	0.84 U	5 U	6 U	5 U	5 U
Chloroform (Trichloromethane)	µg/kg	2500	5 U	5 U	1.5 U	5 U	6 U	3.6 J	5 U
cis-1,2-Dichloroethene	µg/kg	NV	5 U	5 U	0.23 U	5 U	6 U	5 U	5 U
Methylene chloride	µg/kg	6969	5 U	5 U	4.8 U	5 U	6 U	5 U	5 U
Tetrachloroethene	µg/kg	93.9	120 J	9.2	8.7	110	37	5300 J	36
trans-1,2-Dichloroethene	µg/kg	54273	5 U	5 U	0.36 U	5 U	6 U	5 U	5 U
Trichloroethene	µg/kg	536	20	5 U	3.0 J	29	22	81	9.4
Vinyl chloride	µg/kg	14.9	5 U	5 U	1.8 U	5 U	6 U	5 U	5 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	1.24	1100	360 U	63 U	360 U	360 U	1800 U	350 U
Hexachlorobutadiene	µg/kg	14.02	300 J	640	54 U	360 U	360 U	1800 U	350 U
Pentachlorophenol	µg/kg	125	2500	710 U	62 U	890 U	910 U	4400 U	870 U
Metals~Total									
Arsenic	µg/kg	2920	-	-	-	-	-	-	-
Chromium	µg/kg	14200	-	-	-	-	-	-	-
Copper	µg/kg	1066	-	-	-	-	-	-	-
Lead	µg/kg	1620032	-	-	-	-	-	-	-
Mercury	µg/kg	26.1	-	-	-	-	-	-	-
Nickel	µg/kg	10693	-	-	-	-	-	-	-
Thallium	µg/kg	669	-	-	-	-	-	-	-
Zinc	µg/kg	100764	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	92.7	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUA-14	WMUA-15	WMUA-16	WMUA-17	WMUA-17	WMUA-18	WMUA-19		
Sample ID:	S-WMUA14-JS-002	S-WMUA15-JS-001	S-WMUA16-001	S-WMUA17-JS-001	S-WMUA17-JS-002	S-WMUA18-JS-001	S-WMUA19-JS-001		
Sample Date:	6/13/2005	6/13/2005	6/14/2005	6/16/2005	6/16/2005	6/7/2005	6/7/2005		
Sample Depth:	6 to 8 ft bgs	6 to 8 ft bgs	6 to 8 ft bgs	6 to 8 ft bgs	9 to 11 ft bgs	5 to 6 ft bgs	4 to 6 ft bgs		
elev_MLLW	11.92 to 9.92	11.92 to 9.92	11.92 to 9.92	11.92 to 9.92	8.92 to 6.92	12.92 to 11.92	13.92 to 11.92		
elev_NGVD	5.6 to 3.6	5.6 to 3.6	5.6 to 3.6	5.6 to 3.6	2.6 to 0.6	6.6 to 5.6	7.6 to 5.6		
Parameters	Units	Cu	(Duplicate)						
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	61.6	5 U	5 U	5 U	5 U	6 U	6 UJ	5 U
1,1,2-Trichloroethane	µg/kg	233.7	5 U	5 U	5 U	5 U	6 U	6 U	5 U
1,1-Dichloroethene	µg/kg	22.9	5 U	5 U	5 U	5 U	1.1 J	6 U	5 U
Carbon tetrachloride	µg/kg	40.5	5 U	5 U	5 U	5 U	6 U	6 U	5 U
Chloroform (Trichloromethane)	µg/kg	2500	5 U	5 U	5 U	4.9 J	6 U	35 J	32
cis-1,2-Dichloroethene	µg/kg	NV	5 U	5 U	5 U	5 U	56	6 U	5 U
Methylene chloride	µg/kg	6969	6.4	5.9	7.0 J	36	5.1 J	130 J	110
Tetrachloroethene	µg/kg	93.9	45 J	130	22 J	6.5	310	26 J	14
trans-1,2-Dichloroethene	µg/kg	54273	5 U	5 U	5 U	5 U	6 U	6 U	5 U
Trichloroethene	µg/kg	536	10	13	3.0 J	5 U	160	5.6 J	5.2
Vinyl chloride	µg/kg	14.9	5 U	5 U	5 U	5 U	2.8 J	6 U	5 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	1.24	350 U	350 U	360 U	360 U	410 U	1900 U	360 U
Hexachlorobutadiene	µg/kg	14.02	190 J	140 J	360 U	360 U	70 J	1900 U	360 U
Pentachlorophenol	µg/kg	125	880 U	880 U	900 U	900 U	1000 U	4700 U	890 U
Metals~Total									
Arsenic	µg/kg	2920	-	-	-	-	-	-	-
Chromium	µg/kg	14200	-	-	-	-	-	-	-
Copper	µg/kg	1066	-	-	-	-	-	-	-
Lead	µg/kg	1620032	-	-	-	-	-	-	-
Mercury	µg/kg	26.1	-	-	-	-	-	-	-
Nickel	µg/kg	10693	-	-	-	-	-	-	-
Thallium	µg/kg	669	-	-	-	-	-	-	-
Zinc	µg/kg	100764	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	92.7	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.867	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUA-21	WMUA-22	WMUA-23	WMUA-24	WMUA-25
Sample ID:	S-071806-LH-WMUA21-001	S-071406-DR-WMUA22-001	S-071106-DR-WMUA23-001	S-071206-DR-WMUA24-001	S-071306-DR-WMUA25-001
Sample Date:	7/18/2006	7/14/2006	7/11/2006	7/12/2006	7/13/2006
Sample Depth:	4 to 6 ft bgs	2 to 4 ft bgs	4 to 6 ft bgs	3 to 5 ft bgs	3 to 5 ft bgs
elev_MLLW	13.92 to 11.92	15.92 to 13.92	13.92 to 11.92	14.92 to 12.92	14.92 to 12.92
elev_NGVD	7.6 to 5.6	9.6 to 7.6	7.6 to 5.6	8.6 to 6.6	8.6 to 6.6

Parameters	Units	Cu				
Volatiles Organic Compounds						
1,1,2,2-Tetrachloroethane	µg/kg	61.6	1.4 U	1.3 U	1.3 U	1.3 U
1,1,2-Trichloroethane	µg/kg	233.7	0.30 U	0.28 U	0.28 U	0.28 U
1,1-Dichloroethene	µg/kg	22.9	0.85 U	0.80 U	0.79 U	0.79 U
Carbon tetrachloride	µg/kg	40.5	0.90 U	0.84 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/kg	2500	1.6 U	1.5 U	1.5 U	1.5 U
cis-1,2-Dichloroethene	µg/kg	NV	0.25 U	0.55 J	0.23 U	0.23 U
Methylene chloride	µg/kg	6969	30	4.8 U	4.8 U	7.4
Tetrachloroethene	µg/kg	93.9	3000	15	4.5 J	9.1
trans-1,2-Dichloroethene	µg/kg	54273	0.38 U	0.36 U	0.35 U	0.35 U
Trichloroethene	µg/kg	536	18	17	2.5 J	19
Vinyl chloride	µg/kg	14.9	1.9 U	1.8 U	1.8 U	1.8 U
Semi-volatile Organic Compounds						
Hexachlorobenzene	µg/kg	1.24	68 U	63 U	63 U	63 U
Hexachlorobutadiene	µg/kg	14.02	3100	54 U	54 U	55 U
Pentachlorophenol	µg/kg	125	66 U	62 U	61 U	62 U
Metals~Total						
Arsenic	µg/kg	2920	-	-	-	-
Chromium	µg/kg	14200	-	-	-	-
Copper	µg/kg	1066	-	-	-	-
Lead	µg/kg	1620032	-	-	-	-
Mercury	µg/kg	26.1	-	-	-	-
Nickel	µg/kg	10693	-	-	-	-
Thallium	µg/kg	669	-	-	-	-
Zinc	µg/kg	100764	-	-	-	-
PCBs						
Total PCBs	µg/kg	92.7	-	-	-	-
Pesticides						
4,4'-DDD	µg/kg	0.867	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>WMUA-25</i>	<i>WMUA-26</i>	<i>WMUA-26</i>	<i>WMUA-28</i>	<i>WMUA-29</i>
<i>Sample ID:</i>	<i>S-071306-LH-WMUA25-001 2nd</i>	<i>S-071306-DR-WMUA26-001</i>	<i>S-071306-DR-WMUA26-002</i>	<i>S-081106-BG-WMUA28-011</i>	<i>S-071906-DR-WMUA29-001</i>
<i>Sample Date:</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	<i>8/11/2006</i>	<i>7/19/2006</i>
<i>Sample Depth:</i>	<i>3 to 5 ft bgs</i>	<i>3 to 5 ft bgs</i>	<i>3 to 5 ft bgs</i>	<i>12 to 14 ft bgs</i>	<i>3 to 5 ft bgs</i>
<i>elev_MLLW</i>	<i>14.92 to 12.92</i>	<i>14.92 to 12.92</i>	<i>14.92 to 12.92</i>	<i>5.92 to 3.92</i>	<i>14.92 to 12.92</i>
<i>elev_NGVD</i>	<i>8.6 to 6.6</i>	<i>8.6 to 6.6</i>	<i>8.6 to 6.6</i> <i>(Duplicate)</i>	<i>-0.4 to -2.4</i>	<i>8.6 to 6.6</i>
<i>Parameters</i>	<i>Units</i>	<i>Cu</i>			
<i>Volatile Organic Compounds</i>					
1,1,2,2-Tetrachloroethane	µg/kg	61.6	1.3 U	1.3 U	1.3 U
1,1,2-Trichloroethane	µg/kg	233.7	0.28 U	0.28 U	0.29 U
1,1-Dichloroethene	µg/kg	22.9	0.79 U	0.80 U	0.82 U
Carbon tetrachloride	µg/kg	40.5	0.84 U	0.84 U	0.87 U
Chloroform (Trichloromethane)	µg/kg	2500	1.5 U	1.5 U	1.6 U
cis-1,2-Dichloroethene	µg/kg	NV	0.23 U	0.23 U	0.24 U
Methylene chloride	µg/kg	6969	4.8 U	4.8 U	5.0 U
Tetrachloroethene	µg/kg	93.9	8.3	6.6	57
trans-1,2-Dichloroethene	µg/kg	54273	0.36 U	0.36 U	0.37 U
Trichloroethene	µg/kg	536	14	5.2	3.1 J
Vinyl chloride	µg/kg	14.9	1.8 U	1.8 U	1.8 U
<i>Semi-volatile Organic Compounds</i>					
Hexachlorobenzene	µg/kg	1.24	63 U	64 U	65 U
Hexachlorobutadiene	µg/kg	14.02	54 U	55 U	56 U
Pentachlorophenol	µg/kg	125	61 U	62 U	64 U
<i>Metals~Total</i>					
Arsenic	µg/kg	2920	-	-	-
Chromium	µg/kg	14200	-	-	-
Copper	µg/kg	1066	-	-	-
Lead	µg/kg	1620032	-	-	-
Mercury	µg/kg	26.1	-	-	-
Nickel	µg/kg	10693	-	-	-
Thallium	µg/kg	669	-	-	-
Zinc	µg/kg	100764	-	-	-
<i>PCBs</i>					
Total PCBs	µg/kg	92.7	-	-	-
<i>Pesticides</i>					
4,4'-DDD	µg/kg	0.867	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-

TABLE 4.10

UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUA-32	WMUA-33	WMUH-1	WMUH-3
Sample ID:	S-081706-BG-WMUA32-099	S-081506-BG-WMUA33-040	S-WMUH1-0-4	S-WMUH3-0-4
Sample Date:	8/17/2006	8/15/2006	6/8/2004	6/9/2004
Sample Depth:	15 to 17 ft bgs	5 to 7 ft bgs	0 to 4 ft bgs	0 to 4 ft bgs
elev_MLLW	2.92 to 0.92	12.92 to 10.92	17.92 to 13.92	17.92 to 13.92
elev_NGVD	-3.4 to -5.4	6.6 to 4.6	11.6 to 7.6	11.6 to 7.6

Parameters	Units	Cu				
Volatiles Organic Compounds						
1,1,2,2-Tetrachloroethane	µg/kg	61.6	1.3 U	1.3 U	0.81 U	0.80 U
1,1,2-Trichloroethane	µg/kg	233.7	0.29 U	0.29 U	0.53 U	0.53 U
1,1-Dichloroethene	µg/kg	22.9	0.80 U	0.81 U	0.87 U	0.86 U
Carbon tetrachloride	µg/kg	40.5	0.84 U	0.85 U	0.89 U	0.88 U
Chloroform (Trichloromethane)	µg/kg	2500	1.5 U	1.5 U	1.58 U	1.56 U
cis-1,2-Dichloroethene	µg/kg	NV	0.23 U	0.23 U	7.3	1.17 U
Methylene chloride	µg/kg	6969	4.8 U	4.9 U	2.9 J	7.8
Tetrachloroethene	µg/kg	93.9	10 J	10	19000 J	66
trans-1,2-Dichloroethene	µg/kg	54273	0.36 U	0.36 U	1.50 U	1.48 U
Trichloroethene	µg/kg	536	0.99 U	5.0	21000 J	9.3
Vinyl chloride	µg/kg	14.9	1.8 U	1.8 U	1.86 U	1.84 U
Semi-volatile Organic Compounds						
Hexachlorobenzene	µg/kg	1.24	64 U	64 U	66.8 U	5000 U
Hexachlorobutadiene	µg/kg	14.02	59 J	55 U	-	-
Pentachlorophenol	µg/kg	125	62 U	62 U	65.0 U	4800 U
Metals~Total						
Arsenic	µg/kg	2920	-	-	-	-
Chromium	µg/kg	14200	-	-	-	-
Copper	µg/kg	1066	-	-	-	-
Lead	µg/kg	1620032	-	-	-	-
Mercury	µg/kg	26.1	-	-	11.5 U	185
Nickel	µg/kg	10693	-	-	-	-
Thallium	µg/kg	669	-	-	-	-
Zinc	µg/kg	100764	-	-	-	-
PCBs						
Total PCBs	µg/kg	92.7	-	-	1200	190
Pesticides						
4,4'-DDD	µg/kg	0.867	-	-	-	-
4,4'-DDE	µg/kg	1.160	-	-	-	-
4,4'-DDT	µg/kg	9.10	-	-	-	-

TABLE 4.10

**UNSATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Notes:

- ⁽¹⁾ Site COCs per Tables 3.1 and 3.2 of the Statement of Work (January 2005). Additional non-COC analytical results are presented in the eDAT located in Appendix F.
- ⁽²⁾ Soil Criteria Protective of Groundwater per Table 4.8.
- BGS Below ground surface.
- MLLW Mean lower low water.
- NGVD National geodetic vertical datum.
- Cu Unsaturated Soil Concentration Protective of Groundwater.
- Cs Saturated Soil Concentration Protective of Groundwater.
- COCs Constituents of concern.
- µg/kg Micrograms per kilogram.
- NV No cleanup level has been established for this parameter.
- * Cleanup Level established at a concentration equal to the practical quantitation limit for that chemical in accordance the WAC 173-340-700 (6)(d). Value may decrease with improvements in analytical methods.
- 500** Concentration exceeds the Soil Criteria.
- Not analyzed.
- U Not detected at associated concentration.
- J Estimated concentration.
- D3 Diluted three times.

TABLE 4.11

NATURE AND EXTENT OF CONTAMINATION IN UNSATURATED SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

	Soil Screening Criteria, C _u ⁽¹⁾ (µg/kg)	Estimated Areal Extent (acres)	Maximum Vertical Extent ⁽²⁾		Maximum Concentration			Summary of Exceedance Factors ⁽³⁾					Total Number of Samples Analyzed		
			Elevation (feet NGVD)	Location	Conc. (µg/kg)	EF	Location	>1 to 10	>10 to 100	>100 to 1000	>1000 to 10,000	>10,000		Total	
Volatiles															
1,1,2,2-Tetrachloroethane	61.6	--	--	--	18	<1	TP-1-93	0	0	0	0	0	0	0	143
1,1,2-Trichloroethane	233.7	--	--	--	U	--	--	0	0	0	0	0	0	0	143
1,1-Dichloroethene	22.9	--	--	--	8.31	<1	EA-2	0	0	0	0	0	0	0	143
Carbon tetrachloride	40.5	--	8.4	TP-4-93	990	24	TP-4-93	2	1	0	0	0	0	3	145
Chloroform	2500	--	8.4	TP-4-93	11,000	4.4	TP-4-93	1	0	0	0	0	0	1	145
Methylene chloride	6969	--	--	--	260	<1	WMUA-18	0	0	0	0	0	0	0	145
Tetrachloroethene	93.9	3.4	-9.3	EA-2	290,000	3,088	BH-A	17	11	3	1	0	32	149	
cis-1,2-Dichloroethene	NV	--	--	--	5,090	--	EA-2	--	--	--	--	--	--	122	
trans-1,2-Dichloroethene	54273	--	--	--	19.8	<1	EA-2	0	0	0	0	0	0	120	
Trichloroethene	536	0.9	-9.3	EA-2	21,000	39	WMUH-1	5	1	0	0	0	6	149	
Vinyl chloride	14.9	--	-9.3	EA-2	2,630	177	EA-2	0	0	1	0	0	1	142	
Summary of VOCs			-9.3	EA-2		3088	BH-A	25	13	4	1	0	43	1546	
Semi-Volatiles															
Hexachlorobenzene	1.24	2.3	5.6	WMUA-5,-6,-8	1,300	1,048	TP-3-93	3	4	11	1	0	19	85	
Hexachlorobutadiene	14.02	--	--	--	28,000	1,997	WMUA-6	11	11	6	4	0	32	88	
Pentachlorophenol	125	0.4	9.4	TP-3-93	2,500	21	WMUA-9	2	2	0	0	0	4	85	
Summary of SVOCs			5.6	WMUA-5/WMUA-6/WMUA-8		1,997	WMUA-6	16	17	17	5	0	55	258	
Pesticides															
4,4'-DDD	0.867	0.000	--	--	U	--	--	0	0	0	0	0	0	4	
4,4'-DDE	1.16	0.1	8.4	BH-14-96	7.3	6	BH-13-96	2	0	0	0	0	2	4	
4,4'-DDT	9.1	0.000	--	--	5.9	<1	BH-14-96	0	0	0	0	0	0	4	
Summary of Pesticides			8.4	BH-14-96		6	BH-13-96	2	0	0	0	0	2	12	
PCBs															
Total PCBs	92.7	0.006	0.7	EA-3	4000	43	EA-3	2	8	2	0	0	10	61	
Dioxins/ Furans															
Dioxin-Furan (TEC of 2,3,7,8 tcdd)	0.00237	--	-3.2	NTD-1	0.845	117	NTD-1	--	--	--	--	--	--	4	
Metals															
Arsenic	2,920	2.5	0.7	EA-3	228,000	78	NL-7	29	4	0	0	0	33	79	
Chromium, total ⁽⁶⁾	14,200	6.5	0.7	EA-3	196,000	14	NL-7	31	1	0	0	0	32	79	
Copper	1,066	8.3	-9.3	EA-2	7,070,000	6,632	NL-7	22	47	7	2	0	78	78	
Lead	1,620,032	0.2	8.1	HCO8-B113	33,200,000	20	TP-2-93	5	2	0	0	0	7	87	
Mercury	26.1	1.5	0.7	EA-3	1,200	46	BH-14-96	11	4	0	0	0	15	81	
Nickel	10,693	6.6	0.7	EA-3	870,000	81	NL-7	34	4	0	0	0	38	78	
Thallium	669	--	--	--	150	<1	NL-7	0	0	0	0	0	0	69	
Zinc	100,764	0.4	6.7	17C	10,200,000	101	17C	13	2	1	0	0	16	78	
Summary of Metals			-9.3	EA-2		6,638	NL-7	145	64	8	2	0	219	629	

Notes:

⁽¹⁾ C_u per Table 4.6⁽²⁾ Greatest depth of concentrations exceeding the C_u for the parameter.⁽³⁾ Exceedance factor calculated as the concentration divided by the C_u for the parameter.

µg/kg Microgram per Kilogram.

sf Square Feet.

NGVD National Geodetic Vertical Datum.

NV No established Cs.

NA Not Applicable.

PCB Polychlorinated Biphenyl.

EF Exceedance factor.

TABLE 4.12

**SUMMARY OF TOTAL PCB CONCENTRATIONS - SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg / kg)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/kg)</i>
<i>Subtidal</i>						
HW-3	SE-012207-BS-HW3-003	Sat. Soil	8 to 10 BML	-51.17 to -53.17		5.43
HW-4	SE-012307-BS-HW-4-003	Sat. Soil	8 to 10 BML	-50.32 to -52.32		4.77
5106-1	SE-092705-5106-1-001	Sat. Soil	6 to 9 BML	-54.6 to -57.6	ND 14	
	SE-092705-5106-1-002	Sat. Soil	10 to 13 BML	-58.6 to -61.6	ND 13	
5106-2	SE-013006-5106-2-002	Sat. Soil	4 to 6 BML	-54.9 to -56.9	ND 12	
	SE-013006-5106-2-003	Sat. Soil	14 to 16 BML	-64.9 to -66.9	ND 13	
5106-3	SE-091905-5106-3-001	Sat. Soil	4 to 6 BML	-52.3 to -54.3	ND 3.67	
	SE-091905-5106-3-002					
	SE-091905-5106-3-003	Sat. Soil	9 to 11 BML	-57.3 to -59.3	ND 3.71	
5106-5	SE-090805-5106-5-001	Sat. Soil	4 to 6 BML	-52.4 to -54.4	ND 3.6	
	SE-090905-5106-5-002	Sat. Soil	9 to 11 BML	-57.4 to -59.4	ND 3.53	
5106-6	SE-101705-5106-6-001	Sat. Soil	8 to 10 BML	-56.9 to -58.9	ND 13	
	SE-101705-5106-6-002	Sat. Soil	13 to 15 BML	-61.9 to -63.9	ND 13	
5106-7	SE-080905-5106-7-001	Sat. Soil	6 to 8 BML	-54 to -56	ND 3.65	
	SE-081005-5106-7-002	Sat. Soil	11 to 13 BML	-59 to -61	ND 3.66	
5106-8	SE-080305-5106-8-001	Sat. Soil	14 to 16 BML	-45.5 to -47.5	ND 3.81	
	SE-080305-5106-8-002					
	SE-080305-5106-8-003	Sat. Soil	19 to 21 BML	-50.5 to -52.5	ND 3.83	
Pier25-1	SE-070105-PIER25-1-002	Sat. Soil	14.5 to 16 BML	-58.4 to -59.9	ND 2.85	
Pier25-2	SE-071305-PIER25-2-001	Sat. Soil	6 to 7.5 BML	-47.5 to -49	63.6	
	SE-071405-PIER25-2-002	Sat. Soil	16 to 17.5 BML	-57.5 to -59	15.5	
Pier25-13	SE-020206-PIER25-13-002	Sat. Soil	10 to 12 BML	-59.1 to -61.1	ND 13	
	SE-020206-PIER25-13-003	Sat. Soil	20 to 22 BML	-69.1 to -71.1	ND 13	
WW-A1R	S-082112-MD-WW-AIR-002	Sat. Soil	4 to 6 ft BGS	-44.5 to -46.5	11	98.7
	S-082112-MD-WW-AIR-003	Sat. Soil	8 to 8 ft BGS	-48.5 to -48.5	ND 6.0	0.279
<i>Intertidal</i>						
<i>N Landfill</i>						
NL-1	S-NL1-5.2-7.2	Sat. Soil	5.2 to 7.2 BGS	6.4 to 4.4	2200	
	S-NL1-10-12	Sat. Soil	10 to 12 BGS	1.6 to -0.4	540	
	S-NL1-15.2-17.2	Sat. Soil	15.2 to 17.2 BGS	-3.6 to -5.6	320	
	S-NL1-20-22.2					
	S-FDNL-1	Sat. Soil	20 to 22.2 BGS	-8.4 to -10.6	ND 6.5	

TABLE 4.12

**SUMMARY OF TOTAL PCB CONCENTRATIONS - SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg / kg)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/kg)</i>
NL-2	S-NL2-6-8	Sat. Soil	6 to 8 BGS	5.6 to 3.6	4000	
	S-NL2-11-13	Sat. Soil	11 to 13 BGS	0.6 to -1.4	890	
	S-NL2-16-18	Sat. Soil	16 to 18 BGS	-4.4 to -6.4	ND 6.7	
	S-NL2-21-23	Sat. Soil	21 to 23 BGS	-9.4 to -11.4	ND 6.7	
	S-FDNL-1A					
NL-2A	S-122106-BI-NL2A-001	Unsat. Soil	2 to 4 BGS	9.7 to 7.7		7.96
	S-020807-ILM-NL2A-001	Sat. Soil	6 to 8 BGS	5.7 to 3.7		39.05
NL-3	S-NL3-6-7.5	Sat. Soil	6 to 7.5 BGS	5.6 to 4.1	570	
	S-NL3-10-12	Sat. Soil	10 to 12 BGS	1.6 to -0.4	730	
	S-NL3-15-7	Sat. Soil	15 to 17 BGS	-3.4 to -5.4	ND 6.8	
	S-NL3-22-24	Sat. Soil	22 to 24 BGS	-10.4 to -12.4	ND 6.9	
NL-4	S-NL4-5.5-7	Sat. Soil	5.5 to 7 BGS	6.1 to 4.6	270	
	S-NL4-10-12	Sat. Soil	10 to 12 BGS	1.6 to -0.4	1400	
	S-NL4-15-17	Sat. Soil	15 to 17 BGS	-3.4 to -5.4	ND 6.5	
	S-NL4-20-22	Sat. Soil	20 to 22 BGS	-8.4 to -10.4	ND 6.8	
NL-5	S-NL5-6-7.4	Sat. Soil	6 to 7.4 BGS	5.6 to 4.2	600	
	S-NL5-10-12	Sat. Soil	10 to 12 BGS	1.6 to -0.4	140	
	S-NL5-15.4-17.4	Sat. Soil	15.4 to 17.4 BGS	-3.8 to -5.8	ND 7.4	
	S-NL5-20.4-22.4	Sat. Soil	20.4 to 22.4 BGS	-8.8 to -10.8	ND 6.7	
NL-6	S-053105-JS-NL6-001	Unsat. Soil	0 to 2 BGS	11.6 to 9.6	ND 9100	
	S-053105-JS-NL6-002	Unsat. Soil	3 to 4 BGS	8.6 to 7.6	ND 13000	
	S-053105-JS-NL6-003	Sat. Soil	4 to 8 BGS	7.6 to 3.6	ND 190000	
	S-053105-JS-NL6-004	Sat. Soil	8 to 9 BGS	3.6 to 2.6	ND 92000	
	S-053105-JS-NL6-005	Sat. Soil	12 to 14 BGS	-0.4 to -2.4	ND 64	
	S-053105-JS-NL6-006	Sat. Soil	16 to 17 BGS	-4.4 to -5.4	63	
	S-053105-JS-NL6-007	Sat. Soil	17 to 19 BGS	-5.4 to -7.4	ND 63	
NL-7	S-053105-JS-NL7-001	Unsat. Soil	1 to 3 BGS	10.6 to 8.6	ND 4700	
	S-053105-JS-NL7-002	Unsat. Soil	3 to 4 BGS	8.6 to 7.6	440	
	S-053105-JS-NL7-003	Sat. Soil	5 to 8 BGS	6.6 to 3.6	210	
	S-053105-JS-NL7-004	Sat. Soil	12 to 14 BGS	-0.4 to -2.4	ND 110	
	S-053105-JS-NL7-005	Sat. Soil	17 to 19 BGS	-5.4 to -7.4	ND 61	
	S-053105-JS-NL7-006	Sat. Soil	23 to 25 BGS	-11.4 to -13.4	ND 61	
NL-8	S-053105-JS-NL8-001	Unsat. Soil	1 to 4 BGS	10.6 to 7.6	ND 780	
	S-053105-JS-NL8-002	Sat. Soil	10 to 11 BGS	1.6 to 0.6	ND 770	
	S-060105-JS-NL8-003	Sat. Soil	13 to 15 BGS	-1.4 to -3.4	ND 170	
	S-060105-JS-NL8-004	Sat. Soil	18 to 20 BGS	-6.4 to -8.4	ND 60	
	S-060105-JS-NL8-005					
	S-060105-JS-NL8-006	Sat. Soil	22 to 23 BGS	-10.4 to -11.4	ND 62	

TABLE 4.12

**SUMMARY OF TOTAL PCB CONCENTRATIONS - SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg / kg)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/kg)</i>
NL-9	S-060105-JS-NL9-001	Unsat. Soil	1 to 2 BGS	10.6 to 9.6	ND 1100	
	S-060105-JS-NL9-002	Sat. Soil	5 to 6 BGS	6.6 to 5.6	ND 8900	
	S-060105-JS-NL9-003	Sat. Soil	13 to 15 BGS	-1.4 to -3.4	ND 690	
	S-060105-JS-NL9-004	Sat. Soil	18 to 20 BGS	-6.4 to -8.4	ND 60	
	S-060105-JS-NL9-005	Sat. Soil	20 to 21 BGS	-8.4 to -9.4	ND 61	
	S-060105-JS-NL9-006					
NL-10	S-060105-JS-NL10-001	Unsat. Soil	3 to 5 BGS	8.6 to 6.6	ND 53	
	S-060105-JS-NL10-002	Sat. Soil	6 to 7 BGS	5.6 to 4.6	ND 60	
	S-060105-JS-NL10-003	Sat. Soil	13 to 15 BGS	-1.4 to -3.4	ND 67	
	S-060105-JS-NL10-004	Sat. Soil	21.5 to 22.5 BGS	-9.9 to -10.9	ND 63	
	S-060205-JS-NL10-005	Sat. Soil	23.5 to 25 BGS	-11.9 to -13.4	ND 69	
NL-11	S-060205-JS-NL11-001	Unsat. Soil	1 to 4 BGS	10.6 to 7.6	ND 4500	
	S-060205-JS-NL11-002	Sat. Soil	5 to 6 BGS	6.6 to 5.6	ND 48000	
	S-060205-JS-NL11-003	Sat. Soil	9 to 11 BGS	2.6 to 0.6	ND 9400	
	S-060205-JS-NL11-004	Sat. Soil	14 to 16 BGS	-2.4 to -4.4	ND 1200	
	S-060205-JS-NL11-005	Sat. Soil	20 to 21 BGS	-8.4 to -9.4	ND 61	
	S-060205-JS-NL11-006	Sat. Soil	23 to 25 BGS	-11.4 to -13.4	ND 64	
NL-12	S-060205-JS-NL12-001	Unsat. Soil	1 to 3 BGS	10.6 to 8.6	ND 54	
	S-060205-JS-NL12-002	Sat. Soil	6 to 7 BGS	5.6 to 4.6	ND 63	
	S-060205-JS-NL12-003	Sat. Soil	14.5 to 15.5 BGS	-2.9 to -3.9	ND 64	
	S-060205-JS-NL12-004	Sat. Soil	18 to 20 BGS	-6.4 to -8.4	ND 61	
	S-060205-JS-NL12-005	Sat. Soil	23 to 25 BGS	-11.4 to -13.4	ND 66	
NL-13	SE-122005-NL-13-002	Sat. Soil	3 to 4.5 BML	-11.1 to -12.6	ND 3.92	
	SE-122005-NL-13-003	Sat. Soil	6 to 7.5 BML	-14.1 to -15.6	ND 3.81	
	SE-122005-NL-13-004	Sat. Soil	9 to 10.5 BML	-17.1 to -18.6	ND 3.66	
	SE-122005-NL-13-005	Sat. Soil	12 to 13.5 BML	-20.1 to -21.6	ND 7.37	
	SE-122105-NL-13-006	Sat. Soil	15 to 16.5 BML	-23.1 to -24.6	ND 3.5	
	SE-122105-NL-13-007	Sat. Soil	18 to 19.5 BML	-26.1 to -27.6	ND 3.51	
	SE-122105-NL-13-008					
	SE-122105-NL-13-009	Sat. Soil	21 to 22.5 BML	-29.1 to -30.6	ND 3.85	
	SE-122105-NL-13-010	Sat. Soil	24 to 25.5 BML	-32.1 to -33.6	ND 3.72	
	SE-122105-NL-13-011	Sat. Soil	27 to 28.5 BML	-35.1 to -36.6	ND 3.61	
	NL-14	SE-121405-NL-14-002	Sat. Soil	4 to 5.5 BML	-14.4 to -15.9	ND 4.02
SE-121405-NL-14-003		Sat. Soil	7 to 8.5 BML	-17.4 to -18.9	ND 4.38	
SE-121405-NL-14-004		Sat. Soil	10 to 11.5 BML	-20.4 to -21.9	ND 6.68	
SE-121405-NL-14-005		Sat. Soil	13 to 14.5 BML	-23.4 to -24.9	ND 5.14	
SE-121505-NL-14-006		Sat. Soil	16 to 17.5 BML	-26.4 to -27.9	ND 5.45	
SE-121505-NL-14-007		Sat. Soil	19 to 20.5 BML	-29.4 to -30.9	ND 4.12	
SE-121505-NL-14-008		Sat. Soil	22 to 23.5 BML	-32.4 to -33.9	ND 3.37	
SE-121505-NL-14-009		Sat. Soil	25 to 26.5 BML	-35.4 to -36.9	ND 3.55	
SE-121505-NL-14-010						
SE-121505-NL-14-011						

TABLE 4.12

**SUMMARY OF TOTAL PCB CONCENTRATIONS - SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg / kg)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/kg)</i>
NL-15	SE-121605-NL-15-002	Sat. Soil	3 to 4.5 BML	-11.1 to -12.6	ND 3.7	
	SE-121605-NL-15-003	Sat. Soil	6 to 7.5 BML	-14.1 to -15.6	ND 4.03	
	SE-121605-NL-15-004	Sat. Soil	9 to 10.5 BML	-17.1 to -18.6	125	
	SE-121605-NL-15-005	Sat. Soil	12 to 14.5 BML	-20.1 to -22.6	ND 3.59	
	SE-121605-NL-15-006	Sat. Soil	15 to 16.5 BML	-23.1 to -24.6	ND 3.62	
	SE-121905-NL-15-007	Sat. Soil	18 to 19.5 BML	-26.1 to -27.6	ND 3.59	
	SE-121905-NL-15-008	Sat. Soil	21 to 22.5 BML	-29.1 to -30.6	ND 3.59	
	SE-121905-NL-15-009	Sat. Soil	24 to 25.5 BML	-32.1 to -33.6	ND 3.75	
	SE-121905-NL-15-010	Sat. Soil	27 to 28.5 BML	-35.1 to -36.6	ND 3.65	
NL-18	S-080106-LH-NL18-001	Unsat. Soil	2 to 4 BGS	9.6 to 7.6	ND 110	
	S-080106-LH-NL18-002	Unsat. Soil	4 to 6 BGS	7.6 to 5.6	ND 13	
	S-080106-LH-NL18-003	Sat. Soil	8 to 10 BGS	3.7 to 1.7	490	145.37
	S-080106-LH-NL18-004	Sat. Soil	12 to 14 BGS	-0.4 to -2.4	ND 12	
	S-080106-LH-NL18-005	Sat. Soil	18 to 20 BGS	-6.4 to -8.4	ND 12	
	S-080106-LH-NL18-006	Sat. Soil	24 to 26 BGS	-12.4 to -14.4	ND 13	
NL-19	S-072706-LH-NL19-001	Unsat. Soil	2 to 4 BGS	9.6 to 7.6	ND 10	
	S-072706-LH-NL19-002	Sat. Soil	4 to 6 BGS	7.6 to 5.6	ND 10	
	S-072706-LH-NL19-003	Sat. Soil	8 to 10 BGS	3.6 to 1.6	ND 13	
	S-072706-LH-NL19-004	Sat. Soil	12 to 14 BGS	-0.4 to -2.4	ND 12	
	S-080106-LH-NL19-005	Sat. Soil	18 to 20 BGS	-6.4 to -8.4	ND 12	
	S-080106-LH-NL19-006	Sat. Soil	24 to 26 BGS	-12.4 to -14.4	ND 12	
NL-20	S-072706-LH-NL20-001	Unsat. Soil	2 to 4 BGS	9.6 to 7.6	ND 11	
	S-072706-LH-NL20-002	Sat. Soil	4 to 6 BGS	7.6 to 5.6	ND 11	
	S-072706-LH-NL20-003	Sat. Soil	8 to 10 BGS	3.6 to 1.6	ND 13	
	S-072706-LH-NL20-004	Sat. Soil	12 to 14 BGS	-0.4 to -2.4	ND 13	
	S-072706-LH-NL20-005	Sat. Soil	18 to 20 BGS	-6.4 to -8.4	ND 12	
	S-072706-LH-NL20-006	Sat. Soil	18 to 20 BGS	-6.4 to -8.4	ND 12	
	S-072706-LH-NL20-007	Sat. Soil	24 to 26 BGS	-12.4 to -14.4	ND 13	
NL-21	S-072506-LH-NL21-001	Unsat. Soil	2 to 4 BGS	9.6 to 7.6	ND 54	
	S-072506-LH-NL21-002	Sat. Soil	4 to 6 BGS	7.6 to 5.6	ND 62.1	
	S-072506-LH-NL21-003	Sat. Soil	8 to 10 BGS	3.6 to 1.6	ND 64.6	
	S-072506-LH-NL21-004	Sat. Soil	12 to 14 BGS	-0.4 to -2.4	ND 79.5	
	S-072606-LH-NL21-005	Sat. Soil	18 to 20 BGS	-6.4 to -8.4	ND 59.6	
	S-072606-LH-NL21-006	Sat. Soil	24 to 26 BGS	-12.4 to -14.4	ND 66	
NL-22	S-072506-LH-NL22-001	Unsat. Soil	0 to 4 BGS	11.6 to 7.6	ND 61.7	
	S-072506-LH-NL22-002	Sat. Soil	4 to 8 BGS	7.6 to 3.6	ND 73.7	
	S-072506-LH-NL22-003	Sat. Soil	10 to 12 BGS	1.6 to -0.4	ND 65.3	
	S-072506-LH-NL22-004	Sat. Soil	14 to 16 BGS	-2.4 to -4.4	ND 83.4	
	S-072506-LH-NL22-005	Sat. Soil	18 to 20 BGS	-6.4 to -8.4	ND 60.3	
	S-072506-LH-NL22-006	Sat. Soil	22 to 24 BGS	-10.4 to -12.4	ND 70.6	
	S-072506-LH-NL22-007	Sat. Soil	24 to 26 BGS	-12.4 to -14.4	ND 65.5	
NL-24	SE-011507-BS-NL-24-002	Sat. Soil	5 to 8 BML	-35.7 to -38.7	ND 14	
	SE-011507-BS-NL-24-003	Sat. Soil	10 to 13 BML	-40.7 to -43.7	ND 13	3.6
	SE-011507-BS-NL-24-004	Sat. Soil	15 to 18 BML	-45.7 to -48.7	ND 13	
	SE-011507-BS-NL-24-005	Sat. Soil	20 to 23 BML	-50.7 to -53.7	ND 13	

TABLE 4.12

**SUMMARY OF TOTAL PCB CONCENTRATIONS - SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg / kg)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/kg)</i>
NL-25	SE-011807-ILM-NL-25-002	Sat. Soil	5 to 8 BML	-38.8 to -41.8	ND 13	21.26
	SE-011807-ILM-NL-25-003					
	SE-011807-ILM-NL-25-004					
	SE-011807-ILM-NL-25-005					
	SE-011907-ILM-NL-25-006					
NL-26	SE-011707-ILM-NL-26-002	Sat. Soil	5 to 8 BML	-31.7 to -34.7	ND 12	10.9
	SE-011707-ILM-NL-26-003					
	SE-011807-ILM-NL-26-004					
	SE-011807-ILM-NL-26-005					
	SE-011807-ILM-NL-26-006					
NL-27	SE-011907-BS-NL-27-002	Sat. Soil	6 to 8 BML	-17.32 to -19.32		359.26
NL-28	SE-011707-BS-NL-28-002	Sat. Soil	5 to 8 BML	-14.72 to -17.72	ND 1500	2254.86
	SE-011707-BS-NL-28-003	Sat. Soil	10 to 13 BML	-19.7 to -22.7	ND 13	118.82
	SE-011707-BS-NL-28-004	Sat. Soil	15 to 18 BML	-24.7 to -27.7	ND 12	22.8
	SE-011707-BS-NL-28-005	Sat. Soil	20 to 23 BML	-29.7 to -32.7	ND 13	
NL-29	SE-011807-BS-NL-29-002	Sat. Soil	5 to 8 BML	-15.82 to -18.82	ND 2000	349.13
	SE-011807-BS-NL-29-003	Sat. Soil	10 to 13 BML	-20.8 to -23.8	ND 13	67.41
	SE-011807-BS-NL-29-004	Sat. Soil	15 to 18 BML	-25.8 to -28.8	ND 12	
	SE-011807-BS-NL-29-005	Sat. Soil	20 to 23 BML	-30.8 to -33.8	ND 13	
NL-30	SE-011907-BS-NL-30-002	Sat. Soil	5 to 8 BML	-34.6 to -37.6	ND 13	
	SE-011907-BS-NL-30-003	Sat. Soil	10 to 13 BML	-39.6 to -42.6	ND 13	
	SE-011907-ILM-NL-30-004	Sat. Soil	15 to 18 BML	-44.6 to -47.6	ND 13	
	SE-011907-ILM-NL-30-005	Sat. Soil	20 to 23 BML	-49.6 to -52.6	ND 12	
17C	S-071312-KB-17C-001	Unsat. Soil	5 to 5 ft BGS	6.7 to 6.7	ND 4700	1056
	S-071312-KB-17C-002	Sat. Soil	15.2 to 15.2 ft BGS	-3.5 to -3.5	ND 83	1705
	S-071312-KB-17C-003	Sat. Soil	18.5 to 18.5 ft BGS	-6.8 to -6.8	ND 20	
	S-071412-KB-17C-004	Sat. Soil	25.5 to 25.5 ft BGS	-13.8 to -13.8	ND 20	0.155
	S-071412-KB-FD001	Sat. Soil	25.5 to 25.5 ft BGS	-13.8 to -13.8	ND 20	
	S-071412-KB-17C-005	Sat. Soil	35.2 to 35.2 ft BGS	-23.5 to -23.5	ND 9.9	
	S-071412-KB-17C-006	Sat. Soil	45.1 to 45.1 ft BGS	-33.4 to -33.4	ND 20	
	S-071512-KB-17C-007	Sat. Soil	110.8 to 110.8 ft BGS	-99.1 to -99.1	ND 20	
<u>Navy-Todd Dump</u>						
NTD-1	S-112906-ILM-NTD1-001	Unsat. Soil	3 to 4 BGS	8.7 to 7.7	1700	2888.31
	S-011007-TS-NTD1-001	Unsat. Soil	3 to 5 BGS	8.7 to 6.7	1400	2557.92
	S-011007-TS-NTD1-002	Sat. Soil	13 to 15 BGS	-1.2 to -3.2	28000	20089.74
	S-011007-TS-NTD1-003	Sat. Soil	23 to 25 BGS	-11.2 to -13.2	ND 13	
	S-011007-TS-NTD1-004					
	S-011007-TS-NTD1-005	Sat. Soil	33 to 35 BGS	-21.2 to 23.2	ND 12	
	S-011007-TS-NTD1-006	Sat. Soil	43 to 45 BGS	-21.2 to 23.2	ND 12	
	S-011107-TS-NTD1-007	Sat. Soil	53 to 55 BGS	-41.2 to -43.2	ND 13	
	S-011107-TS-NTD1-008	Sat. Soil	63 to 65 BGS	-51.2 to -53.2	ND 13	
	S-011107-TS-NTD1-009	Sat. Soil	73 to 75 BGS	-61.2 to -63.2	ND 13	

TABLE 4.12

**SUMMARY OF TOTAL PCB CONCENTRATIONS - SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg / kg)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/kg)</i>
NTD-2	S-112906-ILM-NTD2-001	Unsat. Soil	3 to 4.5 BGS	8.7 to 7.2	3000	3920.79
	S-112906-ILM-NTD2-002	Sat. Soil	13 to 14.5 BGS	-1.3 to -2.8	6500	8801.95
	S-112906-ILM-NTD2-003	Sat. Soil	22.5 to 25 BGS	-10.8 to -13.3	635	626.3
	S-112906-ILM-NTD2-004				--	
	S-121206-ILM-NTD2-005	Sat. Soil	33 to 35 BGS	-21.3 to -23.3	100	
	S-112906-ILM-NTD2-006	Sat. Soil	43 to 45 BGS	-31.3 to -33.3	355	313.16
	S-112906-ILM-NTD2-007	Sat. Soil	53 to 55 BGS	-41.3 to -43.3	510	519.86
	S-112906-ILM-NTD2-008				390	22844.6
	S-112906-ILM-NTD2-009	Sat. Soil	63 to 65 BGS	-51.3 to -53.3	390	22844.6
	S-121406-ILM-NTD2-010	Sat. Soil	73 to 75 BGS	-61.3 to -63.3	330	414.48
<u>Pier 25</u>						
Pier 25A	SE-013007-BI-PIER25A-003	Sat. Soil	3.3 to 5 BML	-2.62 to -4.32		2365.01
<u>Area 5106</u>						
PT-13A	SE-110905-13A-001	Sat. Soil	11.8 to 13.8 BML	-38.22 to -40.22		124.56
	SE-110905-PT-13A-002	Sat. Soil	21.8 to 23.8 BML	-48.22 to -50.22		4.22
PT-15A	SE-110905-NR-PT-15A-001	Sat. Soil	56 to 57 BML	-100.32 to -101.32		166545.02
	SE-110905-FD-001					
	SE-110905-NR-PT-15A-002	Sat. Soil	66 to 67 BML	-110.32 to -111.32		707.61
PT-15B	S-122006-PT-15B-DR-001	Sat. Soil	13 to 15 BML	-33.32 to -35.32		3313.59
	S-122006-PT-15B-DR-002	Sat. Soil	18 to 20 BML	-38.32 to -40.32		722.13
	S-122006-PT-15B-DR-003	Sat. Soil	28 to 30 BML	-48.32 to -50.32		699.29
	S-122106-PT-15B-DR-004	Sat. Soil	38 to 40 BML	-58.32 to -60.32		1053.55
PT-17A	SE-020107-ILM-17A-002	Sat. Soil	10 to 12 BML	-37.32 to -39.32		1188.81
	SE-020107-ILM-17A-003					
<u>Embankment Area</u>						
BH-1-96	BH-1-96	Sat. Soil	to 2, 4 to 6, 12 to 14 B	11.7 to -2.3	ND	50
BH-2-96	BH-2-96	Unsat. Soil	4 to 6 BGS	7.8 to 5.8	ND	50
BH-3-96	BH-3-96	Sat. Soil	4 to 10 BGS	7.4 to 1.4	ND	50
	BH-3-96~FD					
BH-4-96	BH-4-96	Unsat. Soil	2 to 6 BGS	9.3 to 5.3	ND	50
BH-5-96	BH-5-96	Sat. Soil	0 to 2, 4 to 8 BGS	12 to 4	ND	50
BH-6-96	BH-6-96	Sat. Soil	6 to 12 BGS	4.8 to -1.2	89	
BH-7-96	BH-7-96	Sat. Soil	6 to 12 BGS	4.8 to -1.2	58	
BH-8-96	BH-8-96	Sat. Soil	4 to 10 BGS	7.2 to 1.2	4460	
BH-9-96	BH-9-96	Sat. Soil	2 to 8 BGS	10 to 4	15600	
BH-10-96	BH-10-96	Sat. Soil	4 to 10 BGS	7.1 to 1.1	59	

TABLE 4.12

**SUMMARY OF TOTAL PCB CONCENTRATIONS - SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg / kg)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/kg)</i>
BH-11-96	BH-11-96	Sat. Soil	2 to 12 BGS	8.4 to -1.6	1370	
BH-12-96	BH-12-96	Sat. Soil	2 to 7 BGS	8.4 to 3.4	12200	
BH-13-96	BH-13-96	Unsat. Soil	1 to 2 BGS	9.9 to 8.9	1850	
BH-14-96	BH-14-96	Unsat. Soil	0 to 2, 4 to 4.9 BGS	12 to 7.1	ND 50	
BH-15-96	BH-15-96	Unsat. Soil	0 to 4, 6 to 7.5 BGS	12 to 4.5	ND 50	
<u>EA Borings</u>						
EA-1	S-092205-NR-EA-1-001	Unsat. Soil	19.5 to 21.5 BGS	-7.8 to -9.8	ND 3.88	
	S-092205-NR-EA-1-002	Sat. Soil	24.5 to 26.5 BGS	-12.8 to -14.8	ND 3.68	
	S-092205-NR-EA-1-003	Sat. Soil	31.5 to 33.5 BGS	-19.8 to -21.8	ND 3.38	
	S-092205-NR-EA-1-004	Sat. Soil	36.5 to 38.5 BGS	-24.8 to -26.8	ND 3.65	
	S-092305-NR-EA-1-005	Sat. Soil	41.5 to 43.5 BGS	-29.8 to -31.8	ND 3.76	
	S-092305-NR-EA-1-006	Sat. Soil	46.5 to 48.5 BGS	-34.8 to -36.8	ND 3.48	
	S-092305-NR-EA-1-007	Sat. Soil	51.5 to 53.5 BGS	-39.8 to -41.8	ND 3.5	
	S-092305-NR-EA-1-008	Sat. Soil	56.5 to 58.5 BGS	-44.8 to -46.8	ND 3.64	
	S-092605-NR-EA-1-009	Sat. Soil	61.5 to 63.5 BGS	-49.8 to -51.8	ND 3.65	
	S-092605-NR-EA-1-010	Sat. Soil	66.5 to 68.5 BGS	-54.8 to -56.8	ND 3.67	
	S-092705-NR-EA-1-011	Sat. Soil	71.5 to 73.5 BGS	-59.8 to -61.8	ND 14	
	S-092705-NR-EA-1-012	Sat. Soil	76.5 to 78.5 BGS	-64.8 to -66.8	ND 13	
	S-092705-NR-EA-1-013	Sat. Soil	81.5 to 83.5 BGS	-69.8 to -71.8	ND 14	
	S-092705-NR-EA-1-014	Sat. Soil	86.5 to 88.5 BGS	-74.8 to -76.8	ND 13	
	S-092805-NR-EA-1-015	Sat. Soil	91.5 to 93.5 BGS	-79.8 to -81.8	ND 13	
	S-092805-NR-EA-1-016	Sat. Soil	96.5 to 98.5 BGS	-84.8 to -86.8	ND 13	
	S-092805-NR-EA-1-017	Sat. Soil	101.5 to 103.5 BGS	-89.8 to -91.8	ND 13	
	S-092805-NR-EA-1-018	Sat. Soil	106.5 to 108.5 BGS	-94.8 to -96.8	ND 13	
	S-100305-NR-EA-1-019	Sat. Soil	111.5 to 113.5 BGS	-99.8 to -101.8	ND 3.63	
	S-100305-NR-EA-1-020	Sat. Soil	116.5 to 118.5 BGS	-104.8 to -106.8	244	
EA-1 (cont)	S-100405-NR-EA-1-021	Sat. Soil	121.5 to 123.5 BGS	-109.8 to -111.8	ND 163	
	S-100405-NR-EA-1-022	Sat. Soil	126.5 to 128.5 BGS	-114.8 to -116.8	ND 65	
	S-100505-NR-EA-1-024	Sat. Soil	131.5 to 133.5 BGS	-119.8 to -121.8	ND 13	
	S-100505-NR-EA-1-025	Sat. Soil	136.5 to 138.5 BGS	-124.8 to -126.8	ND 14	
	S-100705-DC-EA-1-025	Sat. Soil	136.5 to 138.5 BGS	-124.8 to -126.8	ND 3.43	
	EA-2	S-101005-DC-EA-2-001	Unsat. Soil	20 to 22 BGS	-8.3 to -10.3	7.58
S-101005-DC-EA-2-002		Sat. Soil	25 to 27 BGS	-13.3 to -15.3	8.58	
S-101105-DC-EA-2-003		Sat. Soil	30 to 32 BGS	-18.3 to -20.3	ND 13	
S-101105-DC-EA-2-004		Sat. Soil	35 to 37 BGS	-23.3 to -25.3	ND 13	
S-101105-DC-EA-2-005		Sat. Soil	40 to 42 BGS	-28.3 to -30.3	ND 14	
S-101105-DC-EA-2-006		Sat. Soil	45 to 47 BGS	-33.3 to -35.3	ND 14	
S-101105-DC-EA-2-007		Sat. Soil	50 to 52 BGS	-38.3 to -40.3	ND 14	
S-101205-DC-EA-2-008		Sat. Soil	55 to 57 BGS	-43.3 to -45.3	ND 3.8	
S-101205-DC-EA-2-009		Sat. Soil	60 to 62 BGS	-48.3 to -50.3	ND 3.85	
S-101205-DC-EA-2-010		Sat. Soil	65 to 67 BGS	-53.3 to -55.3	ND 3.72	
S-101205-DC-EA-2-011		Sat. Soil	70 to 72 BGS	-58.3 to -60.3	ND 3.65	
S-101305-NR-EA-2-012		Sat. Soil	75 to 77 BGS	-63.3 to -65.3	ND 3.66	
S-101305-NR-EA-2-013		Sat. Soil	80 to 82 BGS	-68.3 to -70.3	ND 3.69	

TABLE 4.12

**SUMMARY OF TOTAL PCB CONCENTRATIONS - SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg / kg)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/kg)</i>
	S-101305-NR-EA-2-014	Sat. Soil	85 to 87 BGS	-73.3 to -75.3	ND 3.7	
	S-101705-NR-EA-2-018	Sat. Soil	100 to 102 BGS	-88.3 to -90.3	ND 14	
	S-101705-NR-EA-2-019	Sat. Soil	105 to 107 BGS	-93.3 to -95.3	ND 14	
	S-101705-NR-EA-2-020	Sat. Soil	110 to 112 BGS	-98.3 to -100.3	ND 13	
	S-101805-NR-EA-2-021	Sat. Soil	115 to 117 BGS	-103.3 to -105.3	ND 14	
	S-101805-NR-EA-2-022	Sat. Soil	120 to 122 BGS	-108.3 to -110.3	ND 13	
	S-101805-NR-EA-2-023	Sat. Soil	125 to 127 BGS	-113.3 to -115.3	ND 13	
	S-101905-NR-EA-2-024	Sat. Soil	130 to 132 BGS	-118.3 to -120.3	ND 13	
	S-102005-NR-EA-2-025	Sat. Soil	135 to 137 BGS	-123.3 to -125.3	ND 13	
	S-102005-NR-EA-2-026	Sat. Soil	140 to 142 BGS	-128.3 to -130.3	ND 13	
	S-102005-NR-EA-2-027	Sat. Soil	145 to 147 BGS	-133.3 to -135.3	ND 13	
	S-102105-JL-EA-2-028	Sat. Soil	150 to 152 BGS	-138.3 to -140.3	ND 13	
EA-3	S-102405-JL-EA-3-001	Unsat. Soil	10 to 12 BGS	1.7 to -0.3	4000	
	S-102505-NR-EA-3-002	Sat. Soil	20 to 22 BGS	-8.3 to -10.3	160	
	S-102505-NR-EA-3-003	Sat. Soil	25 to 27 BGS	-13.3 to -15.3	ND 14	
	S-102505-NR-EA-3-004	Sat. Soil	30 to 32 BGS	-18.3 to -20.3	ND 12	
	S-102505-NR-EA-3-005	Sat. Soil	35 to 37 BGS	-23.3 to -25.3	ND 13	
	S-102505-NR-EA-3-006	Sat. Soil	40 to 42 BGS	-28.3 to -30.3	ND 13	
	S-102605-NR-EA-3-007	Sat. Soil	45 to 47 BGS	-33.3 to -35.3	ND 13	
	S-102605-NR-EA-3-008	Sat. Soil	50 to 52 BGS	-38.3 to -40.3	ND 13	
	S-102605-NR-EA-3-009	Sat. Soil	55 to 57 BGS	-43.3 to -45.3	ND 13	
	S-102605-NR-EA-3-010	Sat. Soil	60 to 62 BGS	-48.3 to -50.3	ND 13	
	S-102705-NR-EA-3-011	Sat. Soil	65 to 67 BGS	-53.3 to -55.3	ND 13	
	S-102705-NR-EA-3-012	Sat. Soil	70 to 72 BGS	-58.3 to -60.3	ND 13	
	S-102705-NR-EA-3-013	Sat. Soil	75 to 77 BGS	-63.3 to -65.3	ND 13	
	S-102705-NR-EA-3-014	Sat. Soil	80 to 82 BGS	-68.3 to -70.3	ND 12	
	S-102705-NR-EA-3-015	Sat. Soil	85 to 87 BGS	-73.3 to -75.3	ND 12	
	S-102805-NR-EA-3-016	Sat. Soil	90 to 92 BGS	-78.3 to -80.3	ND 12	
EA-3 (cont)	S-102805-NR-EA-3-017	Sat. Soil	95 to 97 BGS	-83.3 to -85.3	ND 13	
	S-102805-NR-EA-3-018	Sat. Soil	100 to 102 BGS	-88.3 to -90.3	ND 13	
	S-102805-NR-EA-3-019	Sat. Soil	105 to 107 BGS	-93.3 to -95.3	ND 12	
	S-103105-NR-EA-3-020	Sat. Soil	110 to 112 BGS	-98.3 to -100.3	ND 12	
	S-110105-DC-EA-3-021	Sat. Soil	115 to 117 BGS	-103.3 to -105.3	ND 12	
	S-110105-DC-EA-3-022	Sat. Soil	120 to 122 BGS	-108.3 to -110.3	ND 12	
	S-110105-DC-EA-3-023	Sat. Soil	125 to 127 BGS	-113.3 to -115.3	ND 12	
	S-110205-NR-EA-3-024	Sat. Soil	130 to 132 BGS	-118.3 to -120.3	ND 12	
	S-110205-NR-EA-3-025	Sat. Soil	135 to 137 BGS	-123.3 to -125.3	ND 12	
	S-110305-NR-EA-3-026	Sat. Soil	140 to 142 BGS	-128.3 to -130.3	ND 13	
	S-110305-NR-EA-3-027	Sat. Soil	145 to 147 BGS	-133.3 to -135.3	ND 12	
	S-110405-NR-EA-3-029	Sat. Soil	150 to 152 BGS	-138.3 to -140.3	ND 12	
	S-110705-NR-EA-3-030	Sat. Soil	155 to 157 BGS	-143.3 to -145.3	ND 12	
	S-110705-NR-EA-3-031	Sat. Soil	160 to 162 BGS	-148.3 to -150.3	ND 12	

TABLE 4.12

**SUMMARY OF TOTAL PCB CONCENTRATIONS - SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg / kg)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/kg)</i>
<u>Salt Pad</u>						
SP-1	S-062306-LH-SP1-001	Unsat. Soil	0 to 2 BGS	11.6 to 9.6	ND 54.6	
	S-062306-LH-SP1-002	Sat. Soil	2 to 6 BGS	9.6 to 5.6	ND 52.5	
	S-062306-LH-SP1-003	Sat. Soil	6 to 10 BGS	5.6 to 1.6	ND 61.2	
SP-2	S-070706-DR-SP2-001	Unsat. Soil	0 to 2 BGS	11.6 to 9.6	ND 10	
	S-070706-DR-SP2-002	Sat. Soil	2 to 6 BGS	9.6 to 5.6	ND 11	
SP-3	S-061406-LH-SP3-001	Unsat. Soil	0 to 2 BGS	11.6 to 9.6	ND 53.1	
	S-061406-LH-SP3-002	Sat. Soil	2 to 6 BGS	9.6 to 5.6	ND 55.4	
	S-061406-LH-SP3-003	Sat. Soil	6 to 10 BGS	5.6 to 1.6	ND 63.2	
SP-4	S-062006-DR-SP4-001	Unsat. Soil	0 to 2 BGS	11.6 to 9.6	ND 53.2	
	S-062006-DR-SP4-002	Sat. Soil	2 to 6 BGS	9.6 to 5.6	ND 52.7	
	S-062006-DR-SP4-003	Sat. Soil	6 to 10 BGS	5.6 to 1.6	ND 54.4	
SP-5	S-060206-DR-SP5-001	Unsat. Soil	0 to 2 BGS	11.6 to 9.6	ND 11	
	S-060206-DR-SP5-002	Sat. Soil	2 to 6 BGS	9.6 to 5.6	ND 11	
	S-060206-DR-SP5-003	Sat. Soil	6 to 8 BGS	5.6 to 3.6	ND 11	
SP-6	S-060506-DR-SP6-001	Unsat. Soil	0 to 2 BGS	11.6 to 9.6	ND 10	
	S-060506-DR-SP6-002	Sat. Soil	2 to 6 BGS	9.6 to 5.6	ND 11	
SP-7	S-062806-LH-SP7-001	Unsat. Soil	0 to 2 BGS	11.6 to 9.6	ND 12	
	S-062806-LH-SP7-002	Sat. Soil	2 to 6 BGS	9.6 to 5.6	ND 11	
	S-062806-LH-SP7-003	Sat. Soil	6 to 10 BGS	5.6 to 1.6	ND 12	
SP-8	S-071306-LH-SP8-001	Unsat. Soil	0 to 2 BGS	11.6 to 9.6	40.9	
	S-071306-LH-SP8-002	Sat. Soil	2 to 6 BGS	9.6 to 5.6	ND 53.1	
	S-071306-LH-SP8-003	Sat. Soil	6 to 10 BGS	5.6 to 1.6	ND 63.7	
<u>Waste Management Unit A</u>						
WMUA-11	S-080206-LH-WMUA11-001	Sat. Soil	17 to 19 BGS	-5.3 to -7.3		ND 0.0131
WMUA-14	S-080806-LH-WMUA14-001	Sat. Soil	18 to 20 BGS	-6.3 to -8.3		0.95
WMUA-15	S-080706-LH-WMUA15-001	Sat. Soil	14 to 16 BGS	-2.3 to -4.3		0.26
WMUA-20	S-071706-LH-WMUA20-003	Sat. Soil	15 to 17 BGS	-3.3 to -5.3		ND 0.08
WMUA-26	S-071306-DR-WMUA26-005	Sat. Soil	23 to 25 BGS	-11.3 to -13.3		0.021
	S-071306-DR-WMUA26-008	Sat. Soil	51 to 53 BGS	-39.3 to -41.3		ND 0.0115
WMUA-31	S-081506-BG-WMUA31-059	Sat. Soil	25 to 27 BGS	-13.3 to -15.3		0.016
	S-081506-BG-WMUA31-063	Sat. Soil	55 to 57 BGS	-43.3 to -45.3		0.011
WMUA-32	S-020107-ILM-WMUA32-101	Sat. Soil	17 to 20 BGS	-5.3 to -8.3		6.45
	S-081706-BG-WMUA32-104	Sat. Soil	55 to 57 BGS	-43.3 to -45.3		0.018

TABLE 4.12

**SUMMARY OF TOTAL PCB CONCENTRATIONS - SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg / kg)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/kg)</i>
<u>Waste Management Unit C</u>						
WMUC-1	S-WMUC1-6.3-7.3	Sat. Soil	6.3 to 7.3 BGS	5.3 to 4.3	130	
	S-WMUC1-10.3-12.0	Sat. Soil	10.3 to 12 BGS	1.3 to -0.4	ND 7.0	
	S-WMUC1-15-17	Sat. Soil	15 to 17 BGS	-3.4 to -5.4	ND 7.1	
	S-WMUC1-20.3-22.3	Sat. Soil	20.3 to 22.3 BGS	-8.7 to -10.7	ND 6.8	
WMUC-2	S-WMUC2-7.1-7.7	Sat. Soil	7.1 to 7.7 BGS	4.5 to 3.9	95	
	S-WMUC2-16-18	Sat. Soil	16 to 18 BGS	-4.4 to -6.4	ND 7.2	
	S-WMUC2-20.5-22.5	Sat. Soil	20.5 to 22.5 BGS	-8.9 to -10.9	ND 6.9	
OXY-1	C Landfill~OXY-1~	Sat. Soil	NA	NA	182	
<u>Waste Management Unit H</u>						
WMUH-1	S-WMUH1-0-4	Unsat. Soil	0 to 4 BGS	11.6 to 7.6	1200	
	S-WMUH1-4.4-6.4	Sat. Soil	4.4 to 6.4 BGS	7.2 to 5.2	88	
	S-WMUH1-9.5-11.5	Sat. Soil	9.5 to 11.5 BGS	2.1 to 0.1	160	
	S-WMUH1-14.5-16.5	Sat. Soil	14.5 to 16.5 BGS	-2.9 to -4.9	ND 6.6	
	S-WMUH1-19.5-21.5	Sat. Soil	19.5 to 21.5 BGS	-7.9 to -9.9	ND 6.6	
WMUH-2	S-WMUH2-6.8-7.8	Sat. Soil	6.8 to 7.8 BGS	4.8 to 3.8	ND 5.9	
	S-WMUH2-10.0-12.0	Sat. Soil	10 to 12 BGS	1.6 to -0.4	100	
	S-WMUH2-16.0-17.8	Sat. Soil	16 to 17.8 BGS	-4.4 to -6.2	29	
	S-WMUH2-19.0-20.0	Sat. Soil	19 to 20 BGS	-7.4 to -8.4	41	
	S-WMUH2-20.8-22.8	Sat. Soil	20.8 to 22.8 BGS	-9.2 to -11.2	ND 6.8	
WMUH-3	S-WMUH3-0-4	Unsat. Soil	0 to 4 BGS	11.6 to 7.6	190	
	S-WMUH3-6.3-7.3	Sat. Soil	6.3 to 7.3 BGS	5.3 to 4.3	ND 5.9	
	S-WMUH3-10.3-12.0	Sat. Soil	10.3 to 12 BGS	1.3 to -0.4	ND 6.9	
	S-WMUH3-15.0-17.0	Sat. Soil	15 to 17 BGS	-3.4 to -5.4	ND 6.8	
	S-WMUH3-20.3-22.3	Sat. Soil	20.3 to 22.3 BGS	-8.7 to -10.7	ND 6.8	
<u>709 / 721 Alexander Ave</u>						
TP-2-93	TP-2/S-2(9312-142-1)	Unsat. Soil	4 to 4.5 ft BGS	8.6 to 8.1	ND 3500 J	
TP-2-93	TP-2/S-3(9312-142-2)	Sat./Capillary	6.5 to 7 ft BGS	6.1 to 5.6	ND 41	
TP-3-93	TP-3/S-1(9312-142-3)	Unsat. Soil	1.5 to 2 ft BGS	11.1 to 10.6	ND 3700 J	
TP-3-93	TP-3/S-2(9312-142-4)	Unsat. Soil	3 to 3.5 ft BGS	9.6 to 9.1	ND 3600 J	
TP-3-95	TP3-S2	Unsat. Soil	5 to 6 ft BGS	6.6 to 5.6	ND 40	
TP-3-93	TP-3/S-3(9312-142-5)	Sat./Capillary	6 to 6.5 ft BGS	6.6 to 6.1	ND 4100 J	
TP-4-93	TP-4/S-2(9312-142-6)	Unsat. Soil	4 to 4.5 ft BGS	8.6 to 8.1	ND 3600 J	
TP-4-93	TP-4/S-3(9312-142-7)	Sat./Capillary	6 to 6.5 ft BGS	6.6 to 6.1	ND 1900 J	
TP-5-95	TP5-S1	Unsat. Soil	2.5 to 3.5 ft BGS	9.1 to 8.1	ND 35	
TP-6-95	TP6-S2	Unsat. Soil	5 to 6 ft BGS	6.6 to 5.6	ND 41	
TP-7-93	TP-7/S-3(9312-142-8)	Sat./Capillary	9 to 9.5 ft BGS	3.6 to 3.1	ND 1900 J	
TP-9-95	TP9-S2	Unsat. Soil	5 to 6 ft BGS	6.6 to 5.6	ND 36	
709-MW1-15	MW-1/S-4(9401-181-1)	Sat. /Capillary	5.5 to 7 ft BGS	6.2 to 4.7	ND 42	

TABLE 4.12

**SUMMARY OF TOTAL PCB CONCENTRATIONS - SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg / kg)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/kg)</i>
709-MW2-15	MW-2/S-4(9401-181-2)	Sat. /Capillary	5.5 to 7 ft BGS	6.9 to 5.4	ND 43	
709-MW3-15	MW-3/S-11(9401-181-7)	Saturated	16 to 17.5 ft BGS	-4.4 to -5.9	ND 43	
	MW-3/S-3(9401-181-3)	Sat. /Capillary	4 to 5.5 ft BGS	7.6 to 6.1	ND 40	
709-MW4-15	MW-4/S-12(9401-181-6)	Saturated	17.5 to 19 ft BGS	-5.9 to -7.4	ND 42	
	MW-4/S-5(9401-181-4)	Sat. /Capillary	7 to 8.5 ft BGS	4.6 to 3.1	580	
709-MW5-15	MW-5/S-6(9401-181-5)	Sat. /Capillary	8.5 to 10 ft BGS	3.1 to 1.6	ND 43	
709-BH-01	S-051612-NE-709BH01-001	Unsat. Soil	4 to 5 ft BGS	7.9 to 6.9	ND 5.4	
	S-051612-NE-709BH01-002	Sat. Soil	6 to 7 ft BGS	5.9 to 4.9	ND 6.1	
	S-051612-NE-709BH01-003	Sat. Soil	15 to 16 ft BGS	-3.1 to -4.1	ND 6.1	
	S-051612-NE-709BH01-004	Sat. Soil	23 to 24 ft BGS	-11.1 to -12.1	ND 6.2	
709-BH-02	S-051612-NE-709BH02-001	Unsat. Soil	1.5 to 3.5 ft BGS	10.2 to 8.2	ND 5.4	
	S-051612-NE-709BH02-002	Sat. Soil	6.5 to 7.5 ft BGS	5.2 to 4.2	ND 5.9	
	FD-051612-NE-709BH02-002	Sat. Soil	6.5 to 7.5 ft BGS	5.2 to 4.2	ND 6.0	
	S-051612-NE-709BH02-003	Sat. Soil	15 to 16 ft BGS	-3.3 to -4.3	ND 6.0	
	S-051612-NE-709BH02-004	Sat. Soil	23 to 24 ft BGS	-11.3 to -12.3	ND 6.2	
709-BH-03	S-051612-NE-709BH03-001	Unsat. Soil	1.5 to 2.5 ft BGS	10.4 to 9.4	ND 5.3	
	S-051612-NE-709BH03-002	Sat. Soil	6 to 7 ft BGS	5.9 to 4.9	ND 6.0	
	S-051612-NE-709BH03-003	Sat. Soil	9 to 10 ft BGS	2.9 to 1.9	ND 6.0	
	S-051612-NE-709BH03-004	Sat. Soil	23 to 24 ft BGS	-11.1 to -12.1	ND 6.2	
709-BH-04	S-051612-NE-709BH04-001	Unsat. Soil	1.5 to 2.5 ft BGS	9.5 to 8.5	140	1085
	S-051612-NE-709BH04-002	Sat. Soil	6.5 to 7.5 ft BGS	4.5 to 3.5	ND 60	1.47
	S-051612-NE-709BH04-003	Sat. Soil	9 to 10 ft BGS	2 to 1	ND 6.2	
	S-051612-NE-709BH04-004	Sat. Soil	23 to 24 ft BGS	-12 to -13	ND 6.3	
709-BH-05	S-051712-NE-709BH05-001	Unsat. Soil	4 to 5 ft BGS	6.5 to 5.5	ND 8.0	0.343
	S-051712-NE-709BH05-002	Sat. Soil	7 to 8.5 ft BGS	3.5 to 2	ND 6.3	
	S-051712-NE-709BH05-004	Sat. Soil	23 to 24 ft BGS	-12.5 to -13.5	ND 6.3	
	S-052012-NE-709BH05-005	Sat. Soil	17 to 18 ft BGS	-6.5 to -7.5	ND 20	
709-BH-06	S-051712-NE-709BH06-001	Unsat. Soil	2.5 to 4 ft BGS	8.2 to 6.8	ND 8.7	
	FD-051712-NE-709BH06-001	Unsat. Soil	2.5 to 4 ft BGS	8.2 to 6.8	ND 68	
	S-051712-NE-709BH06-003	Sat. Soil	10 to 11 ft BGS	0.8 to -0.2	ND 6.0	
	S-051712-NE-709BH06-004	Sat. Soil	23 to 24 ft BGS	-12.2 to -13.2	ND 6.0	
	S-052012-NE-709BH06-005	Sat. Soil	16 to 17 ft BGS	-5.2 to -6.2	ND 20	
709-BH-07	S-051712-NE-709BH07-001	Unsat. Soil	3.75 to 5 ft BGS	6.8 to 5.5	ND 61	
	S-051712-NE-709BH07-002	Sat. Soil	6.25 to 7.5 ft BGS	4.3 to 3	ND 23	
	S-051712-NE-709BH07-003	Sat. Soil	15 to 16 ft BGS	-4.5 to -5.5	ND 20	
	S-051712-NE-709BH07-004	Sat. Soil	23 to 24 ft BGS	-12.5 to -13.5	ND 9.9	

TABLE 4.12

**SUMMARY OF TOTAL PCB CONCENTRATIONS - SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg / kg)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/kg)</i>
709-BH-08	S-051812-NE-709BH08-001	Unsat. Soil	3.75 to 4.75 ft BGS	7.4 to 6.4	ND 9.9	
	S-051812-NE-709BH08-002	Sat. Soil	6.5 to 7.5 ft BGS	4.7 to 3.7	ND 9.9	
	S-051812-NE-709BH08-003	Sat. Soil	16 to 17 ft BGS	-4.8 to -5.8	ND 33	
	S-051812-NE-709BH08-004	Sat. Soil	23 to 24 ft BGS	-11.8 to -12.8	ND 20	
709-BH-09	S-051812-NE-709BH09-001	Unsat. Soil	3.75 to 5 ft BGS	7.2 to 5.9	ND 20	
	S-051812-NE-709BH09-002	Sat. Soil	6.5 to 7.5 ft BGS	4.4 to 3.4	ND 77	
	S-051812-NE-709BH09-003	Sat. Soil	17 to 18 ft BGS	-6.1 to -7.1	ND 9.9	
	S-051812-NE-709BH09-004	Sat. Soil	23 to 24 ft BGS	-12.1 to -13.1	ND 20	
709-BH-10	S-051812-NE-709BH10-001	Unsat. Soil	4 to 5 ft BGS	7.3 to 6.3	ND 20	
	S-051812-NE-709BH10-002	Sat. Soil	7.25 to 8.75 ft BGS	4 to 2.5	ND 20	
	FD-051812-NE-709BH10-002	Sat. Soil	7.25 to 8.75 ft BGS	4 to 2.5	ND 20	
	S-051812-NE-709BH10-003	Sat. Soil	16 to 17 ft BGS	-4.7 to -5.7	ND 20	
	S-051812-NE-709BH10-004	Sat. Soil	23 to 24 ft BGS	-11.7 to -12.7	ND 20	
709-BH-12	S-100212-JN-BH12-001	Sat. Soil	5 to 5 ft BGS	6.2 to 6.2	ND 5.3	
	S-100212-JN-BH12-002	Sat. Soil	9 to 9 ft BGS	2.2 to 2.2	ND 5.9	
	S-100212-JN-BH12-003	Sat. Soil	14 to 14 ft BGS	-2.8 to -2.8	ND 6.7	
	S-100212-JN-BH12-004	Sat. Soil	18.5 to 18.5 ft BGS	-7.3 to -7.3	ND 6.1	
	S-100212-JN-BH12-005	Sat. Soil	24.5 to 24.5 ft BGS	-13.3 to -13.3	ND 6.1	
721-BH-11	S-052112-NE-721BH11-001	Unsat. Soil	3 to 4 ft BGS	8 to 7	ND 9.9	
	S-052112-NE-721BH11-002	Sat. Soil	7 to 8 ft BGS	4 to 3	ND 9.9	
	S-052112-NE-721BH11-003	Sat. Soil	16 to 17 ft BGS	-5 to -6	ND 20	
	S-052112-NE-721BH11-004	Sat. Soil	23 to 24 ft BGS	-12 to -13	ND 9.9	
721-BH-13	S-052112-NE-721BH13-001	Unsat. Soil	4 to 5 ft BGS	7.3 to 6.3	5.4	7.52
	S-052112-NE-721BH13-002	Sat. Soil	6 to 7.25 ft BGS	5.3 to 4.1	ND 63	
	FD-052112-NE-721BH13-002	Sat. Soil	6 to 7.25 ft BGS	5.3 to 4.1	ND 98	
	S-052112-NE-721BH13-003	Sat. Soil	16 to 17 ft BGS	-4.7 to -5.7	ND 20	
	S-052112-NE-721BH13-004	Sat. Soil	23 to 24 ft BGS	-11.7 to -12.7	ND 20	
721-BH-14	S-052012-NE-721BH14-001	Unsat. Soil	2 to 3 ft BGS	8.6 to 7.6	ND 20	ND 0.00197
	FD-052012-NE-721BH14-001	Unsat. Soil	2 to 3 ft BGS	8.6 to 7.6	ND 20	ND 0.00196
	S-052012-NE-721BH14-002	Sat. Soil	7 to 8 ft BGS	3.6 to 2.6	ND 20	
	S-052012-NE-721BH14-003	Sat. Soil	16 to 17 ft BGS	-5.4 to -6.4	ND 20	
	S-052012-NE-721BH14-004	Sat. Soil	23 to 24 ft BGS	-12.4 to -13.4	ND 20	
721-BH-16	S-052012-NE-721BH16-001	Unsat. Soil	0.25 to 1.25 ft BGS	11.2 to 10.2	ND 20	1.42
	S-052012-NE-721BH16-002	Sat. Soil	6.25 to 7.25 ft BGS	5.2 to 4.2	ND 9.9	
	S-052012-NE-721BH16-003	Sat. Soil	17.5 to 18.5 ft BGS	-6.1 to -7.1	ND 20	
	S-052012-NE-721BH16-004	Sat. Soil	23 to 24 ft BGS	-11.6 to -12.6	ND 9.9	
721-BH-17	S-100112-JN-BH17-001	Unsat. Soil	5 to 5 ft BGS	5.7 to 5.7	ND 65	
	S-100112-JN-BH17-002	Sat. Soil	9.5 to 9.5 ft BGS	1.2 to 1.2	ND 6.3	
	S-100112-JN-BH17-003	Sat. Soil	14 to 14 ft BGS	-3.3 to -3.3	ND 6.7	
	S-100112-JN-BH17-004	Sat. Soil	19 to 19 ft BGS	-8.3 to -8.3	ND 6.1	
	S-100112-JN-BH17-005	Sat. Soil	24.8 to 24.8 ft BGS	-14.1 to -14.1	ND 5.8	
	S-100112-JN-BH17-006	Sat. Soil	30 to 30 ft BGS	-19.3 to -19.3	ND 8.6	

TABLE 4.12

**SUMMARY OF TOTAL PCB CONCENTRATIONS - SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg / kg)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/kg)</i>
721-MW11	S-071212-TRH-721MW11-001	Sat. Soil	12.5 to 12.5 ft BGS	-1.1 to -1.1	ND 20	
	S-071212-TRH-721MW11-002	Sat. Soil	25 to 25 ft BGS	-13.6 to -13.6	ND 20	
	S-071312-TRH-721-MW-11-003	Sat. Soil	64 to 64 ft BGS	-52.6 to -52.6	ND 20	
	S-071312-TRH-721-MW-11-004	Sat. Soil	75 to 75 ft BGS	-63.6 to -63.6	ND 20	

Notes:

⁽¹⁾ Calculated from the concentrations of 32 congeners using the methodology developed by Frame et al (1998), Spongberg (2004), and Woolcott (2001).

⁽²⁾ Calculated from PCB aroclors using Method SW-846 8082.

PCB Polychlorinated biphenyl.

BML Below mudline.

BGS Below ground surface.

NGVD National geodetic vertical datum.

µg/kg Microgram per kilogram.

ND Not detected at associated concentration. Concentration shown is the maximum of various non-detect concentrations available for the sample.

 Exceeds cleanup level/criteria for Total PCBs (Unsat Soil: 92.7 µg/kg; Sat Soil: 0.053 µg/kg)

TABLE 4.13
SUMMARY OF DIOXIN/FURAN TOXICITY EQUIVALENCY CONCENTRATIONS - SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Dioxin TEC⁽¹⁾ (ng/Kg)</i>	<i>Furan TEC⁽¹⁾ (ng/Kg)</i>	<i>Total Dioxin/Furan TEC⁽¹⁾ (ng/Kg)</i>
<i>Hylebos Waterway</i>							
HW-3	SE-012207-BS-HW3-003	Sat. Soil	8 to 10 BML	-51.17 to -53.17	0.060	0.271	0.331
HW-4	SE-012307-BS-HW-4-003	Sat. Soil	8 to 10 BML	-50.32 to -52.32	0.058	0.539	0.597
WW-A1R	S-082112-MD-WW-AIR-002	Soil	4 to 6 BGS	-44.5 to -46.5	0.008	0.133	0.141
<i>N Landfill</i>							
NL-2A	S-122106-BI-NL2A-001	Unsat. Soil	2 to 4 BGS	9.7 to 7.7	7.390	27.663	35.053
NL-2A	S-020807-ILM-NL2A-001	Sat. Soil	6 to 8 BGS	5.7 to 3.7	3.804	375.376	379.180
NL-18	S-080106-LH-NL18-003	Sat. Soil	8 to 10 BGS	3.7 to 1.7	5.227	19.197	24.424
NL-24	SE-011507-BS-NL-24-003	Sat. Soil	10 to 13 BML	-40.7 to -43.7	0.048	0.808	0.856
NL-25	SE-011807-ILM-NL-25-002 SE-011807-ILM-NL-25-003	Sat. Soil	5 to 8 BML	-38.8 to -41.8	0.166	4.820	4.986
NL-26	SE-011707-ILM-NL-26-003	Sat. Soil	10 to 13 BML	-36.7 to -39.7	0.294	2.319	2.613
NL-26	SE-011707-ILM-NL-26-006	Sat. Soil	20 to 23 BML	-46.7 to -49.7	2.071	18.833	20.904
NL-27	SE-011907-BS-NL-27-002	Sat. Soil	6 to 8 BML	-17.32 to -19.32	0.269	18.462	18.731
NL-28	SE-011707-BS-NL-28-002	Sat. Soil	5 to 8 BML	-14.72 to -17.72	39.049	2332.265	2371.314
NL-28	SE-011707-BS-NL-28-003	Sat. Soil	10 to 13 BML	-19.7 to -22.7	2.246	48.389	50.635
NL-28	SE-011707-BS-NL-28-004	Sat. Soil	15 to 18 BML	-24.7 to -27.7	0.120	18.184	18.304
NL-29	SE-011807-BS-NL-29-002	Sat. Soil	5 to 8 BML	-15.82 to -18.82	3.649	71.111	74.761
NL-29	SE-011807-BS-NL-29-003	Sat. Soil	10 to 13 BML	-20.8 to -23.8	3.250	41.643	44.893
17C	S-071312-KB-17C-001	Soil	5 BGS	6.67	47.100	277.660	324.760
	S-071312-KB-17C-002	Soil	15.2 BGS	-3.53	0.724	22.564	23.288
	S-071312-KB-17C-003	Soil	18.5 BGS	-6.83	0.006	0.196	0.202
	S-071412-KB-17C-004	Soil	25.5 BGS	-13.83	0.440	0.000	0.440
	S-071412-KB-FD001	Soil	25.5 BGS	-13.83	0.001	0.000	0.001
	S-071412-KB-17C-005	Soil	35.2 BGS	-23.53	0.001	0.000	0.001
	S-071412-KB-17C-006	Soil	45.1 BGS	-33.43	0.001	0.000	0.001

TABLE 4.13
SUMMARY OF DIOXIN/FURAN TOXICITY EQUIVALENCY CONCENTRATIONS - SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Dioxin TEC⁽¹⁾ (ng/Kg)</i>	<i>Furan TEC⁽¹⁾ (ng/Kg)</i>	<i>Total Dioxin/Furan TEC⁽¹⁾ (ng/Kg)</i>
<u>Navy-Todd Dump</u>							
NTD-1	S-112906-ILM-NTD1-001	Unsat. Soil	3 to 4 BGS	8.7 to 7.7	237.646	608.148	845.794
NTD-1	S-011007-TS-NTD1-001	Unsat. Soil	3 to 5 BGS	8.7 to 6.7	10.396	16.354	26.749
NTD-1	S-011007-TS-NTD1-002	Sat. Soil	13 to 15 BGS	-1.2 to -3.2	156.078	309.027	465.105
NTD-2	S-112906-ILM-NTD2-001	Unsat. Soil	3 to 4.5 BGS	8.7 to 7.2	25.064	54.327	79.391
NTD-2	S-112906-ILM-NTD2-002	Sat. Soil	13 to 14.5 BGS	-1.2 to -2.7	12.766	14.769	27.535
NTD-2	S-112906-ILM-NTD2-003	Sat. Soil	22.5 to 25 BGS	-10.8 to -13.3	4.295	12.646	16.941
NTD-2	S-112906-ILM-NTD2-006 S-112906-ILM-NTD2-007	Sat. Soil	43 to 45 BGS	-31.3 to -33.3	1.317	3.171	4.488
NTD-2	S-112906-ILM-NTD2-008	Sat. Soil	53 to 55 BGS	-41.3 to -43.3	2.509	6.349	8.858
NTD-2	S-112906-ILM-NTD2-009	Sat. Soil	63 to 65 BGS	-51.3 to -53.3	1.318	11.798	13.116
NTD-2	S-121406-ILM-NTD2-010	Sat. Soil	73 to 75 BGS	-61.3 to -63.3	0.177	1.119	1.296
<u>Pier 25</u>							
Pier 25A	SE-013007-BI-PIER25A-003	Sat. Soil	3.3 to 5 BML	-2.62 to -4.32	19.552	23.877	43.429
<u>Area 5106</u>							
PT-13A	SE-110905-13A-001	Sat. Soil	11.8 to 13.8 BML	-38.22 to -40.22	0.004	0.672	0.676
PT-13A	SE-110905-PT-13A-002	Sat. Soil	21.8 to 23.8 BML	-48.22 to -50.22	0.031	0.748	0.779
PT-15A	SE-110905-NR-PT-15A-001 SE-110905-FD-001	Sat. Soil	56 to 57 BML	-100.32 to -101.32	1.652	112.028	113.680
PT-15A	SE-110905-NR-PT-15A-002	Sat. Soil	66 to 67 BML	-110.32 to -111.32	0.070	9.362	9.432
PT-15B	S-122006-PT-15B-DR-001	Sat. Soil	13 to 15 BML	-33.32 to -35.32	5.055	429.554	434.609
PT-15B	S-122006-PT-15B-DR-002	Sat. Soil	18 to 20 BML	-38.32 to -40.32	0.331	6.872	7.202
PT-15B	S-122006-PT-15B-DR-003	Sat. Soil	28 to 30 BML	-48.32 to -50.32	0.057	9.446	9.503
PT-15B	S-122106-PT-15B-DR-004	Sat. Soil	38 to 40 BML	-58.32 to -60.32	0.000	8.382	8.382
PT-17A	SE-020107-ILM-17A-002 SE-020107-ILM-17A-003	Sat. Soil	10 to 12 BML	-37.32 to -39.32	1.573	61.453	63.026

TABLE 4.13
SUMMARY OF DIOXIN/FURAN TOXICITY EQUIVALENCY CONCENTRATIONS - SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Dioxin TEC⁽¹⁾ (ng/Kg)</i>	<i>Furan TEC⁽¹⁾ (ng/Kg)</i>	<i>Total Dioxin/Furan TEC⁽¹⁾ (ng/Kg)</i>
<u>Waste Management Unit A</u>							
WMUA-11	S-080206-LH-WMUA11-001	Sat. Soil	17 to 19 BGS	-5.3 to -7.3	0.004	0	0.004
WMUA-14	S-080806-LH-WMUA14-001	Sat. Soil	18 to 20 BGS	-6.3 to -8.3	0.001	0	0.001
WMUA-15	S-080706-LH-WMUA15-001	Sat. Soil	14 to 16 BGS	-2.3 to -4.3	0.014	0.00040	0.014
WMUA-20	S-071706-LH-WMUA20-003	Sat. Soil	15 to 17 BGS	-3.3 to -5.3	0	0	0
WMUA-26	S-071306-DR-WMUA26-005	Sat. Soil	23 to 25 BGS	-11.3 to -13.3	0	0	0
WMUA-26	S-071306-DR-WMUA26-008	Sat. Soil	51 to 53 BGS	-39.3 to -41.3	0	0	0
WMUA-31	S-081506-BG-WMUA31-059	Sat. Soil	25 to 27 BGS	-13.3 to -15.3	0.004	0.000092	0.004
WMUA-31	S-081506-BG-WMUA31-063	Sat. Soil	55 to 57 BGS	-43.3 to -45.3	0.001	0.00011	0.001
WMUA-32	S-020107-ILM-WMUA32-101	Sat. Soil	17 to 20 BGS	-5.3 to -8.3	0	0.115	0.115
WMUA-32	S-081706-BG-WMUA32-104	Sat. Soil	55 to 57 BGS	-43.3 to -45.3	0	0.000079	0.000079

Notes:

(1)	See Appendix U for TEC calculations
BML	Below mudline
BGS	Below ground surface
NGVD	National geodetic vertical datum
ng/Kg	Nanogram per kilogram
TEC	Toxicity Equivalency Concentration

TABLE 4.14

**FIELD pH MEASUREMENTS IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Location</i>	<i>Date</i>	<i>Depth (ft bgs)</i>	<i>Saturated or Unsaturated</i>	<i>pH-LP (Litmus Paper)</i>	<i>Location</i>	<i>Date</i>	<i>Depth (ft bgs)</i>	<i>Saturated or Unsaturated</i>	<i>pH-LP (Litmus Paper)</i>
PH-02	9/26/2012	1.5	Unsaturated	11.5	PH-01	9/25/2012	35.0	Saturated	11
					PH-01	9/25/2012	36.5	Saturated	11.5
PH-05	10/3/2012	6.0	Unsaturated	8	PH-01	9/25/2012	37.5	Saturated	11.5
PH-05	10/3/2012	7.5	Unsaturated	8	PH-01	9/25/2012	40.0	Saturated	11.5
PH-05	10/3/2012	9.0	Unsaturated	8	PH-01	9/25/2012	41.0	Saturated	12
PH-05	10/3/2012	11.0	Unsaturated	12	PH-01	9/25/2012	42.5	Saturated	12
PH-05	10/3/2012	12.5	Unsaturated	12	PH-01	9/25/2012	44.0	Saturated	12
					PH-01	9/25/2012	45.0	Saturated	12
PH-08	10/3/2012	6.0	Unsaturated	7	PH-01	9/25/2012	46.0	Saturated	11.5
					PH-01	9/25/2012	47.5	Saturated	11.5
PH-01	9/25/2012	6.0	Saturated	10	PH-01	9/25/2012	50.0	Saturated	11.5
PH-01	9/25/2012	7.5	Saturated	10					
PH-01	9/25/2012	10.0	Saturated	10	PH-02	9/26/2012	10.0	Saturated	11.5
PH-01	9/25/2012	11.0	Saturated	10.5	PH-02	9/26/2012	11.0	Saturated	12
PH-01	9/25/2012	12.5	Saturated	10.5	PH-02	9/26/2012	13.0	Saturated	12
PH-01	9/25/2012	13.5	Saturated	10.5	PH-02	9/26/2012	15.0	Saturated	12
PH-01	9/25/2012	15.0	Saturated	11	PH-02	9/26/2012	16.5	Saturated	12
PH-01	9/25/2012	15.5	Saturated	10.5	PH-02	9/26/2012	18.5	Saturated	12
PH-01	9/25/2012	17.5	Saturated	10.5	PH-02	9/26/2012	20.0	Saturated	12
PH-01	9/25/2012	20.0	Saturated	11	PH-02	9/26/2012	21.0	Saturated	11.5
PH-01	9/25/2012	21.0	Saturated	11	PH-02	9/26/2012	23.5	Saturated	11.5
PH-01	9/25/2012	22.5	Saturated	11	PH-02	9/26/2012	25.0	Saturated	11.5
PH-01	9/25/2012	24.0	Saturated	11	PH-02	9/26/2012	26.0	Saturated	11.5
PH-01	9/25/2012	25.0	Saturated	11	PH-02	9/26/2012	28.5	Saturated	11.5
PH-01	9/25/2012	26.0	Saturated	11	PH-02	9/26/2012	30.0	Saturated	11.5
PH-01	9/25/2012	27.5	Saturated	11	PH-02	9/26/2012	31.5	Saturated	11.5

TABLE 4.14

FIELD pH MEASUREMENTS IN SOIL
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Location</i>	<i>Date</i>	<i>Depth (ft bgs)</i>	<i>Saturated or Unsaturated</i>	<i>pH-LP (Litmus Paper)</i>	<i>Location</i>	<i>Date</i>	<i>Depth (ft bgs)</i>	<i>Saturated or Unsaturated</i>	<i>pH-LP (Litmus Paper)</i>
PH-01	9/25/2012	30.0	Saturated	11	PH-02	9/26/2012	33.5	Saturated	11.5
PH-01	9/25/2012	31.0	Saturated	11	PH-02	9/26/2012	35.0	Saturated	11.5
PH-01	9/25/2012	32.5	Saturated	11	PH-02	9/26/2012	36.0	Saturated	11.5
PH-02	9/26/2012	38.0	Saturated	12	PH-03	9/27/2012	39.0	Saturated	11.5
PH-02	9/26/2012	40.0	Saturated	12	PH-03	9/27/2012	41.0	Saturated	11
PH-02	9/26/2012	42.5	Saturated	11	PH-03	9/27/2012	42.5	Saturated	11
PH-02	9/26/2012	45.0	Saturated	11	PH-03	9/27/2012	44.0	Saturated	11
PH-02	9/26/2012	46.0	Saturated	10	PH-03	9/27/2012	46.0	Saturated	11
PH-02	9/26/2012	47.0	Saturated	10	PH-03	9/27/2012	47.5	Saturated	11
PH-02	9/26/2012	48.5	Saturated	10	PH-03	9/27/2012	49.0	Saturated	8
PH-02	9/26/2012	50.0	Saturated	10					
					PH-04	10/4/2012	6.0	Saturated	8
PH-03	9/27/2012	5.0	Saturated	11.5	PH-04	10/4/2012	7.5	Saturated	8
PH-03	9/27/2012	7.5	Saturated	11.5	PH-04	10/4/2012	9.0	Saturated	8
PH-03	9/27/2012	10.0	Saturated	11.5	PH-04	10/4/2012	10.5	Saturated	10
PH-03	9/27/2012	11.0	Saturated	13	PH-04	10/4/2012	12.0	Saturated	10
PH-03	9/27/2012	13.5	Saturated	13	PH-04	10/4/2012	13.5	Saturated	10
PH-03	9/27/2012	15.0	Saturated	13	PH-04	10/4/2012	15.0	Saturated	10
PH-03	9/27/2012	16.5	Saturated	13	PH-04	10/4/2012	16.5	Saturated	10
PH-03	9/27/2012	18.0	Saturated	13	PH-04	10/4/2012	18.0	Saturated	10
PH-03	9/27/2012	20.0	Saturated	13	PH-04	10/4/2012	19.5	Saturated	10
PH-03	9/27/2012	21.0	Saturated	12	PH-04	10/4/2012	21.0	Saturated	10
PH-03	9/27/2012	23.0	Saturated	12	PH-04	10/4/2012	22.5	Saturated	10
PH-03	9/27/2012	25.0	Saturated	12	PH-04	10/4/2012	24.0	Saturated	10
PH-03	9/27/2012	26.5	Saturated	11.5	PH-04	10/4/2012	25.5	Saturated	11
PH-03	9/27/2012	28.0	Saturated	11.5	PH-04	10/4/2012	27.0	Saturated	11.5

TABLE 4.14

**FIELD pH MEASUREMENTS IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Location</i>	<i>Date</i>	<i>Depth (ft bgs)</i>	<i>Saturated or Unsaturated</i>	<i>pH-LP (Litmus Paper)</i>	<i>Location</i>	<i>Date</i>	<i>Depth (ft bgs)</i>	<i>Saturated or Unsaturated</i>	<i>pH-LP (Litmus Paper)</i>
PH-03	9/27/2012	29.5	Saturated	11.5	PH-04	10/4/2012	28.5	Saturated	11.5
PH-03	9/27/2012	31.0	Saturated	11.5	PH-04	10/4/2012	30.0	Saturated	11.5
PH-03	9/27/2012	32.5	Saturated	11.5	PH-04	10/4/2012	31.5	Saturated	11.5
PH-03	9/27/2012	34.0	Saturated	11.5	PH-04	10/4/2012	33.0	Saturated	11.5
PH-03	9/27/2012	35.0	Saturated	12	PH-04	10/4/2012	34.5	Saturated	11.5
PH-03	9/27/2012	37.0	Saturated	11	PH-04	10/4/2012	36.0	Saturated	12
PH-04	10/4/2012	37.5	Saturated	12	PH-05	10/3/2012	43.0	Saturated	10
PH-04	10/4/2012	39.0	Saturated	12	PH-05	10/3/2012	44.5	Saturated	10
PH-04	10/4/2012	40.5	Saturated	12	PH-05	10/3/2012	46.0	Saturated	9
PH-04	10/4/2012	42.0	Saturated	12	PH-05	10/3/2012	47.5	Saturated	8
PH-04	10/4/2012	43.5	Saturated	12	PH-05	10/3/2012	49.0	Saturated	8
PH-04	10/4/2012	46.5	Saturated	12	PH-05	10/3/2012	50.0	Saturated	8
PH-04	10/4/2012	48.0	Saturated	12					
PH-04	10/4/2012	49.5	Saturated	12	PH-06	10/4/2012	7.0	Saturated	11
					PH-06	10/4/2012	9.0	Saturated	11
PH-05	10/3/2012	14.0	Saturated	12	PH-06	10/4/2012	10.0	Saturated	11.5
PH-05	10/3/2012	15.5	Saturated	12	PH-06	10/4/2012	11.5	Saturated	12
PH-05	10/3/2012	17.0	Saturated	12	PH-06	10/4/2012	13.0	Saturated	12
PH-05	10/3/2012	18.5	Saturated	12	PH-06	10/4/2012	14.5	Saturated	13
PH-05	10/3/2012	20.0	Saturated	12	PH-06	10/4/2012	16.0	Saturated	13
PH-05	10/3/2012	21.5	Saturated	11.5	PH-06	10/4/2012	17.5	Saturated	13
PH-05	10/3/2012	23.0	Saturated	11.5	PH-06	10/4/2012	19.0	Saturated	13
PH-05	10/3/2012	24.5	Saturated	11.5	PH-06	10/4/2012	20.5	Saturated	13
PH-05	10/3/2012	26.0	Saturated	11	PH-06	10/4/2012	22.0	Saturated	12
PH-05	10/3/2012	27.5	Saturated	11	PH-06	10/4/2012	23.5	Saturated	12
PH-05	10/3/2012	28.0	Saturated	11	PH-06	10/4/2012	25.0	Saturated	12

TABLE 4.14

FIELD pH MEASUREMENTS IN SOIL
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Location</i>	<i>Date</i>	<i>Depth (ft bgs)</i>	<i>Saturated or Unsaturated</i>	<i>pH-LP (Litmus Paper)</i>	<i>Location</i>	<i>Date</i>	<i>Depth (ft bgs)</i>	<i>Saturated or Unsaturated</i>	<i>pH-LP (Litmus Paper)</i>
PH-05	10/3/2012	29.5	Saturated	11	PH-06	10/4/2012	26.5	Saturated	12.5
PH-05	10/3/2012	31.0	Saturated	11	PH-06	10/4/2012	28.0	Saturated	12.5
PH-05	10/3/2012	32.5	Saturated	11	PH-06	10/4/2012	31.0	Saturated	11
PH-05	10/3/2012	34.0	Saturated	11	PH-06	10/4/2012	32.5	Saturated	11
PH-05	10/3/2012	35.5	Saturated	11	PH-06	10/4/2012	34.0	Saturated	11
PH-05	10/3/2012	37.0	Saturated	11	PH-06	10/4/2012	35.5	Saturated	11
PH-05	10/3/2012	38.5	Saturated	11	PH-06	10/4/2012	37.0	Saturated	11
PH-05	10/3/2012	40.0	Saturated	10	PH-06	10/4/2012	38.5	Saturated	9
PH-05	10/3/2012	41.5	Saturated	10	PH-06	10/4/2012	40.0	Saturated	9
PH-06	10/4/2012	41.5	Saturated	9	PH-08	10/3/2012	7.5	Saturated	7
PH-06	10/4/2012	43.0	Saturated	9	PH-08	10/3/2012	9.0	Saturated	7
PH-06	10/4/2012	45.5	Saturated	9	PH-08	10/3/2012	10.5	Saturated	11
PH-06	10/4/2012	47.0	Saturated	9	PH-08	10/3/2012	12.0	Saturated	11
PH-06	10/4/2012	48.5	Saturated	9	PH-08	10/3/2012	13.5	Saturated	11
					PH-08	10/3/2012	15.0	Saturated	12
PH-07	9/25/2012	10.0	Saturated	8.5	PH-08	10/3/2012	16.5	Saturated	12
PH-07	9/25/2012	12.5	Saturated	9.5	PH-08	10/3/2012	18.0	Saturated	12
PH-07	9/25/2012	15.0	Saturated	10	PH-08	10/3/2012	19.5	Saturated	12
PH-07	9/25/2012	16.5	Saturated	10.5	PH-08	10/3/2012	21.0	Saturated	11.5
PH-07	9/25/2012	17.5	Saturated	10.5	PH-08	10/3/2012	22.5	Saturated	11.5
PH-07	9/25/2012	20.0	Saturated	10	PH-08	10/3/2012	24.0	Saturated	11.5
PH-07	9/25/2012	22.5	Saturated	13	PH-08	10/3/2012	25.5	Saturated	11.5
PH-07	9/25/2012	24.0	Saturated	12	PH-08	10/3/2012	27.0	Saturated	11.5
PH-07	9/25/2012	25.0	Saturated	12	PH-08	10/3/2012	28.5	Saturated	11.5
PH-07	9/25/2012	26.0	Saturated	11.5	PH-08	10/3/2012	30.0	Saturated	11.5
PH-07	9/25/2012	27.0	Saturated	11.5	PH-08	10/3/2012	31.5	Saturated	11

TABLE 4.14

FIELD pH MEASUREMENTS IN SOIL
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Location</i>	<i>Date</i>	<i>Depth (ft bgs)</i>	<i>Saturated or Unsaturated</i>	<i>pH-LP (Litmus Paper)</i>	<i>Location</i>	<i>Date</i>	<i>Depth (ft bgs)</i>	<i>Saturated or Unsaturated</i>	<i>pH-LP (Litmus Paper)</i>
PH-07	9/25/2012	27.5	Saturated	11.5	PH-08	10/3/2012	34.0	Saturated	11
PH-07	9/25/2012	30.0	Saturated	11.5	PH-08	10/3/2012	35.5	Saturated	11
PH-07	9/25/2012	32.5	Saturated	11.5	PH-08	10/3/2012	37.0	Saturated	11
PH-07	9/25/2012	35.0	Saturated	11.5	PH-08	10/3/2012	38.5	Saturated	11
PH-07	9/25/2012	36.0	Saturated	11.5	PH-08	10/3/2012	40.0	Saturated	11
PH-07	9/25/2012	37.5	Saturated	11.5	PH-08	10/3/2012	41.5	Saturated	11
PH-07	9/25/2012	40.0	Saturated	11.5	PH-08	10/3/2012	44.0	Saturated	11
PH-07	9/25/2012	42.5	Saturated	12	PH-08	10/3/2012	46.5	Saturated	11
PH-07	9/25/2012	45.0	Saturated	11.5	PH-08	10/3/2012	48.0	Saturated	11
PH-07	9/25/2012	47.5	Saturated	11.5	PH-08	10/3/2012	50.0	Saturated	11
PH-07	9/25/2012	50.0	Saturated	11.5					
					PH-09	9/28/2012	7.0	Saturated	8.5
PH-09	9/28/2012	8.5	Saturated	8.5					
PH-09	9/28/2012	10.0	Saturated	8.5	PH-10	10/5/2012	7.5	Saturated	8
PH-09	9/28/2012	11.0	Saturated	10	PH-10	10/5/2012	10.0	Saturated	8
PH-09	9/28/2012	12.5	Saturated	11	PH-10	10/5/2012	11.5	Saturated	11
PH-09	9/28/2012	14.0	Saturated	11.5	PH-10	10/5/2012	13.0	Saturated	11
PH-09	9/28/2012	15.0	Saturated	12	PH-10	10/5/2012	14.5	Saturated	11
PH-09	9/28/2012	16.5	Saturated	12	PH-10	10/5/2012	16.0	Saturated	11
PH-09	9/28/2012	18.0	Saturated	12	PH-10	10/5/2012	17.5	Saturated	11
PH-09	9/28/2012	19.5	Saturated	12	PH-10	10/5/2012	19.0	Saturated	11
PH-09	9/28/2012	21.0	Saturated	12	PH-10	10/5/2012	20.5	Saturated	11.5
PH-09	9/28/2012	22.5	Saturated	11	PH-10	10/5/2012	22.0	Saturated	11.5
PH-09	9/28/2012	24.0	Saturated	11	PH-10	10/5/2012	23.5	Saturated	11.5
PH-09	9/28/2012	25.0	Saturated	11	PH-10	10/5/2012	25.0	Saturated	11.5
PH-09	9/28/2012	26.5	Saturated	11	PH-10	10/5/2012	26.5	Saturated	11.5

TABLE 4.14

**FIELD pH MEASUREMENTS IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Location</i>	<i>Date</i>	<i>Depth (ft bgs)</i>	<i>Saturated or Unsaturated</i>	<i>pH-LP (Litmus Paper)</i>	<i>Location</i>	<i>Date</i>	<i>Depth (ft bgs)</i>	<i>Saturated or Unsaturated</i>	<i>pH-LP (Litmus Paper)</i>
PH-09	9/28/2012	28.0	Saturated	11	PH-10	10/5/2012	28.0	Saturated	11.5
PH-09	9/28/2012	29.5	Saturated	11	PH-10	10/5/2012	29.5	Saturated	11.5
PH-09	9/28/2012	31.0	Saturated	11	PH-10	10/5/2012	31.0	Saturated	12
PH-09	9/28/2012	32.5	Saturated	11	PH-10	10/5/2012	32.5	Saturated	12
PH-09	9/28/2012	34.0	Saturated	11	PH-10	10/5/2012	34.0	Saturated	12
PH-09	9/28/2012	35.0	Saturated	11	PH-10	10/5/2012	35.5	Saturated	11.5
PH-09	9/28/2012	36.5	Saturated	11	PH-10	10/5/2012	37.0	Saturated	11.5
PH-09	9/28/2012	38.0	Saturated	11	PH-10	10/5/2012	38.5	Saturated	11.5
PH-09	9/28/2012	40.0	Saturated	10.5	PH-10	10/5/2012	40.0	Saturated	11
PH-09	9/28/2012	41.5	Saturated	10	PH-10	10/5/2012	41.5	Saturated	11
PH-09	9/28/2012	44.0	Saturated	10	PH-10	10/5/2012	43.0	Saturated	11
PH-09	9/28/2012	45.5	Saturated	10.5	PH-10	10/5/2012	44.5	Saturated	11
PH-09	9/28/2012	47.0	Saturated	10.5	PH-10	10/5/2012	46.0	Saturated	10.5
PH-09	9/28/2012	48.5	Saturated	10.5	PH-10	10/5/2012	47.5	Saturated	10
PH-09	9/28/2012	50.0	Saturated	10.5	PH-10	10/5/2012	49.0	Saturated	10

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	11-75	11-75	11-75	11-75	11-75	11-75	11-75	11-75	17C	
Sample ID:	S-071512-JC-1175-001	S-071512-JC-1175-002	S-071612-JC-1175-003	S-071612-JC-1175-004	S-071612-JC-1175-005	S-071612-JC-1175-006	S-071612-JC-1175-007	S-071312-KB-17C-002		
Sample Date:	7/15/2012	7/15/2012	7/16/2012	7/16/2012	7/16/2012	7/16/2012	7/16/2012	7/13/2012		
Sample Depth:	28 to 28 ft BGS	39.5 to 39.5 ft BGS	48 to 48 ft BGS	53 to 53 ft BGS	59 to 59 ft BGS	64.5 to 64.5 ft BGS	73 to 73 ft BGS	15.2 to 15.2 ft BGS		
elev_MLLW	-9.43 to -9.43	-20.93 to -20.93	-29.43 to -29.43	-34.43 to -34.43	-40.43 to -40.43	-45.93 to -45.93	-54.43 to -54.43	2.79 to 2.79		
elev_NGVD	-15.8 to -15.8	-27.2 to -27.2	-35.8 to -35.8	-40.8 to -40.8	-46.8 to -46.8	-52.2 to -52.2	-60.8 to -60.8	-3.5 to -3.5		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6.7 U	5.7 U	5.1 U	5.2 U	83 U	370 U	28 J	6.0 UJ
1,1,2-Trichloroethane	µg/kg	15.2	6.7 U	5.7 U	5.1 U	5.2 U	83 U	370 U	63 U	6.0 UJ
1,1-Dichloroethene	µg/kg	1.13	1.4 J	5.7 U	5.1 U	5.2 U	83 U	370 U	15 J	6.0 UJ
Carbon tetrachloride	µg/kg	1.93	6.7 U	5.7 U	5.1 U	5.2 U	83 U	370 U	63 U	6.0 UJ
Chloroform (Trichloromethane)	µg/kg	160	6.7 U	5.7 U	5.1 U	5.2 U	83 U	370 U	11 J	2.4 J
cis-1,2-Dichloroethene	µg/kg	NV	390	5.7 U	0.55 J	0.60 J	35 J	80 J	3400	1.6 J
Methylene chloride	µg/kg	475	14 U	12 U	11 U	11 U	150 J	350 J	260 U	12 UJ
Tetrachloroethene	µg/kg	4.88	6.7 U	5.7 U	1.1 J	2.0 J	83 U	370 U	830	1.3 J
trans-1,2-Dichloroethene	µg/kg	3247	13	5.7 U	5.1 U	5.2 U	83 U	170 J	230	1.4 J
Trichloroethene	µg/kg	30.8	1.3 J	5.7 U	0.54 J	2.1 J	83 U	370 U	270	1.5 J
Vinyl chloride	µg/kg	0.73	100	5.7 U	5.1 U	0.67 J	83 U	25000	5500	0.89 J
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	4.4 J
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	12
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	630 U
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	63600
Chromium	µg/kg	714	-	-	-	-	-	-	-	18600
Copper	µg/kg	53.5	-	-	-	-	-	-	-	57900
Lead	µg/kg	81002	-	-	-	-	-	-	-	315000
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	238
Nickel	µg/kg	535	-	-	-	-	-	-	-	38500
Thallium	µg/kg	34	-	-	-	-	-	-	-	125
Zinc	µg/kg	5045	-	-	-	-	-	-	-	127000
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	83 U
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		17C	17C	17C	17C	17C	17C	40-100R	47-15	47-15	
Sample ID:		S-071312-KB-17C-003	S-071412-KB-17C-004	S-071412-KB-FD001	S-071412-KB-17C-005	S-071412-KB-17C-006	S-071512-KB-17C-007	40-100R-022601-SOIL	S-1002-110895-JOS-020	S-1002-110895-JOS-021	
Sample Date:		7/13/2012	7/14/2012	7/14/2012	7/14/2012	7/14/2012	7/15/2012	2/26/2001	11/8/1995	11/8/1995	
Sample Depth:		18.5 to 18.5 ft BGS	25.5 to 25.5 ft BGS	25.5 to 25.5 ft BGS	35.2 to 35.2 ft BGS	45.1 to 45.1 ft BGS	110.8 to 110.8 ft BGS	100 ft bgs	8 to 10 ft bgs	10 to 12 ft bgs	
elev_MLLW		-0.51 to -0.51	-7.51 to -7.51	-7.51 to -7.51	-17.21 to -17.21	-27.11 to -27.11	-92.81 to -92.81	-81.06	10.22 to 8.22	8.22 to 6.22	
elev_NGVD		-6.8 to -6.8	-13.8 to -13.8	-13.8 to -13.8	-23.5 to -23.5	-33.4 to -33.4	-99.1 to -99.1	-87.4	3.9 to 1.9	1.9 to -0.1	
Parameters	Units	Cs	(Duplicate)								
Volatile Organic Compounds											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.3 U	5.2 U	5.4 U	6.1 U	5.5 U	5.3 U	5.0 U	770 U	6 U
1,1,2-Trichloroethane	µg/kg	15.2	5.3 U	5.2 U	5.4 U	6.1 U	5.5 U	5.3 U	5.0 U	770 U	6 U
1,1-Dichloroethene	µg/kg	1.13	5.3 U	5.2 U	5.4 U	6.1 U	5.5 U	5.3 U	7.2	770 U	6 U
Carbon tetrachloride	µg/kg	1.93	5.3 U	5.2 U	5.4 U	6.1 U	5.5 U	5.3 U	5.0 U	770 U	6 U
Chloroform (Trichloromethane)	µg/kg	160	5.3 U	1.1 J	1.8 J	0.42 J	5.5 U	5.3 U	5.0 U	770 U	6 U
cis-1,2-Dichloroethene	µg/kg	NV	0.83 J	0.31 J	0.34 J	6.1 U	5.5 U	5.3 U	1000	-	-
Methylene chloride	µg/kg	475	11 U	11 U	11 U	13 U	11 U	11 U	50.0 U	1100 U	6 U
Tetrachloroethene	µg/kg	4.88	1.2 J	5.2 U	5.4 U	6.1 U	5.5 U	5.3 U	5.0 U	770 U	10
trans-1,2-Dichloroethene	µg/kg	3247	0.75 J	5.2 U	5.4 U	6.1 U	5.5 U	5.3 U	42	-	-
Trichloroethene	µg/kg	30.8	5.4	0.31 J	0.31 J	6.1 U	5.5 U	5.3 U	5.0 U	770 U	27
Vinyl chloride	µg/kg	0.73	5.3 U	5.2 U	5.4 U	6.1 U	5.5 U	5.3 U	320	1500 U	12 U
Semi-volatile Organic Compounds											
Hexachlorobenzene	µg/kg	0.062	2.2 U	1.1 U	1.2 U	2.6 U	1.3 UJ	1.3 UJ	-	-	-
Hexachlorobutadiene	µg/kg	0.702	2.2 U	1.1 U	1.2 U	2.6 U	1.3 UJ	1.3 UJ	-	-	-
Pentachlorophenol	µg/kg	6.94	220 U	450 U	470 U	530 U	250 U	250 U	-	-	-
Metals~Total											
Arsenic	µg/kg	146	1370	1370	1120	1780	1090	1680	-	-	-
Chromium	µg/kg	714	6750	6810	5930	8810	10600	10200	-	-	-
Copper	µg/kg	53.5	14400	8590	8730	13000	18600	19400	-	-	-
Lead	µg/kg	81002	7470	2920 J	1920 J	1240	1890	1980	-	-	-
Mercury	µg/kg	1.31	10 J	7 J	6 J	9 J	11 J	12 J	-	-	-
Nickel	µg/kg	535	7610	6390	6370	8000	9200	10300	-	-	-
Thallium	µg/kg	34	16 J	28	25	27	43	68	-	-	-
Zinc	µg/kg	5045	19700	13300	12900	16400	19600	22100	-	-	-
PCBs											
Total PCBs	µg/kg	0.053	20 U	20 U	20 U	9.9 U	20 U	20 U	-	-	-
Pesticides											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		47-15	47-15	79-50	80-25	81-50	89C	89C	89C	89C	
Sample ID:		S-1002-110895-JOS-022	S-1002-110895-JOS-023	S-020609-TG-79-50	S-020509-TG-80-25	S-020409-TG-81-50	S-062712-MD-89C-001	S-062712-MD-89C-002	S-062712-MD-89C-003	S-062712-MD-89C-004	
Sample Date:		11/8/1995	11/8/1995	2/6/2009	2/5/2009	2/4/2009	6/27/2012	6/27/2012	6/27/2012	6/27/2012	
Sample Depth:		14 to 16 ft bgs	14 to 16 ft bgs	45 to 50 ft bgs	19 to 24 ft bgs	45 to 50 ft bgs	15 to 15 ft BGS	25.5 to 25.5 ft BGS	35 to 35 ft BGS	35 to 35 ft BGS	
elev_MLLW		4.22 to 2.22	4.22 to 2.22	-27.35 to -32.35	-1.42 to -6.42	-27.02 to -32.02	3.99 to 3.99	-6.51 to -6.51	-16.01 to -16.01	-16.01 to -16.01	
elev_NGVD		-2.1 to -4.1	-2.1 to -4.1	-33.7 to -38.7	-7.7 to -12.7	-33.3 to -38.3	-2.3 to -2.3	-12.8 to -12.8	-22.3 to -22.3	-22.3 to -22.3	
Parameters	Units	Cs									
Volatile Organic Compounds											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	800 U	22 U	-	-	-	6.2 U	160 U	5.8 U	5.9 U
1,1,2-Trichloroethane	µg/kg	15.2	800 U	22 U	-	-	-	6.2 U	160 U	5.8 U	5.9 U
1,1-Dichloroethene	µg/kg	1.13	800 U	22 U	-	-	-	6.2 U	160 U	5.8 U	5.9 U
Carbon tetrachloride	µg/kg	1.93	800 U	22 U	-	-	-	6.2 U	160 U	5.8 U	5.9 U
Chloroform (Trichloromethane)	µg/kg	160	800 U	22 U	-	-	-	6.2 U	160 U	5.8 U	5.9 U
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	7.5	77 J	15	0.76 J
Methylene chloride	µg/kg	475	1200 U	42 U	-	-	-	13 U	640 U	12 U	12 U
Tetrachloroethene	µg/kg	4.88	800 U	22 U	-	-	-	1.0 J	7700	5.4 J	0.49 J
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	5.2 J	160 U	1100	10
Trichloroethene	µg/kg	30.8	800 U	22 U	-	-	-	27	120 J	6.9	5.1 J
Vinyl chloride	µg/kg	0.73	1600 U	45 U	-	-	-	6.2 U	32 J	7.1	5.9 U
Semi-volatile Organic Compounds											
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-
Metals~Total											
Arsenic	µg/kg	146	-	-	210 J	2400	330 J	-	-	-	-
Chromium	µg/kg	714	-	-	1100	18700	2600	-	-	-	-
Copper	µg/kg	53.5	-	-	18100	34900	17100	-	-	-	-
Lead	µg/kg	81002	-	-	3800	3500	3000	-	-	-	-
Mercury	µg/kg	1.31	-	-	30 U	30 U	30 U	-	-	-	-
Nickel	µg/kg	535	-	-	2400	12600	3400	-	-	-	-
Thallium	µg/kg	34	-	-	120	110	130	-	-	-	-
Zinc	µg/kg	5045	-	-	9900 J	35800 J	13700 J	-	-	-	-
PCBs											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		89C	89C	89C	89C	89C	89C	89C	89C	
Sample ID:		S-062712-MD-FD-001	S-062712-MD-89C-005	S-062712-MD-89C-007	S-062712-MD-89C-008	S-062712-MD-89C-010	S-062812-MD-89C-011	S-062812-MD-89C-012	S-062812-MD-89C-013	
Sample Date:		6/27/2012	6/27/2012	6/27/2012	6/27/2012	6/27/2012	6/28/2012	6/28/2012	6/28/2012	
Sample Depth:		35 to 35 ft BGS	40 to 40 ft BGS	47 to 47 ft BGS	55.5 to 55.5 ft BGS	68 to 68 ft BGS	75 to 75 ft BGS	83.5 to 83.5 ft BGS	93.5 to 93.5 ft BGS	
elev_MLLW		-16.01 to -16.01	-21.01 to -21.01	-28.01 to -28.01	-36.51 to -36.51	-49.01 to -49.01	-56.01 to -56.01	-64.51 to -64.51	-74.51 to -74.51	
elev_NGVD		-22.3 to -22.3	-27.3 to -27.3	-34.3 to -34.3	-42.8 to -42.8	-55.3 to -55.3	-62.3 to -62.3	-70.8 to -70.8	-80.8 to -80.8	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6.0 U	5.5 U	5.8 U	6.0 U	5.9 U	5.4 U	4.8 U	5.1 U
1,1,2-Trichloroethane	µg/kg	15.2	6.0 U	5.5 U	5.8 U	6.0 U	5.9 U	5.4 U	4.8 U	5.1 U
1,1-Dichloroethene	µg/kg	1.13	6.0 U	5.5 U	5.8 U	6.0 U	5.9 U	5.4 U	4.8 U	5.1 U
Carbon tetrachloride	µg/kg	1.93	6.0 U	5.5 U	5.8 U	6.0 U	5.9 U	5.4 U	4.8 U	5.1 U
Chloroform (Trichloromethane)	µg/kg	160	6.0 U	5.5 U	0.31 J	6.0 U	5.9 U	5.4 U	0.90 J	5.1 U
cis-1,2-Dichloroethene	µg/kg	NV	3.4 J	1.3 J	3.9 J	0.62 J	5.9 U	5.4 U	1.6 J	5.1 U
Methylene chloride	µg/kg	475	12 U	11 U	12 U	12 U	11 U	11 U	9.6 U	11 U
Tetrachloroethene	µg/kg	4.88	6.0 U	5.5 U	5.8 U	6.0 U	5.9 U	5.4 U	4.8 U	5.1 U
trans-1,2-Dichloroethene	µg/kg	3247	1500	5.5 J	28	6.0 U	5.9 U	5.4 U	4.8 U	5.1 U
Trichloroethene	µg/kg	30.8	9.1	7.4	10	6.0 U	5.9 U	5.4 U	4.8 U	5.1 U
Vinyl chloride	µg/kg	0.73	5.0 J	1.6 J	0.30 J	6.0 U	5.9 U	5.4 U	4.8 U	5.1 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		89C	89C	89C	89C	89C	89C	89C	89C	
Sample ID:		S-070112-MD-89C-015	S-070112-MD-89C-018	S-070112-MD-89C-016	S-070112-MD-89C-017	S-070112-MD-89C-019	S-070112-MD-89C-020	S-070112-MD-89C-021	S-070112-MD-89C-022	
Sample Date:		7/1/2012	7/1/2012	7/1/2012	7/1/2012	7/1/2012	7/1/2012	7/1/2012	7/1/2012	
Sample Depth:		130 to 130 ft BGS	139 to 139 ft BGS	147.5 to 147.5 ft BGS	157.5 to 157.5 ft BGS	165 to 165 ft BGS	172.5 to 172.5 ft BGS	179 to 179 ft BGS	190 to 190 ft BGS	
elev_MLLW		-111.01 to -111.01	-120.01 to -120.01	-128.51 to -128.51	-138.51 to -138.51	-146.01 to -146.01	-153.51 to -153.51	-160.01 to -160.01	-171.01 to -171.01	
elev_NGVD		-117.3 to -117.3	-126.3 to -126.3	-134.8 to -134.8	-144.8 to -144.8	-152.3 to -152.3	-159.8 to -159.8	-166.3 to -166.3	-177.3 to -177.3	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6.2 U	5.8 U	6.0 U	5.8 U	6.9 U	7.0 U	7.1 U	5.9 U
1,1,2-Trichloroethane	µg/kg	15.2	6.2 U	5.8 U	6.0 U	5.8 U	6.9 U	7.0 U	7.1 U	5.9 U
1,1-Dichloroethene	µg/kg	1.13	6.2 U	5.8 U	6.0 U	5.8 U	6.9 U	7.0 U	7.1 U	5.9 U
Carbon tetrachloride	µg/kg	1.93	6.2 U	5.8 U	6.0 U	5.8 U	6.9 U	7.0 U	7.1 U	5.9 U
Chloroform (Trichloromethane)	µg/kg	160	6.2 U	5.8 U	6.0 U	5.8 U	6.9 U	7.0 U	7.1 U	5.9 U
cis-1,2-Dichloroethene	µg/kg	NV	6.2 U	5.8 U	6.0 U	5.8 U	6.9 U	7.0 U	7.1 U	5.9 U
Methylene chloride	µg/kg	475	13 U	12 U	12 U	14 U	14 U	15 U	15 U	12 U
Tetrachloroethene	µg/kg	4.88	6.2 U	5.8 U	6.0 U	5.8 U	6.9 U	7.0 U	7.1 U	5.9 U
trans-1,2-Dichloroethene	µg/kg	3247	6.2 U	5.8 U	6.0 U	5.8 U	6.9 U	7.0 U	7.1 U	5.9 U
Trichloroethene	µg/kg	30.8	6.2 U	5.8 U	6.0 U	5.8 U	6.9 U	7.0 U	7.1 U	5.9 U
Vinyl chloride	µg/kg	0.73	6.2 U	5.8 U	6.0 U	5.8 U	6.9 U	7.0 U	7.1 U	5.9 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		89C	5106-1	5106-1	5106-1	5106-1	5106-1	5106-1	5106-1	
<i>Sample ID:</i>		S-070112-MD-89C-023	SE-092705-5106-1-001	SE-092705-5106-1-002	SE-092705-5106-1-003	SE-092705-5106-1-004	SE-092705-5106-1-005	SE-092705-5106-1-006	SE-092705-5106-1-007	
<i>Sample Date:</i>		7/1/2012	9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005	
<i>Sample Depth:</i>		200 to 200 ft BGS	6 to 9 ft bml	10 to 13 ft bml	15 to 18 ft bml	20 to 23 ft bml	25 to 28 ft bml	30 to 33 ft bml	35 to 38 ft bml	
<i>elev_MLLW</i>		-181.01 to -181.01	-48.3 to -51.3	-52.3 to -55.3	-57.3 to -60.3	-62.3 to -65.3	-67.3 to -70.3	-72.3 to -75.3	-77.3 to -80.3	
<i>elev_NGVD</i>		-187.3 to -187.3	-54.6 to -57.6	-58.6 to -61.6	-63.6 to -66.6	-68.6 to -71.6	-73.6 to -76.6	-78.6 to -81.6	-83.6 to -86.6	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6.7 U	4.57 U	4.59 U	4.62 U	4.82 U	4.61 U	4.13 U	3.99 U
1,1,2-Trichloroethane	µg/kg	15.2	6.7 U	18.5	129	22.6	5.56	4.53 U	4.06 U	3.93 U
1,1-Dichloroethene	µg/kg	1.13	6.7 U	290	366 J	22	299	329	118	202
Carbon tetrachloride	µg/kg	1.93	6.7 U	3.18 U	3.19 U	3.21 U	3.35 U	3.2 U	2.87 U	2.77 U
Chloroform (Trichloromethane)	µg/kg	160	6.7 U	11.8	1420 J	149	29.1	4.1 U	3.67 U	3.55 U
cis-1,2-Dichloroethene	µg/kg	NV	6.7 U	15400	44100 J	7060	64700	116000	21200	26100
Methylene chloride	µg/kg	475	14 U	4.02 U	4.04 UJ	4.06 U	4.24 U	4.05 U	3.63 U	3.51 U
Tetrachloroethene	µg/kg	4.88	6.7 U	117	38	6.35	72.2	26700	7680	240
trans-1,2-Dichloroethene	µg/kg	3247	6.7 U	486 J	749 J	70	647	448	96.1	91.2
Trichloroethene	µg/kg	30.8	6.7 U	1020	33000	3.14 U	3.27 U	470000	94200	5400
Vinyl chloride	µg/kg	0.73	6.7 U	4830	1920 J	4.06 U	27700	41200	8310	3840
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	0.486 U	0.464 U	0.48 U	0.441 U	0.457 U	0.389 U	0.393 U
Hexachlorobutadiene	µg/kg	0.702	-	1.77 U	1.69 U	1.75 U	1.61 U	1.66 U	1.42 U	1.43 U
Pentachlorophenol	µg/kg	6.94	-	R	R	0.828 U	0.761 U	4.1 J	3.4 J	0.677 U
Metals~Total										
Arsenic	µg/kg	146	-	1130	929	-	-	-	-	-
Chromium	µg/kg	714	-	14900	15700	-	-	-	-	-
Copper	µg/kg	53.5	-	15800	13900	-	-	-	-	-
Lead	µg/kg	81002	-	1700	1290	-	-	-	-	-
Mercury	µg/kg	1.31	-	4.78 U	5.86 U	-	-	-	-	-
Nickel	µg/kg	535	-	9380	9210	-	-	-	-	-
Thallium	µg/kg	34	-	47.3 U	44.5 U	-	-	-	-	-
Zinc	µg/kg	5045	-	19200	17900	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	14 U	13 U	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-1	5106-1	5106-1	5106-1	5106-1	5106-1	5106-1	5106-1	5106-1	
Sample ID:	SE-092705-5106-1-008	SE-092705-5106-1-009	SE-092705-5106-1-010	SE-092805-5106-1-011	SE-092805-5106-1-012	SE-092805-5106-1-013	SE-092805-5106-1-014	SE-092805-5106-1-015		
Sample Date:	9/27/2005	9/27/2005	9/27/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005		
Sample Depth:	40 to 43 ft bml	45 to 48 ft bml	45 to 48 ft bml	50 to 52 ft bml	55 to 57 ft bml	60 to 62 ft bml	65 to 67 ft bml	70 to 72 ft bml		
elev_MLLW	-82.3 to -85.3	-87.3 to -90.3	-87.3 to -90.3	-92.3 to -94.3	-97.3 to -99.3	-102.3 to -104.3	-107.3 to -109.3	-112.3 to -114.3		
elev_NGVD	-88.6 to -91.6	-93.6 to -96.6	-93.6 to -96.6	-98.6 to -100.6	-103.6 to -105.6	-108.6 to -110.6	-113.6 to -115.6	-118.6 to -120.6		
Parameters	Units	Cs	(Duplicate)							
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	4.9 U	4.47 U	4.43 U	4.61 U	4.2 U	23.6 U	23.6 U	24.1 U
1,1,2-Trichloroethane	µg/kg	15.2	4.82 U	4.4 U	4.36 U	4.13 U	4.13 U	64.8 U	64.6 U	66 U
1,1-Dichloroethene	µg/kg	1.13	351	170	170	118	31.9	15.5 U	15.4 U	15.8 U
Carbon tetrachloride	µg/kg	1.93	3.41 U	3.11 U	3.08 U	3.2 U	2.92 U	16.6 U	16.6 U	16.9 U
Chloroform (Trichloromethane)	µg/kg	160	4.36 U	3.98 U	3.94 U	4.1 U	3.73 U	14.7 U	14.7 U	15 U
cis-1,2-Dichloroethene	µg/kg	NV	20200	8000	7560	3910	3.11 U	534	1930	368 J
Methylene chloride	µg/kg	475	4.31 U	3.93 U	3.9 U	4.05 U	3.69 U	22.7 U	24.7 J	23.1 U
Tetrachloroethene	µg/kg	4.88	1040	15.1	51.7	2570	34100	702	1400	23.5 J
trans-1,2-Dichloroethene	µg/kg	3247	123	92.9	90.8	33	19.2	16.8 U	16.7 U	17.1 U
Trichloroethene	µg/kg	30.8	42300	26500	35900	41300	59000	3330	3700	48.8 J
Vinyl chloride	µg/kg	0.73	5880	844	805	4.05 U	3.69 U	18.7 U	18.7 U	19.1 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	0.484 U	0.483 U	0.482 U	0.434 U	0.411 U	0.73 U	0.73 U	0.73 U
Hexachlorobutadiene	µg/kg	0.702	1.76 U	1.76 U	1.76 U	1.58 U	1.5 U	2.66 U	2.66 U	2.66 U
Pentachlorophenol	µg/kg	6.94	1.98 J	1.04 J	0.831 U	0.748 U	0.709 U	R	1.26 U	1.26 U
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-1	5106-1	5106-1	5106-1	5106-1	5106-1	5106-2	5106-2	5106-2	
Sample ID:	SE-092805-5106-1-016	SE-092805-5106-1-017	SE-092805-5106-1-018	SE-092805-5106-1-019	SE-092905-5106-1-020	SE-013006-5106-2-002	SE-013006-5106-2-003	SE-013006-5106-2-004		
Sample Date:	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/29/2005	1/30/2006	1/30/2006	1/30/2006		
Sample Depth:	75 to 77 ft bml	80 to 82 ft bml	85 to 87 ft bml	90 to 92 ft bml	95 to 97 ft bml	4 to 6 ft bml	14 to 16 ft bml	24 to 26 ft bml		
elev_MLLW	-117.3 to -119.3	-122.3 to -124.3	-127.3 to -129.3	-132.3 to -134.3	-137.3 to -139.3	-48.6 to -50.6	-58.6 to -60.6	-68.6 to -70.6		
elev_NGVD	-123.6 to -125.6	-128.6 to -130.6	-133.6 to -135.6	-138.6 to -140.6	-143.6 to -145.6	-54.9 to -56.9	-64.9 to -66.9	-74.9 to -76.9		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	22.8 U	25.4 U	26.9 U	22.6 U	2.29 U	1.6 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	62.5 U	69.7 U	73.8 U	62 U	6.28 U	46 J	0.62 U	0.61 U
1,1-Dichloroethene	µg/kg	1.13	14.9 U	16.6 U	17.6 U	14.8 U	1.5 U	150 J	2.1 J	210 J
Carbon tetrachloride	µg/kg	1.93	16 U	17.8 U	18.9 U	15.9 U	1.61 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/kg	160	14.2 U	15.8 U	16.8 U	14.1 U	1.43 U	420	1.8 U	1.8 U
cis-1,2-Dichloroethene	µg/kg	NV	1450	16 U	17 U	14.3 U	1.44 U	23000	97	8600
Methylene chloride	µg/kg	475	41 J	77.4 J	25.9 U	92.8	26.1	5.7 U	5.9 U	6.6 J
Tetrachloroethene	µg/kg	4.88	17.7 J	2.42 UJ	18.2 U	2.15 UJ	1.55 U	51 J	20	3300
trans-1,2-Dichloroethene	µg/kg	3247	16.2 U	18 U	19.1 U	16.1 U	1.63 U	300	94	200 J
Trichloroethene	µg/kg	30.8	25 J	16.9 U	17.9 U	15.1 U	4.03 J	710	34	29000
Vinyl chloride	µg/kg	0.73	18.1 U	20.1 U	21.3 U	17.9 U	1.81 U	450	25000	580 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	0.723 U	0.723 U	0.691 U	0.694 U	0.728 U	13	2.1 U	2.0 U
Hexachlorobutadiene	µg/kg	0.702	2.63 U	2.63 U	2.52 U	2.53 U	2.65 U	140	13	1.0 U
Pentachlorophenol	µg/kg	6.94	1.25 U	1.25 U	1.19 U	1.2 U	1.25 U	4.1 U	4.2 U	4.2 U
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	1200	2400	-
Chromium	µg/kg	714	-	-	-	-	-	13900	11300	-
Copper	µg/kg	53.5	-	-	-	-	-	13100	13500	-
Lead	µg/kg	81002	-	-	-	-	-	3500	1200	-
Mercury	µg/kg	1.31	-	-	-	-	-	29 U	23 U	-
Nickel	µg/kg	535	-	-	-	-	-	8400	6900	-
Thallium	µg/kg	34	-	-	-	-	-	31 J	28 J	-
Zinc	µg/kg	5045	-	-	-	-	-	22500	17300	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	12 U	13 U	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		5106-2	5106-2	5106-2	5106-2	5106-2	5106-2	5106-2	5106-2	
Sample ID:		SE-013006-5106-2-005	SE-013006-5106-2-006	SE-013106-5106-2-007	SE-013106-5106-2-008	SE-013106-5106-2-009	SE-013106-5106-2-010	SE-013106-5106-2-011	SE-013106-5106-2-012	
Sample Date:		1/30/2006	1/30/2006	1/31/2006	1/31/2006	1/31/2006	1/31/2006	1/31/2006	1/31/2006	
Sample Depth:		34 to 36 ft bml	44 to 46 ft bml	54 to 56 ft bml	64 to 66 ft bml	64 to 66 ft bml	74 to 76 ft bml	84 to 86 ft bml	94 to 96 ft bml	
elev_MLLW		-78.6 to -80.6	-88.6 to -90.6	-98.6 to -100.6	-108.6 to -110.6	-108.6 to -110.6	-118.6 to -120.6	-128.6 to -130.6	-138.6 to -140.6	
elev_NGVD		-84.9 to -86.9	-94.9 to -96.9	-104.9 to -106.9	-114.9 to -116.9	-114.9 to -116.9	-124.9 to -126.9	-134.9 to -136.9	-144.9 to -146.9	
Parameters	Units	Cs	(Duplicate)							
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 U	170 U	160 U	160 U	160 U	160 U	1.7 U
1,1,2-Trichloroethane	µg/kg	15.2	0.63 U	0.62 U	64 U	61 U	61 U	63 U	62 U	0.64 U
1,1-Dichloroethene	µg/kg	1.13	200 U	13 J	110 U	100 U	100 U	100 U	100 U	1.5 J
Carbon tetrachloride	µg/kg	1.93	1.0 U	1.0 U	110 U	100 U	100 U	100 U	100 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	1.8 U	190 U	180 U	180 U	190 U	180 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	6000	310 J	340 J	140 U	140 U	8200	3100	190
Methylene chloride	µg/kg	475	6.0 U	5.9 U	610 UJ	580 UJ	580 UJ	600 UJ	590 U	12
Tetrachloroethene	µg/kg	4.88	2900	7200	8900	7400 J	1100 J	71 U	1600	210
trans-1,2-Dichloroethene	µg/kg	3247	140 J	8.9 J	180 U	170 U	170 U	180 U	170 U	3.5 J
Trichloroethene	µg/kg	30.8	52000	19000	3600	3100	90 U	93 U	3900	910
Vinyl chloride	µg/kg	0.73	1200	2.1 U	220 U	210 U	210 U	220 U	220 U	19
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	2.1 U	2.1 U	2.1 U	2.0 U	2.0 U	2.1 U	2.1 U	2.1 U
Hexachlorobutadiene	µg/kg	0.702	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U
Pentachlorophenol	µg/kg	6.94	4.3 U	4.2 U	4.4 U	4.2 U	4.2 U	4.3 U	4.2 U	4.4 U
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:			5106-2	5106-3	5106-3	5106-3	5106-3	5106-3	5106-3	5106-3
Sample ID:			SE-013106-5106-2-013	SE-091905-5106-3-001	SE-091905-5106-3-002	SE-091905-5106-3-003	SE-091905-5106-3-004	SE-091905-5106-3-005	SE-091905-5106-3-006	SE-092005-5106-3-007
Sample Date:			1/31/2006	9/19/2005	9/19/2005	9/19/2005	9/19/2005	9/19/2005	9/19/2005	9/20/2005
Sample Depth:			104 to 106 ft bml	4 to 6 ft bml	4 to 6 ft bml	9 to 11 ft bml	14 to 16 ft bml	19 to 21 ft bml	25 to 27 ft bml	29 to 31 ft bml
elev_MLLW			-148.6 to -150.6	-46 to -48	-46 to -48	-51 to -53	-56 to -58	-61 to -63	-67 to -69	-71 to -73
elev_NGVD			-154.9 to -156.9	-52.3 to -54.3	-52.3 to -54.3	-57.3 to -59.3	-62.3 to -64.3	-67.3 to -69.3	-73.3 to -75.3	-77.3 to -79.3
Parameters	Units	Cs	(Duplicate)							
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.4 U	4.43 U	4.5 U	R	4.44 U	4.44 U	4.35 U	4.67 U
1,1,2-Trichloroethane	µg/kg	15.2	0.55 U	7.58	4.43 U	4.52 U	14.8	4.37 U	4.28 U	4.59 U
1,1-Dichloroethene	µg/kg	1.13	0.90 U	99.5 J	20.5 J	197 J	183	6.91	4.35 U	4.67 U
Carbon tetrachloride	µg/kg	1.93	0.92 U	3.08 U	3.13 U	3.19 UJ	3.09 U	3.08 U	3.02 U	3.24 U
Chloroform (Trichloromethane)	µg/kg	160	1.6 U	3.94 U	4 U	4.08 U	3.95 U	3.95 U	3.87 U	4.15 U
cis-1,2-Dichloroethene	µg/kg	NV	1.6 J	13300 J	3310 J	61000	23900	564	91	198
Methylene chloride	µg/kg	475	13	3.89 U	3.96 U	4.04 U	3.9 U	3.9 U	3.82 U	4.1 U
Tetrachloroethene	µg/kg	4.88	0.62 U	134 J	14.2 J	28.5	1630	53	19.4	6.38
trans-1,2-Dichloroethene	µg/kg	3247	1.6 U	367 J	93.4 J	281 J	58.8	2.94 U	2.88 U	3.09 U
Trichloroethene	µg/kg	30.8	2.6 J	151 J	17.5 J	37.3 J	34700	933	33.2	29.2
Vinyl chloride	µg/kg	0.73	1.9 U	56500	19600	20600	9450	6.91	3.82 U	15.1
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	1.8 U	0.896 U	0.881 U	0.936 U	0.934 U	0.958 U	0.867 U	0.973 U
Hexachlorobutadiene	µg/kg	0.702	0.92 U	3.4 J	4.13 J	3.41 U	3.4 U	3.49 U	3.16 U	3.54 U
Pentachlorophenol	µg/kg	6.94	3.8 U	1.55 U	1.52 U	1.61 U	1.61 U	1.65 U	1.5 U	1.68 U
Metals~Total										
Arsenic	µg/kg	146	-	694	604	834	-	-	-	-
Chromium	µg/kg	714	-	9030	9320	10700	-	-	-	-
Copper	µg/kg	53.5	-	8730	8980	11800	-	-	-	-
Lead	µg/kg	81002	-	1160	1080	1210	-	-	-	-
Mercury	µg/kg	1.31	-	5 U	4.6 U	6.47 J	-	-	-	-
Nickel	µg/kg	535	-	6090	6310	7210	-	-	-	-
Thallium	µg/kg	34	-	20.2 U	16.8 U	23.7 U	-	-	-	-
Zinc	µg/kg	5045	-	13400	13500	15100	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	3.58 U	3.76 U	3.71 U	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-3	5106-3	5106-3	5106-3	5106-3	5106-3	5106-3	5106-3	5106-3	
Sample ID:	SE-092005-5106-3-008	SE-092105-5106-3-017	SE-092105-5106-3-018	SE-092105-5106-3-019	SE-092105-5106-3-020	SE-092205-5106-3-021	SE-092205-5106-3-022	SE-092205-5106-3-023	SE-092205-5106-3-023	
Sample Date:	9/20/2005	9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/22/2005	9/22/2005	9/22/2005	
Sample Depth:	35 to 37 ft bml	79 to 81 ft bml	84 to 86 ft bml	89 to 91 ft bml	94 to 96 ft bml	99 to 101 ft bml	104 to 106 ft bml	109 to 111 ft bml	109 to 111 ft bml	
elev_MLLW	-77 to -79	-121 to -123	-126 to -128	-131 to -133	-136 to -138	-141 to -143	-146 to -148	-151 to -153	-151 to -153	
elev_NGVD	-83.3 to -85.3	-127.3 to -129.3	-132.3 to -134.3	-137.3 to -139.3	-142.3 to -144.3	-147.3 to -149.3	-152.3 to -154.3	-157.3 to -159.3	-157.3 to -159.3	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	4.61 U	3.7 U	3.93 U	4.18 U	3.54 U	3.82 U	3.92 U	3.24 U
1,1,2-Trichloroethane	µg/kg	15.2	4.54 U	3.64 U	3.87 U	4.11 U	3.49 U	3.76 U	3.86 U	3.19 U
1,1-Dichloroethene	µg/kg	1.13	4.61 U	3.7 U	3.93 U	4.18 U	3.54 U	3.82 U	3.92 U	3.24 U
Carbon tetrachloride	µg/kg	1.93	3.2 U	2.57 U	2.73 U	2.9 U	2.46 U	2.65 U	2.72 U	2.25 U
Chloroform (Trichloromethane)	µg/kg	160	4.1 U	3.29 U	3.5 U	3.72 U	3.15 U	3.4 U	3.49 U	2.88 U
cis-1,2-Dichloroethene	µg/kg	NV	91.2	20.6	4.63	3.1 U	2.63 U	2.83 U	2.91 U	2.4 U
Methylene chloride	µg/kg	475	4.05 U	3.25 U	3.45 U	3.67 U	3.11 U	3.36 U	3.45 U	2.85 U
Tetrachloroethene	µg/kg	4.88	7.23	2.42 U	2.57 U	2.73 U	2.31 U	2.49 U	2.56 U	2.11 U
trans-1,2-Dichloroethene	µg/kg	3247	3.06 U	2.46 U	2.61 U	2.77 U	2.35 U	2.53 U	2.6 U	2.15 U
Trichloroethene	µg/kg	30.8	9.63	27	2.67 U	2.84 U	2.41 U	2.59 U	2.66 U	2.2 U
Vinyl chloride	µg/kg	0.73	4.05 U	4.27	3.45 U	3.67 U	3.11 U	3.36 U	3.45 U	2.85 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	0.926 U	0.774 U	0.865 U	0.827 U	0.794 U	0.77 U	0.82 U	0.415 U
Hexachlorobutadiene	µg/kg	0.702	3.37 U	2.82 U	3.15 U	3.01 U	2.89 U	2.8 U	2.98 U	1.51 U
Pentachlorophenol	µg/kg	6.94	1.6 U	1.33 U	1.49 U	1.43 U	1.37 U	1.33 U	1.41 U	R
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-3	5106-5	5106-5	5106-5	5106-5	5106-5	5106-5	5106-5	5106-5	
Sample ID:	SE-092205-5106-3-024	SE-090805-5106-5-001	SE-090905-5106-5-002	SE-090905-5106-5-003	SE-090905-5106-5-004	SE-090905-5106-5-005	SE-090905-5106-5-006	SE-090905-5106-5-007		
Sample Date:	9/22/2005	9/8/2005	9/9/2005	9/9/2005	9/9/2005	9/9/2005	9/9/2005	9/9/2005	9/9/2005	
Sample Depth:	114 to 116 ft bml	4 to 6 ft bml	9 to 11 ft bml	14 to 16 ft bml	19 to 21 ft bml	29 to 31 ft bml	34 to 36 ft bml	39 to 41 ft bml		
elev_MLLW	-156 to -158	-46.1 to -48.1	-51.1 to -53.1	-56.1 to -58.1	-61.1 to -63.1	-71.1 to -73.1	-76.1 to -78.1	-81.1 to -83.1		
elev_NGVD	-162.3 to -164.3	-52.4 to -54.4	-57.4 to -59.4	-62.4 to -64.4	-67.4 to -69.4	-77.4 to -79.4	-82.4 to -84.4	-87.4 to -89.4		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3.41 U	0.454 UJ	3.92 J	4.87 UJ	4.25 UJ	0.469 U	0.445 U	0.458 U
1,1,2-Trichloroethane	µg/kg	15.2	3.36 U	22 J	2.07 UJ	21.9 UJ	19.1 UJ	2.11 U	2 U	2.06 U
1,1-Dichloroethene	µg/kg	1.13	3.41 U	1.13 UJ	4.52 J	12.2 UJ	10.6 UJ	1.17 U	1.11 U	1.15 U
Carbon tetrachloride	µg/kg	1.93	2.37 U	3.4 UJ	3.46 UJ	36.5 UJ	31.9 UJ	3.52 U	3.34 U	3.44 U
Chloroform (Trichloromethane)	µg/kg	160	3.03 U	0.907 UJ	0.922 UJ	9.75 UJ	8.5 UJ	0.938 U	0.89 U	0.916 U
cis-1,2-Dichloroethene	µg/kg	NV	2.53 U	423 J	456 J	640 J	794 J	0.704 U	68	0.687 U
Methylene chloride	µg/kg	475	3 U	2.04 UJ	2.07 UJ	21.9 UJ	19.1 UJ	2.11 U	2 U	2.06 U
Tetrachloroethene	µg/kg	4.88	2.23 U	1220 J	439 J	894 J	6.37 UJ	0.704 U	0.668 U	0.687 U
trans-1,2-Dichloroethene	µg/kg	3247	2.26 U	3.11 J	0.922 UJ	9.75 UJ	8.5 UJ	0.938 U	0.89 U	0.916 U
Trichloroethene	µg/kg	30.8	2.32 U	9310 J	3280 J	17000 J	8490 J	0.938 U	608	32.8
Vinyl chloride	µg/kg	0.73	3 U	134 J	24.6 J	12.2 UJ	10.6 UJ	1.17 U	1.11 U	1.15 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	0.416 U	0.884 U	0.88 U	0.989 U	0.89 U	0.91 U	0.866 U	0.921 U
Hexachlorobutadiene	µg/kg	0.702	1.52 U	3.22 U	3.2 U	3.6 U	3.24 U	3.31 U	3.15 U	3.35 U
Pentachlorophenol	µg/kg	6.94	R	4.08 J	1.89 J	1.71 UJ	1.53 UJ	1.57 UJ	1.49 UJ	1.59 UJ
Metals~Total										
Arsenic	µg/kg	146	-	516	888	-	-	-	-	-
Chromium	µg/kg	714	-	10000	12900	-	-	-	-	-
Copper	µg/kg	53.5	-	9790	12400	-	-	-	-	-
Lead	µg/kg	81002	-	1090	1340	-	-	-	-	-
Mercury	µg/kg	1.31	-	5.6 U	5 U	-	-	-	-	-
Nickel	µg/kg	535	-	7050	7430	-	-	-	-	-
Thallium	µg/kg	34	-	23.8 U	48.7 U	-	-	-	-	-
Zinc	µg/kg	5045	-	14000	16200	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	3.6 U	3.53 U	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-5		5106-5		5106-5		5106-5		5106-5		5106-5		5106-5			
Sample ID:	SE-090905-5106-5-008		SE-090905-5106-5-009		SE-090905-5106-5-010		SE-091005-5106-5-011		SE-091005-5106-5-012		SE-091205-5106-5-013		SE-091205-5106-5-014		SE-091205-5106-5-015	
Sample Date:	9/9/2005		9/9/2005		9/9/2005		9/10/2005		9/10/2005		9/12/2005		9/12/2005		9/12/2005	
Sample Depth:	44 to 47 ft bml		49 to 51 ft bml		54 to 56 ft bml		59 to 61 ft bml		64 to 66 ft bml		69 to 71 ft bml		74 to 76 ft bml		79 to 81 ft bml	
elev_MLLW	-86.1 to -89.1		-91.1 to -93.1		-96.1 to -98.1		-101.1 to -103.1		-106.1 to -108.1		-111.1 to -113.1		-116.1 to -118.1		-121.1 to -123.1	
elev_NGVD	-92.4 to -95.4		-97.4 to -99.4		-102.4 to -104.4		-107.4 to -109.4		-112.4 to -114.4		-117.4 to -119.4		-122.4 to -124.4		-127.4 to -129.4	
Parameters	Units	Cs														
Volatile Organic Compounds																
1,1,2,2-Tetrachloroethane	µg/kg	4.02	0.497 U	0.47 U	0.418 U	7.33 J	0.432 U	0.479 U	0.412 U	0.476 U						
1,1,2-Trichloroethane	µg/kg	15.2	2.24 U	2.12 U	1.88 U	2 U	1.94 U	2.16 U	1.85 U	2.14 U						
1,1-Dichloroethene	µg/kg	1.13	1.24 U	1.18 U	1.05 U	1.11 U	1.08 U	1.2 U	1.03 U	1.19 U						
Carbon tetrachloride	µg/kg	1.93	3.73 U	3.53 U	3.14 U	3.33 U	3.24 U	3.59 U	3.09 U	3.57 U						
Chloroform (Trichloromethane)	µg/kg	160	0.995 U	0.941 U	0.836 U	0.888 U	0.864 U	0.958 U	0.823 U	0.951 U						
cis-1,2-Dichloroethene	µg/kg	NV	0.746 U	0.705 U	39.3	0.666 U	0.648 U	189	19.5 J	39.3						
Methylene chloride	µg/kg	475	2.24 U	2.12 U	1.88 U	2 U	1.94 U	2.16 U	1.85 U	2.14 U						
Tetrachloroethene	µg/kg	4.88	0.746 U	0.705 U	6.73 J	0.666 U	0.648 U	7.6 J	0.618 U	16.5 J						
trans-1,2-Dichloroethene	µg/kg	3247	0.995 U	0.941 U	0.836 U	0.888 U	0.864 U	0.958 U	0.823 U	0.951 U						
Trichloroethene	µg/kg	30.8	19.7 J	4.66 J	505	0.888 U	0.864 U	2260	132	438 J						
Vinyl chloride	µg/kg	0.73	1.24 U	1.18 U	1.05 U	1.11 U	1.08 U	1.2 U	1.03 U	1.19 U						
Semi-volatile Organic Compounds																
Hexachlorobenzene	µg/kg	0.062	0.938 U	0.938 U	0.876 U	0.905 U	0.941 U	0.956 U	0.861 U	0.873 U						
Hexachlorobutadiene	µg/kg	0.702	3.41 U	3.41 U	3.19 U	3.29 U	3.43 U	3.48 U	3.13 U	3.18 U						
Pentachlorophenol	µg/kg	6.94	1.62 UJ	1.62 UJ	1.51 UJ	1.56 UJ	1.62 UJ	1.65 UJ	1.48 UJ	1.51 UJ						
Metals~Total																
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-						
Chromium	µg/kg	714	-	-	-	-	-	-	-	-						
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-						
Lead	µg/kg	81002	-	-	-	-	-	-	-	-						
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-						
Nickel	µg/kg	535	-	-	-	-	-	-	-	-						
Thallium	µg/kg	34	-	-	-	-	-	-	-	-						
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-						
PCBs																
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-						
Pesticides																
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-						
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-						
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-						

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-6	5106-6	5106-6	5106-6	5106-6	5106-6	5106-6	5106-6	5106-6
Sample ID:	SE-101705-5106-6-001	SE-101705-5106-6-002	SE-101705-5106-6-003	SE-101705-5106-6-004	SE-101705-5106-6-005	SE-101805-5106-6-006	SE-101805-5106-6-007	SE-101805-5106-6-008	
Sample Date:	10/17/2005	10/17/2005	10/17/2005	10/17/2005	10/17/2005	10/18/2005	10/18/2005	10/18/2005	
Sample Depth:	8 to 10 ft bml	13 to 15 ft bml	18 to 20 ft bml	18 to 20 ft bml	23 to 25 ft bml	28 to 30 ft bml	33 to 35 ft bml	38 to 40 ft bml	
elev_MLLW	-50.6 to -52.6	-55.6 to -57.6	-60.6 to -62.6	-60.6 to -62.6	-65.6 to -67.6	-70.6 to -72.6	-75.6 to -77.6	-80.6 to -82.6	
elev_NGVD	-56.9 to -58.9	-61.9 to -63.9	-66.9 to -68.9	-66.9 to -68.9	-71.9 to -73.9	-76.9 to -78.9	-81.9 to -83.9	-86.9 to -88.9	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.61 U	-	0.61 U	0.62 U	0.60 U	0.63 U	0.61 U
1,1-Dichloroethene	µg/kg	1.13	2.2 J	-	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U
Carbon tetrachloride	µg/kg	1.93	1.0 U	-	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	-	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	840	-	6.0	3.8 J	1.5 J	1.4 U	1.4 U
Methylene chloride	µg/kg	475	5.9 U	-	5.8 U	5.9 U	5.7 U	6.0 U	5.8 U
Tetrachloroethene	µg/kg	4.88	0.69 U	-	6.6	2.0 J	3.5 J	2.0 J	3.7 J
trans-1,2-Dichloroethene	µg/kg	3247	16	-	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U
Trichloroethene	µg/kg	30.8	19 J	-	1.7 J	0.92 U	0.89 U	0.93 U	1.3 J
Vinyl chloride	µg/kg	0.73	18 J	-	2.1 U	2.2 U	2.1 U	2.2 U	2.1 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	2.0 U	2.1 U	2.0 U	2.1 U	2.0 U	2.1 U	2.1 U
Hexachlorobutadiene	µg/kg	0.702	1.0 U	1.1 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U
Pentachlorophenol	µg/kg	6.94	4.2 U	4.3 U	4.2 U	4.3 U	4.1 U	4.3 U	4.3 U
Metals~Total									
Arsenic	µg/kg	146	1900 U	1300 U	-	-	-	-	-
Chromium	µg/kg	714	14800 J	15000 J	-	-	-	-	-
Copper	µg/kg	53.5	16000	17100	-	-	-	-	-
Lead	µg/kg	81002	2200	2000	-	-	-	-	-
Mercury	µg/kg	1.31	45 U	37 U	-	-	-	-	-
Nickel	µg/kg	535	9600	10200	-	-	-	-	-
Thallium	µg/kg	34	270 U	280 U	-	-	-	-	-
Zinc	µg/kg	5045	24200 U	23900 U	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	13 U	13 U	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		5106-6	5106-6	5106-6	5106-6	5106-6	5106-6	5106-6	5106-6	5106-6
Sample ID:		SE-101805-5106-6-009	SE-101805-5106-6-010	SE-101805-5106-6-011	SE-101805-5106-6-012	SE-101805-5106-6-013	SE-101805-5106-6-014	SE-101805-5106-6-015	SE-101905-5106-6-016	
Sample Date:		10/18/2005	10/18/2005	10/18/2005	10/18/2005	10/18/2005	10/18/2005	10/18/2005	10/19/2005	
Sample Depth:		43 to 45 ft bml	48 to 50 ft bml	53 to 55 ft bml	58 to 60 ft bml	63 to 65 ft bml	68 to 70 ft bml	73 to 75 ft bml	78 to 80 ft bml	
elev_MLLW		-85.6 to -87.6	-90.6 to -92.6	-95.6 to -97.6	-100.6 to -102.6	-105.6 to -107.6	-110.6 to -112.6	-115.6 to -117.6	-120.6 to -122.6	
elev_NGVD		-91.9 to -93.9	-96.9 to -98.9	-101.9 to -103.9	-106.9 to -108.9	-111.9 to -113.9	-116.9 to -118.9	-121.9 to -123.9	-126.9 to -128.9	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.5 U	1.6 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.5 U
1,1,2-Trichloroethane	µg/kg	15.2	0.60 U	0.61 U	0.61 U	0.66 U	0.62 U	0.61 U	0.62 U	0.60 U
1,1-Dichloroethene	µg/kg	1.13	0.98 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	0.98 U
Carbon tetrachloride	µg/kg	1.93	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	0.99 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.8 U	1.8 U	2.0 U	1.8 U	1.8 U	2.3 J	2.2 J
cis-1,2-Dichloroethene	µg/kg	NV	1.3 U	1.4 U	1.7 J	1.5 U	1.4 U	1.4 U	1.4 U	1.3 U
Methylene chloride	µg/kg	475	5.7 U	5.8 U	5.8 U	6.3 U	5.9 U	5.8 U	5.9 U	5.7 U
Tetrachloroethene	µg/kg	4.88	1.5 J	0.69 U	0.68 U	3.8 J	0.69 U	0.68 UJ	0.70 U	0.67 U
trans-1,2-Dichloroethene	µg/kg	3247	1.7 U	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U
Trichloroethene	µg/kg	30.8	0.88 U	0.90 U	0.90 U	15	0.91 U	0.90 UJ	0.92 U	0.88 U
Vinyl chloride	µg/kg	0.73	2.1 U	2.1 U	2.1 U	2.3 U	2.2 U	2.1 U	2.2 U	2.1 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	2.0 U	2.0 U	2.0 U	2.2 U	2.1 U	2.0 U	2.1 U	2.0 U
Hexachlorobutadiene	µg/kg	0.702	1.0 U	1.0 U	1.0 U	1.1 U	9.5	1.0 U	1.0 U	0.99 U
Pentachlorophenol	µg/kg	6.94	4.1 U	4.2 U	4.2 U	4.5 U	4.2 U	4.2 U	4.3 U	4.1 U
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		5106-6	5106-6	5106-6	5106-6	5106-6	5106-6	5106-7	5106-7	5106-7
Sample ID:		SE-101905-5106-6-017	SE-101905-5106-6-018	SE-101905-5106-6-019	SE-101905-5106-6-020	SE-101905-5106-6-021	SE-080905-5106-7-001	SE-081005-5106-7-002	SE-081005-5106-7-003	
Sample Date:		10/19/2005	10/19/2005	10/19/2005	10/19/2005	10/19/2005	8/9/2005	8/10/2005	8/10/2005	
Sample Depth:		83 to 85 ft bml	88 to 90 ft bml	93 to 95 ft bml	98 to 100 ft bml	103 to 105 ft bml	6 to 8 ft bml	11 to 13 ft bml	16 to 18 ft bml	
elev_MLLW		-125.6 to -127.6	-130.6 to -132.6	-135.6 to -137.6	-140.6 to -142.6	-145.6 to -147.6	-47.73 to -49.73	-52.73 to -54.73	-57.73 to -59.73	
elev_NGVD		-131.9 to -133.9	-136.9 to -138.9	-141.9 to -143.9	-146.9 to -148.9	-151.9 to -153.9	-54 to -56	-59 to -61	-64 to -66	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	3.11 UJ	3.38 UJ	3.86 UJ
1,1,2-Trichloroethane	µg/kg	15.2	0.60 U	0.62 U	0.61 U	0.61 U	0.62 U	8.52 U	9.26 U	10.6 U
1,1-Dichloroethene	µg/kg	1.13	0.99 U	1.0 U	1.0 U	1.0 U	1.0 U	2.03 U	2.21 U	2.53 U
Carbon tetrachloride	µg/kg	1.93	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.18 U	2.37 U	2.71 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.94 U	2.1 U	2.41 U
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	36.1 J	2.13 U	38 J
Methylene chloride	µg/kg	475	5.8 U	5.9 U	5.8 U	5.8 U	5.9 U	2.99 U	3.25 U	3.71 U
Tetrachloroethene	µg/kg	4.88	0.68 U	0.70 U	2.4 J	0.69 U	0.69 U	2.11 U	2.29 U	2.62 U
trans-1,2-Dichloroethene	µg/kg	3247	1.7 U	1.7 U	1.7 U	1.7 U	2.2 U	2.4 U	2.4 U	2.74 U
Trichloroethene	µg/kg	30.8	0.89 U	0.92 U	0.90 U	0.90 U	0.91 U	2.07 U	2.25 U	2.57 U
Vinyl chloride	µg/kg	0.73	2.1 U	2.2 U	2.1 U	2.1 U	2.1 U	2.46 U	2.68 U	3.06 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	1.46 J	0.969 U	0.94 U
Hexachlorobutadiene	µg/kg	0.702	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.41 U	3.53 UJ	3.42 U
Pentachlorophenol	µg/kg	6.94	4.2 U	4.3 U	4.2 U	4.2 U	4.2 U	1.62 U	1.67 U	1.62 U
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	1200	-	-
Chromium	µg/kg	714	-	-	-	-	-	13100	-	-
Copper	µg/kg	53.5	-	-	-	-	-	17500	-	-
Lead	µg/kg	81002	-	-	-	-	-	2030	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	4.8 UJ	5.3 UJ	-
Nickel	µg/kg	535	-	-	-	-	-	9400	-	-
Thallium	µg/kg	34	-	-	-	-	-	37.5 J	-	-
Zinc	µg/kg	5045	-	-	-	-	-	19000	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	3.65 U	3.66 U	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		5106-7	5106-7	5106-7	5106-7	5106-7	5106-7	5106-7	5106-7	5106-7
Sample ID:		SE-081005-5106-7-004	SE-081005-5106-7-005	SE-081005-5106-7-006	SE-081005-5106-7-007	SE-081005-5106-7-008	SE-081005-5106-7-009	SE-081005-5106-7-010	SE-081105-5106-7-011	
Sample Date:		8/10/2005	8/10/2005	8/10/2005	8/10/2005	8/10/2005	8/10/2005	8/11/2005	8/11/2005	
Sample Depth:		21 to 23 ft bml	21 to 23 ft bml	26 to 28 ft bml	31 to 33 ft bml	36 to 38 ft bml	41 to 43 ft bml	46 to 48 ft bml	51 to 53 ft bml	
elev_MLLW		-62.73 to -64.73	-62.73 to -64.73	-67.73 to -69.73	-72.73 to -74.73	-77.73 to -79.73	-82.73 to -84.73	-87.73 to -89.73	-92.73 to -94.73	
elev_NGVD		-69 to -71	-69 to -71 (Duplicate)	-74 to -76	-79 to -81	-84 to -86	-89 to -91	-94 to -96	-99 to -101	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3.6 UJ	3.55 UJ	3.65 UJ	3.53 UJ	3.08 UJ	2.88 UJ	2.89 UJ	2.91 UJ
1,1,2-Trichloroethane	µg/kg	15.2	9.88 U	9.73 U	10 U	9.67 U	8.43 U	7.89 U	7.93 U	7.99 U
1,1-Dichloroethene	µg/kg	1.13	2.36 U	2.32 U	2.39 U	2.31 U	2.01 U	1.88 U	1.89 U	1.91 U
Carbon tetrachloride	µg/kg	1.93	2.53 U	2.49 U	2.56 U	2.48 U	2.16 U	2.02 U	2.03 U	2.05 U
Chloroform (Trichloromethane)	µg/kg	160	2.24 U	2.21 U	2.27 U	2.2 U	1.92 U	1.79 U	1.8 U	1.81 U
cis-1,2-Dichloroethene	µg/kg	NV	91.6	13.7 J	2.3 U	2.22 U	1.94 U	1.81 U	1.82 U	1.84 U
Methylene chloride	µg/kg	475	3.46 U	3.41 U	3.51 U	3.39 U	2.96 U	2.76 U	2.78 U	2.8 U
Tetrachloroethene	µg/kg	4.88	2.44 U	2.41 U	2.47 U	2.39 U	2.09 U	1.95 U	1.96 U	1.97 U
trans-1,2-Dichloroethene	µg/kg	3247	2.56 U	2.52 U	2.59 U	2.51 U	2.18 U	2.04 U	2.05 U	2.07 U
Trichloroethene	µg/kg	30.8	2.4 U	2.36 U	2.43 U	2.35 U	2.05 U	1.92 U	1.93 U	1.94 U
Vinyl chloride	µg/kg	0.73	2.85 U	2.81 U	2.89 U	2.79 U	2.44 U	2.28 U	2.29 U	2.31 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	0.907 U	0.88 U	0.951 U	1.32 J	0.889 U	0.895 UJ	0.893 UJ	0.899 U
Hexachlorobutadiene	µg/kg	0.702	3.3 U	3.2 U	3.46 U	3.33 U	3.23 U	3.26 UJ	3.25 UJ	3.27 U
Pentachlorophenol	µg/kg	6.94	1.56 U	1.52 U	1.64 U	1.58 U	1.53 U	1.54 U	1.54 U	1.55 U
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	1410
Chromium	µg/kg	714	-	-	-	-	-	-	-	14800
Copper	µg/kg	53.5	-	-	-	-	-	-	-	19600
Lead	µg/kg	81002	-	-	-	-	-	-	-	2000
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	4.44 U
Nickel	µg/kg	535	-	-	-	-	-	-	-	10200
Thallium	µg/kg	34	-	-	-	-	-	-	-	57.9 U
Zinc	µg/kg	5045	-	-	-	-	-	-	-	21500
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:		5106-7	5106-7	5106-7	5106-7	5106-7	5106-7	5106-8	5106-8	
Sample ID:		SE-081105-5106-7-012	SE-081105-5106-7-013	SE-081105-5106-7-014	SE-081105-5106-7-015	SE-081105-5106-7-016	SE-081205-5106-7-017	SE-080305-5106-8-001	SE-080305-5106-8-002	
Sample Date:		8/11/2005	8/11/2005	8/11/2005	8/11/2005	8/11/2005	8/12/2005	8/3/2005	8/3/2005	
Sample Depth:		56 to 58 ft bml	61 to 63 ft bml	66 to 68 ft bml	71 to 73 ft bml	76 to 78 ft bml	81 to 83 ft bml	14 to 16 ft bml	19 to 21 ft bml	
elev_MLLW		-97.73 to -99.73	-102.73 to -104.73	-107.73 to -109.73	-112.73 to -114.73	-117.73 to -119.73	-122.73 to -124.73	-39.2 to -41.2	-44.2 to -46.2	
elev_NGVD		-104 to -106	-109 to -111	-114 to -116	-119 to -121	-124 to -126	-129 to -131	-45.5 to -47.5	-50.5 to -52.5	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3.15 UJ	2.88 UJ	2.69 UJ	2.98 UJ	3.14 UJ	2.97 UJ	3.06 U	3.33 U
1,1,2-Trichloroethane	µg/kg	15.2	8.65 U	7.9 U	7.38 U	8.18 U	8.61 U	8.15 U	8.38 U	9.12 U
1,1-Dichloroethene	µg/kg	1.13	2.06 U	1.88 U	1.76 U	1.95 U	2.06 U	1.95 U	2 U	2.18 U
Carbon tetrachloride	µg/kg	1.93	2.22 U	2.02 U	1.89 U	2.1 U	2.21 U	2.09 U	2.15 U	2.34 U
Chloroform (Trichloromethane)	µg/kg	160	1.96 U	1.79 U	1.68 U	1.86 U	1.96 U	1.85 U	1.9 U	2.07 U
cis-1,2-Dichloroethene	µg/kg	NV	1.99 U	1.82 U	1.7 U	1.88 U	1.98 U	1.88 U	3.47 J	9.3 J
Methylene chloride	µg/kg	475	3.03 U	2.77 U	2.59 U	2.87 U	3.02 U	2.86 U	2.94 U	3.2 U
Tetrachloroethene	µg/kg	4.88	2.14 U	1.95 U	1.82 U	2.02 U	2.13 U	2.02 U	2.07 U	4.39 J
trans-1,2-Dichloroethene	µg/kg	3247	2.24 U	2.04 U	1.91 U	2.12 U	2.23 U	2.11 U	2.17 UJ	2.36 UJ
Trichloroethene	µg/kg	30.8	2.1 U	1.92 U	1.79 U	1.99 U	2.09 U	1.98 U	2.03 U	2.94 J
Vinyl chloride	µg/kg	0.73	2.5 U	2.28 U	2.13 U	2.36 U	2.49 U	2.36 U	2.42 UJ	2.63 UJ
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	0.895 U	1.09 J	0.863 U	0.905 U	0.965 U	0.864 U	3.55	15.4
Hexachlorobutadiene	µg/kg	0.702	3.26 U	3.29 U	3.14 U	3.29 U	3.51 U	3.14 U	3.22 U	4.85 J
Pentachlorophenol	µg/kg	6.94	1.54 U	3.92 J	1.49 U	1.56 U	1.66 U	1.49 U	1.53 U	1.28 U
Metals~Total										
Arsenic	µg/kg	146	1550	693	592	-	-	-	1180 J	1300 J
Chromium	µg/kg	714	15100	13000	14600	-	-	-	10900	11200
Copper	µg/kg	53.5	20000	11000	8970	-	-	-	11800	13700
Lead	µg/kg	81002	2160	1190	1030	-	-	-	1770	3990
Mercury	µg/kg	1.31	5.57 U	5.27 U	4.65 U	-	-	-	5.31 U	18.6 J
Nickel	µg/kg	535	9810	7570	7600	-	-	-	7630	8350
Thallium	µg/kg	34	61 J	9.08 U	7.79 U	-	-	-	64.2 U	61.7 U
Zinc	µg/kg	5045	22900	18300	15000	-	-	-	17000	18000
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	3.81 U	3.99 U
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-8		5106-8		5106-8		5106-8		5106-8		5106-8		5106-8			
Sample ID:	SE-080305-5106-8-003		SE-080405-5106-8-004		SE-080405-5106-8-005		SE-080405-5106-8-006		SE-080405-5106-8-007		SE-080505-5106-8-008		SE-080505-5106-8-009		SE-080505-5106-8-010	
Sample Date:	8/3/2005		8/4/2005		8/4/2005		8/4/2005		8/4/2005		8/5/2005		8/5/2005		8/5/2005	
Sample Depth:	19 to 21 ft bml		24 to 26 ft bml		29 to 31 ft bml		34 to 36 ft bml		39 to 41 ft bml		44 to 46 ft bml		49 to 51 ft bml		54 to 56 ft bml	
elev_MLLW	-44.2 to -46.2		-49.2 to -51.2		-54.2 to -56.2		-59.2 to -61.2		-64.2 to -66.2		-69.2 to -71.2		-74.2 to -76.2		-79.2 to -81.2	
elev_NGVD	-50.5 to -52.5		-55.5 to -57.5		-60.5 to -62.5		-65.5 to -67.5		-70.5 to -72.5		-75.5 to -77.5		-80.5 to -82.5		-85.5 to -87.5	
		(Duplicate)														
Parameters	Units	Cs														
Volatile Organic Compounds																
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.99 U	R	3.24 U	3.47 U	3.03 U	3.05 U	2.7 U	3.04 U						
1,1,2-Trichloroethane	µg/kg	15.2	8.2 U	9.26 UJ	8.89 U	9.51 U	8.3 U	8.36 U	7.4 U	8.35 U						
1,1-Dichloroethene	µg/kg	1.13	1.96 U	2.21 U	2.12 U	2.27 U	1.98 U	2 U	1.77 U	1.99 U						
Carbon tetrachloride	µg/kg	1.93	2.1 U	2.37 UJ	2.28 U	2.44 U	2.13 U	2.14 U	1.89 U	2.14 U						
Chloroform (Trichloromethane)	µg/kg	160	1.86 U	2.1 UJ	2.02 U	2.16 U	1.89 U	1.9 U	1.68 U	1.9 U						
cis-1,2-Dichloroethene	µg/kg	NV	6.22 J	2.13 U	2.04 U	2.19 U	1.91 U	1.92 U	1.7 U	1.92 U						
Methylene chloride	µg/kg	475	2.87 U	3.24 U	3.12 U	3.33 U	2.91 U	2.93 U	2.59 U	2.92 U						
Tetrachloroethene	µg/kg	4.88	2.03 U	2.29 U	2.2 U	2.35 U	2.05 U	2.07 U	1.83 U	2.06 U						
trans-1,2-Dichloroethene	µg/kg	3247	2.12 UJ	2.4 UJ	2.3 UJ	2.46 UJ	2.15 UJ	2.17 UJ	1.92 UJ	2.16 UJ						
Trichloroethene	µg/kg	30.8	1.99 U	2.25 U	2.16 U	2.31 U	2.02 U	2.03 U	1.8 U	2.03 U						
Vinyl chloride	µg/kg	0.73	2.37 UJ	2.67 UJ	2.57 UJ	2.75 UJ	2.4 UJ	2.42 UJ	2.14 UJ	2.41 UJ						
Semi-volatile Organic Compounds																
Hexachlorobenzene	µg/kg	0.062	17.6	4.52	0.848 U	2.6	0.784 U	0.959 U	0.848 U	0.895 U						
Hexachlorobutadiene	µg/kg	0.702	10.7	3.11 U	3.09 U	2.78 U	2.85 U	3.49 U	3.09 U	3.26 U						
Pentachlorophenol	µg/kg	6.94	1.36 U	1.47 UJ	1.46 U	1.32 U	1.35 U	1.65 U	1.46 U	1.54 U						
Metals~Total																
Arsenic	µg/kg	146	2190 J	-	-	-	-	-	-	-						
Chromium	µg/kg	714	12200	-	-	-	-	-	-	-						
Copper	µg/kg	53.5	13800	-	-	-	-	-	-	-						
Lead	µg/kg	81002	11800	-	-	-	-	-	-	-						
Mercury	µg/kg	1.31	4.7 U	-	-	-	-	-	-	-						
Nickel	µg/kg	535	10100	-	-	-	-	-	-	-						
Thallium	µg/kg	34	40.7 U	-	-	-	-	-	-	-						
Zinc	µg/kg	5045	21200	-	-	-	-	-	-	-						
PCBs																
Total PCBs	µg/kg	0.053	3.66 U	-	-	-	-	-	-	-						
Pesticides																
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-						
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-						
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-						

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-8		5106-8		5106-8		5106-8		5106-8		5106-8		5106-8			
Sample ID:	SE-080805-5106-8-011		SE-080805-5106-8-012		SE-080805-5106-8-013		SE-080805-5106-8-014		SE-080805-5106-8-015		SE-080905-5106-8-016		SE-080905-5106-8-017		SE-080905-5106-8-018	
Sample Date:	8/8/2005		8/8/2005		8/8/2005		8/8/2005		8/8/2005		8/8/2005		8/8/2005		8/9/2005	
Sample Depth:	59 to 61 ft bml		64 to 66 ft bml		69 to 71 ft bml		74 to 76 ft bml		79 to 81 ft bml		84 to 85 ft bml		84 to 85 ft bml		89 to 91 ft bml	
elev_MLLW	-84.2 to -86.2		-89.2 to -91.2		-94.2 to -96.2		-99.2 to -101.2		-104.2 to -106.2		-109.2 to -110.2		-109.2 to -110.2		-114.2 to -116.2	
elev_NGVD	-90.5 to -92.5		-95.5 to -97.5		-100.5 to -102.5		-105.5 to -107.5		-110.5 to -112.5		-115.5 to -116.5		-115.5 to -116.5 (Duplicate)		-120.5 to -122.5	
Parameters	Units	Cs														
Volatile Organic Compounds																
1,1,2,2-Tetrachloroethane	µg/kg	4.02	4.23 UJ	3.78 UJ	4.01 UJ	3.23 UJ	3.28 UJ	3.08 UJ	3.02 UJ	3.16 UJ						
1,1,2-Trichloroethane	µg/kg	15.2	11.6 U	10.4 U	11 U	8.86 U	8.99 U	8.45 U	8.28 U	8.65 U						
1,1-Dichloroethene	µg/kg	1.13	2.77 U	2.47 U	2.62 U	2.12 U	2.15 U	2.02 U	1.98 U	2.07 U						
Carbon tetrachloride	µg/kg	1.93	2.97 U	2.65 U	2.82 U	2.27 U	2.3 U	2.16 U	2.12 U	2.22 U						
Chloroform (Trichloromethane)	µg/kg	160	2.64 U	2.35 U	2.5 U	2.01 U	2.04 U	1.92 U	1.88 U	1.96 U						
cis-1,2-Dichloroethene	µg/kg	NV	2.67 U	2.38 U	2.53 U	2.04 U	2.07 U	1.94 U	1.9 U	1.99 U						
Methylene chloride	µg/kg	475	4.07 U	3.63 U	3.85 U	3.11 U	3.15 U	2.96 U	2.9 U	3.03 U						
Tetrachloroethene	µg/kg	4.88	2.87 U	2.56 U	2.72 U	2.19 U	2.22 U	2.09 U	2.05 U	2.14 U						
trans-1,2-Dichloroethene	µg/kg	3247	3.01 U	2.68 U	2.85 U	2.3 U	2.33 U	2.19 U	2.15 U	2.24 U						
Trichloroethene	µg/kg	30.8	2.82 U	2.51 U	2.67 U	2.15 U	2.18 U	2.05 U	2.01 U	2.1 U						
Vinyl chloride	µg/kg	0.73	3.35 U	2.99 U	3.18 U	2.56 U	2.6 U	2.44 U	2.39 U	2.5 U						
Semi-volatile Organic Compounds																
Hexachlorobenzene	µg/kg	0.062	0.96 U	0.888 U	0.975 U	0.915 U	0.916 U	0.952 U	0.943 U	0.956 U						
Hexachlorobutadiene	µg/kg	0.702	3.5 U	3.23 U	3.55 U	3.33 U	3.34 U	3.47 U	3.43 U	3.48 U						
Pentachlorophenol	µg/kg	6.94	1.66 U	1.53 U	1.68 U	1.58 U	1.58 U	1.64 U	1.63 U	1.65 U						
Metals~Total																
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-						
Chromium	µg/kg	714	-	-	-	-	-	-	-	-						
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-						
Lead	µg/kg	81002	-	-	-	-	-	-	-	-						
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-						
Nickel	µg/kg	535	-	-	-	-	-	-	-	-						
Thallium	µg/kg	34	-	-	-	-	-	-	-	-						
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-						
PCBs																
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-						
Pesticides																
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-						
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-						
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-						

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-8	5106-8	5106-9	5106-9	5106-9	5106-9	5106-9	5106-9	5106-9	
Sample ID:	SE-080905-5106-8-019	SE-080905-5106-8-020	SE-110105-5106-9-002	SE-110105-5106-9-003	SE-110105-5106-9-004	SE-110105-5106-9-005	SE-110105-5106-9-006	SE-110105-5106-9-007		
Sample Date:	8/9/2005	8/9/2005	11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/1/2005	
Sample Depth:	94 to 96 ft bml	99 to 101 ft bml	7 to 9 ft bml	12 to 14 ft bml	17 to 19 ft bml	22 to 24 ft bml	27 to 29 ft bml	32 to 34 ft bml		
elev_MLLW	-119.2 to -121.2	-124.2 to -126.2	-43.1 to -45.1	-48.1 to -50.1	-53.1 to -55.1	-58.1 to -60.1	-63.1 to -65.1	-68.1 to -70.1		
elev_NGVD	-125.5 to -127.5	-130.5 to -132.5	-49.4 to -51.4	-54.4 to -56.4	-59.4 to -61.4	-64.4 to -66.4	-69.4 to -71.4	-74.4 to -76.4		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	4.05 UJ	3.26 UJ	1.6 U	1.6 U	1.5 U	1.5 U	1.5 U	1.7 U
1,1,2-Trichloroethane	µg/kg	15.2	11.1 UJ	8.93 U	0.62 U	0.60 U	0.59 U	0.59 U	0.58 U	0.65 U
1,1-Dichloroethene	µg/kg	1.13	2.65 U	2.13 U	30	0.99 U	120 J	19	24	400
Carbon tetrachloride	µg/kg	1.93	2.85 UJ	2.29 U	1.0 U	1.0 U	0.98 U	0.99 U	0.97 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	2.52 UJ	2.03 U	1.9 U	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	2.55 U	2.05 U	570	1.3 U	16000 J	21000 J	6200 J	71000 J
Methylene chloride	µg/kg	475	3.89 U	3.13 U	5.9 U	5.7 U	5.6 U	5.7 U	5.6 U	6.2 U
Tetrachloroethene	µg/kg	4.88	2.75 U	2.21 U	0.70 U	0.67 U	0.66 U	0.67 U	0.66 U	0.73 U
trans-1,2-Dichloroethene	µg/kg	3247	2.88 UJ	2.31 U	500	1.7 U	130 J	120	190	370
Trichloroethene	µg/kg	30.8	2.7 U	2.17 U	0.92 U	0.89 U	5.1 J	0.88 U	1.3 J	5.1 J
Vinyl chloride	µg/kg	0.73	3.21 U	2.58 U	2300 J	2.1 U	400 J	140	1700 J	6700 J
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	0.977 U	0.861 U	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	3.56 U	3.13 U	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	1.68 U	1.48 U	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		5106-9	5106-9	5106-9	5106-9	5106-9	5106-9	5106-9	5106-9	
Sample ID:		SE-110105-5106-9-008	SE-110105-5106-9-009	SE-110105-5106-9-010	SE-110105-5106-9-011	SE-110105-5106-9-012	SE-110105-5106-9-013	SE-110105-5106-9-014	SE-110105-5106-9-015	
Sample Date:		11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/1/2005	
Sample Depth:		37 to 39 ft bml	37 to 39 ft bml	42 to 44 ft bml	47 to 49 ft bml	52 to 54 ft bml	57 to 59 ft bml	62 to 64 ft bml	67 to 69 ft bml	
elev_MLLW		-73.1 to -75.1	-73.1 to -75.1	-78.1 to -80.1	-83.1 to -85.1	-88.1 to -90.1	-93.1 to -95.1	-98.1 to -100.1	-103.1 to -105.1	
elev_NGVD		-79.4 to -81.4	-79.4 to -81.4	-84.4 to -86.4	-89.4 to -91.4	-94.4 to -96.4	-99.4 to -101.4	-104.4 to -106.4	-109.4 to -111.4	
Parameters	Units	Cs	(Duplicate)							
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 U	1.5 U	1.5 U	810 U	1500 U	80 U	78 U
1,1,2-Trichloroethane	µg/kg	15.2	0.61 U	0.61 U	0.58 U	0.58 U	310 U	590 U	31 U	30 U
1,1-Dichloroethene	µg/kg	1.13	500	350	78	180	510 U	960 U	51 U	50 U
Carbon tetrachloride	µg/kg	1.93	1.0 U	1.0 U	0.97 U	0.96 U	520 UJ	980 UJ	52 U	50 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.8 U	1.7 U	1.7 U	930 U	1700 U	92 U	90 U
cis-1,2-Dichloroethene	µg/kg	NV	57000 J	54000 J	41000 J	40000 J	4500	3800 J	2000	1200
Methylene chloride	µg/kg	475	5.8 U	5.8 U	5.6 U	5.5 U	3000 U	5600 U	300 U	290 U
Tetrachloroethene	µg/kg	4.88	0.68 U	0.69 U	0.66 U	0.65 U	7400	20000	470	34 U
trans-1,2-Dichloroethene	µg/kg	3247	610	420	430	330	880 U	1600 U	87 U	85 U
Trichloroethene	µg/kg	30.8	1.7 J	4.6 J	1.4 J	2.0 J	25000	100000	2300	45 U
Vinyl chloride	µg/kg	0.73	29000 J	36000 J	19000 J	5700 J	1100 UJ	2100 UJ	110 U	110 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-9	5106-9	5106-9	5106-9	5106-9	5106-9	5106-9	5106-10	5106-10	
Sample ID:	SE-110105-5106-9-016	SE-110205-5106-9-017	SE-110205-5106-9-018	SE-110205-5106-9-019	SE-110205-5106-9-020	SE-110205-5106-9-021	SE-110205-5106-10-002	SE-110305-5106-10-003		
Sample Date:	11/1/2005	11/2/2005	11/2/2005	11/2/2005	11/2/2005	11/2/2005	11/2/2005	11/3/2005		
Sample Depth:	72 to 74 ft bml	77 to 79 ft bml	82 to 84 ft bml	87 to 89 ft bml	92 to 94 ft bml	97 to 99 ft bml	7 to 9 ft bml	12 to 14 ft bml		
elev_MLLW	-108.1 to -110.1	-113.1 to -115.1	-118.1 to -120.1	-123.1 to -125.1	-128.1 to -130.1	-133.1 to -135.1	-43.9 to -45.9	-48.9 to -50.9		
elev_NGVD	-114.4 to -116.4	-119.4 to -121.4	-124.4 to -126.4	-129.4 to -131.4	-134.4 to -136.4	-139.4 to -141.4	-50.2 to -52.2	-55.2 to -57.2		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	310 U	76 U	1.7 U	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	120 U	30 U	0.65 U	0.63 U	0.59 U	0.53 U	0.59 U	0.61 U
1,1-Dichloroethene	µg/kg	1.13	200 U	49 U	1.1 U	1.0 U	0.98 U	0.88 U	0.98 U	1.0 U
Carbon tetrachloride	µg/kg	1.93	200 U	49 U	1.1 U	1.1 U	0.99 U	0.89 U	0.99 U	1.0 U
Chloroform (Trichloromethane)	µg/kg	160	360 U	88 U	1.9 U	1.9 U	1.8 U	1.6 U	1.8 U	1.8 U
cis-1,2-Dichloroethene	µg/kg	NV	1400	9700 J	2.3 J	84	3.5 J	1.2 U	4.6 J	1.4 U
Methylene chloride	µg/kg	475	1100 U	280 UJ	6.2 U	6.0 U	5.7 U	8.9	R	5.8 UJ
Tetrachloroethene	µg/kg	4.88	140 U	33 U	0.73 U	0.71 U	0.67 U	0.60 U	0.67 U	0.69 U
trans-1,2-Dichloroethene	µg/kg	3247	340 U	140 J	1.8 U	1.9 J	1.7 U	1.5 U	1.7 U	2.2 J
Trichloroethene	µg/kg	30.8	180 U	44 U	4.8 J	3.2 J	0.88 U	0.79 U	0.88 U	0.92 J
Vinyl chloride	µg/kg	0.73	420 UJ	270 J	2.3 U	2.2 U	2.1 U	1.9 U	240 J	2.1 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-10	5106-10	5106-10	5106-10	5106-10	5106-10	5106-10	5106-10	5106-10	
Sample ID:	SE-110305-5106-10-004	SE-110305-5106-10-005	SE-110305-5106-10-006	SE-110305-5106-10-007	SE-110305-5106-10-008	SE-110305-5106-10-009	SE-110305-5106-10-010	SE-110305-5106-10-011		
Sample Date:	11/3/2005	11/3/2005	11/3/2005	11/3/2005	11/3/2005	11/3/2005	11/3/2005	11/3/2005	11/3/2005	
Sample Depth:	17 to 19 ft bml	22 to 24 ft bml	27 to 29 ft bml	32 to 34 ft bml	32 to 34 ft bml	37 to 39 ft bml	42 to 44 ft bml	47 to 49 ft bml		
elev_MLLW	-53.9 to -55.9	-58.9 to -60.9	-63.9 to -65.9	-68.9 to -70.9	-68.9 to -70.9	-73.9 to -75.9	-78.9 to -80.9	-83.9 to -85.9		
elev_NGVD	-60.2 to -62.2	-65.2 to -67.2	-70.2 to -72.2	-75.2 to -77.2	-75.2 to -77.2	-80.2 to -82.2	-85.2 to -87.2	-90.2 to -92.2		
Parameters	Units	Cs	(Duplicate)							
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	75 U	1.5 U	1.6 UJ	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	29 U	0.59 U	0.60 UJ	0.60 U	0.60 U	0.60 U	0.61 U	0.60 U
1,1-Dichloroethene	µg/kg	1.13	48 U	1.1 J	90 J	1.2 J	2.0 J	1.2 J	1.0 U	0.99 U
Carbon tetrachloride	µg/kg	1.93	48 U	0.99 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/kg	160	87 U	1.8 U	1.8 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
cis-1,2-Dichloroethene	µg/kg	NV	88 J	21	1700 J	540 J	950	220	18	7.7
Methylene chloride	µg/kg	475	280 U	R	5.8 UJ	R	R	R	5.8 U	5.7 U
Tetrachloroethene	µg/kg	4.88	33 U	0.67 U	8.5 J	4.3 J	2.2 J	1.0 J	0.69 U	0.67 U
trans-1,2-Dichloroethene	µg/kg	3247	82 U	1.7 U	72 J	5.1 J	5.9 J	3.8 J	1.7 U	1.7 U
Trichloroethene	µg/kg	30.8	43 U	1.3 J	59 J	41	30	26	0.90 U	0.89 U
Vinyl chloride	µg/kg	0.73	260 J	990 J	3100 J	80	200	21	110 J	2.1 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>5106-10</i>	<i>5106-11</i>	<i>5106-11</i>	<i>5106-11</i>	<i>5106-11</i>	<i>5106-11</i>	<i>5106-11</i>	<i>5106-11</i>
<i>Sample ID:</i>			<i>SE-110305-5106-10-012</i>	<i>SE-101305-5106-11-002</i>	<i>SE-101305-5106-11-003</i>	<i>SE-101305-5106-11-004</i>	<i>SE-101305-5106-11-005</i>	<i>SE-101305-5106-11-006</i>	<i>SE-101305-5106-11-007</i>	<i>SE-101305-5106-11-008</i>
<i>Sample Date:</i>			<i>11/3/2005</i>	<i>10/13/2005</i>	<i>10/13/2005</i>	<i>10/13/2005</i>	<i>10/13/2005</i>	<i>10/13/2005</i>	<i>10/13/2005</i>	<i>10/13/2005</i>
<i>Sample Depth:</i>			<i>52 to 54 ft bml</i>	<i>7 to 9 ft bml</i>	<i>12 to 14 ft bml</i>	<i>17 to 19 ft bml</i>	<i>22 to 24 ft bml</i>	<i>27 to 29 ft bml</i>	<i>32 to 34 ft bml</i>	<i>37 to 39 ft bml</i>
<i>elev_MLLW</i>			<i>-88.9 to -90.9</i>	<i>-45 to -47</i>	<i>-50 to -52</i>	<i>-55 to -57</i>	<i>-60 to -62</i>	<i>-65 to -67</i>	<i>-70 to -72</i>	<i>-75 to -77</i>
<i>elev_NGVD</i>			<i>-95.2 to -97.2</i>	<i>-51.3 to -53.3</i>	<i>-56.3 to -58.3</i>	<i>-61.3 to -63.3</i>	<i>-66.3 to -68.3</i>	<i>-71.3 to -73.3</i>	<i>-76.3 to -78.3</i>	<i>-81.3 to -83.3</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	2.27 U	2.32 UJ	2.43 U	2.3 U	2.33 U	2.31 U	2.48 U
1,1,2-Trichloroethane	µg/kg	15.2	0.60 U	6.22 U	6.36 UJ	6.66 U	6.3 U	6.39 U	6.34 U	6.79 U
1,1-Dichloroethene	µg/kg	1.13	0.99 U	1.48 U	1.52 U	1.59 U	1.5 U	1.53 U	1.51 U	1.62 U
Carbon tetrachloride	µg/kg	1.93	1.0 U	1.59 U	1.63 UJ	1.71 U	1.61 U	1.64 U	1.63 U	1.74 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.41 U	1.44 U	1.51 U	1.43 U	1.45 U	1.44 U	1.54 U
cis-1,2-Dichloroethene	µg/kg	NV	90	1.43 U	1.46 UJ	1.53 U	1.45 U	32	1.46 U	1.56 U
Methylene chloride	µg/kg	475	5.8 U	2.18 U	2.23 U	2.33 U	2.21 U	2.24 U	2.22 U	2.38 U
Tetrachloroethene	µg/kg	4.88	0.68 U	1.54 U	1.57 U	1.65 U	1.56 U	1.58 U	1.57 U	1.68 U
trans-1,2-Dichloroethene	µg/kg	3247	3.1 J	1.61 U	1.65 UJ	1.72 U	1.63 U	1.65 U	1.64 U	1.76 U
Trichloroethene	µg/kg	30.8	14	1.51 U	1.54 U	1.62 U	1.53 U	1.55 U	1.54 U	1.65 U
Vinyl chloride	µg/kg	0.73	83	1.8 U	1.84 UJ	1.92 U	1.82 U	1.85 U	1.83 U	1.96 U
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>5106-11</i>	<i>5106-11</i>	<i>5106-11</i>	<i>5106-11</i>	<i>5106-11</i>	<i>5106-11</i>	<i>5106-11</i>	<i>5106-11</i>	
<i>Sample ID:</i>		<i>SE-101305-5106-11-009</i>	<i>SE-101305-5106-11-010</i>	<i>SE-101405-5106-11-011</i>	<i>SE-101405-5106-11-012</i>	<i>SE-101405-5106-11-013</i>	<i>SE-101405-5106-11-014</i>	<i>SE-101405-5106-11-015</i>	<i>SE-101405-5106-11-016</i>	
<i>Sample Date:</i>		<i>10/13/2005</i>	<i>10/13/2005</i>	<i>10/14/2005</i>	<i>10/14/2005</i>	<i>10/14/2005</i>	<i>10/14/2005</i>	<i>10/14/2005</i>	<i>10/14/2005</i>	
<i>Sample Depth:</i>		<i>42 to 44 ft bml</i>	<i>47 to 49 ft bml</i>	<i>52 to 54 ft bml</i>	<i>57 to 59 ft bml</i>	<i>62 to 64 ft bml</i>	<i>67 to 69 ft bml</i>	<i>72 to 74 ft bml</i>	<i>77 to 79 ft bml</i>	
<i>elev_MLLW</i>		<i>-80 to -82</i>	<i>-85 to -87</i>	<i>-90 to -92</i>	<i>-95 to -97</i>	<i>-100 to -102</i>	<i>-105 to -107</i>	<i>-110 to -112</i>	<i>-115 to -117</i>	
<i>elev_NGVD</i>		<i>-86.3 to -88.3</i>	<i>-91.3 to -93.3</i>	<i>-96.3 to -98.3</i>	<i>-101.3 to -103.3</i>	<i>-106.3 to -108.3</i>	<i>-111.3 to -113.3</i>	<i>-116.3 to -118.3</i>	<i>-121.3 to -123.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.26 U	2.22 U	2.48 U	2.79 U	2.5 U	2.82 U	2.34 U	2.26 U
1,1,2-Trichloroethane	µg/kg	15.2	6.2 U	6.1 U	6.79 U	7.66 U	6.86 U	7.74 U	6.41 U	6.2 U
1,1-Dichloroethene	µg/kg	1.13	1.48 U	1.46 U	1.62 U	1.83 U	1.64 U	1.85 U	1.53 U	1.48 U
Carbon tetrachloride	µg/kg	1.93	1.59 U	1.56 U	1.74 U	1.96 U	1.76 U	1.98 U	1.64 U	1.59 U
Chloroform (Trichloromethane)	µg/kg	160	1.41 U	1.38 U	1.54 U	1.74 U	1.56 U	1.76 U	1.45 U	1.41 U
cis-1,2-Dichloroethene	µg/kg	NV	1.43 U	1.4 U	1.56 U	1.76 U	1.58 U	1.78 U	1.47 U	1.43 U
Methylene chloride	µg/kg	475	2.17 U	2.14 U	2.38 U	2.68 U	2.4 U	2.71 U	2.24 U	2.17 U
Tetrachloroethene	µg/kg	4.88	1.53 U	1.51 U	1.68 U	1.89 U	1.7 U	1.91 U	1.58 U	1.53 U
trans-1,2-Dichloroethene	µg/kg	3247	1.61 U	1.58 U	1.76 U	1.98 U	1.78 U	2.01 U	1.66 U	1.61 U
Trichloroethene	µg/kg	30.8	1.51 U	1.48 U	1.65 U	1.86 U	1.67 U	1.88 U	1.55 U	1.51 U
Vinyl chloride	µg/kg	0.73	1.79 U	1.76 U	1.96 U	2.21 U	1.98 U	2.24 U	1.85 U	1.79 U
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-11	5106-11	5106-11	5106-11	5106-11	5106-11	5106-13	5106-13	5106-13	
Sample ID:	SE-101405-5106-11-017	SE-101405-5106-11-018	SE-101405-5106-11-019	SE-101405-5106-11-020	SE-101505-5106-11-021	SE-112805-5106-13-002	SE-112805-5106-13-003	SE-112805-5106-13-004		
Sample Date:	10/14/2005	10/14/2005	10/14/2005	10/14/2005	10/15/2005	11/28/2005	11/28/2005	11/28/2005		
Sample Depth:	82 to 84 ft bml	87 to 89 ft bml	92 to 94 ft bml	97 to 99 ft bml	102 to 104 ft bml	7 to 9 ft bml	7 to 9 ft bml	12 to 14 ft bml		
elev_MLLW	-120 to -122	-125 to -127	-130 to -132	-135 to -137	-140 to -142	-41.7 to -43.7	-41.7 to -43.7	-46.7 to -48.7		
elev_NGVD	-126.3 to -128.3	-131.3 to -133.3	-136.3 to -138.3	-141.3 to -143.3	-146.3 to -148.3	-48 to -50	(Duplicate)	-53 to -55		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.29 U	2.3 U	2.41 U	2.52 U	2.28 U	R	R	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	6.29 U	6.3 U	6.6 U	6.92 U	6.26 U	0.63 UJ	R	0.61 U
1,1-Dichloroethene	µg/kg	1.13	1.5 U	1.5 U	1.58 U	1.65 U	1.49 U	1.0 UJ	R	40
Carbon tetrachloride	µg/kg	1.93	1.61 U	1.61 U	1.69 U	1.77 U	1.6 U	1.1 UJ	R	1.0 U
Chloroform (Trichloromethane)	µg/kg	160	1.43 U	1.43 U	1.5 U	1.57 U	1.42 U	1.9 UJ	R	1.8 U
cis-1,2-Dichloroethene	µg/kg	NV	1.45 U	1.45 U	1.52 U	9.08	1.44 U	2.2 J	R	3400
Methylene chloride	µg/kg	475	2.2 U	2.21 U	2.31 U	2.43 U	2.19 U	6.0 UJ	R	5.8 U
Tetrachloroethene	µg/kg	4.88	1.56 U	1.56 U	1.63 U	1.71 U	1.55 U	0.71 UJ	R	0.68 U
trans-1,2-Dichloroethene	µg/kg	3247	1.63 U	1.63 U	1.71 U	1.79 U	1.62 U	1.8 UJ	R	62
Trichloroethene	µg/kg	30.8	1.53 U	1.53 U	1.6 U	1.68 U	1.52 U	0.93 UJ	R	0.90 U
Vinyl chloride	µg/kg	0.73	1.82 U	1.82 U	1.91 U	2 U	1.81 U	R	R	21 J
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-13	5106-13	5106-13	5106-13	5106-13	5106-13	5106-13	5106-13	5106-13	
Sample ID:	SE-112805-5106-13-005	SE-112805-5106-13-006	SE-112805-5106-13-007	SE-112805-5106-13-008	SE-112805-5106-13-009	SE-112905-5106-13-010	SE-112905-5106-13-011	SE-112905-5106-13-012		
Sample Date:	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/29/2005	11/29/2005	11/29/2005	
Sample Depth:	17 to 19 ft bml	22 to 24 ft bml	27 to 29 ft bml	32 to 34 ft bml	37 to 39 ft bml	42 to 44 ft bml	47 to 49 ft bml	52 to 54 ft bml		
elev_MLLW	-51.7 to -53.7	-56.7 to -58.7	-61.7 to -63.7	-66.7 to -68.7	-71.7 to -73.7	-76.7 to -78.7	-81.7 to -83.7	-86.7 to -88.7		
elev_NGVD	-58 to -60	-63 to -65	-68 to -70	-73 to -75	-78 to -80	-83 to -85	-88 to -90	-93 to -95		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 UJ	1.6 UJ	1.7 U	1.7 U	R	R	17 U	1.5 UJ
1,1,2-Trichloroethane	µg/kg	15.2	0.61 UJ	0.63 UJ	0.65 U	0.65 U	R	R	13 U	0.58 U
1,1-Dichloroethene	µg/kg	1.13	10 J	39 J	110	54	R	R	630	8.5
Carbon tetrachloride	µg/kg	1.93	1.0 UJ	1.0 UJ	1.1 U	1.1 U	R	R	6.4 U	0.96 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 UJ	1.9 UJ	1.9 U	1.9 U	R	R	10 U	2.1 J
cis-1,2-Dichloroethene	µg/kg	NV	7000	86000	150000	88000	4100	4300	36000	1500
Methylene chloride	µg/kg	475	5.8 UJ	6.0 UJ	6.2 U	6.2 U	R	R	23 U	5.5 U
Tetrachloroethene	µg/kg	4.88	0.68 UJ	0.70 UJ	0.73 U	0.73 U	R	R	24 J	6.2
trans-1,2-Dichloroethene	µg/kg	3247	17 J	200 J	1600	190	94 J	R	700	24
Trichloroethene	µg/kg	30.8	0.90 UJ	1.6 J	0.96 U	0.96 U	R	R	200	3.5 J
Vinyl chloride	µg/kg	0.73	1300 J	220 J	1600 J	17000 J	66 J	R	11000	380 J
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-13	5106-13	5106-13	5106-13	5106-13	5106-13	5106-13	5106-13	
<i>Sample ID:</i>		SE-112905-5106-13-013	SE-112905-5106-13-014	SE-112905-5106-13-015	SE-112905-5106-13-016	SE-112905-5106-13-017	SE-112905-5106-13-018	SE-112905-5106-13-019	SE-113005-5106-13-020	
<i>Sample Date:</i>		11/29/2005	11/29/2005	11/29/2005	11/29/2005	11/29/2005	11/29/2005	11/29/2005	11/30/2005	
<i>Sample Depth:</i>		57 to 59 ft bml	62 to 64 ft bml	67 to 69 ft bml	72 to 74 ft bml	77 to 79 ft bml	82 to 84 ft bml	87 to 89 ft bml	92 to 94 ft bml	
<i>elev_MLLW</i>		-91.7 to -93.7	-96.7 to -98.7	-101.7 to -103.7	-106.7 to -108.7	-111.7 to -113.7	-116.7 to -118.7	-121.7 to -123.7	-126.7 to -128.7	
<i>elev_NGVD</i>		-98 to -100	-103 to -105	-108 to -110	-113 to -115	-118 to -120	-123 to -125	-128 to -130	-133 to -135	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.5 U	1.6 U	1.5 U	1.5 U	1.6 U	1.6 U	R
1,1,2-Trichloroethane	µg/kg	15.2	0.64 U	0.59 U	0.61 U	0.59 U	0.58 U	0.62 U	0.60 U	R
1,1-Dichloroethene	µg/kg	1.13	6.8 J	0.97 U	1.2 J	0.98 U	17	2.5 J	0.99 U	R
Carbon tetrachloride	µg/kg	1.93	1.1 U	0.98 U	1.0 U	0.99 U	0.97 U	1.0 U	1.0 U	R
Chloroform (Trichloromethane)	µg/kg	160	2.5 J	3.1 J	3.1 J	2.9 J	1.7 U	1.9 U	1.8 U	R
cis-1,2-Dichloroethene	µg/kg	NV	12000	1.3 U	13000	1.3 U	35000	8500	1.3 U	27 J
Methylene chloride	µg/kg	475	6.1 U	5.6 U	5.8 U	5.7 U	5.5 U	6.0 U	5.7 U	R
Tetrachloroethene	µg/kg	4.88	8.5	10	7.1	5.2 J	1.1 J	0.70 U	0.68 U	R
trans-1,2-Dichloroethene	µg/kg	3247	1.8 U	1.6 U	1.7 U	1.7 U	36	1.8 U	1.7 U	R
Trichloroethene	µg/kg	30.8	18000	59	7.8	4.2 J	26	2.7 J	3.8 J	17 J
Vinyl chloride	µg/kg	0.73	R	R	R	R	1300 J	R	R	R
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-13	5106-13	5106-14	5106-14	5106-14	5106-14	5106-14	5106-14	5106-14	
Sample ID:	SE-113005-5106-13-021	SE-113005-5106-13-022	SE-120105-5106-14-003	SE-120105-5106-14-004	SE-120105-5106-14-005	SE-120105-5106-14-006	SE-120105-5106-14-007	SE-120105-5106-14-008		
Sample Date:	11/30/2005	11/30/2005	12/1/2005	12/1/2005	12/1/2005	12/1/2005	12/1/2005	12/1/2005	12/1/2005	
Sample Depth:	97 to 99 ft bml	102 to 104 ft bml	7 to 9 ft bml	12 to 14 ft bml	17 to 19 ft bml	22 to 24 ft bml	27 to 29 ft bml	32 to 34 ft bml		
elev_MLLW	-131.7 to -133.7	-136.7 to -138.7	-44 to -46	-49 to -51	-54 to -56	-59 to -61	-64 to -66	-69 to -71		
elev_NGVD	-138 to -140	-143 to -145	-50.3 to -52.3	-55.3 to -57.3	-60.3 to -62.3	-65.3 to -67.3	-70.3 to -72.3	-75.3 to -77.3		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.5 U	1.4 U	3.26 U	2.93 U	2.87 U	2.98 U	2.77 U	3 U
1,1,2-Trichloroethane	µg/kg	15.2	0.57 U	0.53 U	8.92 U	8.03 U	7.86 U	8.17 U	7.59 U	8.24 U
1,1-Dichloroethene	µg/kg	1.13	0.94 U	0.87 U	2.26 J	2.51 J	12.7	2.28 J	5.04 J	2.8 J
Carbon tetrachloride	µg/kg	1.93	0.95 U	0.88 U	2.29 U	2.06 UJ	2.01 U	2.09 U	1.94 U	2.11 U
Chloroform (Trichloromethane)	µg/kg	160	1.7 U	1.6 U	2.03 U	1.82 U	1.79 U	1.86 U	1.72 U	1.87 U
cis-1,2-Dichloroethene	µg/kg	NV	1.3 U	1.2 U	56.6	63.5 J	708	68.1	320	334
Methylene chloride	µg/kg	475	5.5 U	5.1 U	3.13 U	2.81 U	2.76 U	2.86 U	2.66 U	2.89 U
Tetrachloroethene	µg/kg	4.88	0.64 U	0.60 U	2.21 U	75.4 J	10.5	16.4	7.64 J	2.04 U
trans-1,2-Dichloroethene	µg/kg	3247	1.6 U	1.5 U	5.08 J	278 J	96.4	405	535	46.9
Trichloroethene	µg/kg	30.8	0.84 U	0.79 U	2.17 U	87.1 J	1.91 U	5.23 J	16.3	3.92 J
Vinyl chloride	µg/kg	0.73	R	R	3.39 J	2.32 UJ	6990 J	27100 J	30500 J	351 J
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>5106-14</i>	<i>5106-14</i>	<i>5106-14</i>	<i>5106-14</i>	<i>5106-14</i>	<i>5106-14</i>	<i>5106-14</i>	<i>5106-14</i>	
<i>Sample ID:</i>		<i>SE-120105-5106-14-009</i>	<i>SE-120105-5106-14-010</i>	<i>SE-120205-5106-14-011</i>	<i>SE-120205-5106-14-012</i>	<i>SE-120205-5106-14-013</i>	<i>SE-120205-5106-14-014</i>	<i>SE-120205-5106-14-015</i>	<i>SE-120205-5106-14-016</i>	
<i>Sample Date:</i>		<i>12/1/2005</i>	<i>12/1/2005</i>	<i>12/2/2005</i>	<i>12/2/2005</i>	<i>12/2/2005</i>	<i>12/2/2005</i>	<i>12/2/2005</i>	<i>12/2/2005</i>	
<i>Sample Depth:</i>		<i>37 to 39 ft bml</i>	<i>42 to 44 ft bml</i>	<i>47 to 49 ft bml</i>	<i>52 to 54 ft bml</i>	<i>52 to 54 ft bml</i>	<i>57 to 59 ft bml</i>	<i>57 to 59 ft bml</i>	<i>62 to 64 ft bml</i>	
<i>elev_MLLW</i>		<i>-74 to -76</i>	<i>-79 to -81</i>	<i>-84 to -86</i>	<i>-89 to -91</i>	<i>-89 to -91</i>	<i>-94 to -96</i>	<i>-94 to -96</i>	<i>-99 to -101</i>	
<i>elev_NGVD</i>		<i>-80.3 to -82.3</i>	<i>-85.3 to -87.3</i>	<i>-90.3 to -92.3</i>	<i>-95.3 to -97.3</i>	<i>-95.3 to -97.3</i>	<i>-100.3 to -102.3</i>	<i>-100.3 to -102.3</i>	<i>-105.3 to -107.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>				<i>(Duplicate)</i>		<i>(Duplicate)</i>		
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3.1 U	2.76 U	R	3.03 U	2.78 U	2.84 U	2.7 U	2.87 U
1,1,2-Trichloroethane	µg/kg	15.2	8.51 U	7.58 U	8.85 UJ	8.3 U	7.61 U	7.79 U	7.41 U	7.88 U
1,1-Dichloroethene	µg/kg	1.13	2.03 U	1.81 U	2.11 U	1.98 U	1.82 U	1.86 U	1.77 U	1.88 U
Carbon tetrachloride	µg/kg	1.93	2.18 U	1.94 U	2.27 UJ	2.13 U	1.95 U	2 U	1.9 U	2.02 U
Chloroform (Trichloromethane)	µg/kg	160	1.93 U	1.72 U	2.01 U	1.89 U	1.73 U	1.77 U	1.68 U	1.79 U
cis-1,2-Dichloroethene	µg/kg	NV	163	81.3	231 J	169	233	1.79 U	1.7 U	1.81 U
Methylene chloride	µg/kg	475	2.98 U	2.66 U	3.1 U	2.91 U	2.67 U	2.73 U	2.6 U	2.76 U
Tetrachloroethene	µg/kg	4.88	2.1 U	1.87 U	2.19 U	2.05 U	1.88 U	1.93 U	1.83 U	1.95 U
trans-1,2-Dichloroethene	µg/kg	3247	118	82.4	14.6 J	21.1	25.1	2.02 U	1.92 U	2.04 U
Trichloroethene	µg/kg	30.8	3.42 J	1.84 U	2.15 U	2.01 U	1.85 U	1.89 U	1.8 U	1.91 U
Vinyl chloride	µg/kg	0.73	806 J	856 J	23.8 J	62.4 J	61.6 J	54.1	48.4	217
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-14	5106-19	5106-19	5106-19	5106-19	5106-20	5106-20	5106-20		
Sample ID:	SE-120205-5106-14-017	SE-011306-5106-19-002	SE-011306-5106-19-003	SE-011406-5106-19-004	SE-011606-5106-19-005	SE-010406-5106-20-002	SE-010406-5106-20-003	SE-010406-5106-20-004		
Sample Date:	12/2/2005	1/13/2006	1/13/2006	1/14/2006	1/16/2006	1/4/2006	1/4/2006	1/4/2006		
Sample Depth:	67 to 69 ft bml	10.5 to 12.5 ft bml	20.5 to 22.5 ft bml	30.5 to 32.5 ft bml	40.5 to 42.5 ft bml	3.5 to 5.5 ft bml	8.5 to 10.5 ft bml	13.5 to 15.5 ft bml		
elev_MLLW	-104 to -106	-48.6 to -50.6	-58.6 to -60.6	-68.6 to -70.6	-78.6 to -80.6	-38 to -40	-43 to -45	-48 to -50		
elev_NGVD	-110.3 to -112.3	-54.9 to -56.9	-64.9 to -66.9	-74.9 to -76.9	-84.9 to -86.9	-44.3 to -46.3	-49.3 to -51.3	-54.3 to -56.3		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.65 U	3.26 U	3.25 U	2.81 UJ	2.81 U	2.98 U	3.16 U	2.89 U
1,1,2-Trichloroethane	µg/kg	15.2	7.27 U	8.93 U	8.9 U	7.7 U	7.71 U	8.16 U	8.66 U	7.94 U
1,1-Dichloroethene	µg/kg	1.13	4.65 J	2.13 U	2.13 U	1.84 U	1.84 U	1.95 U	5.53 J	95
Carbon tetrachloride	µg/kg	1.93	1.86 U	2.29 U	2.28 U	1.97 UJ	1.97 UJ	2.09 U	2.22 U	2.03 U
Chloroform (Trichloromethane)	µg/kg	160	1.65 U	2.03 U	2.02 U	1.75 UJ	1.75 UJ	1.85 U	1.97 U	1.8 U
cis-1,2-Dichloroethene	µg/kg	NV	112	2.05 U	2.05 U	17 J	1.77 UJ	1.88 U	1.99 U	7710
Methylene chloride	µg/kg	475	2.55 U	3.13 U	3.12 U	2.7 U	2.7 U	2.86 U	3.03 U	2.78 U
Tetrachloroethene	µg/kg	4.88	1.8 U	2.21 U	2.2 U	1.9 U	1.91 U	2.02 U	2.14 U	1.96 U
trans-1,2-Dichloroethene	µg/kg	3247	21.4 J	2.31 U	3.23 J	40.2 J	2 UJ	4.08 J	189	159
Trichloroethene	µg/kg	30.8	1.76 U	2.17 U	16.1	28.3 J	1.87 U	1.98 U	2.1 U	1.93 U
Vinyl chloride	µg/kg	0.73	289	2.58 U	31.1	152 J	29.8 J	2.36 U	2.5 U	10600
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>5106-20</i>	<i>5106-20</i>	<i>5106-20</i>	<i>5106-20</i>	<i>5106-20</i>	<i>5106-20</i>	<i>5106-20</i>	<i>5106-20</i>	
<i>Sample ID:</i>		<i>SE-010406-5106-20-005</i>	<i>SE-010506-5106-20-006</i>	<i>SE-010506-5106-20-007</i>	<i>SE-010506-5106-20-008</i>	<i>SE-010506-5106-20-009</i>	<i>SE-010506-5106-20-010</i>	<i>SE-010506-5106-20-011</i>	<i>SE-010506-5106-20-012</i>	
<i>Sample Date:</i>		<i>1/4/2006</i>	<i>1/5/2006</i>	<i>1/5/2006</i>	<i>1/5/2006</i>	<i>1/5/2006</i>	<i>1/5/2006</i>	<i>1/5/2006</i>	<i>1/5/2006</i>	
<i>Sample Depth:</i>		<i>18.5 to 20.5 ft bml</i>	<i>23.5 to 25.5 ft bml</i>	<i>28.5 to 30.5 ft bml</i>	<i>28.5 to 30.5 ft bml</i>	<i>33.5 to 35.5 ft bml</i>	<i>38.5 to 40.5 ft bml</i>	<i>43.5 to 45.5 ft bml</i>	<i>48.5 to 50.5 ft bml</i>	
<i>elev_MLLW</i>		<i>-53 to -55</i>	<i>-58 to -60</i>	<i>-63 to -65</i>	<i>-63 to -65</i>	<i>-68 to -70</i>	<i>-73 to -75</i>	<i>-78 to -80</i>	<i>-83 to -85</i>	
<i>elev_NGVD</i>		<i>-59.3 to -61.3</i>	<i>-64.3 to -66.3</i>	<i>-69.3 to -71.3</i>	<i>-69.3 to -71.3</i>	<i>-74.3 to -76.3</i>	<i>-79.3 to -81.3</i>	<i>-84.3 to -86.3</i>	<i>-89.3 to -91.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3.31 U	3.64 U	2.89 U	2.91 U	2.91 U	2.88 U	31.2 U	32.6 U
1,1,2-Trichloroethane	µg/kg	15.2	9.08 U	9.97 UJ	7.94 U	7.98 U	7.98 U	7.89 U	85.6 U	89.4 U
1,1-Dichloroethene	µg/kg	1.13	32.4	31.8	133	118	15.3	5.11 J	125	155
Carbon tetrachloride	µg/kg	1.93	2.33 U	2.55 U	2.03 U	2.04 U	2.04 U	2.02 U	21.9 U	22.9 U
Chloroform (Trichloromethane)	µg/kg	160	2.06 U	2.26 U	1.8 U	1.81 U	1.81 U	1.79 U	19.4 U	20.3 U
cis-1,2-Dichloroethene	µg/kg	NV	3230	1800	10400	9450	881	131	16000	8730
Methylene chloride	µg/kg	475	3.18 U	3.49 UJ	2.78 U	2.8 U	2.79 U	2.77 U	30 U	31.3 U
Tetrachloroethene	µg/kg	4.88	2.25 U	2.47 U	2.21 J	1.97 U	1.97 U	1.95 U	21.2 U	88.2 J
trans-1,2-Dichloroethene	µg/kg	3247	27.2	28.8 J	176	159	30.8	26.1	396	363
Trichloroethene	µg/kg	30.8	2.2 U	2.42 U	11.3	10.4	1.94 U	1.92 U	20.8 U	71.7 J
Vinyl chloride	µg/kg	0.73	5090	9110	5990	6120	530	226	17200	11300
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>5106-20</i>	<i>5106-20</i>	<i>5106-20</i>	<i>5106-20</i>	<i>5106-20</i>	<i>5106-20</i>	<i>5106-20</i>	<i>5106-20</i>	
<i>Sample ID:</i>		<i>SE-010506-5106-20-013</i>	<i>SE-010506-5106-20-014</i>	<i>SE-010506-5106-20-015</i>	<i>SE-010506-5106-20-016</i>	<i>SE-010506-5106-20-017</i>	<i>SE-010606-5106-20-018</i>	<i>SE-010606-5106-20-019</i>	<i>SE-010606-5106-20-020</i>	
<i>Sample Date:</i>		<i>1/5/2006</i>	<i>1/5/2006</i>	<i>1/5/2006</i>	<i>1/5/2006</i>	<i>1/5/2006</i>	<i>1/6/2006</i>	<i>1/6/2006</i>	<i>1/6/2006</i>	
<i>Sample Depth:</i>		<i>53.5 to 55.5 ft bml</i>	<i>58.5 to 60.5 ft bml</i>	<i>63.5 to 65.5 ft bml</i>	<i>68.5 to 70.5 ft bml</i>	<i>73.5 to 75.5 ft bml</i>	<i>78.5 to 80.5 ft bml</i>	<i>83.5 to 85.5 ft bml</i>	<i>88.5 to 90.5 ft bml</i>	
<i>elev_MLLW</i>		<i>-88 to -90</i>	<i>-93 to -95</i>	<i>-98 to -100</i>	<i>-103 to -105</i>	<i>-108 to -110</i>	<i>-113 to -115</i>	<i>-118 to -120</i>	<i>-123 to -125</i>	
<i>elev_NGVD</i>		<i>-94.3 to -96.3</i>	<i>-99.3 to -101.3</i>	<i>-104.3 to -106.3</i>	<i>-109.3 to -111.3</i>	<i>-114.3 to -116.3</i>	<i>-119.3 to -121.3</i>	<i>-124.3 to -126.3</i>	<i>-129.3 to -131.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	27.3 U	3.07 U	15.1 U	3.09 U	2.98 U	2.09 U	2.19 U	2.19 U
1,1,2-Trichloroethane	µg/kg	15.2	74.8 U	8.42 U	41.4 U	8.46 U	8.17 U	5.74 U	6.02 U	5.99 U
1,1-Dichloroethene	µg/kg	1.13	182	2.01 U	9.88 U	2.02 U	1.95 U	1.37 U	1.44 U	1.43 U
Carbon tetrachloride	µg/kg	1.93	19.2 U	2.16 U	10.6 U	2.17 U	2.09 U	1.47 U	1.54 U	1.54 U
Chloroform (Trichloromethane)	µg/kg	160	17 U	1.91 U	9.4 U	1.92 U	1.85 U	1.3 U	1.37 U	1.36 U
cis-1,2-Dichloroethene	µg/kg	NV	20000	586	174	1.95 U	1.88 U	3.82 J	1.38 U	1.38 U
Methylene chloride	µg/kg	475	26.2 U	2.95 U	14.5 U	2.97 U	2.86 U	2.01 U	2.11 U	2.1 U
Tetrachloroethene	µg/kg	4.88	18.5 U	2.08 U	10.2 U	2.09 U	2.02 U	1.42 U	1.49 U	1.48 U
trans-1,2-Dichloroethene	µg/kg	3247	296	2.77 J	39.5 J	2.19 U	2.11 U	1.49 U	1.56 U	1.55 U
Trichloroethene	µg/kg	30.8	20.5 J	2.04 U	10 U	2.05 U	1.98 U	1.39 U	1.46 U	1.45 U
Vinyl chloride	µg/kg	0.73	9740	1200	4360	7.6 J	2.36 U	3.91 J	1.74 U	1.73 U
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-20	5106-21	5106-21	5106-21	5106-21	5106-21	5106-21	5106-21	
<i>Sample ID:</i>		SE-010606-5106-20-021	SE-010606-5106-21-002	SE-010606-5106-21-003	SE-010606-5106-21-004	SE-010906-5106-21-005	SE-010906-5106-21-006	SE-010906-5106-21-007	SE-010906-5106-21-008	
<i>Sample Date:</i>		1/6/2006	1/6/2006	1/6/2006	1/6/2006	1/9/2006	1/9/2006	1/9/2006	1/9/2006	
<i>Sample Depth:</i>		93.5 to 95.5 ft bml	5.5 to 7.5 ft bml	10.5 to 12.5 ft bml	15.5 to 17.5 ft bml	20.5 to 22.5 ft bml	25.5 to 27.5 ft bml	30.5 to 32.5 ft bml	35.5 to 37.5 ft bml	
<i>elev_MLLW</i>		-128 to -130	-42.6 to -44.6	-47.6 to -49.6	-52.6 to -54.6	-57.6 to -59.6	-62.6 to -64.6	-67.6 to -69.6	-72.6 to -74.6	
<i>elev_NGVD</i>		-134.3 to -136.3	-48.9 to -50.9	-53.9 to -55.9	-58.9 to -60.9	-63.9 to -65.9	-68.9 to -70.9	-73.9 to -75.9	-78.9 to -80.9	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.56 U	15 U	R	3.26 U	29.4 U	15.4 U	3.02 U	14.9 U
1,1,2-Trichloroethane	µg/kg	15.2	7.01 U	41 U	R	8.95 U	80.5 U	42.2 U	8.28 U	40.7 U
1,1-Dichloroethene	µg/kg	1.13	1.67 U	9.8 U	R	36.5	129	38 J	33.7	9.72 U
Carbon tetrachloride	µg/kg	1.93	1.79 U	10.5 U	R	2.29 U	20.6 U	10.8 U	2.12 U	10.4 U
Chloroform (Trichloromethane)	µg/kg	160	1.59 U	9.32 U	R	2.03 U	18.3 U	9.58 U	1.88 U	9.25 U
cis-1,2-Dichloroethene	µg/kg	NV	4.96 J	182	352 J	3340	17300	2750	2970	57.5 J
Methylene chloride	µg/kg	475	2.45 U	14.4 U	R	3.14 U	28.2 U	14.8 U	2.9 U	14.3 U
Tetrachloroethene	µg/kg	4.88	1.73 U	206	R	2.21 U	19.9 U	10.4 U	2.05 U	10.1 U
trans-1,2-Dichloroethene	µg/kg	3247	1.81 U	15 J	394 J	266	210	113	129	63.4
Trichloroethene	µg/kg	30.8	1.7 U	113	76 J	4.64 J	19.5 U	10.2 U	2.01 U	9.89 U
Vinyl chloride	µg/kg	0.73	8.96	13800	21500	19500	11200	16100	4730	3880
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-21	5106-21	5106-21	5106-21	5106-21	5106-21	5106-21	5106-21	
<i>Sample ID:</i>		SE-011006-5106-21-009	SE-011006-5106-21-010	SE-011006-5106-21-011	SE-011006-5106-21-012	SE-011006-5106-21-013	SE-011006-5106-21-014	SE-011006-5106-21-015	SE-011006-5106-21-016	
<i>Sample Date:</i>		1/10/2006	1/10/2006	1/10/2006	1/10/2006	1/10/2006	1/10/2006	1/10/2006	1/10/2006	
<i>Sample Depth:</i>		35.5 to 37.5 ft bml	40.5 to 42.5 ft bml	45.5 to 47.5 ft bml	50.5 to 52.5 ft bml	55.5 to 57.5 ft bml	60.5 to 62.5 ft bml	65.5 to 67.5 ft bml	70.5 to 72.5 ft bml	
<i>elev_MLLW</i>		-72.6 to -74.6	-77.6 to -79.6	-82.6 to -84.6	-87.6 to -89.6	-92.6 to -94.6	-97.6 to -99.6	-102.6 to -104.6	-107.6 to -109.6	
<i>elev_NGVD</i>		-78.9 to -80.9	-83.9 to -85.9	-88.9 to -90.9	-93.9 to -95.9	-98.9 to -100.9	-103.9 to -105.9	-108.9 to -110.9	-113.9 to -115.9	
		<i>(Duplicate)</i>								
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	17.9 U	29.3 U	3.7 U	3 U	2.96 U	3.07 U	3.15 U	3.1 U
1,1,2-Trichloroethane	µg/kg	15.2	49 U	80.2 U	10.1 U	8.22 U	8.12 U	8.42 UJ	8.64 U	8.51 U
1,1-Dichloroethene	µg/kg	1.13	11.7 U	48.3 J	2.42 U	1.96 U	2.01 U	1.94 U	2.06 U	2.03 U
Carbon tetrachloride	µg/kg	1.93	12.5 U	20.6 U	2.6 U	2.11 U	2.08 U	2.16 U	2.21 U	2.18 U
Chloroform (Trichloromethane)	µg/kg	160	11.1 U	18.2 U	2.31 U	1.87 U	1.84 U	1.91 U	1.96 U	1.93 U
cis-1,2-Dichloroethene	µg/kg	NV	278 J	4730	2.33 U	59.6	212	280 J	5.27 J	1.96 U
Methylene chloride	µg/kg	475	17.2 U	28.1 U	3.56 U	2.88 U	2.84 U	2.95 U	3.03 U	2.98 U
Tetrachloroethene	µg/kg	4.88	12.1 U	19.8 U	2.51 U	2.03 U	2.01 U	2.08 U	2.14 U	2.1 U
trans-1,2-Dichloroethene	µg/kg	3247	98.4	140	7.74 J	2.13 U	2.1 U	4.45 J	2.24 U	2.2 U
Trichloroethene	µg/kg	30.8	11.9 U	19.5 U	2.46 U	2 U	1.97 U	2.04 U	2.1 U	2.07 U
Vinyl chloride	µg/kg	0.73	10600	22800	1440	2720	810	858 J	96.1	2.46 U
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-21	5106-21	5106-21	5106-22	5106-22	5106-22	5106-22	5106-22
Sample ID:	SE-011006-5106-21-017	SE-011006-5106-21-018	SE-011006-5106-21-019	SE-012506-5106-22-004	SE-012506-5106-22-005	SE-012506-5106-22-006	SE-012506-5106-22-007	SE-012606-5106-22-008
Sample Date:	1/10/2006	1/10/2006	1/10/2006	1/25/2006	1/25/2006	1/25/2006	1/25/2006	1/25/2006
Sample Depth:	75.5 to 77.5 ft bml	80.5 to 82.5 ft bml	85.5 to 87.5 ft bml	10 to 12 ft bml	20 to 22 ft bml	30 to 32 ft bml	40 to 42 ft bml	50 to 52 ft bml
elev_MLLW	-112.6 to -114.6	-117.6 to -119.6	-122.6 to -124.6	-39.2 to -41.2	-49.2 to -51.2	-59.2 to -61.2	-69.2 to -71.2	-79.2 to -81.2
elev_NGVD	-118.9 to -120.9	-123.9 to -125.9	-128.9 to -130.9	-45.5 to -47.5	-55.5 to -57.5	-65.5 to -67.5	-75.5 to -77.5	-85.5 to -87.5
Parameters	Units	Cs						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.94 U	2.16 U	2.6 U	1.6 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	8.07 U	5.92 U	7.13 U	0.62 U	0.63 U	0.63 U
1,1-Dichloroethene	µg/kg	1.13	1.93 U	1.41 U	1.7 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/kg	1.93	2.07 U	1.52 U	1.83 U	1.0 U	1.1 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.83 U	1.34 U	1.62 U	1.9 U	1.9 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	1.86 U	1.36 U	1.64 U	1.4 U	1.4 U	1.4 U
Methylene chloride	µg/kg	475	2.83 U	2.07 U	2.5 U	5.9 U	6.0 U	6.0 U
Tetrachloroethene	µg/kg	4.88	1.99 U	1.46 U	1.76 U	0.70 U	0.71 U	0.71 U
trans-1,2-Dichloroethene	µg/kg	3247	2.09 U	1.53 U	1.85 U	1.8 U	1.8 U	1.8 U
Trichloroethene	µg/kg	30.8	1.96 U	1.44 U	1.73 U	0.92 U	0.93 U	0.94 U
Vinyl chloride	µg/kg	0.73	2.33 U	1.71 U	2.06 U	2.2 U	2.2 U	2.2 U
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
Metals~Total								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
PCBs								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
Pesticides								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-22	5106-22	5106-22	5106-22	5106-23	5106-23	5106-23	5106-23	
<i>Sample ID:</i>		SE-012606-5106-22-009	SE-012606-5106-22-010	SE-012606-5106-22-011	SE-012606-5106-22-012	SE-021006-5106-23-002	SE-021006-5106-23-003	SE-021006-5106-23-004	SE-021006-5106-23-005	
<i>Sample Date:</i>		1/26/2006	1/26/2006	1/26/2006	1/26/2006	2/10/2006	2/10/2006	2/10/2006	2/10/2006	
<i>Sample Depth:</i>		60 to 62 ft bml	70 to 72 ft bml	80 to 82 ft bml	100 to 102 ft bml	7 to 9 ft bml	7 to 9 ft bml	12 to 14 ft bml	17 to 19 ft bml	
<i>elev_MLLW</i>		-89.2 to -91.2	-99.2 to -101.2	-109.2 to -111.2	-129.2 to -131.2	-9.6 to -11.6	-9.6 to -11.6	-14.6 to -16.6	-19.6 to -21.6	
<i>elev_NGVD</i>		-95.5 to -97.5	-105.5 to -107.5	-115.5 to -117.5	-135.5 to -137.5	-15.9 to -17.9	-15.9 to -17.9	-20.9 to -22.9	-25.9 to -27.9	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>					<i>(Duplicate)</i>			
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.7 U	1.7 U	1.7 U	1.4 U	2.73 U	3.71 U	3.04 U	2.77 U
1,1,2-Trichloroethane	µg/kg	15.2	0.65 U	0.65 U	0.65 U	0.55 U	7.49 U	10.2 U	8.33 U	7.59 U
1,1-Dichloroethene	µg/kg	1.13	1.1 U	1.1 U	1.1 U	0.90 U	1.79 U	4.99 J	1.99 U	1.81 U
Carbon tetrachloride	µg/kg	1.93	1.1 U	1.1 U	1.1 U	0.91 U	1.92 U	2.6 U	2.13 UJ	1.94 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	1.9 U	1.9 U	1.6 U	3.59 J	2.31 U	1.89 U	1.72 U
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	1.4 U	1.4 U	1.2 U	5.83 J	51.5 J	1.92 U	1.75 U
Methylene chloride	µg/kg	475	6.2 U	6.2 U	6.2 U	5.2 U	2.62 U	3.56 U	2.92 U	2.66 U
Tetrachloroethene	µg/kg	4.88	0.73 U	0.73 U	0.73 U	0.61 U	6.4 J	2.51 U	2.06 U	1.88 U
trans-1,2-Dichloroethene	µg/kg	3247	1.8 U	1.8 U	1.8 U	1.5 U	4.53 J	9.35 J	2.16 U	1.97 U
Trichloroethene	µg/kg	30.8	0.96 U	0.96 U	0.95 U	0.81 U	13.6	7.36 J	2.02 U	1.84 U
Vinyl chloride	µg/kg	0.73	2.3 U	2.3 U	2.3 U	1.9 U	2.16 U	2.94 U	2.41 UJ	2.19 UJ
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-23	5106-23	5106-23	5106-23	5106-23	5106-24	5106-24	5106-24	
<i>Sample ID:</i>		SE-021006-5106-23-006	SE-021006-5106-23-007	SE-021006-5106-23-008	SE-021006-5106-23-009	SE-021006-5106-23-010	SE-020806-5106-24-002	SE-020806-5106-24-003	SE-020806-5106-24-004	
<i>Sample Date:</i>		2/10/2006	2/10/2006	2/10/2006	2/10/2006	2/10/2006	2/8/2006	2/8/2006	2/8/2006	
<i>Sample Depth:</i>		22 to 24 ft bml	27 to 29 ft bml	32 to 34 ft bml	37 to 39 ft bml	42 to 44 ft bml	7 to 9 ft bml	12 to 14 ft bml	12 to 14 ft bml	
<i>elev_MLLW</i>		-24.6 to -26.6	-29.6 to -31.6	-34.6 to -36.6	-39.6 to -41.6	-44.6 to -46.6	-9.2 to -11.2	-14.2 to -16.2	-14.2 to -16.2	
<i>elev_NGVD</i>		-30.9 to -32.9	-35.9 to -37.9	-40.9 to -42.9	-45.9 to -47.9	-50.9 to -52.9	-15.5 to -17.5	-20.5 to -22.5	-20.5 to -22.5	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							<i>(Duplicate)</i>	
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3.01 U	3 U	3.18 U	3.05 U	2.9 U	3.19 U	2.88 U	3.01 U
1,1,2-Trichloroethane	µg/kg	15.2	8.25 U	8.22 U	8.71 U	8.37 U	12.9	8.75 U	7.9 U	8.26 U
1,1-Dichloroethene	µg/kg	1.13	1.97 U	1.96 U	5.69 J	35	6.23 J	2.09 U	1.89 U	1.97 U
Carbon tetrachloride	µg/kg	1.93	2.11 U	2.1 U	2.23 U	2.15 U	2.04 U	2.24 UJ	2.02 U	2.12 U
Chloroform (Trichloromethane)	µg/kg	160	1.87 U	1.87 U	1.98 U	1.9 U	1.81 U	1.99 U	1.8 U	1.88 U
cis-1,2-Dichloroethene	µg/kg	NV	1.9 U	1.89 U	156	1630	350	2.01 UJ	1.82 U	1.9 U
Methylene chloride	µg/kg	475	2.89 U	2.88 U	3.05 U	2.93 U	2.79 U	3.06 U	2.77 U	2.89 U
Tetrachloroethene	µg/kg	4.88	2.04 U	2.03 U	2.15 U	2.07 U	1.97 U	2.16 U	1.95 U	2.04 U
trans-1,2-Dichloroethene	µg/kg	3247	2.14 U	2.13 U	20.3	150	183	2.27 UJ	5.29 J	6.87 J
Trichloroethene	µg/kg	30.8	2 U	1.99 U	2.11 U	2.03 U	1.93 U	2.12 U	3.02 J	2 U
Vinyl chloride	µg/kg	0.73	2.38 UJ	2.37 UJ	1550 J	1240 J	3200 J	2.53 UJ	2.28 UJ	2.39 UJ
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-24	5106-24	5106-24	5106-24	5106-24	5106-24	5106-24	5106-24	5106-24	
Sample ID:	SE-020806-5106-24-005	SE-020806-5106-24-006	SE-020806-5106-24-007	SE-020806-5106-24-008	SE-020806-5106-24-009	SE-020906-5106-24-010	SE-020906-5106-24-011	SE-020906-5106-24-012		
Sample Date:	2/8/2006	2/8/2006	2/8/2006	2/8/2006	2/8/2006	2/9/2006	2/9/2006	2/9/2006		
Sample Depth:	17 to 19 ft bml	22 to 24 ft bml	27 to 29 ft bml	32 to 34 ft bml	37 to 39 ft bml	42 to 44 ft bml	47 to 49 ft bml	52 to 54 ft bml		
elev_MLLW	-19.2 to -21.2	-24.2 to -26.2	-29.2 to -31.2	-34.2 to -36.2	-39.2 to -41.2	-44.2 to -46.2	-49.2 to -51.2	-54.2 to -56.2		
elev_NGVD	-25.5 to -27.5	-30.5 to -32.5	-35.5 to -37.5	-40.5 to -42.5	-45.5 to -47.5	-50.5 to -52.5	-55.5 to -57.5	-60.5 to -62.5		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.89 U	3.05 U	3.06 U	3.04 U	2.99 U	2.9 U	3.07 U	3.02 U
1,1,2-Trichloroethane	µg/kg	15.2	7.92 U	8.37 U	12.7	25.3	8.2 U	7.95 U	19.6	8.29 U
1,1-Dichloroethene	µg/kg	1.13	1.89 U	2 U	2 U	4.22 J	21.4	11.4	141	121
Carbon tetrachloride	µg/kg	1.93	2.03 U	2.14 U	2.15 U	2.13 U	2.1 U	2.04 U	2.15 U	2.12 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.9 U	1.9 U	1.89 U	1.86 U	1.81 U	1.91 U	1.88 U
cis-1,2-Dichloroethene	µg/kg	NV	1.82 UJ	1.92 UJ	1.93 UJ	1.91 UJ	1770	978	18400	19000
Methylene chloride	µg/kg	475	2.78 U	2.93 U	2.94 U	2.92 U	2.87 U	2.79 U	2.95 U	2.9 U
Tetrachloroethene	µg/kg	4.88	1.96 U	2.07 U	2.88 J	2.06 U	4.01 J	2.81 J	52.6	2.05 U
trans-1,2-Dichloroethene	µg/kg	3247	3.07 J	2.17 U	14.4	31	40.2	20.3	172	126
Trichloroethene	µg/kg	30.8	1.92 U	2.03 U	24.6	9.36	3.17 J	4.12 J	81.8	12.6
Vinyl chloride	µg/kg	0.73	2.29 UJ	2.42 UJ	2.42 UJ	2.41 UJ	1250 J	2.3 UJ	8260 J	9920 J
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	5106-24		5106-24		5106-24		5106-24		5106-24		5106-24					
Sample ID:	SE-020906-5106-24-013		SE-020906-5106-24-014		SE-020906-5106-24-015		SE-020906-5106-24-016		SE-020906-5106-24-017		SE-020906-5106-24-018		SE-020906-5106-24-019		SE-020906-5106-24-020	
Sample Date:	2/9/2006		2/9/2006		2/9/2006		2/9/2006		2/9/2006		2/9/2006		2/9/2006		2/9/2006	
Sample Depth:	57 to 59 ft bml		62 to 64 ft bml		67 to 69 ft bml		72 to 74 ft bml		77 to 79 ft bml		82 to 84 ft bml		87 to 89 ft bml		92 to 94 ft bml	
elev_MLLW	-59.2 to -61.2		-64.2 to -66.2		-69.2 to -71.2		-74.2 to -76.2		-79.2 to -81.2		-84.2 to -86.2		-89.2 to -91.2		-94.2 to -96.2	
elev_NGVD	-65.5 to -67.5		-70.5 to -72.5		-75.5 to -77.5		-80.5 to -82.5		-85.5 to -87.5		-90.5 to -92.5		-95.5 to -97.5		-100.5 to -102.5	
Parameters	Units	Cs														
Volatile Organic Compounds																
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.89 U	2.95 U	2.9 U	5.4 U	3 U	3.23 U	2.98 U	2.92 U						
1,1,2-Trichloroethane	µg/kg	15.2	7.94 U	8.09 U	7.94 U	14.8 U	8.22 U	8.86 U	8.17 U	7.99 U						
1,1-Dichloroethene	µg/kg	1.13	137	1.93 U	47	68.1	7.16 J	2.11 U	1.95 U	1.91 U						
Carbon tetrachloride	µg/kg	1.93	2.03 U	2.07 U	2.03 U	3.79 U	2.11 U	2.27 U	2.09 U	2.05 U						
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.84 U	1.8 U	3.36 U	1.87 U	2.01 U	1.86 U	1.82 U						
cis-1,2-Dichloroethene	µg/kg	NV	21700	1.86 UJ	7890	8470	905	221	2.69 J	210						
Methylene chloride	µg/kg	475	2.78 U	2.83 U	2.78 U	5.19 U	2.88 U	3.1 U	2.86 U	2.8 U						
Tetrachloroethene	µg/kg	4.88	1.96 U	2 U	1.96 U	3.66 U	2.03 U	2.19 U	2.02 U	1.98 U						
trans-1,2-Dichloroethene	µg/kg	3247	132	2.09 U	34.4	359	88	40.4	2.12 U	3.62 J						
Trichloroethene	µg/kg	30.8	1.93 U	1.96 U	1.93 U	3.59 U	2 U	2.15 U	1.98 U	1.94 U						
Vinyl chloride	µg/kg	0.73	9610 J	2880 J	6370 J	21100	6120	2440	22.5	1060						
Semi-volatile Organic Compounds																
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-						
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-						
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-						
Metals~Total																
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-						
Chromium	µg/kg	714	-	-	-	-	-	-	-	-						
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-						
Lead	µg/kg	81002	-	-	-	-	-	-	-	-						
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-						
Nickel	µg/kg	535	-	-	-	-	-	-	-	-						
Thallium	µg/kg	34	-	-	-	-	-	-	-	-						
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-						
PCBs																
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-						
Pesticides																
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-						
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-						
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-						

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-24	5106-25	5106-25	5106-25	5106-25	5106-25	5106-25	5106-25	
<i>Sample ID:</i>		SE-020906-5106-24-021	SE-041406-5106-25-001	SE-041406-5106-25-002	SE-041406-5106-25-003	SE-041706-5106-25-004	SE-041706-5106-25-005	SE-041806-5106-25-006	SE-041806-5106-25-007	
<i>Sample Date:</i>		2/9/2006	4/14/2006	4/14/2006	4/14/2006	4/17/2006	4/17/2006	4/18/2006	4/18/2006	
<i>Sample Depth:</i>		97 to 99 ft bml	9 to 13 ft bml	20 to 22 ft bml	30 to 32 ft bml	40 to 42 ft bml	50 to 52 ft bml	60 to 62 ft bml	60 to 62 ft bml	
<i>elev_MLLW</i>		-99.2 to -101.2	-11.2 to -15.2	-22.2 to -24.2	-32.2 to -34.2	-42.2 to -44.2	-52.2 to -54.2	-62.2 to -64.2	-62.2 to -64.2	
<i>elev_NGVD</i>		-105.5 to -107.5	-17.5 to -21.5	-28.5 to -30.5	-38.5 to -40.5	-48.5 to -50.5	-58.5 to -60.5	-68.5 to -70.5	-68.5 to -70.5	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							<i>(Duplicate)</i>	
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.76 U	7.7 U	6.8 U	40 U	39 U	9.0 UJ	7.4 U	7.5 U
1,1,2-Trichloroethane	µg/kg	15.2	7.57 U	7.1 U	6.2 U	37 U	36 U	8.2 UJ	6.8 U	6.9 U
1,1-Dichloroethene	µg/kg	1.13	1.81 U	12 J	24	34 U	47 J	7.6 UJ	6.3 U	6.4 U
Carbon tetrachloride	µg/kg	1.93	1.94 U	3.9 U	3.4 U	20 U	19 U	4.5 UJ	3.7 U	3.7 U
Chloroform (Trichloromethane)	µg/kg	160	1.72 U	3.3 U	3.0 U	17 U	17 U	3.9 UJ	3.2 U	3.2 U
cis-1,2-Dichloroethene	µg/kg	NV	2.23 J	450	1200	96	3400	290 J	4.9 U	4.9 U
Methylene chloride	µg/kg	475	2.65 U	3.6 U	3.2 U	19 U	18 U	4.2 UJ	3.5 U	3.5 U
Tetrachloroethene	µg/kg	4.88	1.87 U	5.5 U	4.8 U	28 U	28 U	6.4 UJ	5.3 U	5.3 U
trans-1,2-Dichloroethene	µg/kg	3247	1.96 U	11 J	20	27 J	65 J	4.9 UJ	4.1 U	4.1 U
Trichloroethene	µg/kg	30.8	1.84 U	5.0 U	4.5 U	26 U	25 U	5.9 UJ	4.9 U	4.9 U
Vinyl chloride	µg/kg	0.73	10.2	140	2200	6400	2500	310 J	5.9 U	6.0 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-25	5106-25	5106-26	5106-26	5106-26	5106-26	5106-26	5106-26	5106-26	
Sample ID:	SE-041806-5106-25-008	SE-041806-5106-25-009	SE-021406-5106-26-002	SE-021406-5106-26-003	SE-021406-5106-26-004	SE-021406-5106-26-005	SE-021406-5106-26-006	SE-021406-5106-26-007		
Sample Date:	4/18/2006	4/18/2006	2/14/2006	2/14/2006	2/14/2006	2/14/2006	2/14/2006	2/14/2006	2/14/2006	
Sample Depth:	70 to 72 ft bml	80 to 82 ft bml	7 to 9 ft bml	12 to 14 ft bml	17 to 19 ft bml	22 to 24 ft bml	27 to 29 ft bml	32 to 34 ft bml		
elev_MLLW	-72.2 to -74.2	-82.2 to -84.2	-5.1 to -7.1	-10.1 to -12.1	-15.1 to -17.1	-20.1 to -22.1	-25.1 to -27.1	-30.1 to -32.1		
elev_NGVD	-78.5 to -80.5	-88.5 to -90.5	-11.4 to -13.4	-16.4 to -18.4	-21.4 to -23.4	-26.4 to -28.4	-31.4 to -33.4	-36.4 to -38.4		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	7.6 U	6.3 UJ	1.5 U	1.6 U	1.6 UJ	1.6 U	1.6 UJ	1.6 UJ
1,1,2-Trichloroethane	µg/kg	15.2	7.0 U	5.8 UJ	0.59 U	0.61 U	0.61 U	0.61 U	0.63 U	0.62 U
1,1-Dichloroethene	µg/kg	1.13	6.5 U	5.4 UJ	0.97 U	1.0 U	1.50	7.4	200	92
Carbon tetrachloride	µg/kg	1.93	3.8 U	3.1 UJ	0.98 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/kg	160	3.3 U	2.7 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	5.0 U	4.1 UJ	1.3 U	5.8 J	8800	2700	28000	24000
Methylene chloride	µg/kg	475	3.6 U	2.9 U	5.6 U	5.9 U	5.8 U	5.8 U	6.0 U	5.9 U
Tetrachloroethene	µg/kg	4.88	5.5 U	4.5 UJ	0.66 U	0.69 U	0.68 U	0.68 U	0.70 U	0.70 U
trans-1,2-Dichloroethene	µg/kg	3247	4.2 U	3.4 UJ	1.7 U	1.7 U	120 U	12	370	210
Trichloroethene	µg/kg	30.8	5.0 U	4.1 UJ	0.87 U	0.91 U	0.90 U	0.90 U	0.92 U	1.3 J
Vinyl chloride	µg/kg	0.73	6.1 U	6.9 J	2.1 U	2.1 U	1000	11	7700	9600
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-26	5106-26	5106-26	5106-26	5106-26	5106-26	5106-26	5106-26	5106-26	
Sample ID:	SE-021406-5106-26-008	SE-021406-5106-26-009	SE-021506-5106-26-010	SE-021506-5106-26-011	SE-021506-5106-26-012	SE-021506-5106-26-013	SE-021506-5106-26-014	SE-021506-5106-26-015	SE-021506-5106-26-015	
Sample Date:	2/14/2006	2/14/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006	
Sample Depth:	37 to 39 ft bml	37 to 39 ft bml	42 to 44 ft bml	47 to 49 ft bml	52 to 54 ft bml	57 to 59 ft bml	62 to 64 ft bml	67 to 69 ft bml	67 to 69 ft bml	
elev_MLLW	-35.1 to -37.1	-35.1 to -37.1	-40.1 to -42.1	-45.1 to -47.1	-50.1 to -52.1	-55.1 to -57.1	-60.1 to -62.1	-65.1 to -67.1	-65.1 to -67.1	
elev_NGVD	-41.4 to -43.4	-41.4 to -43.4	-46.4 to -48.4	-51.4 to -53.4	-56.4 to -58.4	-61.4 to -63.4	-66.4 to -68.4	-71.4 to -73.4	-71.4 to -73.4	
		(Duplicate)								
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 UJ	1.6 U	1.6 UJ	1.6 U	1.6 U	1.6 UJ	1.6 U	1.6 UJ
1,1,2-Trichloroethane	µg/kg	15.2	13	12	3.7 J	4.9 J	0.62 U	0.61 U	0.61 U	0.63 U
1,1-Dichloroethene	µg/kg	1.13	88	78	190	88	1.3 J	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/kg	1.93	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	14000	14000	59000	10000	85	1.4 U	1.4 U	1.4 U
Methylene chloride	µg/kg	475	5.9 U	5.8 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	12
Tetrachloroethene	µg/kg	4.88	0.69 U	0.68 U	0.69 U	0.69 U	1.7 J	0.69 U	0.69 U	0.71 U
trans-1,2-Dichloroethene	µg/kg	3247	220	180	700	140	3.6 J	1.7 U	1.7 U	1.8 U
Trichloroethene	µg/kg	30.8	4.7 J	4.4 J	2.7 J	1.8 J	2.5 J	0.91 U	0.91 U	0.93 U
Vinyl chloride	µg/kg	0.73	2500	4500	3300	2200	110	2.1 U	2.1 U	2.2 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>5106-26</i>	<i>5106-26</i>	<i>5106-26</i>	<i>5106-26</i>	<i>5106-26</i>	<i>5106-27</i>	<i>5106-27</i>	<i>5106-27</i>	
<i>Sample ID:</i>		<i>SE-021506-5106-26-016</i>	<i>SE-021506-5106-26-017</i>	<i>SE-021606-5106-26-018</i>	<i>SE-021606-5106-26-019</i>	<i>SE-021606-5106-26-020</i>	<i>SE-041006-5106-27-002</i>	<i>SE-041106-5106-27-003</i>	<i>SE-041106-5106-27-004</i>	
<i>Sample Date:</i>		<i>2/15/2006</i>	<i>2/15/2006</i>	<i>2/16/2006</i>	<i>2/16/2006</i>	<i>2/16/2006</i>	<i>4/10/2006</i>	<i>4/11/2006</i>	<i>4/11/2006</i>	
<i>Sample Depth:</i>		<i>72 to 74 ft bml</i>	<i>77 to 79 ft bml</i>	<i>82 to 84 ft bml</i>	<i>87 to 89 ft bml</i>	<i>92 to 94 ft bml</i>	<i>10 to 12 ft bml</i>	<i>15 to 17 ft bml</i>	<i>20 to 22 ft bml</i>	
<i>elev_MLLW</i>		<i>-70.1 to -72.1</i>	<i>-75.1 to -77.1</i>	<i>-80.1 to -82.1</i>	<i>-85.1 to -87.1</i>	<i>-90.1 to -92.1</i>	<i>-10.4 to -12.4</i>	<i>-15.4 to -17.4</i>	<i>-20.4 to -22.4</i>	
<i>elev_NGVD</i>		<i>-76.4 to -78.4</i>	<i>-81.4 to -83.4</i>	<i>-86.4 to -88.4</i>	<i>-91.4 to -93.4</i>	<i>-96.4 to -98.4</i>	<i>-16.7 to -18.7</i>	<i>-21.7 to -23.7</i>	<i>-26.7 to -28.7</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	6.8 U	6.8 U	6.3 U
1,1,2-Trichloroethane	µg/kg	15.2	0.54 U	0.54 U	0.53 U	0.54 U	0.56 U	6.2 U	6.2 U	5.8 U
1,1-Dichloroethene	µg/kg	1.13	0.89 U	0.89 U	0.87 U	0.89 U	0.92 U	5.8 U	5.8 U	5.4 U
Carbon tetrachloride	µg/kg	1.93	0.90 U	0.90 U	0.88 U	0.90 U	0.93 U	3.4 U	3.4 U	3.2 U
Chloroform (Trichloromethane)	µg/kg	160	1.6 U	1.6 U	1.6 U	1.6 U	1.7 U	2.9 U	2.9 U	2.7 U
cis-1,2-Dichloroethene	µg/kg	NV	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	4.4 U	4.4 U	170
Methylene chloride	µg/kg	475	5.2 U	5.2 U	5.0 U	5.2 U	5.3 U	3.2 U	3.2 U	2.9 U
Tetrachloroethene	µg/kg	4.88	0.61 U	0.61 U	0.59 U	0.61 U	0.63 U	4.8 U	4.8 U	4.5 U
trans-1,2-Dichloroethene	µg/kg	3247	1.5 U	1.5 U	1.5 U	1.5 U	1.6 U	3.7 U	3.7 U	3.5 U
Trichloroethene	µg/kg	30.8	0.80 U	0.80 U	0.78 U	0.80 U	0.82 U	4.4 U	4.4 U	4.1 U
Vinyl chloride	µg/kg	0.73	1.9 U	1.9 U	1.8 U	1.9 U	2.0 U	5.4 U	5.4 U	23
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>5106-27</i>	<i>5106-27</i>	<i>5106-27</i>	<i>5106-27</i>	<i>5106-27</i>	<i>5106-28</i>	<i>5106-28</i>	<i>5106-28</i>	
<i>Sample ID:</i>		<i>SE-041106-5106-27-005</i>	<i>SE-041106-5106-27-006</i>	<i>SE-041106-5106-27-007</i>	<i>SE-041106-5106-27-008</i>	<i>SE-041206-5106-27-009</i>	<i>SE-042006-5106-28-001</i>	<i>SE-042006-5106-28-002</i>	<i>SE-042006-5106-28-003</i>	
<i>Sample Date:</i>		<i>4/11/2006</i>	<i>4/11/2006</i>	<i>4/11/2006</i>	<i>4/11/2006</i>	<i>4/12/2006</i>	<i>4/20/2006</i>	<i>4/20/2006</i>	<i>4/20/2006</i>	
<i>Sample Depth:</i>		<i>30 to 32 ft bml</i>	<i>40 to 42 ft bml</i>	<i>40 to 42 ft bml</i>	<i>50 to 52 ft bml</i>	<i>60 to 62 ft bml</i>	<i>19 to 23 ft bml</i>	<i>29 to 33 ft bml</i>	<i>39 to 43 ft bml</i>	
<i>elev_MLLW</i>		<i>-30.4 to -32.4</i>	<i>-40.4 to -42.4</i>	<i>-40.4 to -42.4</i>	<i>-50.4 to -52.4</i>	<i>-60.4 to -62.4</i>	<i>-17.58 to -21.58</i>	<i>-27.58 to -31.58</i>	<i>-37.58 to -41.58</i>	
<i>elev_NGVD</i>		<i>-36.7 to -38.7</i>	<i>-46.7 to -48.7</i>	<i>-46.7 to -48.7</i>	<i>-56.7 to -58.7</i>	<i>-66.7 to -68.7</i>	<i>-23.9 to -27.9</i>	<i>-33.9 to -37.9</i>	<i>-43.9 to -47.9</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	7.5 U	6.4 U	6.5 U	6.6 U	6.8 U	6.3 U	5.7 U	5.4 U
1,1,2-Trichloroethane	µg/kg	15.2	6.9 U	5.9 U	6.0 U	6.1 U	6.2 U	5.8 U	5.2 U	5.0 U
1,1-Dichloroethene	µg/kg	1.13	66	73	69	5.6 U	5.8 U	5.4 U	4.8 U	4.6 U
Carbon tetrachloride	µg/kg	1.93	3.8 U	3.2 U	3.3 U	3.3 U	3.4 U	3.2 U	2.8 U	2.7 U
Chloroform (Trichloromethane)	µg/kg	160	3.3 U	2.8 U	2.8 U	2.9 U	3.0 U	2.8 U	2.5 U	2.3 U
cis-1,2-Dichloroethene	µg/kg	NV	6800	9400	9300	14	5.1 J	4.1 U	3.7 U	3.5 U
Methylene chloride	µg/kg	475	3.5 U	3.0 U	3.0 U	3.1 U	3.2 U	6.0 J	2.7 U	2.5 U
Tetrachloroethene	µg/kg	4.88	5.3 U	4.6 U	4.6 U	4.7 U	4.8 U	4.5 U	4.1 U	3.9 U
trans-1,2-Dichloroethene	µg/kg	3247	39	220	210	3.6 U	3.7 U	3.5 U	3.1 U	3.0 U
Trichloroethene	µg/kg	30.8	4.9 U	4.2 U	4.3 U	4.3 U	4.5 U	4.1 U	3.7 U	3.5 U
Vinyl chloride	µg/kg	0.73	930	5700	5900	8.9 J	5.4 U	5.1 U	4.6 U	4.3 U
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-28	5106-29	5106-29	5106-29	5106-29	5106-30	5106-30	5106-30		
Sample ID:	SE-042006-5106-28-004	SE-042106-5106-29-002	SE-042106-5106-29-003	SE-042106-5106-29-004	SE-042406-5106-29-005	SE-042506-5106-30-002	SE-042506-5106-30-003	SE-042506-5106-30-004		
Sample Date:	4/20/2006	4/21/2006	4/21/2006	4/21/2006	4/24/2006	4/25/2006	4/25/2006	4/25/2006		
Sample Depth:	50 to 52 ft bml	10 to 14 ft bml	30 to 32 ft bml	30 to 32 ft bml	40 to 42 ft bml	10 to 12 ft bml	20 to 22 ft bml	31 to 33 ft bml		
elev_MLLW	-48.58 to -50.58	-8.35 to -12.35	-28.35 to -30.35	-28.35 to -30.35	-38.35 to -40.35	-3.08 to -5.08	-13.08 to -15.08	-24.08 to -26.08		
elev_NGVD	-54.9 to -56.9	-14.7 to -18.7	-34.7 to -36.7	-34.7 to -36.7	-44.7 to -46.7	-9.4 to -11.4	-19.4 to -21.4	-30.4 to -32.4		
Parameters	Units	Cs	(Duplicate)							
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	4.9 U	7.4 U	5.4 U	5.3 U	4.9 U	6.1 U	6.9 U	5.5 U
1,1,2-Trichloroethane	µg/kg	15.2	4.5 U	6.8 U	5.0 U	4.9 U	4.5 U	5.6 U	6.4 U	5.1 U
1,1-Dichloroethene	µg/kg	1.13	4.2 U	6.3 U	4.6 U	4.5 U	4.2 U	5.2 U	5.9 U	4.7 U
Carbon tetrachloride	µg/kg	1.93	2.5 U	3.7 U	2.7 U	2.7 U	2.4 U	3.1 U	3.5 U	2.8 U
Chloroform (Trichloromethane)	µg/kg	160	2.1 U	3.2 U	2.3 U	2.3 U	2.1 U	2.7 U	3.0 U	2.4 U
cis-1,2-Dichloroethene	µg/kg	NV	3.2 U	4.9 U	3.5 U	3.5 U	3.2 U	4.0 U	4.5 U	3.6 U
Methylene chloride	µg/kg	475	2.3 U	3.5 U	2.5 U	2.5 U	2.3 U	2.9 U	3.2 U	2.6 U
Tetrachloroethene	µg/kg	4.88	3.5 U	5.3 U	3.8 U	3.8 U	3.5 U	4.4 U	4.9 U	3.9 U
trans-1,2-Dichloroethene	µg/kg	3247	2.7 U	4.1 U	3.0 U	2.9 U	2.7 U	3.4 U	3.8 U	3.0 U
Trichloroethene	µg/kg	30.8	3.2 U	4.9 U	3.5 U	3.5 U	3.2 U	6.9 J	4.5 U	3.6 U
Vinyl chloride	µg/kg	0.73	4.0 U	5.9 U	4.3 U	4.3 U	3.9 U	4.9 U	5.5 U	4.4 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-30	5106-30	5106-30	5106-30	5106-30	5106-30	5106-31	5106-31	5106-31	
Sample ID:	SE-042506-5106-30-005	SE-042506-5106-30-006	SE-042506-5106-30-007	SE-042506-5106-30-008	SE-042606-5106-30-009	SE-042806-5106-31-002	SE-042806-5106-31-003	SE-042906-5106-31-BS-004		
Sample Date:	4/25/2006	4/25/2006	4/25/2006	4/25/2006	4/26/2006	4/28/2006	4/28/2006	4/29/2006		
Sample Depth:	40 to 42 ft bml	50 to 52 ft bml	60 to 62 ft bml	60 to 62 ft bml	70 to 72 ft bml	20 to 22 ft bml	30 to 32 ft bml	40 to 44 ft bml		
elev_MLLW	-33.08 to -35.08	-43.08 to -45.08	-53.08 to -55.08	-53.08 to -55.08	-63.08 to -65.08	-16.9 to -18.9	-26.9 to -28.9	-36.9 to -40.9		
elev_NGVD	-39.4 to -41.4	-49.4 to -51.4	-59.4 to -61.4	-59.4 to -61.4	-69.4 to -71.4	-23.2 to -25.2	-33.2 to -35.2	-43.2 to -47.2		
Parameters	Units	Cs			(Duplicate)					
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	7.3 U	6.5 U	5.2 U	5.2 U	4.7 U	7.8 U	6.4 U	5.2 U
1,1,2-Trichloroethane	µg/kg	15.2	6.7 U	6.0 U	4.8 U	4.8 U	4.4 U	7.2 U	5.9 U	4.8 U
1,1-Dichloroethene	µg/kg	1.13	6.2 U	5.5 U	4.4 U	4.4 U	4.0 U	6.6 U	5.5 U	4.4 U
Carbon tetrachloride	µg/kg	1.93	3.7 U	3.3 U	2.6 U	2.6 U	2.4 U	3.9 U	3.2 U	2.6 U
Chloroform (Trichloromethane)	µg/kg	160	3.2 U	2.8 U	2.3 U	2.3 U	2.1 U	3.4 U	2.8 U	2.3 U
cis-1,2-Dichloroethene	µg/kg	NV	4.8 U	4.3 U	3.4 U	3.4 U	3.1 U	5.1 U	4.2 U	3.4 U
Methylene chloride	µg/kg	475	3.4 U	3.0 U	2.4 U	2.4 U	2.2 U	3.6 U	3.0 U	2.4 U
Tetrachloroethene	µg/kg	4.88	5.2 U	4.6 U	3.7 U	3.7 U	3.4 U	5.6 U	4.6 U	3.7 U
trans-1,2-Dichloroethene	µg/kg	3247	4.0 U	3.6 U	2.8 U	2.8 U	2.6 U	4.3 U	3.5 U	2.8 U
Trichloroethene	µg/kg	30.8	4.8 U	4.3 U	3.4 U	3.4 U	3.1 U	5.1 U	4.2 U	3.4 U
Vinyl chloride	µg/kg	0.73	5.9 U	5.2 U	4.2 U	4.2 U	3.8 U	6.3 U	5.2 U	4.2 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-31		5106-31		5106-31		5106-32		5106-32		5106-32			
Sample ID:	SE-042906-5106-31-BS-005		SE-042906-5106-31-BS-006		SE-042906-5106-31-BS-007		SE-050306-5106-32-BS-001		SE-050306-5106-32-BS-002		SE-050406-5106-32-BS-003		SE-050406-5106-32-BS-004	
Sample Date:	4/29/2006		4/29/2006		4/29/2006		5/3/2006		5/3/2006		5/4/2006		5/4/2006	
Sample Depth:	40 to 44 ft bml		50 to 54 ft bml		60 to 64 ft bml		10 to 12 ft bml		20 to 22 ft bml		30 to 32 ft bml		50 to 52 ft bml	
elev_MLLW	-36.9 to -40.9		-46.9 to -50.9		-56.9 to -60.9		-24.5 to -26.5		-34.5 to -36.5		-44.5 to -46.5		-64.5 to -66.5	
elev_NGVD	-43.2 to -47.2		-53.2 to -57.2		-63.2 to -67.2		-30.8 to -32.8		-40.8 to -42.8		-50.8 to -52.8		-70.8 to -72.8	
	(Duplicate)													
Parameters	Units	Cs												
Volatile Organic Compounds														
1,1,2,2-Tetrachloroethane	µg/kg	4.02	4.9 U	5.1 U	5.2 U	7.0 U	7.3 U	6.8 U	5.2 U					
1,1,2-Trichloroethane	µg/kg	15.2	4.5 U	4.7 U	4.8 U	6.4 U	6.7 U	6.3 U	4.8 U					
1,1-Dichloroethene	µg/kg	1.13	4.2 U	4.3 U	4.4 U	5.9 U	6.2 U	5.8 U	4.4 U					
Carbon tetrachloride	µg/kg	1.93	2.5 U	2.6 U	2.6 U	3.5 U	3.6 U	3.4 U	2.6 U					
Chloroform (Trichloromethane)	µg/kg	160	2.1 U	2.2 U	2.3 U	3.0 U	3.2 U	3.0 U	2.2 U					
cis-1,2-Dichloroethene	µg/kg	NV	3.2 U	3.3 U	3.4 U	4.6 U	4.8 U	4.5 U	3.4 U					
Methylene chloride	µg/kg	475	2.3 U	2.4 U	2.4 U	3.3 U	3.4 U	3.2 U	2.4 U					
Tetrachloroethene	µg/kg	4.88	3.5 U	3.6 U	3.7 U	5.0 U	5.2 U	4.9 U	3.7 U					
trans-1,2-Dichloroethene	µg/kg	3247	2.7 U	2.8 U	2.9 U	3.8 U	4.0 U	3.7 U	2.8 U					
Trichloroethene	µg/kg	30.8	3.2 U	3.3 U	3.4 U	4.6 U	4.8 U	4.5 U	3.4 U					
Vinyl chloride	µg/kg	0.73	4.0 U	4.1 U	4.2 U	5.6 U	5.8 U	5.5 U	4.1 U					
Semi-volatile Organic Compounds														
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-					
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-					
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-					
Metals~Total														
Arsenic	µg/kg	146	-	-	-	-	-	-	-					
Chromium	µg/kg	714	-	-	-	-	-	-	-					
Copper	µg/kg	53.5	-	-	-	-	-	-	-					
Lead	µg/kg	81002	-	-	-	-	-	-	-					
Mercury	µg/kg	1.31	-	-	-	-	-	-	-					
Nickel	µg/kg	535	-	-	-	-	-	-	-					
Thallium	µg/kg	34	-	-	-	-	-	-	-					
Zinc	µg/kg	5045	-	-	-	-	-	-	-					
PCBs														
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-					
Pesticides														
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-					
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-					
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-					

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>709-BH-01</i>	<i>709-BH-01</i>	<i>709-BH-01</i>	<i>709-BH-02</i>	<i>709-BH-02</i>	<i>709-BH-02</i>	<i>709-BH-02</i>	
<i>Sample ID:</i>		<i>S-051612-NE-709BH01-002</i>	<i>S-051612-NE-709BH01-003</i>	<i>S-051612-NE-709BH01-004</i>	<i>S-051612-NE-709BH02-002</i>	<i>FD-051612-NE-709BH02-002</i>	<i>S-051612-NE-709BH02-003</i>	<i>S-051612-NE-709BH02-004</i>	
<i>Sample Date:</i>		<i>5/16/2012</i>	<i>5/16/2012</i>	<i>5/16/2012</i>	<i>5/16/2012</i>	<i>5/16/2012</i>	<i>5/16/2012</i>	<i>5/16/2012</i>	
<i>Sample Depth:</i>		<i>6 to 7 ft BGS</i>	<i>15 to 16 ft BGS</i>	<i>23 to 24 ft BGS</i>	<i>6.5 to 7.5 ft BGS</i>	<i>6.5 to 7.5 ft BGS</i>	<i>15 to 16 ft BGS</i>	<i>23 to 24 ft BGS</i>	
<i>elev_MLLW</i>		<i>12.23 to 11.23</i>	<i>3.23 to 2.23</i>	<i>-4.77 to -5.77</i>	<i>11.48 to 10.48</i>	<i>11.48 to 10.48</i>	<i>2.98 to 1.98</i>	<i>-5.02 to -6.02</i>	
<i>elev_NGVD</i>		<i>5.9 to 4.9</i>	<i>-3.1 to -4.1</i>	<i>-11.1 to -12.1</i>	<i>5.2 to 4.2</i>	<i>5.2 to 4.2</i>	<i>-3.3 to -4.3</i>	<i>-11.3 to -12.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>				<i>(Duplicate)</i>			
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.4 U	5.1 U	5.3 U	5.5 U	5.4 U	5.3 U	5.8 U
1,1,2-Trichloroethane	µg/kg	15.2	5.4 U	5.1 U	5.3 U	5.5 U	5.4 U	5.3 U	5.8 U
1,1-Dichloroethene	µg/kg	1.13	5.4 U	5.1 U	5.3 U	5.5 U	5.4 U	5.3 U	5.8 U
Carbon tetrachloride	µg/kg	1.93	5.4 U	5.1 U	5.3 U	5.5 U	5.4 U	5.3 U	5.8 U
Chloroform (Trichloromethane)	µg/kg	160	5.4 U	5.1 U	5.3 U	5.5 U	5.4 U	5.3 U	5.8 U
cis-1,2-Dichloroethene	µg/kg	NV	5.4 U	5.1 U	5.3 U	5.5 U	5.4 U	5.3 U	1.2 J
Methylene chloride	µg/kg	475	11 U	11 U	11 U	11 U	11 U	11 U	12 U
Tetrachloroethene	µg/kg	4.88	8.0	65	0.58 J	4.9 J	3.5 J	56	5.8 U
trans-1,2-Dichloroethene	µg/kg	3247	5.4 U	5.1 U	5.3 U	5.5 U	5.4 U	5.3 U	1.5 J
Trichloroethene	µg/kg	30.8	0.92 J	1.8 J	0.45 J	3.0 J	1.9 J	3.9 J	2.0 J
Vinyl chloride	µg/kg	0.73	5.4 U	5.1 U	5.3 U	5.5 U	5.4 U	5.3 U	0.86 J
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	1270	1110	520 J	1160	1010	860	860
Chromium	µg/kg	714	6520	6960	6450	7450	8190	7510	7150
Copper	µg/kg	53.5	8660	9440	9000	9770	9100	9700	10200
Lead	µg/kg	81002	1070	1010	1080	1170	1070	1040	1160
Mercury	µg/kg	1.31	4 J	7 J	4 J	3 J	5 J	6 J	7 J
Nickel	µg/kg	535	6440	7180	6650	7310	7170	7530	7870
Thallium	µg/kg	34	23 J	50	14 J	38	35	32	19 J
Zinc	µg/kg	5045	13000	14300	14800	15000	14100	13700	14400
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	6.1 U	6.1 U	6.2 U	5.9 U	6.0 U	6.0 U	6.2 U
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>709-BH-03</i>	<i>709-BH-03</i>	<i>709-BH-03</i>	<i>709-BH-04</i>	<i>709-BH-04</i>	<i>709-BH-04</i>	<i>709-BH-05</i>	
<i>Sample ID:</i>		<i>S-051612-NE-709BH03-002</i>	<i>S-051612-NE-709BH03-003</i>	<i>S-051612-NE-709BH03-004</i>	<i>S-051612-NE-709BH04-002</i>	<i>S-051612-NE-709BH04-003</i>	<i>S-051612-NE-709BH04-004</i>	<i>S-051712-NE-709BH05-002</i>	
<i>Sample Date:</i>		<i>5/16/2012</i>	<i>5/16/2012</i>	<i>5/16/2012</i>	<i>5/16/2012</i>	<i>5/16/2012</i>	<i>5/16/2012</i>	<i>5/17/2012</i>	
<i>Sample Depth:</i>		<i>6 to 7 ft BGS</i>	<i>9 to 10 ft BGS</i>	<i>23 to 24 ft BGS</i>	<i>6.5 to 7.5 ft BGS</i>	<i>9 to 10 ft BGS</i>	<i>23 to 24 ft BGS</i>	<i>7 to 8.5 ft BGS</i>	
<i>elev_MLLW</i>		<i>12.19 to 11.19</i>	<i>9.19 to 8.19</i>	<i>-4.81 to -5.81</i>	<i>10.83 to 9.83</i>	<i>8.33 to 7.33</i>	<i>-5.67 to -6.67</i>	<i>9.86 to 8.36</i>	
<i>elev_NGVD</i>		<i>5.9 to 4.9</i>	<i>2.9 to 1.9</i>	<i>-11.1 to -12.1</i>	<i>4.5 to 3.5</i>	<i>2 to 1</i>	<i>-12 to -13</i>	<i>3.5 to 2</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.6 U	5.5 UJ	4.8 U	160 U	5.4 UJ	6.0 U	810 UJ
1,1,2-Trichloroethane	µg/kg	15.2	5.6 U	5.5 UJ	4.8 U	160 U	5.4 UJ	6.0 U	810 UJ
1,1-Dichloroethene	µg/kg	1.13	5.6 U	5.5 UJ	4.8 U	160 U	5.4 UJ	6.0 U	170 UJ
Carbon tetrachloride	µg/kg	1.93	5.6 U	5.5 UJ	4.8 U	160 U	5.4 UJ	6.0 U	170 UJ
Chloroform (Trichloromethane)	µg/kg	160	5.6 U	5.5 UJ	4.8 U	160 U	5.4 UJ	6.0 U	170 UJ
cis-1,2-Dichloroethene	µg/kg	NV	5.6 U	5.5 UJ	4.8 U	160 U	5.4 UJ	6.0 U	170 UJ
Methylene chloride	µg/kg	475	12 U	11 UJ	9.5 U	1500 U	20 UJ	12 U	210 J
Tetrachloroethene	µg/kg	4.88	6.8	24 J	0.35 J	160 UJ	5.4 UJ	0.43 J	810 UJ
trans-1,2-Dichloroethene	µg/kg	3247	5.6 U	5.5 UJ	0.52 J	160 U	5.4 UJ	6.0 U	170 UJ
Trichloroethene	µg/kg	30.8	1.5 J	1.1 J	0.40 J	160 U	5.4 UJ	6.0 U	170 UJ
Vinyl chloride	µg/kg	0.73	5.6 U	5.5 UJ	4.8 U	160 U	5.4 UJ	6.0 U	170 UJ
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	1150	830	500 J	1020	2880	1150	1400
Chromium	µg/kg	714	6170	6800	6940	7840	7020	7610	7100
Copper	µg/kg	53.5	8120	9490	10600	8050	8630	9940	8770
Lead	µg/kg	81002	1330	1050	1220	7800	1130	1210	3590
Mercury	µg/kg	1.31	4 J	5 J	6 J	7 J	12 J	19 J	12 J
Nickel	µg/kg	535	7850	7090	7570	9170	6930	7600	6760
Thallium	µg/kg	34	22 J	25	20 J	26	26.5	26.6	29.1
Zinc	µg/kg	5045	35800	14900	15800	14500	15800	16100	14200
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	6.0 U	6.0 U	6.2 U	60 U	6.2 U	6.3 U	6.3 U
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>709-BH-05</i>	<i>709-BH-05</i>	<i>709-BH-06</i>	<i>709-BH-06</i>	<i>709-BH-06</i>	<i>709-BH-06</i>	<i>709-BH-07</i>	<i>709-BH-07</i>
<i>Sample ID:</i>		<i>S-052012-NE-709BH05-005</i>	<i>S-051712-NE-709BH05-004</i>	<i>S-051712-NE-709BH06-003</i>	<i>S-052012-NE-709BH06-005</i>	<i>S-051712-NE-709BH06-004</i>	<i>S-051712-NE-709BH07-002</i>	<i>S-051712-NE-709BH07-003</i>	
<i>Sample Date:</i>		<i>5/20/2012</i>	<i>5/17/2012</i>	<i>5/17/2012</i>	<i>5/20/2012</i>	<i>5/17/2012</i>	<i>5/17/2012</i>	<i>5/17/2012</i>	
<i>Sample Depth:</i>		<i>17 to 18 ft BGS</i>	<i>23 to 24 ft BGS</i>	<i>10 to 11 ft BGS</i>	<i>16 to 17 ft BGS</i>	<i>23 to 24 ft BGS</i>	<i>6.25 to 7.5 ft BGS</i>	<i>15 to 16 ft BGS</i>	
<i>elev_MLLW</i>		<i>-0.14 to -1.14</i>	<i>-6.14 to -7.14</i>	<i>7.07 to 6.07</i>	<i>1.07 to 0.07</i>	<i>-5.93 to -6.93</i>	<i>10.61 to 9.36</i>	<i>1.86 to 0.86</i>	
<i>elev_NGVD</i>		<i>-6.5 to -7.5</i>	<i>-12.5 to -13.5</i>	<i>0.8 to -0.2</i>	<i>-5.2 to -6.2</i>	<i>-12.2 to -13.2</i>	<i>4.3 to 3</i>	<i>-4.5 to -5.5</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	4.9 UJ	4.8 U	5.6 U	5.4 U	5.4 U	71 UJ	5.5 U
1,1,2-Trichloroethane	µg/kg	15.2	4.9 U	4.8 U	5.6 U	5.4 U	5.4 U	71 UJ	5.5 U
1,1-Dichloroethene	µg/kg	1.13	4.9 U	4.8 U	5.6 U	0.42 J	5.4 U	71 UJ	5.5 U
Carbon tetrachloride	µg/kg	1.93	4.9 U	4.8 U	5.6 U	5.4 U	5.4 U	71 UJ	5.5 U
Chloroform (Trichloromethane)	µg/kg	160	4.9 U	4.8 U	5.6 U	5.4 U	5.4 U	170 UJ	5.5 U
cis-1,2-Dichloroethene	µg/kg	NV	8.7	15	5.6 U	42	9.7	71 UJ	5.5 U
Methylene chloride	µg/kg	475	9.8 U	9.5 U	12 U	11 U	11 U	730 UJ	15 U
Tetrachloroethene	µg/kg	4.88	4.9 U	4.8 U	0.42 J	5.4 U	5.4 U	71 UJ	5.5 U
trans-1,2-Dichloroethene	µg/kg	3247	0.72 J	1.1 J	5.6 U	7.1	5.4 U	71 UJ	1.0 J
Trichloroethene	µg/kg	30.8	4.9 U	4.8 U	0.89 J	5.4 U	5.4 U	71 UJ	5.5 U
Vinyl chloride	µg/kg	0.73	4.4 J	0.40 J	5.6 U	0.42 J	5.4 U	71 UJ	5.5 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	4160	2390	1370	4160	1310	620	2970
Chromium	µg/kg	714	8380	9330	7600	8120	6650	5560	12100
Copper	µg/kg	53.5	14700	12600	8210	14400	9600	7590	22400
Lead	µg/kg	81002	2300	1320	1300	2110	1570	1760	2980
Mercury	µg/kg	1.31	26	9 J	16 J	24	8 J	5 J	21 J
Nickel	µg/kg	535	8060	8020	6560	7540	7090	6900	10400
Thallium	µg/kg	34	110	46.7	27.4	132	28.7	25	73
Zinc	µg/kg	5045	18100	16300	13700	16600	15200	11800	22800
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	20 U	6.3 U	6.0 U	20 U	6.0 U	23 U	20 U
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>709-BH-07</i>	<i>709-BH-08</i>	<i>709-BH-08</i>	<i>709-BH-08</i>	<i>709-BH-09</i>	<i>709-BH-09</i>	<i>709-BH-09</i>	
<i>Sample ID:</i>		<i>S-051712-NE-709BH07-004</i>	<i>S-051812-NE-709BH08-002</i>	<i>S-051812-NE-709BH08-003</i>	<i>S-051812-NE-709BH08-004</i>	<i>S-051812-NE-709BH09-002</i>	<i>S-051812-NE-709BH09-003</i>	<i>S-051812-NE-709BH09-004</i>	
<i>Sample Date:</i>		<i>5/17/2012</i>	<i>5/18/2012</i>	<i>5/18/2012</i>	<i>5/18/2012</i>	<i>5/18/2012</i>	<i>5/18/2012</i>	<i>5/18/2012</i>	
<i>Sample Depth:</i>		<i>23 to 24 ft BGS</i>	<i>6.5 to 7.5 ft BGS</i>	<i>16 to 17 ft BGS</i>	<i>23 to 24 ft BGS</i>	<i>6.5 to 7.5 ft BGS</i>	<i>17 to 18 ft BGS</i>	<i>23 to 24 ft BGS</i>	
<i>elev_MLLW</i>		<i>-6.14 to -7.14</i>	<i>11 to 10</i>	<i>1.5 to 0.5</i>	<i>-5.5 to -6.5</i>	<i>10.74 to 9.74</i>	<i>0.24 to -0.76</i>	<i>-5.76 to -6.76</i>	
<i>elev_NGVD</i>		<i>-12.5 to -13.5</i>	<i>4.7 to 3.7</i>	<i>-4.8 to -5.8</i>	<i>-11.8 to -12.8</i>	<i>4.4 to 3.4</i>	<i>-6.1 to -7.1</i>	<i>-12.1 to -13.1</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6.0 U	310 U	4.5 UJ	5.5 UJ	130 UJ	6.3 U	6.0 UJ
1,1,2-Trichloroethane	µg/kg	15.2	6.0 U	310 U	4.5 U	5.5 U	130 UJ	6.3 U	6.0 U
1,1-Dichloroethene	µg/kg	1.13	6.0 U	310 U	4.5 U	5.5 U	130 UJ	6.3 U	6.0 U
Carbon tetrachloride	µg/kg	1.93	6.0 U	310 U	4.5 U	5.5 U	130 UJ	6.3 U	6.0 U
Chloroform (Trichloromethane)	µg/kg	160	6.0 U	310 U	4.5 U	5.5 U	220 UJ	6.3 U	6.0 U
cis-1,2-Dichloroethene	µg/kg	NV	6.0 U	310 U	4.5 U	5.5 U	130 UJ	3.7 J	0.28 J
Methylene chloride	µg/kg	475	12 U	1300 U	9.0 U	11 U	1900 UJ	13 U	12 U
Tetrachloroethene	µg/kg	4.88	6.0 U	310 U	1.0 J	0.57 J	130 UJ	6.3 U	0.55 J
trans-1,2-Dichloroethene	µg/kg	3247	6.0 U	310 U	4.5 U	5.5 U	130 UJ	11	0.55 J
Trichloroethene	µg/kg	30.8	0.53 J	310 U	4.5 U	0.37 J	130 UJ	6.3 U	0.47 J
Vinyl chloride	µg/kg	0.73	6.0 U	310 U	0.33 J	5.5 U	130 UJ	25	4.1 J
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	710	550	3990	2970	1020	3650	1450
Chromium	µg/kg	714	7120	6900	7390	11400	7220	13400	6890
Copper	µg/kg	53.5	10200	8570	12700	23300	8900	26000	10000
Lead	µg/kg	81002	1200	2050	1850	2350	4870	3150	1070
Mercury	µg/kg	1.31	7 J	21 U	18	26	6 J	30	7 J
Nickel	µg/kg	535	7460	7780	7330	11600	7460	11400	6320
Thallium	µg/kg	34	27	120	120	52	43	88	35
Zinc	µg/kg	5045	14500	16200	16100	23900	14600	25100	12600
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	9.9 U	9.9 U	33 U	20 U	77 U	9.9 U	20 U
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>709-BH-10</i>	<i>709-BH-10</i>	<i>709-BH-10</i>	<i>709-BH-10</i>	<i>709-BH-11</i>	<i>709-BH-11</i>	<i>709-BH-11</i>	
<i>Sample ID:</i>		<i>S-051812-NE-709BH10-002</i>	<i>FD-051812-NE-709BH10-002</i>	<i>S-051812-NE-709BH10-003</i>	<i>S-051812-NE-709BH10-004</i>	<i>S-060112-NE-709BH11-002</i>	<i>S-060112-NE-709BH11-003</i>	<i>S-060112-NE-709BH11-004</i>	
<i>Sample Date:</i>		<i>5/18/2012</i>	<i>5/18/2012</i>	<i>5/18/2012</i>	<i>5/18/2012</i>	<i>6/1/2012</i>	<i>6/1/2012</i>	<i>6/1/2012</i>	
<i>Sample Depth:</i>		<i>7.25 to 8.75 ft BGS</i>	<i>7.25 to 8.75 ft BGS</i>	<i>16 to 17 ft BGS</i>	<i>23 to 24 ft BGS</i>	<i>5.5 to 6.75 ft BGS</i>	<i>14 to 15 ft BGS</i>	<i>23 to 24 ft BGS</i>	
<i>elev_MLLW</i>		<i>10.35 to 8.85</i>	<i>10.35 to 8.85</i>	<i>1.6 to 0.6</i>	<i>-5.4 to -6.4</i>	<i>12.4 to 11.15</i>	<i>3.9 to 2.9</i>	<i>-5.1 to -6.1</i>	
<i>elev_NGVD</i>		<i>4 to 2.5</i>	<i>4 to 2.5</i>	<i>-4.7 to -5.7</i>	<i>-11.7 to -12.7</i>	<i>6.1 to 4.8</i>	<i>-2.4 to -3.4</i>	<i>-11.4 to -12.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.6 UJ	R	6.5 UJ	6.3 UJ	330 U	5.5 U	5.8 U
1,1,2-Trichloroethane	µg/kg	15.2	5.6 U	R	6.5 U	6.3 U	330 U	5.5 U	5.8 U
1,1-Dichloroethene	µg/kg	1.13	5.6 U	R	0.43 J	6.3 U	330 U	5.5 U	5.8 U
Carbon tetrachloride	µg/kg	1.93	5.6 U	R	6.5 U	6.3 U	330 U	5.5 U	5.8 U
Chloroform (Trichloromethane)	µg/kg	160	5.6 U	R	6.5 U	6.3 U	330 U	5.5 U	5.8 U
cis-1,2-Dichloroethene	µg/kg	NV	5.6 U	R	10	6.3 U	330 U	5.5 U	0.45 J
Methylene chloride	µg/kg	475	12 U	11 U	13 U	13 U	280 J	11 U	12 U
Tetrachloroethene	µg/kg	4.88	1.2 J	2.5 J	0.49 J	0.45 J	330 U	5.5 U	1.1 J
trans-1,2-Dichloroethene	µg/kg	3247	5.6 U	R	11	6.3 U	330 U	5.5 U	5.8 U
Trichloroethene	µg/kg	30.8	0.44 J	R	0.69 J	6.3 U	330 U	0.21 J	0.53 J
Vinyl chloride	µg/kg	0.73	5.6 U	R	4.5 J	1.4 J	330 U	5.5 U	5.8 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	940	860	2690	1090	1120	1110	1050
Chromium	µg/kg	714	6600	6710	12200	7160	6120	5700	6280
Copper	µg/kg	53.5	9540	9750	23200	10700	10300	9450	10200
Lead	µg/kg	81002	2490	2480	2960	1290	2650	980	1240
Mercury	µg/kg	1.31	7 J	7 J	20 J	7 J	4 J	5 J	10 J
Nickel	µg/kg	535	6820	7260	10700	7350	6800	6320	7220
Thallium	µg/kg	34	26	28	69	21 J	21	29	23
Zinc	µg/kg	5045	12700	14400	22900	15000	11500 J	10700 J	12900 J
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	20 U	20 U	20 U	20 U	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>709-BH-12</i>	<i>709-BH-12</i>	<i>709-BH-12</i>	<i>709-BH-12</i>	<i>709-BH-12</i>	<i>709-BH-12</i>	<i>709-BH-12</i>	<i>709-BH-12</i>	
<i>Sample ID:</i>		<i>S-100212-JN-BH12-001</i>	<i>S-060312-NE-709BH12-002</i>	<i>S-100212-JN-BH12-002</i>	<i>S-100212-JN-BH12-003</i>	<i>S-060312-NE-709BH12-003</i>	<i>S-100212-JN-BH12-004</i>	<i>S-060312-NE-709BH12-004</i>	<i>S-100212-JN-BH12-005</i>	
<i>Sample Date:</i>		<i>10/2/2012</i>	<i>6/3/2012</i>	<i>10/2/2012</i>	<i>10/2/2012</i>	<i>6/3/2012</i>	<i>10/2/2012</i>	<i>6/3/2012</i>	<i>10/2/2012</i>	
<i>Sample Depth:</i>		<i>5 to 5 ft BGS</i>	<i>7.5 to 9 ft BGS</i>	<i>9 to 9 ft BGS</i>	<i>14 to 14 ft BGS</i>	<i>15 to 16 ft BGS</i>	<i>18.5 to 18.5 ft BGS</i>	<i>22 to 24 ft BGS</i>	<i>24.5 to 24.5 ft BGS</i>	
<i>elev_MLLW</i>		<i>12.54 to 12.54</i>	<i>10.04 to 8.54</i>	<i>8.54 to 8.54</i>	<i>3.54 to 3.54</i>	<i>2.54 to 1.54</i>	<i>-0.96 to -0.96</i>	<i>-4.46 to -6.46</i>	<i>-6.96 to -6.96</i>	
<i>elev_NGVD</i>		<i>6.2 to 6.2</i>	<i>3.7 to 2.2</i>	<i>2.2 to 2.2</i>	<i>-2.8 to -2.8</i>	<i>-3.8 to -4.8</i>	<i>-7.3 to -7.3</i>	<i>-10.8 to -12.8</i>	<i>-13.3 to -13.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.9 U	5.3 U	5.8 U	5.6 U	6.2 U	64 U	6.6 U	75 U
1,1,2-Trichloroethane	µg/kg	15.2	5.9 U	5.3 U	5.8 U	5.6 U	6.2 U	64 U	6.6 U	75 U
1,1-Dichloroethene	µg/kg	1.13	5.9 U	5.3 U	5.8 U	0.50 J	3.8 J	64 U	1.5 J	75 U
Carbon tetrachloride	µg/kg	1.93	5.9 U	5.3 U	5.8 U	5.6 U	6.2 U	64 U	6.6 U	75 U
Chloroform (Trichloromethane)	µg/kg	160	5.9 U	5.3 U	5.8 U	5.6 U	6.2 U	64 U	6.6 U	75 U
cis-1,2-Dichloroethene	µg/kg	NV	5.9 U	5.3 U	0.43 J	25	350	2300	320	900
Methylene chloride	µg/kg	475	12 U	11 U	12 U	12 U	13 U	120 J	14 U	25 J
Tetrachloroethene	µg/kg	4.88	5.9 J	1.9 J	4.4 J	0.69 J	2.8 J	64 U	1.5 J	75 U
trans-1,2-Dichloroethene	µg/kg	3247	5.9 U	5.3 U	5.8 U	13	66	130	7.6	75 U
Trichloroethene	µg/kg	30.8	0.92 J	1.8 J	1.6 J	0.90 J	10	64 U	0.63 J	75 U
Vinyl chloride	µg/kg	0.73	0.36 J	5.3 U	0.37 J	0.29 J	19	64 U	5.3 J	68 J
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	1090	950	1040	1690	2380	3740	530 J	810
Chromium	µg/kg	714	5880	5490	5650	7150	10100	7270	6560	6370
Copper	µg/kg	53.5	8770	7010	7510	12700	18700	12200	9010	10200
Lead	µg/kg	81002	1070	948	829	1660	2420	1590	1230	1170
Mercury	µg/kg	1.31	5 J	3 J	14 J	17	16 J	17	9 J	7 J
Nickel	µg/kg	535	6000	5630	6780	7390	8940	7260	6600	5940
Thallium	µg/kg	34	39	23	42	42	65	126	21 J	35
Zinc	µg/kg	5045	12600	11400	11200	15300	19700	14400	14000	13500
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	5.3 U	-	5.9 U	6.7 U	-	6.1 U	-	6.1 U
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>709-MW1-15</i>	<i>709-MW1-15</i>	<i>709-MW2-15</i>	<i>709-MW2-15</i>	<i>709-MW3-15</i>	<i>709-MW3-15</i>	<i>709-MW3-15</i>	<i>709-MW3-15</i>	<i>709-MW4-15</i>	
<i>Sample ID:</i>		<i>MW-1/S-4(9401-181-1)</i>	<i>MW-1-S4-93</i>	<i>MW-2/S-4(9401-181-2)</i>	<i>MW2-S4-93</i>	<i>MW-3/S-3(9401-181-3)</i>	<i>MW3-S3-93</i>	<i>MW-3/S-11(9401-181-7)</i>	<i>MW3-S11-93</i>	<i>MW4-S5-93</i>	
<i>Sample Date:</i>		<i>1/11/1994</i>	<i>1/11/1994</i>	<i>1/11/1994</i>	<i>1/11/1994</i>	<i>1/11/1994</i>	<i>1/11/1994</i>	<i>1/11/1994</i>	<i>1/11/1994</i>	<i>1/11/1994</i>	
<i>Sample Depth:</i>		<i>5.5 to 7 ft BGS</i>	<i>5.5 to 7 ft bgs</i>	<i>5.5 to 7 ft BGS</i>	<i>5.5 to 7 ft bgs</i>	<i>4 to 5.5 ft BGS</i>	<i>4 to 5.5 ft bgs</i>	<i>16 to 17.5 ft BGS</i>	<i>16 to 17.5 ft bgs</i>	<i>7 to 8.5 ft bgs</i>	
<i>elev_MLLW</i>		<i>12.49 to 10.99</i>	<i>12.49 to 10.99</i>	<i>13.26 to 11.76</i>	<i>13.26 to 11.76</i>	<i>13.92 to 12.42</i>	<i>13.92 to 12.42</i>	<i>1.92 to 0.42</i>	<i>1.92 to 0.42</i>	<i>10.92 to 9.42</i>	
<i>elev_NGVD</i>		<i>6.2 to 4.7</i>	<i>6.2 to 4.7</i>	<i>6.9 to 5.4</i>	<i>6.9 to 5.4</i>	<i>7.6 to 6.1</i>	<i>7.6 to 6.1</i>	<i>-4.4 to -5.9</i>	<i>-4.4 to -5.9</i>	<i>4.6 to 3.1</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>									
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	63 U	-	65 U	-	60 U	-	65 U	-	-
1,1,2-Trichloroethane	µg/kg	15.2	63 U	-	65 U	-	60 U	-	65 U	-	-
1,1-Dichloroethene	µg/kg	1.13	63 U	-	65 U	-	60 U	-	65 U	-	-
Carbon tetrachloride	µg/kg	1.93	63 U	63 U	65 U	65 U	60 U	60 U	65 U	65 U	59 U
Chloroform (Trichloromethane)	µg/kg	160	63 U	63 U	65 U	65 U	60 U	60 U	65 U	65 U	79
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg	475	310 U	310 U	320 U	320 U	300 U	300 U	190 U	190 U	290 U
Tetrachloroethene	µg/kg	4.88	63 U	63 U	65 U	65 U	60 U	60 U	65 U	65 U	340
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	63 U	63 U	65 U	65 U	60 U	60 U	65 U	65 U	59 U
Vinyl chloride	µg/kg	0.73	63 U	-	65 U	-	60 U	-	65 U	-	-
<i>Semi-volatile Organic Compounds</i>											
Hexachlorobenzene	µg/kg	0.062	210 U	210 U	220 U	220 U	200 U	200 U	220 U	220 U	200 U
Hexachlorobutadiene	µg/kg	0.702	210 U	210 U	220 U	220 U	200 U	200 U	220 U	220 U	200 U
Pentachlorophenol	µg/kg	6.94	210 U	210 U	220 U	220 U	200 U	200 U	220 U	220 U	200 U
<i>Metals~Total</i>											
Arsenic	µg/kg	146	980	980	630	630	900	900	1000	1000	11000
Chromium	µg/kg	714	7200	7200	7700	7700	6900	6900	6100	6100	55000
Copper	µg/kg	53.5	8500	8500	7900	7900	7900	7900	9700	9700	35000
Lead	µg/kg	81002	2000 U	2000 U	2100 U	2100 U	1900 U	1900 U	2100 U	2100 U	420000
Mercury	µg/kg	1.31	130 U	130 U	130 U	130 U	120 U	120 U	130 U	130 U	120 U
Nickel	µg/kg	535	6600	6600	5900	5900	6900	6900	5300	5300	27000
Thallium	µg/kg	34	330 U	-	340 U	-	320 U	-	350 U	-	-
Zinc	µg/kg	5045	15000	15000	13000	13000	14000	14000	13000	13000	210000
<i>PCBs</i>											
Total PCBs	µg/kg	0.053	42 U	-	43 U	-	40 U	-	43 U	-	-
<i>Pesticides</i>											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>709-MW4-15</i>	<i>709-MW4-15</i>	<i>709-MW4-15</i>	<i>709-MW5-15</i>	<i>709-MW5-15</i>	<i>709-MW6-15</i>	<i>709-MW6-15</i>	<i>709-MW6-15</i>	<i>709-MW6-15</i>	
<i>Sample ID:</i>		<i>MW-4/S-5(9401-181-4)</i>	<i>MW4-S12-93</i>	<i>MW-4/S-12(9401-181-6)</i>	<i>MW-5/S-6(9401-181-5)</i>	<i>MW5-S6-93</i>	<i>S-051912-NE-MW6-002</i>	<i>S-051912-NE-MW6-003</i>	<i>S-9(410064-1)</i>	<i>S-051912-NE-MW6-004</i>	
<i>Sample Date:</i>		<i>1/12/1994</i>	<i>1/11/1994</i>	<i>1/12/1994</i>	<i>1/12/1994</i>	<i>1/12/1994</i>	<i>5/19/2012</i>	<i>5/19/2012</i>	<i>10/6/1994</i>	<i>5/19/2012</i>	
<i>Sample Depth:</i>		<i>7 to 8.5 ft BGS</i>	<i>17.5 to 19 ft bgs</i>	<i>17.5 to 19 ft BGS</i>	<i>8.5 to 10 ft BGS</i>	<i>8.5 to 10 ft bgs</i>	<i>5 to 5 ft BGS</i>	<i>10 to 10 ft BGS</i>	<i>14.5 to 16 ft BGS</i>	<i>15 to 15 ft BGS</i>	
<i>elev_MLLW</i>		<i>10.92 to 9.42</i>	<i>0.42 to -1.08</i>	<i>0.42 to -1.08</i>	<i>9.42 to 7.92</i>	<i>9.42 to 7.92</i>	<i>12.92 to 12.92</i>	<i>7.92 to 7.92</i>	<i>3.42 to 1.92</i>	<i>2.92 to 2.92</i>	
<i>elev_NGVD</i>		<i>4.6 to 3.1</i>	<i>-5.9 to -7.4</i>	<i>-5.9 to -7.4</i>	<i>3.1 to 1.6</i>	<i>3.1 to 1.6</i>	<i>6.6 to 6.6</i>	<i>1.6 to 1.6</i>	<i>-2.9 to -4.4</i>	<i>-3.4 to -3.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>									
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	59 U	-	63 U	64 U	-	-	-	72 U	-
1,1,2-Trichloroethane	µg/kg	15.2	59 U	-	63 U	64 U	-	-	-	72 U	-
1,1-Dichloroethene	µg/kg	1.13	59 U	-	63 U	64 U	-	-	-	72 U	-
Carbon tetrachloride	µg/kg	1.93	59 U	63 U	63 U	64 U	64 U	-	-	72 U	-
Chloroform (Trichloromethane)	µg/kg	160	79	63 U	63 U	64 U	64 U	-	-	72 U	-
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg	475	290 U	310 U	310 U	200 U	200 U	-	-	360 U	-
Tetrachloroethene	µg/kg	4.88	340	100	100	64 U	64 U	-	-	72 U	-
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	59 U	130	130	64 U	64 U	-	-	72 U	-
Vinyl chloride	µg/kg	0.73	59 U	-	63 U	64 U	-	-	-	72 U	-
<i>Semi-volatile Organic Compounds</i>											
Hexachlorobenzene	µg/kg	0.062	200 U	210 U	210 U	210 U	210 U	-	-	240 U	-
Hexachlorobutadiene	µg/kg	0.702	200 U	210 U	210 U	210 U	210 U	-	-	240 U	-
Pentachlorophenol	µg/kg	6.94	200 U	210 U	210 U	210 U	210 U	-	-	240 U	-
<i>Metals~Total</i>											
Arsenic	µg/kg	146	11000	2700	2700	1000	1000	1200	890	4600	940
Chromium	µg/kg	714	55000	6800	6800	6900	6900	7000	6370	11000	6610
Copper	µg/kg	53.5	35000	9600	9600	9400	9400	8960	8740	33000	8370
Lead	µg/kg	81002	420000	2600	2600	26000	26000	1350	1040	5300	1060
Mercury	µg/kg	1.31	120 U	120 U	120 U	130 U	130 U	2 J	7 J	-	4 J
Nickel	µg/kg	535	27000	6200	6200	8900	8900	7310	6960	11000	6280
Thallium	µg/kg	34	310 U	-	330 U	340 U	-	27	28	-	35
Zinc	µg/kg	5045	210000	16000	16000	27000	27000	14400 J	12900 J	29000	11000 J
<i>PCBs</i>											
Total PCBs	µg/kg	0.053	580	-	42 U	43 U	-	-	-	-	-
<i>Pesticides</i>											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	709-MW6-15	709-MW6-15	709-MW7-15	709-MW8-15	709-MW9-15	709-MW9-15	709-MW9-15	709-MW9-15	709-MW9-15	709-MW-10-15	709-MW-10-15	
Sample ID:	S-051912-NE-MW6-005	S-051912-NE-MW6-006	S-12(4100064-2)	S-5(410064-3)	MW9-S4-95	MW9-S4-95	MW-9-S7-95	MW-9-S7-95	MW-9-S7-95	MW10-S3-95	MW10-S3-95	
Sample Date:	5/19/2012	5/19/2012	10/6/1994	10/6/1994	7/27/1995	7/27/1995	7/27/1995	7/27/1995	7/27/1995	7/27/1995	7/27/1995	
Sample Depth:	20 to 20 ft BGS	25 to 25 ft BGS	19 to 20.5 ft BGS	8.5 to 10 ft BGS	7.5 ft bgs	7.5 to 9 ft BGS	15 to 16.5 ft BGS	16 ft bgs	16 ft bgs	5 ft bgs	5 to 6.5 ft BGS	
elev_MLLW	-2.08 to -2.08	-7.08 to -7.08	-1.13 to -2.63	9.42 to 7.92	10.42	10.42 to 8.92	2.92 to 1.42	1.92	1.92	12.92	12.92 to 11.42	
elev_NGVD	-8.4 to -8.4	-13.4 to -13.4	-7.4 to -9	3.1 to 1.6	4.1	4.1 to 2.6	-3.4 to -4.9	-4.4	-4.4	6.6	6.6 to 5.1	
Parameters	Units	Cs										
Volatile Organic Compounds												
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	64 U	59 U	-	63 U	64 U	-	-	600 U
1,1,2-Trichloroethane	µg/kg	15.2	-	-	64 U	59 U	-	63 U	64 U	-	-	600 U
1,1-Dichloroethene	µg/kg	1.13	-	-	64 U	59 U	63 U	63 U	64 U	64 U	600 U	600 U
Carbon tetrachloride	µg/kg	1.93	-	-	64 U	59 U	-	63 U	64 U	-	-	600 U
Chloroform (Trichloromethane)	µg/kg	160	-	-	64 U	59 U	-	63 U	64 U	-	-	600 U
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg	475	-	-	320 U	290 U	460	460 B	230 JB	230	5000	5000 B
Tetrachloroethene	µg/kg	4.88	-	-	220	72	63 U	63 U	64 U	64 U	600 U	600 U
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	-	-	64 U	59 U	63 U	63 U	64 U	64 U	600 U	600 U
Vinyl chloride	µg/kg	0.73	-	-	64 U	59 U	-	63 U	64 U	-	-	600 U
Semi-volatile Organic Compounds												
Hexachlorobenzene	µg/kg	0.062	-	-	210 U	200 U	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	210 U	200 U	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	210 U	200 U	-	-	-	-	-	-
Metals~Total												
Arsenic	µg/kg	146			1960	1510	1100	9300	-	-	-	-
Chromium	µg/kg	714			7080	7170	4900	7400	-	-	-	-
Copper	µg/kg	53.5			12300	10800	10000	15000	-	-	-	-
Lead	µg/kg	81002			1520	1250	1900 U	30000	-	-	-	-
Mercury	µg/kg	1.31			5 J	8 J	-	-	-	-	-	-
Nickel	µg/kg	535			8840	7900	6100	7500	-	-	-	-
Thallium	µg/kg	34			35	50	-	-	-	-	-	-
Zinc	µg/kg	5045			14800 J	13400 J	11000	27000	-	-	-	-
PCBs												
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	709-MW-10-15	709-MW-10-15	709-MW11-15	709-MW11-15	709-MW11-15	709-MW11-15	709-MW11-15	709-MW12-15	709-MW12-15	709-MW12-15	709-MW12-15	709-MW13-15	
Sample ID:	MW10-S7-95	MW10-S7-95	MW11-S3-95	MW-S3-95	MW11-S6-95	MW-S6-95	MW12-S3-95	MW12-S3-95	MW12-S7-95	MW12-S7-95	MW12-S7-95	MW13-S3-95	
Sample Date:	7/27/1995	7/27/1995	7/28/1995	7/28/1995	7/28/1995	7/28/1995	7/28/1995	7/28/1995	7/28/1995	7/28/1995	7/28/1995	7/27/1995	
Sample Depth:	15 to 16.5 ft BGS	16 ft bgs	5 to 6.5 ft BGS	5 ft bgs	15 to 16.5 ft BGS	16 ft bgs	5 ft bgs	5 to 6.5 ft BGS	15 to 16.5 ft BGS	16 ft bgs	16 ft bgs	5 ft bgs	
elev_MLLW	2.92 to 1.42	1.92	12.92 to 11.42	12.92	2.92 to 1.42	1.92	12.92	12.92 to 11.42	2.92 to 1.42	1.92	10.82		
elev_NGVD	-3.4 to -4.9	-4.4	6.6 to 5.1	6.6	-3.4 to -4.9	-4.4	6.6	6.6 to 5.1	-3.4 to -4.9	-4.4	4.5		
Parameters	Units	Cs											
Volatile Organic Compounds													
1,1,2,2-Tetrachloroethane	µg/kg	4.02	63 U	-	620 U	-	68 U	-	-	62 U	62 U	-	-
1,1,2-Trichloroethane	µg/kg	15.2	63 U	-	620 U	-	68 U	-	-	62 U	62 U	-	-
1,1-Dichloroethene	µg/kg	1.13	63 U	63 U	620 U	620 U	68 U	68 U	62 U	62 U	62 U	62 U	580 U
Carbon tetrachloride	µg/kg	1.93	63 U	-	620 U	-	68 U	-	-	62 U	62 U	-	-
Chloroform (Trichloromethane)	µg/kg	1.60	63 U	-	620 U	-	68 U	-	-	62 U	62 U	-	-
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg	475	240 JB	240 J	4000 B	4000	280 JB	280 J	420	420 B	240 JB	240 J	4600
Tetrachloroethene	µg/kg	4.88	63 U	63 U	620 U	620 U	68 U	68 U	62 U	62 U	62 U	62 U	580 U
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	63 U	63 U	620 U	620 U	68 U	68 U	62 U	62 U	62 U	62 U	580 U
Vinyl chloride	µg/kg	0.73	63 U	-	620 U	-	68 U	-	-	62 U	62 U	-	-
Semi-volatile Organic Compounds													
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	-	-
Metals~Total													
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-	-
PCBs													
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-	-
Pesticides													
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		709-MW13-15	709-MW13-15	709-MW14-15	709-MW14-15	709-MW14-15	709-MW14-15	709-MW14-15	709-MW15-15	709-MW15-15	709-MW15-15	709-MW15-15	709-MW16-15
<i>Sample ID:</i>		MW13-S3-95	MW13-S7-95	MW14-S3-95	MW14-S3-95	MW14-S8-95	MW14-S8-95	MW14-S8-95	MW15-S1-95	MW15-S3-95	MW15-S12-95	MW15-S3-95	MW16-S3-95
<i>Sample Date:</i>		7/27/1995	7/27/1995	7/28/1995	7/28/1995	7/28/1995	7/28/1995	7/28/1995	7/31/1995	7/31/1995	7/31/1995	7/31/1996	7/27/1995
<i>Sample Depth:</i>		5 to 6.5 ft BGS	15 to 16.5 ft BGS	5 ft bgs	5 to 6.5 ft BGS	17.5 to 19 ft BGS	18 ft bgs	5 ft bgs	5 to 6.5 ft BGS	27.5 to 29 ft BGS	28 ft bgs	5 to 6.5 ft BGS	
<i>elev_MLLW</i>		10.82 to 9.32	0.82 to -0.68	12.92	12.92 to 11.42	0.42 to -1.08	-0.08	12.85	12.85 to 11.35	-9.65 to -11.15	-10.15	12.92 to 11.42	
<i>elev_NGVD</i>		4.5 to 3	-5.5 to -7	6.6	6.6 to 5.1	-5.9 to -7.4	-6.4	6.5	6.5 to 5	-16 to -17.5	-16.5	6.6 to 5.1	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>											
Volatile Organic Compounds													
1,1,2,2-Tetrachloroethane	µg/kg	4.02	580 U	61 U	-	610 U	64 U	-	-	59 U	67 U	-	300 U
1,1,2-Trichloroethane	µg/kg	15.2	580 U	61 U	-	610 U	64 U	-	-	59 U	67 U	-	300 U
1,1-Dichloroethene	µg/kg	1.13	580 U	61 U	610 U	610 U	64 U	64 U	67 U	59 U	67 U	59 U	300 U
Carbon tetrachloride	µg/kg	1.93	580 U	61 U	-	610 U	64 U	-	-	59 U	67 U	-	300 U
Chloroform (Trichloromethane)	µg/kg	1.60	580 U	61 U	-	610 U	64 U	-	-	59 U	67 U	-	300 U
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg	475	4600 B	280 JB	4600	4600 B	260 JB	260 J	300 J	250 JB	300 JB	250 J	2600 B
Tetrachloroethene	µg/kg	4.88	580 U	61 U	610 U	610 U	64 U	64 U	67 U	120	67 U	59 U	300 U
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	580 U	61 U	610 U	610 U	78	78	67 U	59 U	67 U	59 U	300 U
Vinyl chloride	µg/kg	0.73	580 U	61 U	-	610 U	64 U	-	-	59 U	67 U	-	300 U
Semi-volatile Organic Compounds													
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	-	-
Metals~Total													
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-	-
PCBs													
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-	-
Pesticides													
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>709-MW16-15</i>	<i>709-MW16-15</i>	<i>709-MW16-15</i>	<i>709-MW17-15</i>	<i>709-MW17-15</i>	<i>709-MW17-15</i>	<i>709-MW17-15</i>	<i>709-MW18-15</i>	<i>709-MW18-15</i>	<i>709-MW18-15</i>	<i>709-MW18-15</i>	
<i>Sample ID:</i>		<i>MW16-S3-95</i>	<i>MW16-S7-95</i>	<i>MW16-S7-95</i>	<i>MW17-S3-95</i>	<i>MW17-S3-95</i>	<i>MW17-S6-95</i>	<i>MW17-S6-95</i>	<i>MW18-S3-95</i>	<i>MW18-S3-95</i>	<i>MW18-S7-95</i>	<i>MW18-S7-95</i>	
<i>Sample Date:</i>		<i>7/27/1995</i>	<i>7/27/1995</i>	<i>7/27/1995</i>	<i>7/26/1995</i>	<i>7/26/1995</i>	<i>7/26/1995</i>	<i>7/26/1995</i>	<i>7/31/1995</i>	<i>7/31/1995</i>	<i>7/31/1995</i>	<i>7/31/1995</i>	
<i>Sample Depth:</i>		<i>6 ft bgs</i>	<i>15 to 16.5 ft BGS</i>	<i>16 ft bgs</i>	<i>5 to 6.5 ft BGS</i>	<i>6 ft bgs</i>	<i>12.5 to 14 ft BGS</i>	<i>14 ft bgs</i>	<i>5 to 6.5 ft BGS</i>	<i>6 ft bgs</i>	<i>15 to 16.5 ft BGS</i>	<i>16 ft bgs</i>	
<i>elev_MLLW</i>		<i>11.92</i>	<i>2.92 to 1.42</i>	<i>1.92</i>	<i>12.92 to 11.42</i>	<i>11.92</i>	<i>5.42 to 3.92</i>	<i>3.92</i>	<i>12.92 to 11.42</i>	<i>11.92</i>	<i>2.92 to 1.42</i>	<i>1.92</i>	
<i>elev_NGVD</i>		<i>5.6</i>	<i>-3.4 to -4.9</i>	<i>-4.4</i>	<i>6.6 to 5.1</i>	<i>5.6</i>	<i>-0.9 to -2.4</i>	<i>-2.4</i>	<i>6.6 to 5.1</i>	<i>5.6</i>	<i>-3.4 to -4.9</i>	<i>-4.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>											
<i>Volatile Organic Compounds</i>													
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	68 U	-	58 U	-	63 U	-	59 U	-	64 U	-
1,1,2-Trichloroethane	µg/kg	15.2	-	68 U	-	58 U	-	63 U	-	59 U	-	64 U	-
1,1-Dichloroethene	µg/kg	1.13	300 U	68 U	68 U	58 U	58 U	63 U	63 U	59 U	59 U	250	250
Carbon tetrachloride	µg/kg	1.93	-	68 U	-	58 U	-	63 U	-	59 U	-	64 U	-
Chloroform (Trichloromethane)	µg/kg	1.60	-	68 U	-	58 U	-	63 U	-	59 U	-	64 U	-
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg	475	2600	470 B	470	160 JB	160 J	210 JB	210 J	320 B	320	300 JB	300 J
Tetrachloroethene	µg/kg	4.88	300 U	68 U	68 U	58 U	58 U	63 U	63 U	59 U	59 U	64 U	64 U
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	300 U	68 U	68 U	58 U	58 U	63 U	63 U	59 U	59 U	11000	11000
Vinyl chloride	µg/kg	0.73	-	68 U	-	58 U	-	63 U	-	59 U	-	64 U	-
<i>Semi-volatile Organic Compounds</i>													
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	-	-
<i>Metals~Total</i>													
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-	-
<i>PCBs</i>													
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>													
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	709-MW19-15	709-MW19-15	709-MW19-15	709-MW19-15	709-MW20	709-MW20	709-MW20	709-MW20
Sample ID:	MW19-S4-95	MW19-S4-95	MW19-S7-95	MW19-S7-95	S-060212-NE-709MW20-002	S-060212-NE-709MW20-003	S-060212-NE-709MW20-004	S-060212-NE-709MW20-005
Sample Date:	7/28/1995	7/28/1995	7/28/1995	7/28/1995	6/2/2012	6/2/2012	6/2/2012	6/2/2012
Sample Depth:	5 to 6.5 ft BGS	7.5 ft bgs	15 to 16.5 ft BGS	16 ft bgs	5 to 6 ft BGS	10 to 11 ft BGS	15 to 16 ft BGS	20 to 21 ft BGS
elev_MLLW	12.71 to 11.21	10.21	2.71 to 1.21	1.71	14.78 to 13.78	9.78 to 8.78	4.78 to 3.78	-0.22 to -1.22
elev_NGVD	6.4 to 4.9	3.9	-3.6 to -5.1	-4.6	8.5 to 7.5	3.5 to 2.5	-1.5 to -2.5	-6.5 to -7.5

Parameters	Units	Cs	709-MW19-15	709-MW19-15	709-MW19-15	709-MW19-15	709-MW20	709-MW20	709-MW20	709-MW20
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	61 U	-	64 U	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	15.2	61 U	-	64 U	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1.13	61 U	61 U	64 U	64 U	-	-	-	-
Carbon tetrachloride	µg/kg	1.93	61 U	-	64 U	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	160	61 U	-	64 U	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg	475	290 JB	290 J	320 B	320	-	-	-	-
Tetrachloroethene	µg/kg	4.88	61 U	61 U	690	690	-	-	-	-
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	61 U	61 U	64 U	64 U	-	-	-	-
Vinyl chloride	µg/kg	0.73	61 U	-	64 U	-	-	-	-	-
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	5240	1550	2040	4050
Chromium	µg/kg	714	-	-	-	-	68100	13100	6940	6950
Copper	µg/kg	53.5	-	-	-	-	18600	9760	9640	11400
Lead	µg/kg	81002	-	-	-	-	1130000	12000	1330	1980
Mercury	µg/kg	1.31	-	-	-	-	58	16 J	12 J	21
Nickel	µg/kg	535	-	-	-	-	25700	8130	8500	7070
Thallium	µg/kg	34	-	-	-	-	32	22	41	69
Zinc	µg/kg	5045	-	-	-	-	82500	40200	13900	15800
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	709-MW20	709-MW21	709-MW21	709-MW21	721-MW5-50	721-MW5-50	721-MW5-50	721-MW6-50		
Sample ID:	S-060212-NE-709MW20-006	S-060112-NE-709MW21-002	S-060112-NE-709MW21-003	S-060112-NE-709MW21-004	04-10142-GU31B	04-10143-GU31C	04-10144-GU31D	04-10367-GU61E		
Sample Date:	6/2/2012	6/1/2012	6/1/2012	6/1/2012	6/28/2004	6/28/2004	6/28/2004	7/1/2004		
Sample Depth:	24.5 to 25.5 ft BGS	9 to 10 ft BGS	14 to 15 ft BGS	23 to 24 ft BGS	6 to 8 ft BGS	16 to 18 ft BGS	24 to 26 ft BGS	8 to 10 ft BGS		
elev_MLLW	-4.72 to -5.72	9.06 to 8.06	4.06 to 3.06	-4.94 to -5.94	11.71 to 9.71	1.71 to -0.29	-6.29 to -8.29	9.5 to 7.5		
elev_NGVD	-11 to -12	2.7 to 1.7	-2.3 to -3.3	-11.3 to -12.3	5.4 to 3.4	-4.6 to -6.6	-12.6 to -14.6	3.2 to 1.2		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	5.6 U	6.0 U	5.7 U	130 U	13 U	1.0 U	160 U
1,1,2-Trichloroethane	µg/kg	15.2	-	5.6 U	6.0 U	5.7 U	130 U	13 U	1.0 U	160 U
1,1-Dichloroethene	µg/kg	1.13	-	5.6 U	6.0 U	5.7 U	130 U	13 U	1.0 U	160 U
Carbon tetrachloride	µg/kg	1.93	-	5.6 U	6.0 U	5.7 U	130 U	13 U	1.0 U	160 U
Chloroform (Trichloromethane)	µg/kg	160	-	5.6 U	6.0 U	5.7 U	130 U	13 U	1.0 U	160 U
cis-1,2-Dichloroethene	µg/kg	NV	-	5.6 U	6.0 U	5.7 U	130 U	13 U	1.0 U	160 U
Methylene chloride	µg/kg	475	-	27 U	13 U	12 U	270 U	26 U	1.9 U	320 U
Tetrachloroethene	µg/kg	4.88	-	0.80 J	0.94 J	1.1 J	130 U	13 U	1.0 U	160 U
trans-1,2-Dichloroethene	µg/kg	3247	-	5.6 U	6.0 U	5.7 U	130 U	13 U	1.0 U	160 U
Trichloroethene	µg/kg	30.8	-	5.6 U	6.0 U	5.7 U	130 U	13 U	1.0 U	160 U
Vinyl chloride	µg/kg	0.73	-	5.6 U	6.0 U	5.7 U	130 U	13 U	1.0 U	160 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	530 U	62 U	19 U	36 U
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	530 U / 670 U	62 U / 66 U	19 U / 4.8 U	36 U / 800 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	2700 U	310 U	97 U	180 U
Metals~Total										
Arsenic	µg/kg	146		530	1000	1030	500	-	-	-
Chromium	µg/kg	714		6520	6440	5900	6170	-	-	-
Copper	µg/kg	53.5		10500	8190	8660	8660	-	-	-
Lead	µg/kg	81002		1270	1290	867	1130	-	-	-
Mercury	µg/kg	1.31		10 J	4 J	3 J	6 J	-	-	-
Nickel	µg/kg	535		7630	6890	6350	6420	-	-	-
Thallium	µg/kg	34		21	25	31	16 J	-	-	-
Zinc	µg/kg	5045		15400	11400 J	12000 J	11600 J	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	721-MW6-50	721-MW6-50	721-MW7-15	721-MW7-15	721-MW8-15	721-MW8-15	721-MW8-15	721-MW8-15	721-MW9-50	721-MW9-50	721-MW10	
Sample ID:	04-10368-GU61F	04-10369-GU61G	04-10365-GU61C	04-10388-GU67D	04-10363-GU61A	04-8559-GS12J	04-10386-GU67B	04-10146-GU31F	04-10147-GU31G	S-060512-NE-721MW10-002		
Sample Date:	7/1/2004	7/1/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/29/2004	6/29/2004	6/5/2012		
Sample Depth:	18 to 20 ft BGS	22 to 24 ft BGS	8 to 10 ft BGS	14 to 16 ft BGS	6 to 8 ft BGS	8 to 10 ft BGS	14 to 16 ft BGS	12 to 14 ft BGS	24 to 26 ft BGS	5 to 6 ft BGS		
elev_MLLW	-0.5 to -2.5	-4.5 to -6.5	9.51 to 7.51	3.51 to 1.51	11.34 to 9.34	9.34 to 7.34	3.34 to 1.34	5.72 to 3.72	-6.28 to -8.28	12.1 to 11.1		
elev_NGVD	-6.8 to -8.8	-10.8 to -12.8	3.2 to 1.2	-2.8 to -4.8	5 to 3	3 to 1	-3 to -5	-0.6 to -2.6	-12.6 to -14.6	5.8 to 4.8		
Parameters	Units	Cs										
Volatile Organic Compounds												
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6.3 U	1.2 U	150 U	1.0 U	690 U	150 U	1.1 U	1.0 U	1.0 U	-
1,1,2-Trichloroethane	µg/kg	15.2	6.3 U	1.2 U	150 U	1.0 U	690 U	150 U	1.1 U	1.0 U	1.0 U	-
1,1-Dichloroethene	µg/kg	1.13	6.3 U	1.2 U	150 U	1.0 U	690 U	150 U	1.1 U	1.0 U	1.0 U	-
Carbon tetrachloride	µg/kg	1.93	6.3 U	1.2 U	150 U	1.0 U	690 U	150 U	1.1 U	1.0 U	1.0 U	-
Chloroform (Trichloromethane)	µg/kg	160	6.3 U	1.2 U	150 U	1.0 U	690 U	150 U	1.1 U	1.0 U	1.0 U	-
cis-1,2-Dichloroethene	µg/kg	NV	6.3 U	1.2 U	150 U	4.5	690 U	150 U	26	1.0 U	1.0 U	-
Methylene chloride	µg/kg	475	13 U	2.5 U	290 U	2.1 U	1400 U	300 U	2.6 M	2.1 U	1.9 U	-
Tetrachloroethene	µg/kg	4.88	6.3 U	1.2 U	150 U	19	690 U	150 U	62	1.0 U	1.0 U	-
trans-1,2-Dichloroethene	µg/kg	3247	6.3 U	1.2 U	150 U	1.0 U	690 U	150 U	1.1 M	1.0 U	1.0 U	-
Trichloroethene	µg/kg	30.8	6.3 U	1.2 U	150 U	27	690 U	150 U	140	1.0 U	1.0 U	-
Vinyl chloride	µg/kg	0.73	6.3 U	1.2 U	150 U	1.0 U	690 U	150 U	1.1 U	1.0 U	1.0 U	-
Semi-volatile Organic Compounds												
Hexachlorobenzene	µg/kg	0.062	20 U	20 U	25 U	20 U	89 U	98 U	19 U	20 U	20 U	-
Hexachlorobutadiene	µg/kg	0.702	32 U / 20 U	20 U / 6.2 U	730 U / 25 U	5.2 U / 20 U	89 U / 3400 U	98 U / 750 U	5.7 U / 19 U	5.2 U / 20 U	4.8 U / 20 U	-
Pentachlorophenol	µg/kg	6.94	99 U	100 U	130 U	98 U	440 U	490 U	96 U	99 U	99 U	-
Metals~Total												
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	1170
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	7430
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	8790
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	18700
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	6 J
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	7370
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	52
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	15400 J
PCBs												
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	721-MW10	721-MW10	721-MW10	721-MW10	721-MW11	721-MW11
Sample ID:	S-060512-NE-721MW10-003	S-060512-NE-721MW10-004	S-060512-NE-721MW10-005	S-060512-NE-721MW10-006	S-071212-TRH-721MW11-001	S-071212-TRH-721MW11-002
Sample Date:	6/5/2012	6/5/2012	6/5/2012	6/5/2012	7/12/2012	7/12/2012
Sample Depth:	10 to 11 ft BGS	14.5 to 15.5 ft BGS	19.5 to 20.5 ft BGS	24 to 25 ft BGS	12.5 to 12.5 ft BGS	25 to 25 ft BGS
elev_MLLW	7.1 to 6.1	2.6 to 1.6	-2.4 to -3.4	-6.9 to -7.9	5.26 to 5.26	-7.24 to -7.24
elev_NGVD	0.8 to -0.2	-3.7 to -4.7	-8.7 to -9.7	-13.2 to -14.2	-1.1 to -1.1	-13.6 to -13.6
Parameters	Units	Cs				
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	6.4 U
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	6.4 U
1,1-Dichloroethene	µg/kg	1.13	-	-	-	6.4 U
Carbon tetrachloride	µg/kg	1.93	-	-	-	6.4 U
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	6.4 U
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	6.4 U
Methylene chloride	µg/kg	475	-	-	-	13 U
Tetrachloroethene	µg/kg	4.88	-	-	-	0.24 J
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	6.4 U
Trichloroethene	µg/kg	30.8	-	-	-	6.4 U
Vinyl chloride	µg/kg	0.73	-	-	-	6.4 U
Semi-volatile Organic Compounds						
Hexachlorobenzene	µg/kg	0.062	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-
Metals~Total						
Arsenic	µg/kg	146	1420	2040	260 J	2390
Chromium	µg/kg	714	8880	7850	5970	7460
Copper	µg/kg	53.5	8350	12100	8360	11000
Lead	µg/kg	81002	5070	1550	1140	1330
Mercury	µg/kg	1.31	5 J	10 J	3 J	5 J
Nickel	µg/kg	535	8510	7070	6250	6630
Thallium	µg/kg	34	52	48	11 J	84
Zinc	µg/kg	5045	13700 J	14700 J	13200 J	14600 J
PCBs						
Total PCBs	µg/kg	0.053	-	-	-	20 U
Pesticides						
4,4'-DDD	µg/kg	0.043	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	721-MW11	721-MW11	721-BH-01	721-BH-01	721-BH-01	721-BH-02	721-BH-02		
Sample ID:	S-071312-TRH-721-MW-11-003	S-071312-TRH-721-MW-11-004	S-053012-NE-721BH01-002	S-053012-NE-721BH01-003	S-053012-NE-721BH01-004	S-052312-NE-721BH02-002	S-052312-NE-721BH02-003		
Sample Date:	7/13/2012	7/13/2012	5/30/2012	5/30/2012	5/30/2012	5/23/2012	5/23/2012		
Sample Depth:	64 to 64 ft BGS	75 to 75 ft BGS	9.5 to 10.5 ft BGS	19 to 20 ft BGS	23 to 24 ft BGS	9 to 10 ft BGS	16.5 to 17.5 ft BGS		
elev_MLLW	-46.24 to -46.24	-57.24 to -57.24	8.23 to 7.23	-1.27 to -2.27	-5.27 to -6.27	8.63 to 7.63	1.13 to 0.13		
elev_NGVD	-52.6 to -52.6	-63.6 to -63.6	1.9 to 0.9	-7.6 to -8.6	-11.6 to -12.6	2.3 to 1.3	-5.2 to -6.2		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.5 U	5.8 U	340 U	7.9 U	6.5 U	200 U	6.9 U
1,1,2-Trichloroethane	µg/kg	15.2	5.5 U	5.8 U	340 U	7.9 U	6.5 U	200 U	6.9 U
1,1-Dichloroethene	µg/kg	1.13	5.5 U	5.8 U	340 U	1.2 J	1.3 J	200 U	6.9 U
Carbon tetrachloride	µg/kg	1.93	5.5 U	5.8 U	340 U	7.9 U	6.5 U	200 U	6.9 U
Chloroform (Trichloromethane)	µg/kg	160	5.5 U	5.8 U	340 U	7.9 U	6.5 U	200 U	6.9 U
cis-1,2-Dichloroethene	µg/kg	NV	5.5 U	5.8 U	340 U	19	11	200 U	6.9 U
Methylene chloride	µg/kg	475	11 U	12 U	310 J	16 U	13 U	790 U	14 U
Tetrachloroethene	µg/kg	4.88	5.5 U	5.8 U	340 U	3.5 J	2.7 J	200 U	2.0 J
trans-1,2-Dichloroethene	µg/kg	3247	5.5 U	5.8 U	340 U	7.9 U	6.5 U	200 U	6.9 U
Trichloroethene	µg/kg	30.8	5.5 U	5.8 U	340 U	1.6 J	0.68 J	200 U	6.9 U
Vinyl chloride	µg/kg	0.73	5.5 U	5.8 U	340 U	0.58 J	6.5 U	200 U	2.0 J
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	570	1140	1230	3050	360 J	1210	5500
Chromium	µg/kg	714	6660	9960	6450	7200	6320	7410	18100
Copper	µg/kg	53.5	9730	13100	9050	12000	9860	9790	35000
Lead	µg/kg	81002	1170	1410	5150	1530	1110	8360	5200
Mercury	µg/kg	1.31	8 J	8 J	4 J	9 J	7 J	5 J	43
Nickel	µg/kg	535	6250	8710	9480	9880	9430	12200	16000
Thallium	µg/kg	34	21	33	45	37	25	30	97
Zinc	µg/kg	5045	16700 U	18500 U	13400	15400	16700	16600	35400
PCBs									
Total PCBs	µg/kg	0.053	20 U	20 U	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	721-BH-02	721-BH-03	721-BH-04	721-BH-04	721-BH-04	721-BH-05	721-BH-07		
Sample ID:	S-052312-NE-721BH02-004	S-053112-NE-721BH03-002	S-052212-NE-721BH04-002	S-052212-NE-721BH04-003	S-052212-NE-721BH04-004	S-053112-NE-721BH05-002	S-053012-NE-721BH07-002		
Sample Date:	5/23/2012	5/31/2012	5/22/2012	5/22/2012	5/22/2012	5/31/2012	5/30/2012		
Sample Depth:	23 to 24 ft BGS	7.5 to 8.5 ft BGS	7.5 to 8.5 ft BGS	16 to 17 ft BGS	23 to 24 ft BGS	5 to 6 ft BGS	5 to 6 ft BGS		
elev_MLLW	-5.37 to -6.37	10.26 to 9.26	9.79 to 8.79	1.29 to 0.29	-5.71 to -6.71	12.67 to 11.67	12.12 to 11.12		
elev_NGVD	-11.7 to -12.7	3.9 to 2.9	3.5 to 2.5	-5 to -6	-12 to -13	6.4 to 5.4	5.8 to 4.8		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.9 U	3100	360 U	6.9 U	5.0 U	1200 U	750 UJ
1,1,2-Trichloroethane	µg/kg	15.2	5.9 U	1500 U	360 U	6.9 U	5.0 U	1200 U	750 UJ
1,1-Dichloroethene	µg/kg	1.13	5.9 U	1500 U	360 U	6.9 U	5.0 U	1200 U	750 UJ
Carbon tetrachloride	µg/kg	1.93	5.9 U	1500 U	360 U	6.9 U	5.0 U	1200 U	750 UJ
Chloroform (Trichloromethane)	µg/kg	160	5.9 U	1500 U	360 U	6.9 U	5.0 U	1200 U	750 UJ
cis-1,2-Dichloroethene	µg/kg	NV	5.9 U	1500 U	360 U	7.2	5.0 U	1200 U	750 UJ
Methylene chloride	µg/kg	475	12 U	1300 J	130 J	14 U	10 U	1100 J	3000 UJ
Tetrachloroethene	µg/kg	4.88	1.2 J	1500 U	360 U	2.3 J	2.0 J	1200 U	750 UJ
trans-1,2-Dichloroethene	µg/kg	3247	5.9 U	1500 U	360 U	0.40 J	5.0 U	1200 U	750 UJ
Trichloroethene	µg/kg	30.8	5.9 U	1500 U	360 U	0.48 J	5.0 U	1200 U	750 UJ
Vinyl chloride	µg/kg	0.73	5.9 U	1500 U	360 U	12	5.0 U	1200 U	750 UJ
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	560	1250	780	5400	2130	910	2190
Chromium	µg/kg	714	7810	5660	6980	14200	9490	5690	8920
Copper	µg/kg	53.5	10000	8550	8170	30100	15400	8310	12800
Lead	µg/kg	81002	1360	3850	5930	5060	1820	4600	6660
Mercury	µg/kg	1.31	8 J	5 J	7 J	53	10 J	4 J	5 J
Nickel	µg/kg	535	7500	11100	9750	12100	8270	7200	25300
Thallium	µg/kg	34	23	27	27	127	78	23	59
Zinc	µg/kg	5045	16700	13900 J	14100	30700	18800	15000 J	28100
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		721-BH-07	721-BH-07	721-BH-08	721-BH-09	721-BH-09	721-BH-10	721-BH-11	
Sample ID:		S-053012-NE-721BH07-003	S-053012-NE-721BH07-004	S-053112-NE-721BH08-002	S-061912-SP-721BH9-002	S-061912-SP-721BH9-003	S-053112-NE-721BH10-002	S-052112-NE-721BH11-002	
Sample Date:		5/30/2012	5/30/2012	5/31/2012	6/19/2012	6/19/2012	5/31/2012	5/21/2012	
Sample Depth:		16 to 17 ft BGS	23 to 24 ft BGS	4 to 5 ft BGS	5 to 10 ft BGS	10 to 15 ft BGS	6 to 7 ft BGS	7 to 8 ft BGS	
elev_MLLW		1.12 to 0.12	-5.88 to -6.88	13.63 to 12.63	12.4 to 7.4	7.4 to 2.4	11.52 to 10.52	10.36 to 9.36	
elev_NGVD		-5.2 to -6.2	-12.2 to -13.2	7.3 to 6.3	6.1 to 1.1	1.1 to -3.9	5.2 to 4.2	4 to 3	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6.6 U	6.5 U	62 U	370 U	5.9 UJ	1400 U	5.5 U
1,1,2-Trichloroethane	µg/kg	15.2	6.6 U	6.5 U	62 U	390 U	5.9 UJ	1400 U	5.5 U
1,1-Dichloroethene	µg/kg	1.13	6.6 U	6.5 U	62 U	370 U	5.9 UJ	1400 U	5.5 U
Carbon tetrachloride	µg/kg	1.93	6.6 U	6.5 U	62 U	370 U	5.9 UJ	1400 U	5.5 U
Chloroform (Trichloromethane)	µg/kg	160	6.6 U	6.5 U	62 U	370 U	5.9 UJ	1400 U	5.5 U
cis-1,2-Dichloroethene	µg/kg	NV	6.6 U	6.5 U	62 U	370 U	5.9 UJ	1400 U	5.5 U
Methylene chloride	µg/kg	475	14 U	13 U	250 U	1500 U	58 UJ	1200 J	11 U
Tetrachloroethene	µg/kg	4.88	1.5 J	4.0 J	62 U	370 U	0.45 J	1400 U	0.59 J
trans-1,2-Dichloroethene	µg/kg	3247	6.6 U	6.5 U	62 U	370 U	5.9 UJ	1400 U	5.5 U
Trichloroethene	µg/kg	30.8	6.6 U	0.67 J	62 U	370 U	5.9 UJ	1400 U	5.5 U
Vinyl chloride	µg/kg	0.73	6.6 U	6.5 U	62 U	370 U	5.9 UJ	1400 U	5.5 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	5870	2090	1640	860	910	870	1070
Chromium	µg/kg	714	13500	7940	7230	7030	7880	5920	5440
Copper	µg/kg	53.5	33300	11800	9920	8570	8430	7640	8290
Lead	µg/kg	81002	5120	1480	19900	1430	1190	1440	856
Mercury	µg/kg	1.31	43	7 J	8 J	5 J	4 J	4 J	4 J
Nickel	µg/kg	535	16400	10900	7840	7660	7160	6980	7630
Thallium	µg/kg	34	121	25	29	28	27	35	25 U
Zinc	µg/kg	5045	24200	20900	22600 J	14300 U	14200 U	12400 J	17800
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	9.9 U
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>721-BH-11</i>	<i>721-BH-11</i>	<i>721-BH-12</i>	<i>721-BH-12</i>	<i>721-BH-12</i>	<i>721-BH-13</i>	<i>721-BH-13</i>	
<i>Sample ID:</i>		<i>S-052112-NE-721BH11-003</i>	<i>S-052112-NE-721BH11-004</i>	<i>S-052312-NE-721BH12-002</i>	<i>S-052312-NE-721BH12-003</i>	<i>S-052312-NE-721BH12-004</i>	<i>S-052112-NE-721BH13-002</i>	<i>FD-052112-NE-721BH13-002</i>	
<i>Sample Date:</i>		<i>5/21/2012</i>	<i>5/21/2012</i>	<i>5/23/2012</i>	<i>5/23/2012</i>	<i>5/23/2012</i>	<i>5/21/2012</i>	<i>5/21/2012</i>	
<i>Sample Depth:</i>		<i>16 to 17 ft BGS</i>	<i>23 to 24 ft BGS</i>	<i>5 to 6 ft BGS</i>	<i>16 to 17 ft BGS</i>	<i>23 to 24 ft BGS</i>	<i>6 to 7.25 ft BGS</i>	<i>6 to 7.25 ft BGS</i>	
<i>elev_MLLW</i>		<i>1.36 to 0.36</i>	<i>-5.64 to -6.64</i>	<i>12.77 to 11.77</i>	<i>1.77 to 0.77</i>	<i>-5.23 to -6.23</i>	<i>11.63 to 10.38</i>	<i>11.63 to 10.38</i>	
<i>elev_NGVD</i>		<i>-5 to -6</i>	<i>-12 to -13</i>	<i>6.4 to 5.4</i>	<i>-4.6 to -5.6</i>	<i>-11.6 to -12.6</i>	<i>5.3 to 4.1</i>	<i>5.3 to 4.1</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						<i>(Duplicate)</i>	
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	81 U	71 U	170 U	6.8 U	5.6 U	420 U	140 U
1,1,2-Trichloroethane	µg/kg	15.2	81 U	71 U	170 U	6.8 U	5.6 U	420 U	140 U
1,1-Dichloroethene	µg/kg	1.13	81 U	71 U	170 U	6.8 U	5.6 U	83 U	140 U
Carbon tetrachloride	µg/kg	1.93	81 U	71 U	170 U	6.8 U	5.6 U	83 U	140 U
Chloroform (Trichloromethane)	µg/kg	160	81 U	71 U	170 U	6.8 U	5.6 U	83 U	140 U
cis-1,2-Dichloroethene	µg/kg	NV	81 U	71 U	170 U	6.8 U	5.6 U	83 U	140 U
Methylene chloride	µg/kg	475	330 U	290 U	670 U	14 U	12 U	330 U	560 U
Tetrachloroethene	µg/kg	4.88	81 U	71 U	170 U	2.0 J	0.70 J	170 J	53 J
trans-1,2-Dichloroethene	µg/kg	3247	81 U	71 U	170 U	6.8 U	5.6 U	83 U	140 U
Trichloroethene	µg/kg	30.8	81 U	71 U	170 U	0.77 J	5.6 U	83 U	140 U
Vinyl chloride	µg/kg	0.73	81 U	71 U	170 U	6.8 U	5.6 U	83 U	140 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	5210	610	550	4040	1210	430 J	530 J
Chromium	µg/kg	714	15700	6240	8080	16400	8120	8890	6680
Copper	µg/kg	53.5	34600	10300	8310	30500	14700	7590	8030
Lead	µg/kg	81002	4760	1090	2410	4010	1450	2690	3240
Mercury	µg/kg	1.31	32	5 J	4 J	31	9 J	3 J	5 J
Nickel	µg/kg	535	13600	6590	7720	13000	8410	7730	8210
Thallium	µg/kg	34	115	24 U	26	99	31	24 U	24 U
Zinc	µg/kg	5045	31700	13600	15000	30600	16900	13700	15300
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	20 U	9.9 U	-	-	-	63 U	98 U
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	721-BH-13	721-BH-13	721-BH-14	721-BH-14	721-BH-14	721-BH-15	721-BH-15		
Sample ID:	S-052112-NE-721BH13-003	S-052112-NE-721BH13-004	S-052012-NE-721BH14-002	S-052012-NE-721BH14-003	S-052012-NE-721BH14-004	S-052212-NE-721BH15-002	S-052212-NE-721BH15-003		
Sample Date:	5/21/2012	5/21/2012	5/20/2012	5/20/2012	5/20/2012	5/22/2012	5/22/2012		
Sample Depth:	16 to 17 ft BGS	23 to 24 ft BGS	7 to 8 ft BGS	16 to 17 ft BGS	23 to 24 ft BGS	5 to 6 ft BGS	17.5 to 18.5 ft BGS		
elev_MLLW	1.63 to 0.63	-5.37 to -6.37	9.95 to 8.95	0.95 to -0.05	-6.05 to -7.05	12.75 to 11.75	0.25 to -0.75		
elev_NGVD	-4.7 to -5.7	-11.7 to -12.7	3.6 to 2.6	-5.4 to -6.4	-12.4 to -13.4	6.4 to 5.4	-6.1 to -7.1		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6.1 U	6.0 U	5.9 UJ	7.7 U	5.7 UJ	160 U	6.1 U
1,1,2-Trichloroethane	µg/kg	15.2	6.1 U	6.0 U	5.9 U	7.7 U	5.7 U	160 U	6.1 U
1,1-Dichloroethene	µg/kg	1.13	6.1 U	6.0 U	5.9 U	7.7 U	5.7 U	160 U	6.1 U
Carbon tetrachloride	µg/kg	1.93	6.1 U	6.0 U	5.9 U	7.7 U	5.7 U	160 U	6.1 U
Chloroform (Trichloromethane)	µg/kg	160	6.1 U	6.0 U	5.9 U	7.7 U	5.7 U	160 U	6.1 U
cis-1,2-Dichloroethene	µg/kg	NV	6.1 U	6.0 U	5.9 U	7.7 U	5.7 U	160 U	6.1 U
Methylene chloride	µg/kg	475	13 U	12 U	12 U	16 U	12 U	630 U	23 U
Tetrachloroethene	µg/kg	4.88	6.1 U	1.9 J	0.32 J	7.7 U	0.32 J	75 J	1.6 J
trans-1,2-Dichloroethene	µg/kg	3247	6.1 U	6.0 U	5.9 U	7.7 U	5.7 U	160 U	6.1 U
Trichloroethene	µg/kg	30.8	6.1 U	0.56 J	5.9 U	7.7 U	5.7 U	160 U	6.1 U
Vinyl chloride	µg/kg	0.73	6.1 U	6.0 U	5.9 U	7.7 U	5.7 U	160 U	6.1 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	3120	1520	780	3100	1000	1090	2310
Chromium	µg/kg	714	13300	8800	5410	11300	7780	7070	10900
Copper	µg/kg	53.5	26500	16900	7630	21200	12400	8290	18400
Lead	µg/kg	81002	4130	1740	846	2740	1440	2540	2580
Mercury	µg/kg	1.31	26	15 J	23 U	26	8 J	4 J	16 J
Nickel	µg/kg	535	11800	9580	6970	9790	8180	8770	9530
Thallium	µg/kg	34	82	44	20 J	81	56	34	66
Zinc	µg/kg	5045	26400	19100	15400	21700	16700	13700	21300
PCBs									
Total PCBs	µg/kg	0.053	20 U	20 U	20 U	20 U	20 U	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		721-BH-15	721-BH-16	721-BH-16	721-BH-16	721-BH-17	721-BH-17	721-BH-17	
<i>Sample ID:</i>		S-052212-NE-721BH15-004	S-052012-NE-721BH16-002	S-052012-NE-721BH16-003	S-052012-NE-721BH16-004	S-100112-JN-BH17-002	S-100112-JN-BH17-003	S-100112-JN-BH17-004	
<i>Sample Date:</i>		5/22/2012	5/20/2012	5/20/2012	5/20/2012	10/1/2012	10/1/2012	10/1/2012	
<i>Sample Depth:</i>		23 to 24 ft BGS	6.25 to 7.25 ft BGS	17.5 to 18.5 ft BGS	23 to 24 ft BGS	9.5 to 9.5 ft BGS	14 to 14 ft BGS	19 to 19 ft BGS	
<i>elev_MLLW</i>		-5.25 to -6.25	11.49 to 10.49	0.24 to -0.76	-5.26 to -6.26	7.56 to 7.56	3.06 to 3.06	-1.94 to -1.94	
<i>elev_NGVD</i>		-11.6 to -12.6	5.2 to 4.2	-6.1 to -7.1	-11.6 to -12.6	1.2 to 1.2	-3.3 to -3.3	-8.3 to -8.3	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.9 U	170 U	4.8 U	5.2 U	5.5 U	5.8 U	62 U
1,1,2-Trichloroethane	µg/kg	15.2	5.9 U	170 U	4.8 U	5.2 U	5.5 U	5.8 U	62 U
1,1-Dichloroethene	µg/kg	1.13	5.9 U	170 U	4.8 U	5.2 U	5.5 U	5.8 U	62 U
Carbon tetrachloride	µg/kg	1.93	5.9 U	170 U	4.8 U	5.2 U	5.5 U	5.8 U	62 U
Chloroform (Trichloromethane)	µg/kg	160	5.9 U	170 U	4.8 U	5.2 U	5.5 U	5.8 U	62 U
cis-1,2-Dichloroethene	µg/kg	NV	5.9 U	170 U	4.8 U	5.2 U	5.5 U	5.8 U	62 U
Methylene chloride	µg/kg	475	12 U	670 U	9.5 U	11 U	25 U	21 U	19 J
Tetrachloroethene	µg/kg	4.88	1.7 J	170 U	4.8 U	5.2 U	0.85 J	0.90 J	62 U
trans-1,2-Dichloroethene	µg/kg	3247	5.9 U	170 U	4.8 U	5.2 U	5.5 U	5.8 U	62 U
Trichloroethene	µg/kg	30.8	5.9 U	170 U	4.8 U	5.2 U	5.5 U	5.8 U	62 U
Vinyl chloride	µg/kg	0.73	2.5 J	170 U	4.8 U	5.2 U	5.5 U	5.8 U	62 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	630	980	4150	840	940	800	4490
Chromium	µg/kg	714	7550	6700	8060	7550	6670	5620	8320
Copper	µg/kg	53.5	9230	7890	14000	10100	8820	7930	13200
Lead	µg/kg	81002	1190	2010	2020	1160	1130 J	863 J	1790 J
Mercury	µg/kg	1.31	6 J	4 J	21	6 J	4 J	5 J	17 J
Nickel	µg/kg	535	7170	6640	7960	7390	6670	5570	8220
Thallium	µg/kg	34	24	23 J	128	23	40	27	131
Zinc	µg/kg	5045	15100	12100	16700	15000	12100	11600	17000
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	9.9 U	20 U	9.9 U	6.3 U	6.7 U	6.1 U
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>721-BH-17</i>	<i>721-BH-17</i>	<i>721-BH-18</i>	<i>721-BH-18</i>	<i>721-BH-18</i>	<i>721-GP5</i>	<i>721-GP5</i>	<i>721-GP5</i>	<i>721-GP5</i>	
<i>Sample ID:</i>		<i>S-100112-JN-BH17-005</i>	<i>S-100112-JN-BH17-006</i>	<i>S-061912-SP-721BH18-002</i>	<i>S-061912-SP-721BH18-003</i>	<i>S-061912-SP-721BH18-004</i>	<i>04-9764-GT75B</i>	<i>S-721-GP5-010</i>	<i>S-721-GP5-018</i>	<i>04-9765-GT75C,D</i>	
<i>Sample Date:</i>		<i>10/1/2012</i>	<i>10/1/2012</i>	<i>6/19/2012</i>	<i>6/19/2012</i>	<i>6/19/2012</i>	<i>6/23/2004</i>	<i>6/23/2004</i>	<i>6/23/2004</i>	<i>6/23/2004</i>	
<i>Sample Depth:</i>		<i>24.8 to 24.8 ft BGS</i>	<i>30 to 30 ft BGS</i>	<i>7.5 to 7.5 ft BGS</i>	<i>15 to 15 ft BGS</i>	<i>22.5 to 22.5 ft BGS</i>	<i>10 ft BGS</i>	<i>10 ft bgs</i>	<i>18 ft bgs</i>	<i>18.5 ft BGS</i>	
<i>elev_MLLW</i>		<i>-7.74 to -7.74</i>	<i>-12.94 to -12.94</i>	<i>9.95 to 9.95</i>	<i>2.45 to 2.45</i>	<i>-5.05 to -5.05</i>	<i>7.92</i>	<i>7.92</i>	<i>-0.08</i>	<i>-0.58</i>	
<i>elev_NGVD</i>		<i>-14.1 to -14.1</i>	<i>-19.3 to -19.3</i>	<i>3.6 to 3.6</i>	<i>-3.9 to -3.9</i>	<i>-11.4 to -11.4</i>	<i>1.6</i>	<i>1.6</i>	<i>-6.4</i>	<i>-6.9</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>									
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	4.6 U	130 U	5.9 U	5.0 U	5.9 U	1.0 U	0.91 U	0.91 U	1.0 U
1,1,2-Trichloroethane	µg/kg	15.2	4.6 U	130 U	5.9 U	5.0 U	5.9 U	1.0 U	0.60 U	0.60 U	1.0 U
1,1-Dichloroethene	µg/kg	1.13	4.6 U	130 U	5.9 U	5.0 U	5.9 U	1.0 U	0.99 U	0.99 U	1.1
Carbon tetrachloride	µg/kg	1.93	4.6 U	130 U	5.9 U	5.0 U	5.9 U	1.0 U	1.00 U	1.00 U	1.0 U
Chloroform (Trichloromethane)	µg/kg	160	4.6 U	130 U	5.9 U	5.0 U	5.9 U	1.0 U	1.79 U	1.78 U	1.0 U
cis-1,2-Dichloroethene	µg/kg	NV	4.6 U	98 J	5.9 U	5.0 U	5.9 U	1.5	0.88 U	17	5.8
Methylene chloride	µg/kg	475	9.2 U	34 J	2.3 J	1.8 J	2.0 J	2.0 U	16	10.0 J	2.0 U
Tetrachloroethene	µg/kg	4.88	0.51 J	130 U	0.89 J	1.1 J	1.0 J	1.0 U	0.68 U	0.67 U	1.0 U
trans-1,2-Dichloroethene	µg/kg	3247	4.6 U	130 U	5.9 U	5.0 U	5.9 U	1.0 U	1.69 U	1.68 U	1.0 U
Trichloroethene	µg/kg	30.8	4.6 U	130 U	5.9 U	5.0 U	5.9 U	1.0 U	1.31 U	1.31 U	1.0 U
Vinyl chloride	µg/kg	0.73	4.6 U	27 J	5.9 U	5.0 U	5.9 U	1.0 U	2.10 U	2.09 U	1.0 U
<i>Semi-volatile Organic Compounds</i>											
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	19 U	-	-	19 U
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	5.0 U / 19 U	-	-	4.9 U / 19 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	97 U	-	-	96 U
<i>Metals~Total</i>											
Arsenic	µg/kg	146	1020	3730	870	4080	830	-	-	-	-
Chromium	µg/kg	714	6590	13200	6940	8360	6420	-	-	-	-
Copper	µg/kg	53.5	9930	25500	7850	13600	10200	-	-	-	-
Lead	µg/kg	81002	1190 J	1730 J	1030	1900	1350	-	-	-	-
Mercury	µg/kg	1.31	5 J	13 J	7 J	20 J	7 J	-	-	-	-
Nickel	µg/kg	535	6500	11100	7130	8450	6840	-	-	-	-
Thallium	µg/kg	34	40	50	27	112	29	-	-	-	-
Zinc	µg/kg	5045	14000	19500	12600 U	18500	15900 U	-	-	-	-
<i>PCBs</i>											
Total PCBs	µg/kg	0.053	5.8 U	8.6 U	-	-	-	-	-	-	-
<i>Pesticides</i>											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	721-GP5	721-GP5	A	A	A	A	A	A	A		
Sample ID:	04-9767-GT75E	S-721-GP5-030	S-071713-BW-SB-A-002	S-071713-BW-SB-A-003	S-071713-BW-SB-A-004	S-071713-BW-SB-A-005	S-071713-BW-SB-A-006	S-071713-BW-SB-A-007	S-071713-BW-SB-A-008		
Sample Date:	6/23/2004	6/23/2004	7/17/2013	7/17/2013	7/17/2013	7/17/2013	7/17/2013	7/17/2013	7/17/2013		
Sample Depth:	30 ft BGS	30 ft bgs	21.5 ft BGS	26.5 ft BGS	37 ft BGS	45.5 ft BGS	60 ft BGS	65 ft BGS	75.5 ft BGS		
elev_MLLW	-12.08	-12.08	-7.3	-12.3	-22.8	-31.3	-45.8	-50.8	-61.3		
elev_NGVD	-18.4	-18.4	-13.6	-18.6	-29.1	-37.6	-52.1	-57.1	-67.6		
Parameters	Units	Cs									
Volatile Organic Compounds											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.1 U	0.96 U	61 U	5.0 U	5.5 U	5.9 U	58 U	160 U	66 U
1,1,2-Trichloroethane	µg/kg	15.2	1.1 U	0.63 U	61 U	5.0 U	5.5 U	5.9 U	180	180	66 U
1,1-Dichloroethene	µg/kg	1.13	1.1 U	1.04 U	61 U	5.0 U	5.5 U	5.9 U	110	250	66 U
Carbon tetrachloride	µg/kg	1.93	1.1 U	1.05 U	61 U	5.0 U	5.5 U	5.9 U	58 U	160 U	66 U
Chloroform (Trichloromethane)	µg/kg	160	1.1 U	1.88 U	61 U	5.0 U	5.5 U	5.9 U	540	2100	300
cis-1,2-Dichloroethene	µg/kg	NV	1.1 U	0.92 U	12000	820	5.5 U	5.9 U	42000	88000	23000
Methylene chloride	µg/kg	475	2.2 U	13	250 U	9.9 U	11 U	12 U	230 U	630 U	270 U
Tetrachloroethene	µg/kg	4.88	1.1 U	0.71 U	13000	2100	5.5 U	5.9 U	3100	1200	9900
trans-1,2-Dichloroethene	µg/kg	3247	1.1 U	1.78 U	87	6.0	5.5 U	5.9 U	260	650	120
Trichloroethene	µg/kg	30.8	1.1 U	1.38 U	3500	240	5.5 U	5.9 U	45000	92000	17000
Vinyl chloride	µg/kg	0.73	1.1 U	2.21 U	600	260	5.5 U	5.9 U	2900	6800	4700
Semi-volatile Organic Compounds											
Hexachlorobenzene	µg/kg	0.062	20 U	-	0.18 U	0.13 U	-	-	0.19 U	0.17 U	0.18 U
Hexachlorobutadiene	µg/kg	0.702	5.4 U / 20 U	-	0.18 U	0.13 U	-	-	0.19 U	0.17 U	6.7 J
Pentachlorophenol	µg/kg	6.94	99 U	-	-	-	-	-	-	-	-
Metals~Total											
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-
PCBs											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		A		A		A		A		A		A			
<i>Sample ID:</i>		S-071713-BW-SB-A-009		S-071713-BW-SB-A-010		S-071813-BW-SB-A-011		S-071813-BW-SB-A-012		S-071813-BW-SB-A-012/013 Composite		S-071813-BW-SB-A-013		S-071813-BW-SB-A-014	
<i>Sample Date:</i>		7/17/2013		7/17/2013		7/18/2013		7/18/2013		7/18/2013		7/18/2013		7/18/2013	
<i>Sample Depth:</i>		89 ft BGS		95 ft BGS		102.5 ft BGS		119.5 ft BGS		119.5 to 125.5 ft BGS		125.5 ft BGS		135 ft BGS	
<i>elev_MLLW</i>		-74.8		-80.8		-88.3		-105.3		-105.3 to -111.3		-111.3		-120.8	
<i>elev_NGVD</i>		-81.1		-87.1		-94.6		-111.6		-111.6 to -117.6		-117.6		-127.1	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>													
<i>Volatile Organic Compounds</i>															
1,1,2,2-Tetrachloroethane	µg/kg	4.02	4.7 U	57 U	59 U	300 U	-	-	-	4.4 UJ	5.0 U	-	-	-	-
1,1,2-Trichloroethane	µg/kg	15.2	4.7 U	57 U	59 U	300 U	-	-	-	4.4 UJ	5.0 U	-	-	-	-
1,1-Dichloroethene	µg/kg	1.13	4.7 U	57 U	25 J	130 J	-	-	-	4.0 J	7.8	-	-	-	-
Carbon tetrachloride	µg/kg	1.93	4.7 U	57 U	59 U	300 U	-	-	-	4.4 UJ	5.0 U	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	160	7.4	57 U	39 J	300 U	-	-	-	4.4 UJ	0.38 J	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	NV	160	1200	3900	2300	-	-	-	38 J	2000	-	-	-	-
Methylene chloride	µg/kg	475	9.4 U	230 U	16 J	130 J	-	-	-	8.8 UJ	10 U	-	-	-	-
Tetrachloroethene	µg/kg	4.88	15	670	680	190000	-	-	-	230 J	270	-	-	-	-
trans-1,2-Dichloroethene	µg/kg	3247	11	57 U	570	83 J	-	-	-	1.8 J	13	-	-	-	-
Trichloroethene	µg/kg	30.8	35	820	130	150000	-	-	-	850	1300	-	-	-	-
Vinyl chloride	µg/kg	0.73	5500	3700	15000	77 J	-	-	-	0.80 J	16	-	-	-	-
<i>Semi-volatile Organic Compounds</i>															
Hexachlorobenzene	µg/kg	0.062	0.21	-	-	-	-	-	0.11 U	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	0.18 U	-	-	-	-	-	1.2	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Metals~Total</i>															
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>PCBs</i>															
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>															
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:			A	A	A	A	A	A	A
Sample ID:			S-071813-BW-SB-A-014/015 Composite	S-071813-BW-SB-A-015	S-071913-BW-SB-A-016	S-071913-BW-SB-A-016/017 Composite	S-071913-BW-SB-A-017	S-071913-BW-SB-A-018	S-071913-BW-SB-A-019
Sample Date:			7/18/2013	7/18/2013	7/19/2013	7/19/2013	7/19/2013	7/19/2013	7/19/2013
Sample Depth:			135 to 140.5 ft BGS	140.5 ft BGS	150.5 ft BGS	150.5 to 150.5 ft BGS	150.5 ft BGS	160 ft BGS	164.5 ft BGS
elev_MLLW			-120.8 to -126.3	-126.3	-136.3	-136.3 to -136.3	-136.3	-145.8	-150.3
elev_NGVD			-127.1 to -132.6	-132.6	-142.6	-142.6 to -142.6	-142.6	-152.1	-156.6
Parameters	Units	Cs	(Duplicate)						
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	5.5 UJ	4.8 U	-	5.4 U	6.0 U	4.9 U
1,1,2-Trichloroethane	µg/kg	15.2	-	5.5 UJ	4.8 U	-	5.4 U	6.0 U	4.9 U
1,1-Dichloroethene	µg/kg	1.13	-	0.80 J	1.2 J	-	1.2 J	6.0 U	3.0 J
Carbon tetrachloride	µg/kg	1.93	-	5.5 UJ	4.8 U	-	5.4 U	6.0 U	4.9 U
Chloroform (Trichloromethane)	µg/kg	160	-	1.8 J	4.4 J	-	5.1 J	6.0 U	6.7
cis-1,2-Dichloroethene	µg/kg	NV	-	100 J	190	-	210	6.0 U	360
Methylene chloride	µg/kg	475	-	11 UJ	9.6 U	-	11 U	12 U	9.7 U
Tetrachloroethene	µg/kg	4.88	-	100 J	490	-	460	1.1 J	270
trans-1,2-Dichloroethene	µg/kg	3247	-	2.9 J	3.9 J	-	4.1 J	6.0 U	97
Trichloroethene	µg/kg	30.8	-	110 J	280	-	310	0.87 J	350
Vinyl chloride	µg/kg	0.73	-	17 J	110	-	120	6.0 U	4800
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	8.4 J	-	-	0.48	-	-	0.19 U
Hexachlorobutadiene	µg/kg	0.702	0.20 U	-	-	1.7	-	-	12
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		A	A	A	A	BH-1-96	BH-3-96	BH-3-96	BH-5-96	
<i>Sample ID:</i>		S-071913-BW-SB-A-020	S-071913-BW-SB-A-021	S-071913-BW-SB-A-022	S-071913-BW-SB-A-023	Upland~BH-1-96~0-2, 4-6, 12-14	Upland~BH-3-96~4-10	Upland~BH-3-96~4-10~FD	Upland~BH-5-96~0-2, 4-8	
<i>Sample Date:</i>		7/19/2013	7/19/2013	7/19/2013	7/19/2013	3/28/1996	3/27/1996	3/27/1996	3/26/1996	
<i>Sample Depth:</i>		170.5 ft BGS	189.5 ft BGS	195 ft BGS	200 ft BGS	0 to 14 ft bgs	4 to 10 ft bgs	4 to 10 ft bgs	0 to 8 ft bgs	
<i>elev_MLLW</i>		-156.3	-175.3	-180.8	-185.8	17.62 to 3.62	13.72 to 7.72	13.72 to 7.72	17.52 to 9.52	
<i>elev_NGVD</i>		-162.6	-181.6	-187.1	-192.1	11.3 to -2.7	7.4 to 1.4	7.4 to 1.4	11.2 to 3.2	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.7 U	4.5 U	5.5 U	4.4 U	-	-	-	
1,1,2-Trichloroethane	µg/kg	15.2	5.7 U	4.5 U	5.5 U	4.4 U	-	-	-	
1,1-Dichloroethene	µg/kg	1.13	5.7 U	4.5 U	5.5 U	4.4 U	-	-	-	
Carbon tetrachloride	µg/kg	1.93	5.7 U	4.5 U	5.5 U	4.4 U	-	-	-	
Chloroform (Trichloromethane)	µg/kg	160	3.9 J	4.5 U	0.38 J	0.27 J	-	-	-	
cis-1,2-Dichloroethene	µg/kg	NV	120	4.5 U	7.5	12 J	-	-	-	
Methylene chloride	µg/kg	475	12 U	8.9 U	11 U	8.7 U	-	-	-	
Tetrachloroethene	µg/kg	4.88	110	4.5 U	2.7 J	20 J	44	2.4	1.0 U	
trans-1,2-Dichloroethene	µg/kg	3247	19	4.5 U	0.30 J	0.60 J	-	-	-	
Trichloroethene	µg/kg	30.8	130	4.5 U	4.8 J	17 J	58	2.4	1.4	
Vinyl chloride	µg/kg	0.73	530	4.5 U	45	36 J	-	-	-	
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	1.6	-	0.18 U	0.11 U	1.8 U	34	22	140
Hexachlorobutadiene	µg/kg	0.702	43	-	0.49	0.11 U	1.1 U	69	42	90
Pentachlorophenol	µg/kg	6.94	-	-	-	-	94 U	98 U	98 U	95 U
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	6000 U	6000 U	6000 U	17000
Chromium	µg/kg	714	-	-	-	-	16000	22000	19000	18000
Copper	µg/kg	53.5	-	-	-	-	86000	34000	35000	41000
Lead	µg/kg	81002	-	-	-	-	40000	81000	90000	5500000
Mercury	µg/kg	1.31	-	-	-	-	60 U	80	80	180
Nickel	µg/kg	535	-	-	-	-	13000	160000	120000	46000
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	38000	52000	48000	220000
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	50 U	50 U	50 U	50 U
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	1.9 U	2.0 U	2.0 U	19 U
4,4'-DDE	µg/kg	0.058	-	-	-	-	1.9 U	2.0 U	2.0 U	19 U
4,4'-DDT	µg/kg	0.455	-	-	-	-	1.9 U	2.0 U	2.0 U	19 U

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	BH-6-96	BH-7-96	BH-8-96	BH-9-96	BH-10-96	BH-11-96	BH-12-96	BH-15-96		
Sample ID:	Upland~BH-6-96~6-12	Upland~BH-7-96~6-12	Upland~BH-8-96~4-10	Upland~BH-9-96~2-8	Upland~BH-10-96~4-10	Upland~BH-11-96~2-3, 8-10	Upland~BH-12-96~2-10	Upland~BH-15-96~0-4, 6-7.5		
Sample Date:	3/25/1996	3/25/1996	3/28/1996	3/29/1996	3/26/1996	3/29/1996	4/1/1996	4/1/1996		
Sample Depth:	6 to 12 ft bgs	6 to 12 ft bgs	4 to 10 ft bgs	2 to 8 ft bgs	4 to 10 ft bgs	2 to 10 ft bgs	2 to 10 ft bgs	0 to 7.5 ft bgs		
elev_MLLW	11.12 to 5.12	11.12 to 5.12	13.52 to 7.52	16.32 to 10.32	13.42 to 7.42	14.72 to 6.72	14.72 to 6.72	16.92 to 9.42		
elev_NGVD	4.8 to -1.2	4.8 to -1.2	7.2 to 1.2	10 to 4	7.1 to 1.1	8.4 to 0.4	8.4 to 0.4	10.6 to 3.1		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-		
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-		
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-		
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-		
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-		
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-		
Methylene chloride	µg/kg	475	-	-	-	-	-	-		
Tetrachloroethene	µg/kg	4.88	1.0 U	14	1700	210	140	5.5	1.4	56
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	1.0 U	10	290	11000	0.9 U	3.8	4.0	1.8
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	280	220 J	78 U	19 U	4.4 U	540	62	4.5 U
Hexachlorobutadiene	µg/kg	0.702	160	350 J	1200	310	110	1100	200	6.8
Pentachlorophenol	µg/kg	6.94	95 U	180 J	390 U	97 U	380 U	95 U	99 U	91 U
Metals~Total										
Arsenic	µg/kg	146	16000	60000	60000	70000	6000 U	27000	30000 U	12000
Chromium	µg/kg	714	29000	160000	260000	220000	44000	37000	42000	120000
Copper	µg/kg	53.5	84000	480000	1100000	1300000	47000	78000	210000	110000
Lead	µg/kg	81002	980000	5100000	2000000	1200000	34000	110000	230000	68000
Mercury	µg/kg	1.31	440	360	1200	440	50 U	220	2400	90
Nickel	µg/kg	535	48000	190000	250000	230000	21000	38000	69000	35000
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	160000	660000	3400000	2300000	84000	210000	240000	180000
PCBs										
Total PCBs	µg/kg	0.053	89 J	58 J	4460	15600 J	59 J	1370 J	12200 J	50 U
Pesticides										
4,4'-DDD	µg/kg	0.043	25	91	100 U	510 U	1.9 U	210	9.4	1.8 U
4,4'-DDE	µg/kg	0.058	27	40	100 U	510 U	1.9 U	38 U	52	1.8 U
4,4'-DDT	µg/kg	0.455	19 U	19 U	100 U	510 U	1.9 U	38 U	11	1.8 U

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>CH-1</i>	<i>CH-1</i>	<i>CH-2</i>	<i>CH-3</i>	<i>CH-3</i>	<i>CH-4</i>	<i>CH-4</i>	<i>CH-4</i>	<i>CH-5</i>	
<i>Sample ID:</i>		<i>S-060106-LH-CH1-002</i>	<i>S-060106-LH-CH1-003</i>	<i>S-060106-DR-CH2-002</i>	<i>S-053006-LH-CH3-002</i>	<i>S-053006-LH-CH3-003</i>	<i>S-053106-LH-CH4-002</i>	<i>S-053106-LH-CH4-003</i>	<i>S-060106-LH-CH4-004</i>	<i>S-060806-DR-CH5-002</i>	
<i>Sample Date:</i>		<i>6/1/2006</i>	<i>6/1/2006</i>	<i>6/1/2006</i>	<i>5/30/2006</i>	<i>5/30/2006</i>	<i>5/31/2006</i>	<i>5/31/2006</i>	<i>6/1/2006</i>	<i>6/8/2006</i>	
<i>Sample Depth:</i>		<i>2 to 6 ft bgs</i>	<i>6 to 10 ft bgs</i>	<i>2 to 6 ft bgs</i>	<i>2 to 6 ft bgs</i>	<i>6 to 10 ft bgs</i>	<i>2 to 6 ft bgs</i>	<i>6 to 10 ft bgs</i>	<i>13 to 16 ft bgs</i>	<i>2 to 6 ft bgs</i>	
<i>elev_MLLW</i>		<i>15.92 to 11.92</i>	<i>11.92 to 7.92</i>	<i>15.92 to 11.92</i>	<i>15.92 to 11.92</i>	<i>11.92 to 7.92</i>	<i>15.92 to 11.92</i>	<i>11.92 to 7.92</i>	<i>4.92 to 1.92</i>	<i>15.92 to 11.92</i>	
<i>elev_NGVD</i>		<i>9.6 to 5.6</i>	<i>5.6 to 1.6</i>	<i>9.6 to 5.6</i>	<i>9.6 to 5.6</i>	<i>5.6 to 1.6</i>	<i>9.6 to 5.6</i>	<i>5.6 to 1.6</i>	<i>-1.4 to -4.4</i>	<i>9.6 to 5.6</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>									
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.7 U	1.6 U	1.3 U	1.3 U	1.7 U	1.4 U	1.7 U	1.5 U	7.6 UJ
1,1,2-Trichloroethane	µg/kg	15.2	0.65 U	0.62 U	0.52 U	0.50 U	0.67 U	0.56 U	0.67 U	0.58 U	2.9 UJ
1,1-Dichloroethene	µg/kg	1.13	1.1 U	1 U	0.86 U	0.83 U	1.1 U	0.92 U	1.1 U	0.96 U	4.8 UJ
Carbon tetrachloride	µg/kg	1.93	1.1 U	1 U	0.87 U	0.84 U	1.1 U	0.93 U	1.1 U	0.97 U	4.9 UJ
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	1.9 U	1.6 J	1.5 U	2.2 J	1.7 U	2.0 U	1.7 U	8.8 UJ
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	1.4 U	1.2 U	1.1 U	1.5 U	1.2 U	1.5 U	1.3 U	6.6 UJ
Methylene chloride	µg/kg	475	6.5 J	5.9 U	5.0 U	5.0	11	6.4	7.7	5.6 U	28 UJ
Tetrachloroethene	µg/kg	4.88	0.73 U	1.1 J	0.59 U	0.60 J	1.7 J	0.63 U	1.5 J	0.66 U	3.3 UJ
trans-1,2-Dichloroethene	µg/kg	3247	1.8 U	1.8 U	1.5 U	1.4 U	1.9 U	1.6 U	1.9 U	1.6 U	8.3 UJ
Trichloroethene	µg/kg	30.8	0.96 U	0.92 U	0.77 U	0.74 U	0.99 U	0.82 U	0.99 U	0.86 U	4.4 UJ
Vinyl chloride	µg/kg	0.73	2.3 U	2.2 U	1.8 U	1.8 U	2.4 U	2.0 U	2.3 U	2.0 U	10 UJ
<i>Semi-volatile Organic Compounds</i>											
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-
<i>Metals~Total</i>											
Arsenic	µg/kg	146	350 J	650 J	1400	860	640 J	1900	290 J	650	150 J
Chromium	µg/kg	714	10400	7700	12100 J	6800	9700	15900	10700	13900	30400 J
Copper	µg/kg	53.5	14300	11900	10600	7700	17600	71100	12900	16800	8700 J
Lead	µg/kg	81002	60900	4700	11000 J	1400	22400	216000	7200	7800	5000
Mercury	µg/kg	1.31	23 U	25 J	38 U	19 U	71 U	140 U	37 U	30 J	160 U
Nickel	µg/kg	535	9000	5400	9200 J	4800	8300	12600	8500	9300	14700 J
Thallium	µg/kg	34	150 U	100 U	29 U	88 U	180 U	83 U	69 U	210	39 J
Zinc	µg/kg	5045	44700	19500	22600	13300	30500	122000	29000	48100	34600 J
<i>PCBs</i>											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>CH-5</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	
<i>Sample ID:</i>		<i>S-060806-DR-CH5-003</i>	<i>S-092205-NR-EA-1-002</i>	<i>S-092205-NR-EA-1-003</i>	<i>S-092205-NR-EA-1-004</i>	<i>S-092305-NR-EA-1-005</i>	<i>S-092305-NR-EA-1-006</i>	<i>S-092305-NR-EA-1-007</i>	<i>S-092305-NR-EA-1-008</i>	
<i>Sample Date:</i>		<i>6/8/2006</i>	<i>9/22/2005</i>	<i>9/22/2005</i>	<i>9/22/2005</i>	<i>9/23/2005</i>	<i>9/23/2005</i>	<i>9/23/2005</i>	<i>9/23/2005</i>	
<i>Sample Depth:</i>		<i>6 to 8 ft bgs</i>	<i>24.5 to 26.5 ft bgs</i>	<i>31.5 to 33.5 ft bgs</i>	<i>36.5 to 38.5 ft bgs</i>	<i>41.5 to 43.5 ft bgs</i>	<i>46.5 to 48.5 ft bgs</i>	<i>51.5 to 53.5 ft bgs</i>	<i>56.5 to 58.5 ft bgs</i>	
<i>elev_MLLW</i>		<i>11.92 to 9.92</i>	<i>-6.5 to -8.5</i>	<i>-13.5 to -15.5</i>	<i>-18.5 to -20.5</i>	<i>-23.5 to -25.5</i>	<i>-28.5 to -30.5</i>	<i>-33.5 to -35.5</i>	<i>-38.5 to -40.5</i>	
<i>elev_NGVD</i>		<i>5.6 to 3.6</i>	<i>-12.8 to -14.8</i>	<i>-19.8 to -21.8</i>	<i>-24.8 to -26.8</i>	<i>-29.8 to -31.8</i>	<i>-34.8 to -36.8</i>	<i>-39.8 to -41.8</i>	<i>-44.8 to -46.8</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.5 U	0.438 J	0.115 J	0.423 J	0.469 J	0.0686 U	0.0634 U	0.0604 UJ
1,1,2-Trichloroethane	µg/kg	15.2	0.60 U	0.0894 U	0.0755 U	0.0983 U	0.103 U	0.0967 U	0.0894 U	0.0851 U
1,1-Dichloroethene	µg/kg	1.13	0.98 U	0.556 J	2.29	0.561 J	0.507 U	4.92	16.9	8.16
Carbon tetrachloride	µg/kg	1.93	0.99 U	0.0948 U	0.0801 U	0.104 U	0.11 U	0.103 U	0.0949 U	0.0903 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	0.0599 U	0.152 J	0.555 J	0.0692 U	0.0751 J	0.0599 U	0.057 U
cis-1,2-Dichloroethene	µg/kg	NV	1.3 U	15	57.9	443 J	108	801 J	927 J	823 J
Methylene chloride	µg/kg	475	5.7 U	0.185 UJ	0.156 UJ	5.68 J	1.77 J	0.2 UJ	0.185 UJ	0.176 UJ
Tetrachloroethene	µg/kg	4.88	0.67 U	1100 J	772 J	21.4	82.3	1930 J	580 J	5.65
trans-1,2-Dichloroethene	µg/kg	3247	1.7 U	0.932 J	2.02	1.4	0.559 J	3.26	2.75	1.96
Trichloroethene	µg/kg	30.8	0.88 U	910 J	0.0305 U	48.5	126	1590 J	1310 J	158
Vinyl chloride	µg/kg	0.73	2.1 U	1.78	39.8	17.7	3.4	309 J	153	495 J
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	0.462 U	0.461 U	0.445 U	0.467 U	2.06	0.454 U	0.441 U
Hexachlorobutadiene	µg/kg	0.702	-	1.68 U	1.68 U	1.62 U	1.7 U	66.8	1.65 U	1.6 U
Pentachlorophenol	µg/kg	6.94	-	R	R	R	R	R	R	R
<i>Metals~Total</i>										
Arsenic	µg/kg	146		210 J	2120 J	1140 J	600 J	957	1190	1180
Chromium	µg/kg	714		50200 J	10800	12100	10100	12800	13500	17000
Copper	µg/kg	53.5		9900 J	14400	9790	8570	11000	17000	19700
Lead	µg/kg	81002		8000	8910	1730	1490	1930	1770	2000
Mercury	µg/kg	1.31		140 U	5.36 U	4.65 U	4.99 U	4.71 U	5.13 U	4.34 U
Nickel	µg/kg	535		16900 J	8770	6920	6120	8000	8960	10000
Thallium	µg/kg	34		60 J	77.9 U	45.4 U	26.6 U	19.9 U	50.7 J	57.3 J
Zinc	µg/kg	5045		37300 J	16700 J	13700 J	13100 J	19100 J	18900 J	21400 J
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	3.68 U	3.38 U	3.65 U	3.76 U	3.48 U	3.5 U	3.64 U
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	
<i>Sample ID:</i>		<i>S-092605-NR-EA-1-009</i>	<i>S-092605-NR-EA-1-010</i>	<i>S-092705-NR-EA-1-011</i>	<i>S-092705-NR-EA-1-012</i>	<i>S-092705-NR-EA-1-013</i>	<i>S-092705-NR-EA-1-014</i>	<i>S-092805-NR-EA-1-015</i>	<i>S-092805-NR-EA-1-016</i>	
<i>Sample Date:</i>		<i>9/26/2005</i>	<i>9/26/2005</i>	<i>9/27/2005</i>	<i>9/27/2005</i>	<i>9/27/2005</i>	<i>9/27/2005</i>	<i>9/28/2005</i>	<i>9/28/2005</i>	
<i>Sample Depth:</i>		<i>61.5 to 63.5 ft bgs</i>	<i>66.5 to 68.5 ft bgs</i>	<i>71.5 to 73.5 ft bgs</i>	<i>76.5 to 78.5 ft bgs</i>	<i>81.5 to 83.5 ft bgs</i>	<i>86.5 to 88.5 ft bgs</i>	<i>91.5 to 93.5 ft bgs</i>	<i>96.5 to 98.5 ft bgs</i>	
<i>elev_MLLW</i>		<i>-43.5 to -45.5</i>	<i>-48.5 to -50.5</i>	<i>-53.5 to -55.5</i>	<i>-58.5 to -60.5</i>	<i>-63.5 to -65.5</i>	<i>-68.5 to -70.5</i>	<i>-73.5 to -75.5</i>	<i>-78.5 to -80.5</i>	
<i>elev_NGVD</i>		<i>-49.8 to -51.8</i>	<i>-54.8 to -56.8</i>	<i>-59.8 to -61.8</i>	<i>-64.8 to -66.8</i>	<i>-69.8 to -71.8</i>	<i>-74.8 to -76.8</i>	<i>-79.8 to -81.8</i>	<i>-84.8 to -86.8</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	0.0552 U	0.058 U	0.0604 UJ	0.0585 UJ	0.0624 U	0.0656 U	0.0611 U	0.0589 U
1,1,2-Trichloroethane	µg/kg	15.2	0.0778 U	0.0818 U	0.0851 U	0.0824 U	0.088 U	0.0925 U	0.0861 U	0.083 U
1,1-Dichloroethene	µg/kg	1.13	5.43	1.38	8.73	0.877 J	1.45	0.48 J	0.53 J	14.9
Carbon tetrachloride	µg/kg	1.93	0.0825 U	0.0868 U	0.0903 U	0.0874 U	0.0933 U	0.0981 U	0.0913 U	0.0881 U
Chloroform (Trichloromethane)	µg/kg	160	0.0521 U	1.27	0.0571 U	0.238 J	0.802 J	0.326 J	0.205 J	0.0556 U
cis-1,2-Dichloroethene	µg/kg	NV	588 J	199	1390 J	210 J	329 J	132	76.5	910 J
Methylene chloride	µg/kg	475	0.161 UJ	0.169 UJ	0.176 UJ	0.17 UJ	0.182 UJ	0.191 UJ	0.178 UJ	0.172 UJ
Tetrachloroethene	µg/kg	4.88	815 J	92.3	6.32	19.6	22.4	14.4	10.6	1120 J
trans-1,2-Dichloroethene	µg/kg	3247	1.73	1.31	28.8	2.2	5.32	5.12	1.66	7.43
Trichloroethene	µg/kg	30.8	997 J	309 J	31.3	45	67.1	33.4	25.7	1410 J
Vinyl chloride	µg/kg	0.73	203 J	252 J	729 J	393 J	571 J	663 J	190	1330 J
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	0.407 U	0.465 U	0.466 U	0.443 U	0.423 U	0.463 U	0.453 U	0.451 U
Hexachlorobutadiene	µg/kg	0.702	1.48 U	1.69 U	1.69 U	1.61 U	1.54 U	1.68 U	1.65 U	1.64 U
Pentachlorophenol	µg/kg	6.94	0.702 U	0.801 U	0.803 U	0.764 U	0.73 U	0.798 U	0.781 U	0.777 U
<i>Metals~Total</i>										
Arsenic	µg/kg	146	1370	957	518	421	736	620	438	541
Chromium	µg/kg	714	16600	15500	13400	14800	15100	15000	12200	11600
Copper	µg/kg	53.5	17900	12700	13200	11100	15600	12600	11200	12500
Lead	µg/kg	81002	1900	1230	1230	1080	1490	1190	1090	1270
Mercury	µg/kg	1.31	8.23 U	4.08 U	5.28 U	4.64 U	4.43 U	4.51 U	4.92 U	4.92 U
Nickel	µg/kg	535	9910	8470	8040	7630	8950	8340	7490	7460
Thallium	µg/kg	34	71.7 U	36.6 U	37.2 U	25.6 U	38.8 U	28.2 U	23.9 U	42.6 U
Zinc	µg/kg	5045	20100	17000	16100 J	15200 J	17700 J	16100 J	14000 J	15700 J
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	3.65 U	3.67 U	14 U	13 U	14 U	13 U	13 U	13 U
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	
<i>Sample ID:</i>		<i>S-092805-NR-EA-1-017</i>	<i>S-092805-NR-EA-1-018</i>	<i>S-100305-NR-EA-1-019</i>	<i>S-100305-NR-EA-1-020</i>	<i>S-100405-NR-EA-1-021</i>	<i>S-100405-NR-EA-1-022</i>	<i>S-100405-NR-EA-1-023</i>	<i>S-100505-NR-EA-1-024</i>	
<i>Sample Date:</i>		<i>9/28/2005</i>	<i>9/28/2005</i>	<i>10/3/2005</i>	<i>10/3/2005</i>	<i>10/4/2005</i>	<i>10/4/2005</i>	<i>10/4/2005</i>	<i>10/5/2005</i>	
<i>Sample Depth:</i>		<i>101.5 to 103.5 ft bgs</i>	<i>106.5 to 108.5 ft bgs</i>	<i>111.5 to 113.5 ft bgs</i>	<i>116.5 to 118.5 ft bgs</i>	<i>121.5 to 123.5 ft bgs</i>	<i>121.5 to 123.5 ft bgs</i>	<i>126.5 to 128.5 ft bgs</i>	<i>131.5 to 133.5 ft bgs</i>	
<i>elev_MLLW</i>		<i>-83.5 to -85.5</i>	<i>-88.5 to -90.5</i>	<i>-93.5 to -95.5</i>	<i>-98.5 to -100.5</i>	<i>-103.5 to -105.5</i>	<i>-103.5 to -105.5</i>	<i>-108.5 to -110.5</i>	<i>-113.5 to -115.5</i>	
<i>elev_NGVD</i>		<i>-89.8 to -91.8</i>	<i>-94.8 to -96.8</i>	<i>-99.8 to -101.8</i>	<i>-104.8 to -106.8</i>	<i>-109.8 to -111.8</i>	<i>-109.8 to -111.8</i>	<i>-114.8 to -116.8</i>	<i>-119.8 to -121.8</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>	<i>(Duplicate)</i>							
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	0.0564 U	0.0685 U	R	2.24 J	0.587 J	0.462 J	1.25	0.0598 U
1,1,2-Trichloroethane	µg/kg	15.2	0.0795 U	0.0967 U	0.787 J	0.0824 U	0.0768 U	0.0776 U	0.0858 U	0.0844 U
1,1-Dichloroethene	µg/kg	1.13	3.45	0.475 U	5.24 J	2.72 J	2.23	2.24	0.422 U	0.414 U
Carbon tetrachloride	µg/kg	1.93	0.0843 U	0.103 U	0.075 U	0.0873 U	0.0815 U	0.0823 U	0.091 U	0.0895 U
Chloroform (Trichloromethane)	µg/kg	160	0.737 J	0.0648 U	0.02 U	0.0552 J	0.0515 U	0.052 U	0.0575 U	0.246 J
cis-1,2-Dichloroethene	µg/kg	NV	346 J	13.1	52.6	29.2 J	15.6	15.1	12.1	0.0956 U
Methylene chloride	µg/kg	475	0.164 UJ	0.2 UJ	0.045 U	0.17 UJ	0.883 J	0.16 U	2.07	0.174 U
Tetrachloroethene	µg/kg	4.88	232 J	59.8	1670 J	1420 J	1520 J	1380 J	1020 J	6.34
trans-1,2-Dichloroethene	µg/kg	3247	2.84	0.797 J	7.99 J	5.64 J	3.54	3.32	0.27 U	0.266 U
Trichloroethene	µg/kg	30.8	859 J	117	1460 J	1290 J	1280 J	1190 J	669 J	6.19
Vinyl chloride	µg/kg	0.73	687 J	8.47	38.2	29 J	13.9	14.1	0.201 U	0.198 U
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	0.417 U	1.01 J	5.31	12.1	11.8 J	3.33 J	3.33	0.471 U
Hexachlorobutadiene	µg/kg	0.702	1.52 U	2.12 J	32.8	44.7	13.3	15.3	16.3	1.72 U
Pentachlorophenol	µg/kg	6.94	0.718 U	0.727 U	1.62 J	0.947 J	0.772 U	0.726 U	0.775 U	R
<i>Metals~Total</i>										
Arsenic	µg/kg	146	545	444	724 J	854 J	893	2130	848	840
Chromium	µg/kg	714	12300	10500	14900	13700	10500 J	11100 J	11500 J	11500
Copper	µg/kg	53.5	13200	10900	12300	13800	13500	13500	11100	17500
Lead	µg/kg	81002	1540	1400	1480	2330	1830	1860	1770	1220 J
Mercury	µg/kg	1.31	4.62 U	5.44 U	4.64 U	6.8 J	4.25 U	4.85 U	5.23 J	18 U
Nickel	µg/kg	535	7600	6800	7840	8000	7320	7340	6780	7340
Thallium	µg/kg	34	48.5 U	38.1 U	38.6 J	98.3 J	54.2 U	87.4 U	44.3 U	36.7 J
Zinc	µg/kg	5045	15900 J	14800 J	18800	21300	16100	17000	17200	15300
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	13 U	13 U	3.63 U	244	65 U	260 U	65 U	13 U
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	EA-1	EA-1	EA-1	EA-1	EA-2	EA-2	EA-2	EA-2		
Sample ID:	S-100505-NR-EA-1-025	S-100705-DC-EA-1-025	S-100605-DC-EA-1-026	S-100605-DC-EA-1-027	S-101005-DC-EA-2-002	S-101105-DC-EA-2-003	S-101105-DC-EA-2-004	S-101105-DC-EA-2-005		
Sample Date:	10/5/2005	10/7/2005	10/6/2005	10/6/2005	10/10/2005	10/11/2005	10/11/2005	10/11/2005		
Sample Depth:	136.5 to 138.5 ft bgs	136.5 to 138.5 ft bgs	141.5 to 143.5 ft bgs	146.5 to 148.5 ft bgs	25 to 27 ft bgs	30 to 32 ft bgs	35 to 37 ft bgs	40 to 42 ft bgs		
elev_MLLW	-118.5 to -120.5	-118.5 to -120.5	-123.5 to -125.5	-128.5 to -130.5	-7 to -9	-12 to -14	-17 to -19	-22 to -24		
elev_NGVD	-124.8 to -126.8	-124.8 to -126.8	-129.8 to -131.8	-134.8 to -136.8	-13.3 to -15.3	-18.3 to -20.3	-23.3 to -25.3	-28.3 to -30.3		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	0.0673 U	0.0877 U	0.0583 U	0.0675 UJ	1.12	0.088 U	0.0895 UJ	0.0963 U
1,1,2-Trichloroethane	µg/kg	15.2	0.0949 U	0.0777 U	0.0822 U	0.0952 UJ	0.0831 U	0.078 U	0.0794 UJ	5.77
1,1-Dichloroethene	µg/kg	1.13	0.466 U	0.0967 U	0.404 U	0.468 UJ	0.103 U	0.0971 U	0.877 J	2.93
Carbon tetrachloride	µg/kg	1.93	0.101 U	0.081 U	0.0872 U	0.101 UJ	0.0866 U	0.0813 U	0.0827 U	0.089 U
Chloroform (Trichloromethane)	µg/kg	160	3.53	0.0513 U	0.0551 U	0.0638 UJ	1.35	0.0516 U	0.0524 U	0.0564 U
cis-1,2-Dichloroethene	µg/kg	NV	0.108 U	0.0566 U	0.0932 U	0.108 UJ	296 J	31.2	81.3	1910 J
Methylene chloride	µg/kg	475	0.196 U	0.0784 U	1.81	3.41 J	0.0839 U	0.0787 U	0.0801 U	0.0861 U
Tetrachloroethene	µg/kg	4.88	1.74	0.169 U	1.43	1.55 J	6310 J	2210 J	2810 J	259 J
trans-1,2-Dichloroethene	µg/kg	3247	0.299 U	0.0632 U	0.259 U	0.3 UJ	1.67	0.0635 U	0.0645 U	6.95
Trichloroethene	µg/kg	30.8	3.58	0.139 U	2.43	1.78 J	290 J	53.1	178 J	148
Vinyl chloride	µg/kg	0.73	0.222 U	0.515 J	0.193 U	0.223 UJ	355 J	21.3	43.6	65.8
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	0.493 U	0.408 U	0.427 U	0.432 U	0.848 U	0.903 U	0.874 U	0.906 U
Hexachlorobutadiene	µg/kg	0.702	1.8 U	1.49 U	1.55 U	1.57 U	3.09 U	3.29 U	3.18 U	3.3 U
Pentachlorophenol	µg/kg	6.94	0.851 U	0.704 U	0.736 U	0.745 U	1.46 U	1.56 U	1.51 U	1.56 U
Metals~Total										
Arsenic	µg/kg	146	508	711	-	841	523	1610 J	131 U	1660 J
Chromium	µg/kg	714	11300	15600	-	13600	15700	12300	138 J	14900
Copper	µg/kg	53.5	9840	13300	-	12800	17500	11100	146 U	15800
Lead	µg/kg	81002	1060 J	1380	-	1350 J	41100	4700 J	66.2 U	3330 J
Mercury	µg/kg	1.31	5.82 U	4.84 U	11.4 U	4.21 U	4.47 U	4.31 U	4.28 U	5.97 J
Nickel	µg/kg	535	7090	8930	-	8190	8920	7360	91.9 U	9180
Thallium	µg/kg	34	32.9 J	36.3 J	-	54.6 J	52.8 U	83.6 U	22.4 U	93.5 U
Zinc	µg/kg	5045	15300	18000	-	17600	60400	19500 J	615 U	21600 J
PCBs										
Total PCBs	µg/kg	0.053	14 U	3.43 U	-	-	8.58	13 U	13 U	14 U
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	EA-2	EA-2	EA-2	EA-2	EA-2	EA-2	EA-2	EA-2	EA-2	
Sample ID:	S-101105-DC-EA-2-006	S-101105-DC-EA-2-007	S-101205-DC-EA-2-008	S-101205-DC-EA-2-009	S-101205-DC-EA-2-010	S-101205-DC-EA-2-011	S-101305-NR-EA-2-012	S-101305-NR-EA-2-013		
Sample Date:	10/11/2005	10/11/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/13/2005	10/13/2005		
Sample Depth:	45 to 47 ft bgs	50 to 52 ft bgs	55 to 57 ft bgs	60 to 62 ft bgs	65 to 67 ft bgs	70 to 72 ft bgs	75 to 77 ft bgs	80 to 82 ft bgs		
elev_MLLW	-27 to -29	-32 to -34	-37 to -39	-42 to -44	-47 to -49	-52 to -54	-57 to -59	-62 to -64		
elev_NGVD	-33.3 to -35.3	-38.3 to -40.3	-43.3 to -45.3	-48.3 to -50.3	-53.3 to -55.3	-58.3 to -60.3	-63.3 to -65.3	-68.3 to -70.3		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	0.107 U	0.101 U	0.0983 U	0.104 UJ	0.101 UJ	0.1 U	0.1 U	0.0998 UJ
1,1,2-Trichloroethane	µg/kg	15.2	6.31	0.0894 U	0.639 J	0.0919 UJ	1.06 J	1.96	1.61	0.0885 UJ
1,1-Dichloroethene	µg/kg	1.13	0.118 U	7.08	20.1	0.114 UJ	0.826 J	2.06	2.77	9.15 J
Carbon tetrachloride	µg/kg	1.93	0.0984 U	0.0932 U	0.0908 U	0.0958 UJ	0.0936 UJ	0.0925 U	0.0926 U	0.0923 UJ
Chloroform (Trichloromethane)	µg/kg	160	1.83	0.0591 U	0.0576 U	0.0607 UJ	0.0594 UJ	0.885 J	0.0587 U	5.75 J
cis-1,2-Dichloroethene	µg/kg	NV	219	3190 J	3610 J	127 J	367 J	1760 J	2400 J	3260 J
Methylene chloride	µg/kg	475	0.0953 U	1.96	0.0879 U	2.19 J	0.0906 U	2.48	0.0896 U	0.0893 UJ
Tetrachloroethene	µg/kg	4.88	362 J	78.4	5.6	2.31 J	11.4 J	35.8	19.6	435 J
trans-1,2-Dichloroethene	µg/kg	3247	1.86	15.6	14.9	0.0748 UJ	0.85 J	7.51	7.23	7.92 J
Trichloroethene	µg/kg	30.8	26.8	22.3	22.8	4.52 J	7.38 J	4.65	4.79 J	26.4 J
Vinyl chloride	µg/kg	0.73	10.4	2.44	7.85	0.684 J	2.21 J	4.58	7.86	154 J
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	0.984 U	0.887 U	0.937 U	0.933 U	0.937 U	0.819 U	0.893 U	0.901 U
Hexachlorobutadiene	µg/kg	0.702	3.58 U	3.23 U	3.41 U	3.39 U	3.41 U	2.98 U	3.25 U	3.28 U
Pentachlorophenol	µg/kg	6.94	1.7 U	1.53 U	1.62 U	1.61 U	1.62 U	1.41 U	1.54 U	1.55 U
Metals~Total										
Arsenic	µg/kg	146	895 J	816 J	605	828	520	978	558	844
Chromium	µg/kg	714	14900	12200	15800 J	17300 J	12100 J	13600 J	19000 J	18700 J
Copper	µg/kg	53.5	16100	12400	12500	17000	10900	11000	12600	14400
Lead	µg/kg	81002	5920 J	1970 J	1280 J	1550 J	1110 J	1110 J	1480 J	1860 J
Mercury	µg/kg	1.31	4.51 U	4.57 U	5.23 U	5.75 J	5.56 U	5.32 U	5.42 U	5.37 U
Nickel	µg/kg	535	8300	7880	8460	10100	8360	8850	9160	9940
Thallium	µg/kg	34	52.9 U	36.4 U	36.4 U	107 U	55.8 U	39.3 U	29.4 J	34.7 J
Zinc	µg/kg	5045	22000 J	17500 J	17800	21200	17400	18000	21100	23100
PCBs										
Total PCBs	µg/kg	0.053	14 U	14 U	3.8 U	3.85 U	3.72 U	3.65 U	3.66 U	3.69 U
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		EA-2	EA-2	EA-2	EA-2	EA-2	EA-2	EA-2	EA-2	
Sample ID:		S-101305-NR-EA-2-014	S-101405-NR-EA-2-015	S-101405-NR-EA-2-016	S-101405-NR-EA-2-017	S-101705-NR-EA-2-018	S-101705-NR-EA-2-019	S-101705-NR-EA-2-020	S-101805-NR-EA-2-021	
Sample Date:		10/13/2005	10/14/2005	10/14/2005	10/14/2005	10/17/2005	10/17/2005	10/17/2005	10/18/2005	
Sample Depth:		85 to 87 ft bgs	90 to 92 ft bgs	90 to 92 ft bgs	95 to 97 ft bgs	100 to 102 ft bgs	105 to 107 ft bgs	110 to 112 ft bgs	115 to 117 ft bgs	
elev_MLLW		-67 to -69	-72 to -74	-72 to -74	-77 to -79	-82 to -84	-87 to -89	-92 to -94	-97 to -99	
elev_NGVD		-73.3 to -75.3	-78.3 to -80.3	-78.3 to -80.3 (Duplicate)	-83.3 to -85.3	-88.3 to -90.3	-93.3 to -95.3	-98.3 to -100.3	-103.3 to -105.3	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	0.103 U	0.112 U	0.101 U	0.0948 U	R	0.102 U	0.102 U	0.0912 U
1,1,2-Trichloroethane	µg/kg	15.2	0.0911 U	0.0996 U	0.0892 U	0.848 J	0.724 J	0.467 J	0.363 J	0.0808 U
1,1-Dichloroethene	µg/kg	1.13	1.88	2.24	1.56	0.105 UJ	0.107 UJ	0.113 UJ	0.112 U	0.101 U
Carbon tetrachloride	µg/kg	1.93	0.095 U	0.104 U	0.093 U	0.0876 U	0.293 J	0.0942 U	0.094 U	0.0843 U
Chloroform (Trichloromethane)	µg/kg	160	1.04 J	1.51	0.738 J	0.0555 UJ	0.0566 UJ	0.0597 UJ	0.0596 U	0.0682 J
cis-1,2-Dichloroethene	µg/kg	NV	754 J	854 J	574 J	41.5 J	28.2 J	3.01 J	5.72	9.62
Methylene chloride	µg/kg	475	0.0919 U	0.1 U	0.09 U	0.0848 UJ	0.0864 UJ	0.0912 UJ	0.091 U	0.0816 U
Tetrachloroethene	µg/kg	4.88	45.6	112	69.2	8.99	6.96 J	2.96 J	1.79 J	0.175 UJ
trans-1,2-Dichloroethene	µg/kg	3247	2.24	1.9	1.45	0.0683 UJ	0.0696 UJ	0.0735 UJ	0.0734 U	0.0657 U
Trichloroethene	µg/kg	30.8	5.06	9.37	6.95	1.14	1.03 J	1.96	0.306 J	0.144 U
Vinyl chloride	µg/kg	0.73	16.7	32.5	14.8	1.78 J	1.34 J	0.636 J	0.76 J	1.06
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	0.868 U	0.861 U	0.901 U	0.888 U	0.466 U	0.479 U	0.445 U	0.441 U
Hexachlorobutadiene	µg/kg	0.702	3.16 U	3.13 U	3.28 U	3.23 U	1.7 U	1.74 U	1.62 U	1.6 U
Pentachlorophenol	µg/kg	6.94	1.5 U	1.49 U	1.55 U	1.53 UJ	R	0.826 UJ	0.768 U	0.76 U
Metals~Total										
Arsenic	µg/kg	146	607	2610 J	532 J	880	512	1410	594	784
Chromium	µg/kg	714	16000 J	31700 J	15600 J	21600 J	14700	15300	12300	12400
Copper	µg/kg	53.5	13200	24700	12700	17500	21800	26000	18800	16000
Lead	µg/kg	81002	1300 J	4100	1430	3360	4200	4390	2960	1560
Mercury	µg/kg	1.31	5.33 J	5.17 U	4.82 U	5.6 U	4.78 U	5.12 U	4.75 U	4.68 U
Nickel	µg/kg	535	8680	13000	8860	9650	9640	10300	8430	8670
Thallium	µg/kg	34	26.6 J	60 U	25.6 U	91.9 U	156 J	183 J	108 U	50.5 U
Zinc	µg/kg	5045	19400	33100	20400	27200	26200 J	26200 J	20800 J	18600 J
PCBs										
Total PCBs	µg/kg	0.053	3.7 U	-	-	-	14 U	14 U	13 U	14 U
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:		EA-2	EA-2	EA-2	EA-2	EA-2	EA-2	EA-2	EA-3	
Sample ID:		S-101805-NR-EA-2-022	S-101805-NR-EA-2-023	S-101905-NR-EA-2-024	S-102005-NR-EA-2-025	S-102005-NR-EA-2-026	S-102005-NR-EA-2-027	S-102105-JL-EA-2-028	S-102505-NR-EA-3-002	
Sample Date:		10/18/2005	10/18/2005	10/19/2005	10/20/2005	10/20/2005	10/20/2005	10/21/2005	10/25/2005	
Sample Depth:		120 to 122 ft bgs	125 to 127 ft bgs	130 to 132 ft bgs	135 to 137 ft bgs	140 to 142 ft bgs	145 to 147 ft bgs	150 to 152 ft bgs	20 to 22 ft bgs	
elev_MLLW		-102 to -104	-107 to -109	-112 to -114	-117 to -119	-122 to -124	-127 to -129	-132 to -134	-2 to -4	
elev_NGVD		-108.3 to -110.3	-113.3 to -115.3	-118.3 to -120.3	-123.3 to -125.3	-128.3 to -130.3	-133.3 to -135.3	-138.3 to -140.3	-8.3 to -10.3	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	0.102 U	0.0933 U	0.0989 U	0.0976 U	0.108 U	0.0967 U	0.11 U	1.5 U
1,1,2-Trichloroethane	µg/kg	15.2	0.747 J	0.304 J	0.39 J	0.671 J	0.342 J	0.601 J	0.448 J	0.58 U
1,1-Dichloroethene	µg/kg	1.13	0.112 U	0.103 U	0.109 U	0.108 U	0.12 U	0.107 U	0.121 U	0.95 U
Carbon tetrachloride	µg/kg	1.93	0.094 U	0.0862 U	0.0914 U	0.0902 U	0.1 U	0.0894 U	0.102 U	0.96 U
Chloroform (Trichloromethane)	µg/kg	160	0.0596 U	0.0547 U	0.0579 U	0.0572 U	0.0634 U	0.0567 U	0.0675 J	1.7 U
cis-1,2-Dichloroethene	µg/kg	NV	9.86	0.634 J	1.32	5.35	0.702 J	4.01	1.93	3.3 J
Methylene chloride	µg/kg	475	0.091 U	0.0835 U	0.0884 U	0.0873 U	0.0969 U	0.0865 U	0.0983 U	5.5 U
Tetrachloroethene	µg/kg	4.88	6.82 J	0.669 J	1.11 J	5.67 J	1.08 J	4.84 J	2.21 J	0.65 U
trans-1,2-Dichloroethene	µg/kg	3247	0.0733 U	0.0673 U	0.0713 U	0.0704 U	0.0781 U	0.0697 U	0.0792 U	1.6 U
Trichloroethene	µg/kg	30.8	0.512 J	0.166 J	0.235 J	0.53 J	0.224 J	0.439 J	0.264 J	0.85 U
Vinyl chloride	µg/kg	0.73	0.728 J	0.393 J	0.113 U	0.872 J	0.124 U	0.447 J	0.586 J	2.0 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	0.445 U	0.44 U	0.453 U	0.478 U	0.45 U	0.453 U	0.472 U	1.9 U
Hexachlorobutadiene	µg/kg	0.702	1.62 U	1.6 U	1.65 U	1.74 U	1.64 U	1.65 U	1.72 U	17
Pentachlorophenol	µg/kg	6.94	0.767 U	0.76 U	0.781 U	0.824 U	0.776 U	0.781 U	0.814 U	4.0 UJ
Metals~Total										
Arsenic	µg/kg	146	462	1150	1170	1640	1420	1900	1020	10100
Chromium	µg/kg	714	11200	12200	14200	15300	16200	16500	12300	45100
Copper	µg/kg	53.5	12000	17700	18300	18100	18800	21700	11000	34500
Lead	µg/kg	81002	1340	1900	2000	1830	1790	2150	972	50500
Mercury	µg/kg	1.31	5.33 U	7.05 J	9.19 J	13.8 J	11.8 J	21.6	5.47 U	50 U
Nickel	µg/kg	535	7530	8860	9950	9950	10200	11200	8240	39100
Thallium	µg/kg	34	37.1 U	59.3 U	60.9 U	226 J	88.8 J	81 J	41.4 U	73 U
Zinc	µg/kg	5045	16600 J	18800 J	20600 J	21100	20700	23600	17400	137000
PCBs										
Total PCBs	µg/kg	0.053	13 U	13 U	13 U	13 U	13 U	13 U	13 U	160
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	
Sample ID:		S-102505-NR-EA-3-003	S-102505-NR-EA-3-004	S-102505-NR-EA-3-005	S-102505-NR-EA-3-006	S-102605-NR-EA-3-007	S-102605-NR-EA-3-008	S-102605-NR-EA-3-009	S-102605-NR-EA-3-010	
Sample Date:		10/25/2005	10/25/2005	10/25/2005	10/25/2005	10/26/2005	10/26/2005	10/26/2005	10/26/2005	
Sample Depth:		25 to 27 ft bgs	30 to 32 ft bgs	35 to 37 ft bgs	40 to 42 ft bgs	45 to 47 ft bgs	50 to 52 ft bgs	55 to 57 ft bgs	60 to 62 ft bgs	
elev_MLLW		-7 to -9	-12 to -14	-17 to -19	-22 to -24	-27 to -29	-32 to -34	-37 to -39	-42 to -44	
elev_NGVD		-13.3 to -15.3	-18.3 to -20.3	-23.3 to -25.3	-28.3 to -30.3	-33.3 to -35.3	-38.3 to -40.3	-43.3 to -45.3	-48.3 to -50.3	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.7 U	78 U	1.6 U	1.6 U	1.6 UJ	1.6 UJ	1.7 U	1.6 UJ
1,1,2-Trichloroethane	µg/kg	15.2	0.67 U	30 U	0.61 U	0.62 U	0.63 UJ	0.64 UJ	0.64 U	0.63 UJ
1,1-Dichloroethene	µg/kg	1.13	1.1 U	50 U	1.0 U	1.0 U	1.0 UJ	1.1 UJ	1.1 U	1.0 UJ
Carbon tetrachloride	µg/kg	1.93	1.1 U	50 U	1.0 U	1.0 U	1.1 UJ	1.1 UJ	1.1 U	1.1 UJ
Chloroform (Trichloromethane)	µg/kg	160	2.0 U	90 U	1.8 U	1.9 U	1.9 UJ	1.9 UJ	1.9 U	1.9 UJ
cis-1,2-Dichloroethene	µg/kg	NV	1.5 U	67 U	2.0 J	1.6 J	1.4 UJ	1.4 UJ	1.4 U	1.4 UJ
Methylene chloride	µg/kg	475	6.4 U	290 U	5.9 U	5.9 U	6.0 UJ	6.1 UJ	6.1 U	6.0 UJ
Tetrachloroethene	µg/kg	4.88	0.75 U	34 U	0.69 U	0.70 U	0.71 UJ	0.72 UJ	0.72 U	0.71 UJ
trans-1,2-Dichloroethene	µg/kg	3247	1.9 U	85 U	1.7 U	1.8 U	1.8 UJ	1.8 UJ	1.8 U	1.8 UJ
Trichloroethene	µg/kg	30.8	0.99 U	45 U	0.91 U	0.92 U	0.93 UJ	0.94 UJ	0.95 U	0.94 UJ
Vinyl chloride	µg/kg	0.73	2.3 U	110 UJ	10	6.4 J	2.2 UJ	2.2 UJ	2.3 U	2.2 UJ
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	2.2 U	2.0 U	2.0 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Hexachlorobutadiene	µg/kg	0.702	1.4 J	1.0 U	1.0 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U
Pentachlorophenol	µg/kg	6.94	4.6 UJ	4.2 UJ	4.2 UJ	4.3 UJ	4.3 UJ	4.4 UJ	4.4 UJ	4.3 UJ
Metals~Total										
Arsenic	µg/kg	146	3200	620	1000	1300	1300	940	1100	950
Chromium	µg/kg	714	13200	10600	11300	10500	13000	12600	14200	11600
Copper	µg/kg	53.5	27400	9300	24100	14400	15000	12700	16900	15500
Lead	µg/kg	81002	4600	2800	2200	1600	1400	1700	1700	1400
Mercury	µg/kg	1.31	110 U	29 U	24 U	38 U	28 U	38 U	33 U	40 U
Nickel	µg/kg	535	10700	6200	8200	7300	8500 J	8600 J	8200 J	7800 J
Thallium	µg/kg	34	150 U	52 U	65 U	64 U	60 J	60 J	80 J	79 J
Zinc	µg/kg	5045	32100	17200	22200	23200	23200	20000	24000	21600
PCBs										
Total PCBs	µg/kg	0.053	14 U	12 U	13 U	13 U	13 U	13 U	13 U	13 U
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	
Sample ID:		S-102705-NR-EA-3-011	S-102705-NR-EA-3-012	S-102705-NR-EA-3-013	S-102705-NR-EA-3-014	S-102705-NR-EA-3-015	S-102805-NR-EA-3-016	S-102805-NR-EA-3-017	S-102805-NR-EA-3-018	
Sample Date:		10/27/2005	10/27/2005	10/27/2005	10/27/2005	10/27/2005	10/28/2005	10/28/2005	10/28/2005	
Sample Depth:		65 to 67 ft bgs	70 to 72 ft bgs	75 to 77 ft bgs	80 to 82 ft bgs	85 to 87 ft bgs	90 to 92 ft bgs	95 to 97 ft bgs	95 to 97 ft bgs	
elev_MLLW		-47 to -49	-52 to -54	-57 to -59	-62 to -64	-67 to -69	-72 to -74	-77 to -79	-77 to -79	
elev_NGVD		-53.3 to -55.3	-58.3 to -60.3	-63.3 to -65.3	-68.3 to -70.3	-73.3 to -75.3	-78.3 to -80.3	-83.3 to -85.3	-83.3 to -85.3 (Duplicate)	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 U	1.6 U	1.6 U	78 UJ	76 UJ	1.6 UJ	83 UJ
1,1,2-Trichloroethane	µg/kg	15.2	0.61 U	0.63 U	0.63 U	0.61 U	30 UJ	30 UJ	0.63 UJ	32 UJ
1,1-Dichloroethene	µg/kg	1.13	1.0 U	1.0 U	1.0 U	1.0 U	50 UJ	49 UJ	1.0 UJ	53 UJ
Carbon tetrachloride	µg/kg	1.93	1.0 U	1.1 U	1.0 U	1.0 U	51 UJ	49 UJ	1.0 UJ	53 UJ
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.9 U	1.9 U	1.8 U	90 UJ	88 UJ	1.9 UJ	95 UJ
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	1.4 U	1.4 U	1.4 U	68 UJ	66 UJ	1.4 UJ	71 UJ
Methylene chloride	µg/kg	475	5.9 U	6.0 U	6.0 U	5.8 U	290 UJ	280 UJ	6.0 UJ	300 UJ
Tetrachloroethene	µg/kg	4.88	0.69 U	0.71 U	0.70 U	0.68 U	34 UJ	33 UJ	0.70 UJ	36 UJ
trans-1,2-Dichloroethene	µg/kg	3247	1.7 U	1.8 U	1.8 U	1.7 U	85 UJ	83 UJ	1.8 UJ	90 UJ
Trichloroethene	µg/kg	30.8	0.91 U	0.93 U	0.93 U	0.90 U	45 UJ	44 UJ	0.93 UJ	47 UJ
Vinyl chloride	µg/kg	0.73	2.1 U	2.2 U	2.2 U	2.1 U	110 UJ	100 UJ	2.2 UJ	110 UJ
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	2.0 U	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.1 U	2.1 U
Hexachlorobutadiene	µg/kg	0.702	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	64	1.0 U	1.1 U
Pentachlorophenol	µg/kg	6.94	4.2 UJ	4.3 UJ	4.3 UJ	4.2 UJ	4.2 UJ	4.1 UJ	4.3 UJ	4.4 UJ
Metals~Total										
Arsenic	µg/kg	146	840	770	770	910	1500	920	2300	2300
Chromium	µg/kg	714	11000	8800	8200	11700	13900 J	11000 J	14100 J	14900 J
Copper	µg/kg	53.5	13800	14400	11500	14100	17100	12100	21900	22500
Lead	µg/kg	81002	1400	1400	1300	2000	1900	1500	2500	2500
Mercury	µg/kg	1.31	170 U	55 U	56 U	29 U	21 U	21 U	51 U	22 U
Nickel	µg/kg	535	6900 J	7200 J	7000 J	8500 J	8700 J	7800 J	10000 J	12900 J
Thallium	µg/kg	34	68 J	76 J	59 J	62 J	88 J	58 J	130	130
Zinc	µg/kg	5045	21600	17600	18800	42000	25200	20800	33100	40200
PCBs										
Total PCBs	µg/kg	0.053	13 U	13 U	13 U	12 U	12 U	12 U	13 U	13 U
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	
Sample ID:		S-102805-NR-EA-3-019	S-103105-NR-EA-3-020	S-110105-DC-EA-3-021	S-110105-DC-EA-3-022	S-110105-DC-EA-3-023	S-110205-NR-EA-3-024	S-110205-NR-EA-3-025	S-110305-NR-EA-3-026	
Sample Date:		10/28/2005	10/31/2005	11/1/2005	11/1/2005	11/1/2005	11/2/2005	11/2/2005	11/3/2005	
Sample Depth:		100 to 102 ft bgs	105 to 107 ft bgs	110 to 112 ft bgs	115 to 117 ft bgs	120 to 122 ft bgs	125 to 127 ft bgs	130 to 132 ft bgs	135 to 137 ft bgs	
elev_MLLW		-82 to -84	-87 to -89	-92 to -94	-97 to -99	-102 to -104	-107 to -109	-112 to -114	-117 to -119	
elev_NGVD		-88.3 to -90.3	-93.3 to -95.3	-98.3 to -100.3	-103.3 to -105.3	-108.3 to -110.3	-113.3 to -115.3	-118.3 to -120.3	-123.3 to -125.3	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	79 UJ	1.6 U	1.6 U	1.5 U	1.5 U	1.6 UJ	1.6 UJ	1.5 U
1,1,2-Trichloroethane	µg/kg	15.2	31 UJ	0.61 U	0.61 U	0.58 U	0.58 U	0.60 UJ	0.61 UJ	0.59 U
1,1-Dichloroethene	µg/kg	1.13	51 UJ	1.0 U	1.0 U	0.95 U	0.96 U	0.99 UJ	1.0 UJ	0.97 U
Carbon tetrachloride	µg/kg	1.93	51 UJ	1.0 U	1.0 U	0.97 U	0.97 U	1.0 UJ	1.0 UJ	0.98 U
Chloroform (Trichloromethane)	µg/kg	160	92 UJ	1.8 UJ	1.8 U	1.7 U	1.7 U	1.8 UJ	1.8 UJ	1.8 U
cis-1,2-Dichloroethene	µg/kg	NV	69 UJ	1.7 J	44	10	1.3 U	1.3 UJ	1.4 UJ	1.3 U
Methylene chloride	µg/kg	475	290 UJ	R	5.8 UJ	5.5 UJ	5.6 UJ	5.7 UJ	5.8 UJ	5.6 U
Tetrachloroethene	µg/kg	4.88	35 UJ	0.68 U	0.68 U	0.65 U	0.66 U	1.2 J	1.2 J	0.66 U
trans-1,2-Dichloroethene	µg/kg	3247	87 UJ	1.7 U	1.7 U	1.6 U	1.6 U	1.7 UJ	1.7 UJ	1.6 U
Trichloroethene	µg/kg	30.8	46 UJ	0.90 U	0.90 U	0.86 U	0.86 U	0.89 UJ	1.1 J	0.87 U
Vinyl chloride	µg/kg	0.73	110 UJ	2.1 UJ	12 J	2.0 UJ	2.0 U	2.1 UJ	2.1 UJ	2.1 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	2.1 U	2.0 U	2.0 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U
Hexachlorobutadiene	µg/kg	0.702	1.0 U	1.0 U	1.0 U	0.97 U	0.97 U	1.0 U	1.0 U	0.98 U
Pentachlorophenol	µg/kg	6.94	4.2 UJ	4.2 U	4.2 U	4.0 U	4.0 U	4.1 U	4.2 U	4.0 U
Metals~Total										
Arsenic	µg/kg	146	2600	2600 U	2600 U	2400 U	2500 U	2500 U	2600 U	2500 U
Chromium	µg/kg	714	11500 J	17400	13900 J	11700 J	9700 J	14800 J	12700 J	13200 J
Copper	µg/kg	53.5	22600	21100	18600	13400	10700	17500	13800	12600
Lead	µg/kg	81002	2600	1900 J	2000 J	1600 J	1100 J	1600 J	1300 J	1100 J
Mercury	µg/kg	1.31	33 U	21 U	21 U	20 U	21 U	21 U	21 U	21 U
Nickel	µg/kg	535	9600 J	9200	8600	7800	7300	9000	8000	7500
Thallium	µg/kg	34	110	680 U	680 U	650 U	650 U	670 U	680 U	660 U
Zinc	µg/kg	5045	38200	37200 J	27700 J	44300 J	21400 J	24700 J	22600 J	21200 J
PCBs										
Total PCBs	µg/kg	0.053	13 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EXT-7</i>	<i>EXT-7</i>	<i>EXT-7</i>	
<i>Sample ID:</i>		<i>S-110305-NR-EA-3-027</i>	<i>S-110305-NR-EA-3-028</i>	<i>S-110405-NR-EA-3-029</i>	<i>S-110705-NR-EA-3-030</i>	<i>S-110705-NR-EA-3-031</i>	<i>S-083013-KB-EXT7-02</i>	<i>S-083013-KB-EXT7-04</i>	<i>S-090313-KB-EXT7-05</i>	
<i>Sample Date:</i>		<i>11/3/2005</i>	<i>11/3/2005</i>	<i>11/4/2005</i>	<i>11/7/2005</i>	<i>11/7/2005</i>	<i>8/30/2013</i>	<i>8/30/2013</i>	<i>9/3/2013</i>	
<i>Sample Depth:</i>		<i>140 to 142 ft bgs</i>	<i>145 to 147 ft bgs</i>	<i>150 to 152 ft bgs</i>	<i>155 to 157 ft bgs</i>	<i>160 to 162 ft bgs</i>	<i>23.4 ft BGS</i>	<i>23.6 ft BGS</i>	<i>78.5 ft BGS</i>	
<i>elev_MLLW</i>		<i>-122 to -124</i>	<i>-127 to -129</i>	<i>-132 to -134</i>	<i>-137 to -139</i>	<i>-142 to -144</i>	<i>-5.67</i>	<i>-5.87</i>	<i>-60.77</i>	
<i>elev_NGVD</i>		<i>-128.3 to -130.3</i>	<i>-133.3 to -135.3</i>	<i>-138.3 to -140.3</i>	<i>-143.3 to -145.3</i>	<i>-148.3 to -150.3</i>	<i>-12</i>	<i>-12.2</i>	<i>-67.1</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.7 U	77 U	1.6 U	1.6 U	1.5 U	1.4 J	5.4 U	74 U
1,1,2-Trichloroethane	µg/kg	15.2	0.64 U	30 U	0.61 U	0.60 U	0.59 U	4.8 U	5.4 U	74 U
1,1-Dichloroethene	µg/kg	1.13	1.1 U	49 U	1.0 U	0.99 U	0.98 U	4.8 U	5.4 U	35 J
Carbon tetrachloride	µg/kg	1.93	1.1 U	50 U	1.0 U	1.0 U	0.99 U	4.8 U	5.4 U	74 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	89 U	1.8 U	1.8 U	1.8 U	1.0 J	5.4 U	74 U
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	66 U	1.4 U	1.3 U	1.3 U	9.6	1.6 J	7600
Methylene chloride	µg/kg	475	6.1 U	280 UJ	5.8 UJ	5.7 U	5.7 U	9.5 U	11 U	300 U
Tetrachloroethene	µg/kg	4.88	0.72 U	34 U	0.68 U	0.67 U	0.67 U	150	8.1	22000
trans-1,2-Dichloroethene	µg/kg	3247	1.8 U	84 U	1.7 U	1.7 U	1.7 U	0.88 J	0.60 J	32 J
Trichloroethene	µg/kg	30.8	0.95 U	44 U	0.90 U	0.89 U	0.88 U	32	7.1	27000
Vinyl chloride	µg/kg	0.73	2.3 U	100 UJ	2.1 U	2.1 U	2.1 U	8.0	1.9 J	4700
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-
Hexachlorobutadiene	µg/kg	0.702	1.1 U	0.99 U	1.0 U	1.0 U	0.99 U	-	-	-
Pentachlorophenol	µg/kg	6.94	4.4 U	4.1 U	4.2 U	4.1 U	4.1 U	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	2700 U	2500 U	2600 U	2500 U	2500 U	-	-	-
Chromium	µg/kg	714	17900	11300 J	9500 J	13600 J	13600 J	-	-	-
Copper	µg/kg	53.5	22000	10700	9700	12100	13600	-	-	-
Lead	µg/kg	81002	2100 J	820 J	820 J	1400 J	1200 J	-	-	-
Mercury	µg/kg	1.31	23 U	21 U	21 U	21 U	21 U	-	-	-
Nickel	µg/kg	535	11200	8100	6500	8600	7700	-	-	-
Thallium	µg/kg	34	720 U	670 U	680 U	670 U	660 U	-	-	-
Zinc	µg/kg	5045	29900 J	21600 J	18600 J	25000 J	44100 J	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	13 U	12 U	12 U	12 U	12 U	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EXT-7</i>	<i>EXT-7</i>	<i>EXT-7</i>	<i>EXT-7</i>	<i>EXT-7</i>	<i>EXT-7</i>	<i>EXT-7</i>	<i>EXT-7</i>	<i>EXT-9</i>	
<i>Sample ID:</i>		<i>S-090313-KB-EXT7-06</i>	<i>S-090313-KB-EXT7-07</i>	<i>S-090413-KB-EXT7-08</i>	<i>S-090413-KB-EXT7-09</i>	<i>S-090413-KB-EXT7-10</i>	<i>S-090413-KB-EXT7-11</i>	<i>S-090413-KB-EXT7-012</i>	<i>S-090513-KB-EXT7-013</i>	<i>S-091313-MD-EXT-9-1</i>	
<i>Sample Date:</i>		<i>9/3/2013</i>	<i>9/3/2013</i>	<i>9/3/2013</i>	<i>9/3/2013</i>	<i>9/3/2013</i>	<i>9/3/2013</i>	<i>9/3/2013</i>	<i>9/4/2013</i>	<i>9/5/2013</i>	
<i>Sample Depth:</i>		<i>89.8 ft BGS</i>	<i>91.5 ft BGS</i>	<i>104.8 ft BGS</i>	<i>112.5 ft BGS</i>	<i>112.5 ft BGS</i>	<i>118 ft BGS</i>	<i>121 ft BGS</i>	<i>133 ft BGS</i>	<i>118 ft BGS</i>	
<i>elev_MLLW</i>		<i>-72.07</i>	<i>-73.77</i>	<i>-87.07</i>	<i>-94.77</i>	<i>-94.77</i>	<i>-100.27</i>	<i>-103.27</i>	<i>-115.27</i>	<i>-99.11</i>	
<i>elev_NGVD</i>		<i>-78.4</i>	<i>-80.1</i>	<i>-93.4</i>	<i>-101.1</i>	<i>(Duplicate)</i>	<i>-106.6</i>	<i>-109.6</i>	<i>-121.6</i>	<i>-105.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>									
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	69 U	170 U	70 U	66 U	R	170 U	1400 U	5.3 U	35 J
1,1,2-Trichloroethane	µg/kg	15.2	69 U	170 U	70 U	66 U	65 U	170 U	1400 U	5.3 U	67 U
1,1-Dichloroethene	µg/kg	1.13	80	410	72	28 J	17 J	95 J	1700	0.68 J	44 J
Carbon tetrachloride	µg/kg	1.93	69 U	170 U	70 U	66 U	65 U	170 U	1400 U	5.3 U	67 U
Chloroform (Trichloromethane)	µg/kg	160	69 U	170 U	70 U	66 U	65 U	170 U	1400 U	5.3 U	4000
cis-1,2-Dichloroethene	µg/kg	NV	16000	54000	5000	1200 J	540 J	520	23000	35	7100
Methylene chloride	µg/kg	475	280 U	680 U	280 U	270 U	260 U	680 U	5300 U	11 U	800
Tetrachloroethene	µg/kg	4.88	4000	160000	15000	7400 J	3500 J	37000	470000	92	19000
trans-1,2-Dichloroethene	µg/kg	3247	120	280	43 J	24 J	12 J	140 J	760 J	5.3 U	200
Trichloroethene	µg/kg	30.8	2100	96000	28000	20000 J	8800 J	120000	1500000	300	47000
Vinyl chloride	µg/kg	0.73	4200	8800	2300	190 J	120 J	170 U	1400 U	5.3 U	620
<i>Semi-volatile Organic Compounds</i>											
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-
<i>Metals~Total</i>											
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-
<i>PCBs</i>											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	EXT-9-Deep		EXT-9-Deep		EXT-9-Deep		EXT-9-Deep		EXT-9-Deep		EXT-9-Deep	
Sample ID:	S-071113-NH-MW-EXT-9-DEEP-1		S-071113-NH-MW-EXT-9-DEEP-2		S-071113-NH-MW-EXT-9-DEEP-3		S-071113-NH-MW-EXT-9-DEEP-4		S-071113-NH-MW-EXT-9-DEEP-5		S-071113-NH-MW-EXT-9-DEEP-6	
Sample Date:	7/11/2013		7/11/2013		7/11/2013		7/11/2013		7/11/2013		7/11/2013	
Sample Depth:	20 ft BGS		25 ft BGS		35 ft BGS		47.5 ft BGS		57.5 ft BGS		65 ft BGS	
elev_MLLW	-1.1		-6.1		-16.1		-28.6		-38.6		-46.1	
elev_NGVD	-7.4		-12.4		-22.4		-34.9		-44.9		-52.4	
Parameters	Units	Cs										
Volatile Organic Compounds												
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.2 U	6.3 U	5.2 U	4.0 UJ	5.6 U	5.8 U				
1,1,2-Trichloroethane	µg/kg	15.2	5.2 U	6.3 U	5.2 U	4.0 UJ	5.6 U	5.8 U				
1,1-Dichloroethene	µg/kg	1.13	5.2 U	6.3 U	5.2 U	4.0 UJ	5.6 U	5.8 U				
Carbon tetrachloride	µg/kg	1.93	5.2 U	6.3 U	5.2 U	4.0 UJ	5.6 U	5.8 U				
Chloroform (Trichloromethane)	µg/kg	160	5.2 U	6.3 U	5.2 U	4.0 UJ	5.6 U	5.8 U				
cis-1,2-Dichloroethene	µg/kg	NV	5.2 U	6.3 U	5.2 U	4.0 UJ	5.6 U	5.8 U				
Methylene chloride	µg/kg	475	11 U	13 U	11 U	8.0 UJ	12 U	12 U				
Tetrachloroethene	µg/kg	4.88	5.2 U	6.3 U	5.2 U	4.0 UJ	5.6 U	5.8 U				
trans-1,2-Dichloroethene	µg/kg	3247	5.2 U	6.3 U	5.2 U	4.0 UJ	5.6 U	5.8 U				
Trichloroethene	µg/kg	30.8	5.2 U	6.3 U	5.2 U	4.0 UJ	5.6 U	5.8 U				
Vinyl chloride	µg/kg	0.73	5.2 U	6.3 U	0.87 J	4.0 UJ	5.6 U	5.8 U				
Semi-volatile Organic Compounds												
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-				
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-				
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-				
Metals~Total												
Arsenic	µg/kg	146	-	-	-	-	-	-				
Chromium	µg/kg	714	-	-	-	-	-	-				
Copper	µg/kg	53.5	-	-	-	-	-	-				
Lead	µg/kg	81002	-	-	-	-	-	-				
Mercury	µg/kg	1.31	-	-	-	-	-	-				
Nickel	µg/kg	535	-	-	-	-	-	-				
Thallium	µg/kg	34	-	-	-	-	-	-				
Zinc	µg/kg	5045	-	-	-	-	-	-				
PCBs												
Total PCBs	µg/kg	0.053	-	-	-	-	-	-				
Pesticides												
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-				
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-				
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-				

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	EXT-9-Deep	EXT-9-Deep	EXT-9-Deep	EXT-9-Deep	EXT-9-Deep	EXT-9-Deep		
Sample ID:	S-071113-NH-MW-EXT-9-DEEP-7	S-071213-NH-MW-EXT-9-DEEP-8	S-071213-NH-MW-EXT-9-DEEP-9	S-071213-NH-MW-EXT-9-DEEP-10	S-071513-NH-MW-EXT-9-DEEP-11	S-071513-NH-MW-EXT-9-DEEP-12		
Sample Date:	7/11/2013	7/12/2013	7/12/2013	7/12/2013	7/15/2013	7/15/2013		
Sample Depth:	76 ft BGS	89.5 ft BGS	99.5 ft BGS	107.5 ft BGS	115.5 ft BGS	127.5 ft BGS		
elev_MLLW	-57.1	-70.6	-80.6	-88.6	-96.6	-108.6		
elev_NGVD	-63.4	-76.9	-86.9	-94.9	-102.9	-114.9		
Parameters	Units	Cs						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.6 U	5.2 U	75 U	74 U	180 U	1800
1,1,2-Trichloroethane	µg/kg	15.2	5.6 U	5.2 U	75 U	210	180 U	610 U
1,1-Dichloroethene	µg/kg	1.13	5.6 U	5.2 U	110	170	180 J	350 J
Carbon tetrachloride	µg/kg	1.93	5.6 U	5.2 U	75 U	74 U	180 U	610 U
Chloroform (Trichloromethane)	µg/kg	160	2.0 J	5.2 U	75 U	4400	7000	12000
cis-1,2-Dichloroethene	µg/kg	NV	2.7 J	0.48 J	37000	38000	24000	32000
Methylene chloride	µg/kg	475	12 U	11 U	300 U	2000	1800	2800
Tetrachloroethene	µg/kg	4.88	5.6 U	5.2 U	75 U	1900	12000	240000
trans-1,2-Dichloroethene	µg/kg	3247	1.4 J	5.2 U	1500	820	1000	1500
Trichloroethene	µg/kg	30.8	5.6 U	5.2 U	75 U	30000	110000	400000
Vinyl chloride	µg/kg	0.73	5.6 U	5.2 U	2600	740	1000	2200
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
Metals~Total								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
PCBs								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
Pesticides								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>EXT-9-Deep</i>	<i>EXT-9-Deep</i>	<i>EXT-9-Deep</i>	<i>EXT-9-Deep</i>	<i>EXT-9-Deep</i>	<i>EXT-9-Deep</i>		
<i>Sample ID:</i>	S-071513-NH-MW-EXT-9-DEEP-13	S-071613-NH-MW-EXT-9-DEEP-14	S-071613-NH-MW-EXT-9-DEEP-15	S-071613-NH-MW-EXT-9-DEEP-16	S-071713-NH-MW-EXT-9-DEEP-17	S-071713-NH-MW-EXT-9-DEEP-18		
<i>Sample Date:</i>	7/15/2013	7/16/2013	7/16/2013	7/16/2013	7/17/2013	7/17/2013		
<i>Sample Depth:</i>	135.5 ft BGS	145 ft BGS	149 ft BGS	156 ft BGS	165.5 ft BGS	176.5 ft BGS		
<i>elev_MLLW</i>	-116.6	-126.1	-130.1	-137.1	-146.6	-157.6		
<i>elev_NGVD</i>	-122.9	-132.4	-136.4	-143.4	-152.9	-163.9		
Parameters	Units	Cs						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2800	74000	1400 U	73 U	130 U	4.3 U
1,1,2-Trichloroethane	µg/kg	15.2	1300 U	2100 U	1400 U	73 U	130 U	4.3 U
1,1-Dichloroethene	µg/kg	1.13	1900	13000	4600	250	290	4.3 U
Carbon tetrachloride	µg/kg	1.93	1300 U	2100 U	1400 U	73 U	130 U	4.3 U
Chloroform (Trichloromethane)	µg/kg	160	13000	410 J	1400 U	300	36 J	4.3 U
cis-1,2-Dichloroethene	µg/kg	NV	50000	200000	89000	17000	13000	0.31 J
Methylene chloride	µg/kg	475	4300 J	1100 J	510 J	180 J	92 J	8.6 U
Tetrachloroethene	µg/kg	4.88	930000	2500000	1000000	18000	70000	1.2 J
trans-1,2-Dichloroethene	µg/kg	3247	4500	22000	3300	550	700	4.3 U
Trichloroethene	µg/kg	30.8	1600000	3700000	1500000	74000	70000	1.6 J
Vinyl chloride	µg/kg	0.73	1700	1200 J	290 J	130	71 J	0.39 J
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
Metals~Total								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
PCBs								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
Pesticides								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EXT-9-Deep</i>	<i>EXT-9-Deep</i>	<i>EXT-9-Deep</i>	<i>EXT-9-Deep</i>	<i>EXT-9-Int</i>	<i>EXT-9-Int</i>	
<i>Sample ID:</i>		<i>S-071713-NH-MW-EXT-9-DEEP-19</i>	<i>S-071813-NH-MW-EXT-9-DEEP-20</i>	<i>S-071813-NH-MW-EXT-9-DEEP-FD 1</i>	<i>S-071813-NH-MW-EXT-9-DEEP-21</i>	<i>S-082313-KB-EXT9-I-01</i>	<i>S-082313-KB-EXT9-I-02</i>	
<i>Sample Date:</i>		<i>7/17/2013</i>	<i>7/18/2013</i>	<i>7/18/2013</i>	<i>7/18/2013</i>	<i>8/23/2013</i>	<i>8/23/2013</i>	
<i>Sample Depth:</i>		<i>185.5 ft BGS</i>	<i>196.5 ft BGS</i>	<i>196.5 ft BGS</i>	<i>204 ft BGS</i>	<i>138.5 ft BGS</i>	<i>143 ft BGS</i>	
<i>elev_MLLW</i>		<i>-166.6</i>	<i>-177.6</i>	<i>-177.6</i>	<i>-185.1</i>	<i>-119.62</i>	<i>-124.12</i>	
<i>elev_NGVD</i>		<i>-172.9</i>	<i>-183.9</i>	<i>-183.9</i>	<i>-191.4</i>	<i>-125.9</i>	<i>-130.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>	<i>(Duplicate)</i>					
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	4.5 U	4.4 UJ	4.6 U	5.1 U	3100 U	570 U
1,1,2-Trichloroethane	µg/kg	15.2	4.5 U	4.4 UJ	4.6 U	5.1 U	3100 U	570 U
1,1-Dichloroethene	µg/kg	1.13	4.5 U	4.4 UJ	4.6 U	5.1 U	6000	250 J
Carbon tetrachloride	µg/kg	1.93	4.5 U	4.4 UJ	4.6 U	5.1 U	3100 U	570 U
Chloroform (Trichloromethane)	µg/kg	160	4.5 U	4.4 UJ	4.6 U	5.1 U	3100 U	160 J
cis-1,2-Dichloroethene	µg/kg	NV	3.3 J	4.4 UJ	0.98 J	5.1 U	85000	3400
Methylene chloride	µg/kg	475	9.0 U	8.7 UJ	9.1 U	11 U	13000 U	2300 U
Tetrachloroethene	µg/kg	4.88	33	5.5 J	9.6 J	5.1 U	750000	310000
trans-1,2-Dichloroethene	µg/kg	3247	4.5 U	4.4 UJ	4.6 U	5.1 U	7400	180 J
Trichloroethene	µg/kg	30.8	30	5.0 J	8.5 J	5.1 U	1200000	130000
Vinyl chloride	µg/kg	0.73	4.5 U	4.4 UJ	4.6 U	5.1 U	3100 U	570 U
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EXT-9-Int</i>	<i>EXT-9-Shallow</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	
<i>Sample ID:</i>		<i>S-082313-KB-EXT9-I-03</i>	<i>S-082813-KB-EXT-9S-01</i>	<i>S-062813-NH-F-2</i>	<i>S-062813-NH-F-3</i>	<i>S-062813-NH-F-4</i>	<i>S-062813-NH-F-5</i>	<i>S-062813-NH-F-6</i>	<i>S-070113-NH-F-7</i>	<i>S-070113-NH-F-8</i>	<i>S-070113-NH-F-9</i>	
<i>Sample Date:</i>		<i>8/23/2013</i>	<i>8/28/2013</i>	<i>6/28/2013</i>	<i>6/28/2013</i>	<i>6/28/2013</i>	<i>6/28/2013</i>	<i>6/28/2013</i>	<i>7/1/2013</i>	<i>7/1/2013</i>	<i>7/1/2013</i>	
<i>Sample Depth:</i>		<i>153 ft BGS</i>	<i>122 ft BGS</i>	<i>16 ft BGS</i>	<i>26 ft BGS</i>	<i>34 ft BGS</i>	<i>42 ft BGS</i>	<i>54 ft BGS</i>	<i>64.5 ft BGS</i>	<i>73 ft BGS</i>	<i>82.5 ft BGS</i>	
<i>elev_MLLW</i>		<i>-134.12</i>	<i>-103.09</i>	<i>1.49</i>	<i>-8.51</i>	<i>-16.51</i>	<i>-24.51</i>	<i>-36.51</i>	<i>-47.01</i>	<i>-55.51</i>	<i>-65.01</i>	
<i>elev_NGVD</i>		<i>-140.4</i>	<i>-109.4</i>	<i>-4.8</i>	<i>-14.8</i>	<i>-22.8</i>	<i>-30.8</i>	<i>-42.8</i>	<i>-53.3</i>	<i>-61.8</i>	<i>-71.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>										
<i>Volatile Organic Compounds</i>												
1,1,2,2-Tetrachloroethane	µg/kg	4.02	340 U	1800	5.5 U	5.8 U	6.2 U	6.0 U	21 U	5.7 U	4.8 U	4.2 U
1,1,2-Trichloroethane	µg/kg	15.2	340 U	380 U	5.5 U	5.8 U	6.2 U	6.0 U	21 U	5.7 U	4.8 U	4.2 U
1,1-Dichloroethene	µg/kg	1.13	360	89 J	5.5 U	5.8 U	6.2 U	6.0 U	21 U	5.7 U	4.8 U	4.2 U
Carbon tetrachloride	µg/kg	1.93	340 U	380 U	5.5 U	5.8 U	6.2 U	6.0 U	21 U	5.7 U	4.8 U	4.2 U
Chloroform (Trichloromethane)	µg/kg	160	94 J	13000	5.5 U	5.8 U	6.2 U	6.0 U	21 U	5.7 U	4.8 U	4.2 U
cis-1,2-Dichloroethene	µg/kg	NV	23000	21000	5.5 U	5.8 U	6.2 U	6.0 U	21 U	5.7 U	4.8 U	4.2 U
Methylene chloride	µg/kg	475	1400 U	1500 U	11 U	12 U	13 U	12 U	41 U	12 U	9.6 U	8.4 U
Tetrachloroethene	µg/kg	4.88	36000	72000	5.5 U	5.8 U	6.2 U	6.0 U	21 U	5.7 U	4.8 U	4.2 U
trans-1,2-Dichloroethene	µg/kg	3247	760	750	5.5 U	5.8 U	6.2 U	6.0 U	21 U	5.7 U	4.8 U	4.2 U
Trichloroethene	µg/kg	30.8	100000	270000	5.5 U	5.8 U	6.2 U	6.0 U	21 U	5.7 U	4.8 U	4.2 U
Vinyl chloride	µg/kg	0.73	340 U	130 J	5.5 U	5.8 U	6.2 U	6.0 U	21 U	5.7 U	4.8 U	4.2 U
<i>Semi-volatile Organic Compounds</i>												
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	-
<i>Metals~Total</i>												
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-
<i>PCBs</i>												
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>												
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	
<i>Sample ID:</i>		S-070213-NH-F-10	S-070213-NH-F-11	S-070213-NH-F-12	S-070313-NH-F-13	S-070313-NH-F-14	S-070813-NH-MW-F-DEEP-15	S-070813-NH-MW-F-DEEP-FD 1	S-070813-NH-MW-F-DEEP-16	
<i>Sample Date:</i>		7/2/2013	7/2/2013	7/2/2013	7/3/2013	7/3/2013	7/8/2013	7/8/2013	7/8/2013	
<i>Sample Depth:</i>		91 ft BGS	101 ft BGS	110.5 ft BGS	124 ft BGS	132 ft BGS	140.5 ft BGS	140.5 ft BGS	151.5 ft BGS	
<i>elev_MLLW</i>		-73.51	-83.51	-93.01	-106.51	-114.51	-123.01	-123.01	-134.01	
<i>elev_NGVD</i>		-79.8	-89.8	-99.3	-112.8	-120.8	-129.3	-129.3	-140.3	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						(Duplicate)		
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.5 U	4.7 U	5.2 U	5.2 U	4.7 U	5.1 U	6.0 U	5.2 U
1,1,2-Trichloroethane	µg/kg	15.2	5.5 U	4.7 U	5.2 U	5.2 U	4.7 U	5.1 U	6.0 U	5.2 U
1,1-Dichloroethene	µg/kg	1.13	5.5 U	4.7 U	5.2 U	5.2 U	4.7 U	5.1 U	6.0 U	5.2 U
Carbon tetrachloride	µg/kg	1.93	5.5 U	4.7 U	5.2 U	5.2 U	4.7 U	5.1 U	6.0 U	5.2 U
Chloroform (Trichloromethane)	µg/kg	160	5.5 U	1.7 J	1.1 J	0.72 J	0.51 J	5.1 U	6.0 U	5.2 U
cis-1,2-Dichloroethene	µg/kg	NV	5.5 U	4.7 U	5.2 U	5.2 U	1.9 J	1.0 J	0.92 J	2.2 J
Methylene chloride	µg/kg	475	11 U	9.4 U	11 U	11 U	9.3 U	11 U	12 U	11 U
Tetrachloroethene	µg/kg	4.88	5.5 U	4.7 U	2.7 J	0.82 J	4.3 J	1.6 J	1.7 J	1.2 J
trans-1,2-Dichloroethene	µg/kg	3247	5.5 U	4.7 U	5.2 U	5.2 U	4.7 U	5.1 U	6.0 U	5.2 U
Trichloroethene	µg/kg	30.8	5.5 U	4.7 U	1.1 J	0.43 J	1.7 J	0.86 J	0.90 J	0.51 J
Vinyl chloride	µg/kg	0.73	5.5 U	4.7 U	5.2 U	5.2 U	220	410 J	940 J	550 J
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:			F-Deep	F-Deep	F-Int	F-Shallow-New	F-Shallow-Old	G	G
Sample ID:			S-070813-NH-MW-F-DEEP-17	S-070913-NH-MW-F-DEEP-19	S-081513-KB-F-INT-01	S-093013-NH-F-Shallow-R	S-081913-MD-F-SHALLOW-1	S-072213-NH-MW-G-DEEP-2	S-072213-NH-MW-G-DEEP-3
Sample Date:			7/8/2013	7/9/2013	8/15/2013	9/30/2013	8/19/2013	7/22/2013	7/22/2013
Sample Depth:			164.5 ft BGS	179.5 ft BGS	140 ft BGS	96.5 ft BGS	95 ft BGS	16 ft BGS	30 ft BGS
elev_MLLW			-147.01	-162.01	-122.53	-78.98	-77.48	0.7	-13.3
elev_NGVD			-153.3	-168.3	-128.8	-85.3	-83.8	-5.6	-19.6
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6.0 U	5.0 U	6.7 U	4.1 U	6.0 U	3.0 U	4.4 U
1,1,2-Trichloroethane	µg/kg	15.2	6.0 U	5.0 U	6.7 U	4.1 U	6.0 U	3.0 U	4.4 U
1,1-Dichloroethene	µg/kg	1.13	1.2 J	1.7 J	6.7 U	4.1 U	6.0 U	3.0 U	4.4 U
Carbon tetrachloride	µg/kg	1.93	6.0 U	5.0 U	6.7 U	4.1 U	6.0 U	3.0 U	4.4 U
Chloroform (Trichloromethane)	µg/kg	160	6.0 U	0.21 J	6.7 U	4.1 U	6.0 U	3.0 U	4.4 U
cis-1,2-Dichloroethene	µg/kg	NV	0.70 J	1.5 J	6.7 U	4.1 U	6.0 U	3.0 U	4.4 U
Methylene chloride	µg/kg	475	12 U	10 U	14 U	1.7 J	12 U	6.0 U	8.7 U
Tetrachloroethene	µg/kg	4.88	1.4 J	16	6.7 U	4.1 U	1.2 J	3.0 U	4.4 U
trans-1,2-Dichloroethene	µg/kg	3247	6.0 U	5.0 U	6.7 U	4.1 U	6.0 U	3.0 U	4.4 U
Trichloroethene	µg/kg	30.8	35	120	0.69 J	4.1 U	0.63 J	3.0 U	4.4 U
Vinyl chloride	µg/kg	0.73	1.1 J	15	230	4.1 U	6.0 U	3.0 U	4.4 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		G	G	G	G	G	G	G	
Sample ID:		S-072313-NH-MW-G-DEEP-4	S-072313-NH-MW-G-DEEP-5	S-072313-NH-MW-G-DEEP-6	S-072313-NH-MW-G-DEEP-7	S-072413-NH-MW-G-DEEP-8	S-072413-NH-MW-G-DEEP-9	S-072413-NH-MW-G-DEEP-10	
Sample Date:		7/23/2013	7/23/2013	7/23/2013	7/23/2013	7/24/2013	7/24/2013	7/24/2013	
Sample Depth:		39.5 ft BGS	49 ft BGS	54.5 ft BGS	59.5 ft BGS	65 ft BGS	70 ft BGS	79.5 ft BGS	
elev_MLLW		-22.8	-32.3	-37.8	-42.8	-48.3	-53.3	-62.8	
elev_NGVD		-29.1	-38.6	-44.1	-49.1	-54.6	-59.6	-69.1	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	4.3 U	7.2 U	5.9 U	5.0 U	5.5 U	5.1 U	5.2 U
1,1,2-Trichloroethane	µg/kg	15.2	4.3 U	7.2 U	5.9 U	5.0 U	5.5 U	5.1 U	5.2 U
1,1-Dichloroethene	µg/kg	1.13	4.3 U	7.2 U	5.9 U	5.0 U	5.5 U	5.1 U	5.2 U
Carbon tetrachloride	µg/kg	1.93	4.3 U	7.2 U	5.9 U	5.0 U	5.5 U	5.1 U	5.2 U
Chloroform (Trichloromethane)	µg/kg	160	4.3 U	7.2 U	5.9 U	5.0 U	5.5 U	5.1 U	5.2 U
cis-1,2-Dichloroethene	µg/kg	NV	4.3 U	7.2 U	5.9 U	5.0 U	5.5 U	5.1 U	5.2 U
Methylene chloride	µg/kg	475	8.6 U	15 U	12 U	10 U	11 U	11 U	11 U
Tetrachloroethene	µg/kg	4.88	4.3 U	7.2 U	5.9 U	5.0 U	5.5 U	5.1 U	5.2 U
trans-1,2-Dichloroethene	µg/kg	3247	4.3 U	7.2 U	5.9 U	5.0 U	5.5 U	5.1 U	5.2 U
Trichloroethene	µg/kg	30.8	4.3 U	7.2 U	5.9 U	5.0 U	5.5 U	5.1 U	5.2 U
Vinyl chloride	µg/kg	0.73	4.3 U	7.2 U	5.9 U	5.0 U	5.5 U	5.1 U	5.2 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:								
Sample ID:		G	G	G	G	G	G	G
Sample Date:		S-072413-NH-MW-G-DEEP-11	S-072413-NH-MW-G-DEEP-12	S-072413-NH-MW-G-DEEP-13	S-072513-NH-MW-G-DEEP-14	S-072513-NH-MW-G-DEEP-15	S-072513-NH-MW-G-DEEP-16	
Sample Depth:		7/24/2013	7/24/2013	7/24/2013	7/25/2013	7/25/2013	7/25/2013	
elev_MLLW		89.5 ft BGS	94 ft BGS	100 ft BGS	101.5 ft BGS	109.5 ft BGS	116.5 ft BGS	
elev_NGVD		-72.8	-77.3	-83.3	-84.8	-92.8	-99.8	
		-79.1	-83.6	-89.6	-91.1	-99.1	-106.1	
Parameters	Units	Cs						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.0 U	4.0 U	5.8 U	5.2 U	5.7 U	5.2 U
1,1,2-Trichloroethane	µg/kg	15.2	5.0 U	4.0 U	5.8 U	5.2 U	5.7 U	5.2 U
1,1-Dichloroethene	µg/kg	1.13	5.0 U	4.0 U	5.8 U	5.2 U	5.7 U	5.2 U
Carbon tetrachloride	µg/kg	1.93	5.0 U	4.0 U	5.8 U	5.2 U	5.7 U	5.2 U
Chloroform (Trichloromethane)	µg/kg	160	5.0 U	4.0 U	5.8 U	1.1 J	5.7 U	5.2 U
cis-1,2-Dichloroethene	µg/kg	NV	5.0 U	4.0 U	5.8 U	5.2 U	5.7 U	5.2 U
Methylene chloride	µg/kg	475	9.9 U	8.0 U	12 U	11 U	12 U	11 U
Tetrachloroethene	µg/kg	4.88	5.0 U	4.0 U	5.8 U	0.24 J	5.7 U	5.2 U
trans-1,2-Dichloroethene	µg/kg	3247	5.0 U	4.0 U	5.8 U	5.2 U	5.7 U	5.2 U
Trichloroethene	µg/kg	30.8	5.0 U	4.0 U	5.8 U	5.2 U	5.7 U	5.2 U
Vinyl chloride	µg/kg	0.73	5.0 U	4.0 U	5.8 U	5.2 U	5.7 U	5.2 U
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
Metals~Total								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
PCBs								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
Pesticides								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		G		G		G		G		G	
Sample ID:		S-072513-NH-MW-G-DEEP-17		S-062613-NH-MW-G-DEEP-18		S-062613-NH-MW-G-DEEP-FD1		S-062613-NH-MW-G-DEEP-19		S-073013-KB-MW-G-DEEP-23 S-073013-KB-MW-G-DEEP-24	
Sample Date:		7/25/2013		7/26/2013		7/26/2013		7/26/2013		7/30/2013	
Sample Depth:		126 ft BGS		136.5 ft BGS		136.5 ft BGS		145.5 ft BGS		182 ft BGS	
elev_MLLW		-109.3		-119.8		-119.8		-128.8		-165.3	
elev_NGVD		-115.6		-126.1		-126.1		-135.1		-171.6	
Parameters		Units	Cs	(Duplicate)							
Volatile Organic Compounds											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.3 U	5.7 U	5.3 U	5.2 U	6.4 U	5.1 U			
1,1,2-Trichloroethane	µg/kg	15.2	5.3 U	5.7 U	5.3 U	5.2 U	6.4 U	5.1 U			
1,1-Dichloroethene	µg/kg	1.13	5.3 U	5.7 U	5.3 U	37	6.4 U	5.1 U			
Carbon tetrachloride	µg/kg	1.93	5.3 U	5.7 U	5.3 U	5.2 U	6.4 U	5.1 U			
Chloroform (Trichloromethane)	µg/kg	160	5.3 U	5.7 U	5.3 U	5.2 U	6.4 U	5.1 U			
cis-1,2-Dichloroethene	µg/kg	NV	5.3 U	22	26	26000	86	52			
Methylene chloride	µg/kg	475	11 U	12 U	11 U	8300	34	19			
Tetrachloroethene	µg/kg	4.88	5.3 U	5.7 U	5.3 U	1.8 J	6.4 U	5.1 U			
trans-1,2-Dichloroethene	µg/kg	3247	5.3 U	1.7 J	2.1 J	1100	3.9 J	2.0 J			
Trichloroethene	µg/kg	30.8	5.3 U	5.7 U	5.3 U	4400	2.6 J	1.9 J			
Vinyl chloride	µg/kg	0.73	5.3 U	1200 J	2000 J	1200	12	14			
Semi-volatile Organic Compounds											
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-			
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-			
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-			
Metals~Total											
Arsenic	µg/kg	146	-	-	-	-	-	-			
Chromium	µg/kg	714	-	-	-	-	-	-			
Copper	µg/kg	53.5	-	-	-	-	-	-			
Lead	µg/kg	81002	-	-	-	-	-	-			
Mercury	µg/kg	1.31	-	-	-	-	-	-			
Nickel	µg/kg	535	-	-	-	-	-	-			
Thallium	µg/kg	34	-	-	-	-	-	-			
Zinc	µg/kg	5045	-	-	-	-	-	-			
PCBs											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-			
Pesticides											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-			
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-			
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-			

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		G	G	G	G-Int	G-Shallow	H-01	H-01	
Sample ID:		S-073013-KB-MW-G-DEEP-25	S-073113-KB-MW-G-DEEP-26	S-073113-KB-MW-G-DEEP-27	S-082013-KB-G-INTER-01	S-082113-KB-G-SHALLOW-01	S-061813-MD-H-01-2	S-061813-MD-H-01-3	
Sample Date:		7/30/2013	7/31/2013	7/31/2013	8/20/2013	8/21/2013	6/18/2013	6/18/2013	
Sample Depth:		203 ft BGS	215 ft BGS	221.5 ft BGS	170.5 ft BGS	141.5 ft BGS	30 ft BGS	40 ft BGS	
elev_MLLW		-186.3	-198.3	-204.8	-153.79	-124.81	-12.27	-22.27	
elev_NGVD		-192.6	-204.6	-211.1	-160.1	-131.1	-18.6	-28.6	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	4.9 U	56 U	3.9 U	6.0 U	75 U	5.6 U	5.8 U
1,1,2-Trichloroethane	µg/kg	15.2	4.9 U	56 U	3.9 U	6.0 U	75 U	5.6 U	5.8 U
1,1-Dichloroethene	µg/kg	1.13	4.9 U	56 U	3.9 U	6.0 U	75 U	5.6 U	5.8 U
Carbon tetrachloride	µg/kg	1.93	4.9 U	56 U	3.9 U	6.0 U	75 U	5.6 U	5.8 U
Chloroform (Trichloromethane)	µg/kg	160	4.9 U	12 J	3.9 U	6.0 U	24 J	5.6 U	5.8 U
cis-1,2-Dichloroethene	µg/kg	NV	11	410	7.1	6.0 U	570	3.1 J	5.8 U
Methylene chloride	µg/kg	475	9.7 U	130 J	9.7 U	12 U	34 J	12 U	12 U
Tetrachloroethene	µg/kg	4.88	4.9 U	15 J	3.9 U	0.88 J	75 U	5.6 U	5.8 U
trans-1,2-Dichloroethene	µg/kg	3247	0.53 J	15 J	3.9 U	6.0 U	30 J	5.6 U	5.8 U
Trichloroethene	µg/kg	30.8	2.0 J	95	0.63 J	0.57 J	36 J	5.6 U	5.8 U
Vinyl chloride	µg/kg	0.73	1.2 J	13 J	2.3 J	6.0 U	400	5.5 J	5.8 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>H-01</i>	<i>H-01</i>	<i>H-01</i>	<i>H-01</i>	<i>H-01</i>	<i>H-01</i>	<i>H-01</i>	<i>H-01</i>	<i>H-01</i>	
<i>Sample ID:</i>		<i>S-061813-MD-H-01-4</i>	<i>S-061913-MD-H-01-5</i>	<i>S-061913-MD-H-01-6</i>	<i>S-061913-MD-H-01-7</i>	<i>S-061913-MD-H-01-8</i>	<i>S-061913-MD-MW-FD-1</i>	<i>S-062013-MD-H-01-9</i>	<i>S-062013-MD-H-01-10</i>	<i>S-062013-MD-H-01-11</i>	
<i>Sample Date:</i>		<i>6/18/2013</i>	<i>6/19/2013</i>	<i>6/19/2013</i>	<i>6/19/2013</i>	<i>6/19/2013</i>	<i>6/19/2013</i>	<i>6/20/2013</i>	<i>6/20/2013</i>	<i>6/20/2013</i>	
<i>Sample Depth:</i>		<i>50 ft BGS</i>	<i>60 ft BGS</i>	<i>70 ft BGS</i>	<i>78.5 ft BGS</i>	<i>89 ft BGS</i>	<i>89 ft BGS</i>	<i>98 ft BGS</i>	<i>110 ft BGS</i>	<i>114.5 ft BGS</i>	
<i>elev_MLLW</i>		<i>-32.27</i>	<i>-42.27</i>	<i>-52.27</i>	<i>-60.77</i>	<i>-71.27</i>	<i>-71.27</i>	<i>-80.27</i>	<i>-92.27</i>	<i>-96.77</i>	
<i>elev_NGVD</i>		<i>-38.6</i>	<i>-48.6</i>	<i>-58.6</i>	<i>-67.1</i>	<i>-77.6</i>	<i>-77.6</i>	<i>-86.6</i>	<i>-98.6</i>	<i>-103.1</i>	
							<i>(Duplicate)</i>				
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>									
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.9 U	5.7 U	5.6 U	5.4 U	5.1 U	5.2 U	5.3 U	64 U	67 U
1,1,2-Trichloroethane	µg/kg	15.2	5.9 U	5.7 U	5.6 U	5.4 U	5.1 U	5.2 U	5.3 U	64 U	67 U
1,1-Dichloroethene	µg/kg	1.13	5.9 U	5.7 U	5.6 U	5.4 U	5.1 U	5.2 U	5.3 U	69	19 J
Carbon tetrachloride	µg/kg	1.93	5.9 U	5.7 U	5.6 U	5.4 U	5.1 U	5.2 U	5.3 U	64 U	67 U
Chloroform (Trichloromethane)	µg/kg	160	5.9 U	5.7 U	5.6 U	5.4 U	5.1 U	5.2 U	0.25 J	20 J	21 J
cis-1,2-Dichloroethene	µg/kg	NV	5.9 U	5.7 U	5.6 U	5.4 U	5.1 U	5.2 U	0.67 J	21000	4600
Methylene chloride	µg/kg	475	12 U	12 U	12 U	11 U	11 U	11 U	11 U	260 U	270 U
Tetrachloroethene	µg/kg	4.88	5.9 U	5.7 U	5.6 U	5.4 U	5.1 U	5.2 U	5.3 U	64 U	67 U
trans-1,2-Dichloroethene	µg/kg	3247	5.9 U	5.7 U	5.6 U	5.4 U	5.1 U	5.2 U	1.6 J	820	350
Trichloroethene	µg/kg	30.8	5.9 U	5.7 U	5.6 U	5.4 U	5.1 U	5.2 U	5.3 U	47 J	28 J
Vinyl chloride	µg/kg	0.73	5.9 U	5.7 U	5.6 U	5.4 U	5.1 U	5.2 U	1.3 J	4100	4200
<i>Semi-volatile Organic Compounds</i>											
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-
<i>Metals~Total</i>											
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-
<i>PCBs</i>											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>H-01</i>	<i>H-01</i>	<i>H-01</i>	<i>H-01</i>	<i>H-01</i>	<i>H-01</i>	<i>H-01</i>	<i>H-01</i>	
<i>Sample ID:</i>		<i>S-062113-MD-H-01-12</i>	<i>S-062113-MD-H-01-13</i>	<i>S-062113-MD-H-01-14</i>	<i>S-062113-MD-H-01-15</i>	<i>S-062413-NH-MW-H-01-16</i>	<i>S-062513-NH-H-01-17</i>	<i>S-062513-NH-H-01-18</i>	<i>S-062613-NH-H-01-19</i>	
<i>Sample Date:</i>		6/21/2013	6/21/2013	6/21/2013	6/21/2013	6/24/2013	6/25/2013	6/25/2013	6/26/2013	
<i>Sample Depth:</i>		120 ft BGS	129.5 ft BGS	132 ft BGS	139 ft BGS	140.5 ft BGS	145.5 ft BGS	160 ft BGS	166 ft BGS	
<i>elev_MLLW</i>		-102.27	-111.77	-114.27	-121.27	-122.77	-127.77	-142.27	-148.27	
<i>elev_NGVD</i>		-108.6	-118.1	-120.6	-127.6	-129.1	-134.1	-148.6	-154.6	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.3 U	240 U	68 U	61 U	14000	8300	650	2000
1,1,2-Trichloroethane	µg/kg	15.2	5.3 U	1000	150	50 J	2000 U	3300 U	640 U	1500 U
1,1-Dichloroethene	µg/kg	1.13	2.9 J	900	160	180	5500	7100	1700	710 J
Carbon tetrachloride	µg/kg	1.93	5.3 U	240 U	68 U	61 U	2000 U	3300 U	640 U	1500 U
Chloroform (Trichloromethane)	µg/kg	160	0.92 J	5200	780	110	820 J	1100 J	190 J	400 J
cis-1,2-Dichloroethene	µg/kg	NV	2100	150000	27000	24000	48000	55000	70000	7900
Methylene chloride	µg/kg	475	11 U	5600	1600	250 U	860 J	1500 J	320 J	600 J
Tetrachloroethene	µg/kg	4.88	1.4 J	180 J	42 J	61 U	1400000	2800000	340000	310000
trans-1,2-Dichloroethene	µg/kg	3247	67	12000	1400	1200	6400	8600	2600	1100 J
Trichloroethene	µg/kg	30.8	1.9 J	79000	15000	920	3200000	4900000	750000	630000
Vinyl chloride	µg/kg	0.73	2700	7300	1600	7600	1100 J	2000 J	5900	260 J
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>H-01</i>	<i>H-01</i>	<i>HC08-EP18</i>	<i>HC-N11-TP-1-2</i>	<i>HC-N11-TP-3-2</i>	<i>HC-N12342526-TP-1-2</i>	<i>HC-N12342526-TP-2-2</i>	<i>HC-N12342526-TP-3-2</i>	<i>HC-N12342526-TP-4-2</i>	
<i>Sample ID:</i>		<i>S-062613-NH-H-01-20</i>	<i>S-062713-NH-MW-H-01-21</i>	<i>HC08-EP18-S3</i>	<i>HC-N11-TP-1-2</i>	<i>HC-N11-TP-3-2</i>	<i>HC-N12342526-TP-1-2</i>	<i>HC-N12342526-TP-2-2</i>	<i>HC-N12342526-TP-3-2</i>	<i>HC-N12342526-TP-4-2</i>	
<i>Sample Date:</i>		<i>6/26/2013</i>	<i>6/27/2013</i>	<i>10/24/2008</i>	<i>9/26/2011</i>	<i>9/26/2011</i>	<i>9/29/2011</i>	<i>9/29/2011</i>	<i>9/29/2011</i>	<i>9/28/2011</i>	
<i>Sample Depth:</i>		<i>176 ft BGS</i>	<i>180.5 ft BGS</i>	<i>8 to 9.5 ft BGS</i>	<i>8.5 to 9.5 ft BGS</i>	<i>8 to 9 ft BGS</i>	<i>8.5 to 9.5 ft BGS</i>	<i>8.5 to 9.5 ft BGS</i>	<i>8.5 to 9.5 ft BGS</i>	<i>8.5 to 9.5 ft BGS</i>	
<i>elev_MLLW</i>		<i>-158.27</i>	<i>-162.77</i>		<i>9 to 8</i>	<i>9.5 to 8.5</i>	<i>9 to 8</i>	<i>9 to 8</i>	<i>9 to 8</i>	<i>9 to 8</i>	
<i>elev_NGVD</i>		<i>-164.6</i>	<i>-169.1</i>		<i>2.7 to 1.7</i>	<i>3.2 to 2.2</i>	<i>2.7 to 1.7</i>	<i>2.7 to 1.7</i>	<i>2.7 to 1.7</i>	<i>2.7 to 1.7</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>									
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	0.32 J	61 U	1300 U	140 U	1.4 U	1.3 U	1.4 U	1.3 U	1.1 U
1,1,2-Trichloroethane	µg/kg	15.2	5.3 U	61 U	1300 U	140 U	1.4 U	1.3 U	1.4 U	1.3 U	1.1 U
1,1-Dichloroethene	µg/kg	1.13	34	12 J	1300 U	140 U	1.4 U	1.3 U	1.4 U	1.3 U	1.1 U
Carbon tetrachloride	µg/kg	1.93	4.4 U	61 U	1300 U	140 U	1.4 U	1.3 U	1.4 U	1.3 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	2.2 J	61 U	1300 U	140 U	1.4 U	1.3 U	1.4 U	1.3 U	1.1 U
cis-1,2-Dichloroethene	µg/kg	NV	110	380	1300 U	140 U	1.4 U	1.3 U	1.4 U	1.3 U	1.1 U
Methylene chloride	µg/kg	475	8.7 U	22 J	2600 U	720 U	6.9 U	6.4 U	6.8 U	6.4 U	5.6 U
Tetrachloroethene	µg/kg	4.88	420	7800	1300 U	140 U	1.4 U	1.3 U	1.4 U	3.3	1.1 U
trans-1,2-Dichloroethene	µg/kg	3247	55	22 J	1300 U	140 U	1.4 U	1.3 U	1.4 U	1.3 U	1.1 U
Trichloroethene	µg/kg	30.8	670	5100	1300 U	140 U	1.4 U	1.3 U	1.4 U	1.3 U	1.1 U
Vinyl chloride	µg/kg	0.73	8.7 J	150	1300 U	140 U	1.4 U	1.3 U	1.4 U	1.3 U	1.1 U
<i>Semi-volatile Organic Compounds</i>											
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	6600 U	720 U	6.9 U	6.4 U	6.8 U	6.4 U	5.6 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-
<i>Metals~Total</i>											
Arsenic	µg/kg	146	-	-	6000 U	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	17700	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	13000	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	59000	9700	6700 U	6800 U	6900 U	16000	5900 U
Mercury	µg/kg	1.31	-	-	60 U	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	9000	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	46000	-	-	-	-	-	-
<i>PCBs</i>											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HC-N12342526-TP-5-2</i>	<i>HC-N6-1</i>	<i>HC-N6-2</i>	<i>HC-N6-3</i>	<i>HC-N6-4</i>	<i>TP-2-93</i>	<i>TP-2-93</i>	<i>TP-2-93</i>	<i>TP-3-93</i>	<i>TP-3-93</i>	
<i>Sample ID:</i>		<i>HC-N12342526-TP-5-2</i>	<i>HC-N6-1-S3</i>	<i>HC-N6-2-S3</i>	<i>HC-N6-3-S3</i>	<i>HC-N6-4-S3</i>	<i>TP2-S2-93</i>	<i>TP-2/S-3(9312-142-2)</i>	<i>TP2-S3-93</i>	<i>TP-3/S-3(9312-142-5)</i>	<i>TP3-S3-93</i>	
<i>Sample Date:</i>		9/28/2011	9/22/2010	9/22/2010	9/22/2010	9/22/2010	12/8/1993	12/8/1993	12/8/1993	12/8/1993	12/8/1993	
<i>Sample Depth:</i>		8.5 to 9.5 ft BGS	9.5 to 12 ft BGS	9 to 12 ft BGS	10 to 12 ft BGS	9 to 12 ft BGS	4 to 4.5 ft bgs	6.5 to 7 ft BGS	6.5 to 7 ft bgs	6 to 6.5 ft BGS	6 to 6.5 ft bgs	
<i>elev_MLLW</i>		9 to 8	7.5 to 5	8 to 5	7 to 5	8 to 5	14.92 to 14.42	12.42 to 11.92	12.42 to 11.92	12.92 to 12.42	12.92 to 12.42	
<i>elev_NGVD</i>		2.7 to 1.7	1.2 to -1.3	1.7 to -1.3	0.7 to -1.3	1.7 to -1.3	8.6 to 8.1	6.1 to 5.6	6.1 to 5.6	6.6 to 6.1	6.6 to 6.1	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>										
Volatile Organic Compounds												
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.1 U	1.3 U	1.3 U	1.2 U	1.3 U	-	62 U	-	62 U	-
1,1,2-Trichloroethane	µg/kg	15.2	1.1 U	1.3 U	1.3 U	1.2 U	1.3 U	-	62 U	-	62 U	-
1,1-Dichloroethene	µg/kg	1.13	1.1 U	1.3 U	1.3 U	1.2 U	1.3 U	-	62 U	-	62 U	-
Carbon tetrachloride	µg/kg	1.93	1.1 U	1.3 U	1.3 U	1.2 U	1.3 U	79	62 U	62 U	62 U	62 U
Chloroform (Trichloromethane)	µg/kg	160	1.1 U	1.3 U	1.3 U	1.2 U	1.3 U	2200	62 U	62 U	930	930
cis-1,2-Dichloroethene	µg/kg	NV	3.5	4.3	38	1.2 U	1.3 U	-	-	-	-	-
Methylene chloride	µg/kg	475	5.7 U	6.3 U	6.5 U	5.8 U	6.3 U	260 U	310 U	310 U	310 U	310 U
Tetrachloroethene	µg/kg	4.88	1.1 U	180	1500	140	74	1100	62 U	62 U	1200	1200
trans-1,2-Dichloroethene	µg/kg	3247	1.1 U	1.3 U	1.3 U	1.2 U	1.3 U	-	62 U	-	-	-
Trichloroethene	µg/kg	30.8	1.1 U	11	190	11	8.5	53 U	62 U	62 U	64	64
Vinyl chloride	µg/kg	0.73	1.1 U	1.3 U	1.3 U	1.2 U	1.3 U	-	62 U	-	62 U	-
Semi-volatile Organic Compounds												
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	430	210 U	210 U	1400	1400
Hexachlorobutadiene	µg/kg	0.702	5.7 U	6.3 U	6.5 U	5.8 U	6.3 U	890	210 U	210 U	1700	1700
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	140 J	210 U	210 U	970 J	970 J
Metals~Total												
Arsenic	µg/kg	146	-	-	-	-	-	570	1500	1500	16000	16000
Chromium	µg/kg	714	-	-	-	-	-	16000	4600	4600	86000	86000
Copper	µg/kg	53.5	-	-	-	-	-	570000	8000	8000	1200000	1000000
Lead	µg/kg	81002	11000	-	-	-	-	28000000	240000 D3	240000	1500000 D3	1500000
Mercury	µg/kg	1.31	-	-	-	-	-	100 U	120 U	120 U	270	270
Nickel	µg/kg	535	-	-	-	-	-	15000	5100	5100	200000	200000
Thallium	µg/kg	34	-	-	-	-	-	-	300 U	-	1500 U	-
Zinc	µg/kg	5045	-	-	-	-	-	180000	12000	12000	570000	570000
PCBs												
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	41 U	-	4100 UJ	-
Pesticides												
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>TP-3-93</i>	<i>TP-4-93</i>	<i>TP-4-93</i>	<i>TP-4-93</i>	<i>TP-7-93</i>	<i>TP-7-93</i>	<i>TP-7-93</i>	<i>TP-7-93</i>	<i>TP-7-93</i>	<i>TP-7-93</i>
<i>Sample ID:</i>		<i>TP3-GU-93</i>	<i>TP4-S2-93</i>	<i>TP-4/S-3(9312-142-7)</i>	<i>Unknown</i>	<i>TP-7/S-3(9312-142-8)</i>	<i>Unknown</i>	<i>TP-7/S-3-Split(508156)</i>	<i>TP7-S3-93</i>	<i>Unknown</i>	<i>TP7-S3-93</i>
<i>Sample Date:</i>		<i>12/8/1993</i>	<i>12/8/1993</i>	<i>12/8/1993</i>	<i>12/8/1993</i>	<i>12/9/1993</i>	<i>12/8/1993</i>	<i>12/8/1993</i>	<i>12/8/1993</i>	<i>12/8/1993</i>	<i>12/9/1993</i>
<i>Sample Depth:</i>			<i>4 to 4.5 ft bgs</i>	<i>6 to 6.5 ft BGS</i>	<i>6 to 6.5 ft bgs</i>	<i>9 to 9.5 ft BGS</i>	<i>9.5 to 10 ft bgs</i>	<i>9.5 to 10 ft BGS</i>	<i>9.5 to 10 ft bgs</i>	<i>9.5 to 10 ft bgs</i>	<i>9.5 to 10 ft bgs</i>
<i>elev_MLLW</i>			<i>14.92 to 14.42</i>	<i>12.92 to 12.42</i>	<i>12.92 to 12.42</i>	<i>9.92 to 9.42</i>	<i>9.42 to 8.92</i>	<i>9.42 to 8.92</i>	<i>9.42 to 8.92</i>	<i>9.42 to 8.92</i>	<i>9.42 to 8.92</i>
<i>elev_NGVD</i>			<i>8.6 to 8.1</i>	<i>6.6 to 6.1</i>	<i>6.6 to 6.1</i>	<i>3.6 to 3.1</i>	<i>3.1 to 2.6</i>	<i>3.1 to 2.6</i>	<i>3.1 to 2.6</i>	<i>3.1 to 2.6</i>	<i>3.1 to 2.6</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						<i>(Duplicate)</i>	<i>(Duplicate)</i>	<i>(Duplicate)</i>	
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	58 U	-	56 U	-	1.3 U	-	-
1,1,2-Trichloroethane	µg/kg	15.2	-	-	58 U	-	56 U	-	1.3 U	-	-
1,1-Dichloroethene	µg/kg	1.13	-	-	58 U	-	56 U	-	1.3 U	-	-
Carbon tetrachloride	µg/kg	1.93	3 U	-	58 U	58 U	320	320	1.3 U	13 U	-
Chloroform (Trichloromethane)	µg/kg	160	10	-	63	63	4500	4500	9.1	-	9.1
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	1.3 U	-	-
Methylene chloride	µg/kg	475	1.1	-	180 J	180 J	190 J	190 J	2.8	-	2.8
Tetrachloroethene	µg/kg	4.88	27	-	58 U	58 U	4800	4800	180	-	180
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	1.3 U	-	-
Trichloroethene	µg/kg	30.8	3 U	-	58 U	58 U	510	510	5.9	-	5.9
Vinyl chloride	µg/kg	0.73	-	-	58 U	-	56 U	-	2.6 U	-	-
<i>Semi-volatile Organic Compounds</i>											
Hexachlorobenzene	µg/kg	0.062	-	-	190 U	190 U	410 J	410 J	-	-	-
Hexachlorobutadiene	µg/kg	0.702	8.5	-	190 U	190 U	780	780	13	-	13
Pentachlorophenol	µg/kg	6.94	-	-	190 U	190 U	750 U	750 U	-	-	-
<i>Metals~Total</i>											
Arsenic	µg/kg	146	-	-			1500	1500	3500	3500	-
Chromium	µg/kg	714	-	-			6900	6900	99000	-	99000
Copper	µg/kg	53.5	-	-			9500	9500	110000	110000	-
Lead	µg/kg	81002	-	-			5200000	3600000 D3	3600000	9300000 D3	9300000
Mercury	µg/kg	1.31	-	110 U	110 U	110 U	130	-	-	-	130
Nickel	µg/kg	535	-	-			6500	6400	20000	20000	-
Thallium	µg/kg	34	-	-			290 U	-	1400 U	-	-
Zinc	µg/kg	5045	-	-			21000	21000	160000	-	160000
<i>PCBs</i>											
Total PCBs	µg/kg	0.053	-	-	1900 UJ	-	1900 UJ	-	-	-	-
<i>Pesticides</i>											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	TP-7-95	TP-8-95	HYD-1	HYD-1	HYD-1	HYD-1	HYD-1	HYD-1	HYD-1	HYD-1	
Sample ID:	TP7-S2	TP8-S2	SE-083105-HYD-1-001	SE-083105-HYD-1-002	SE-083105-HYD-1-003	SE-083105-HYD-1-004	SE-083105-HYD-1-005	SE-083105-HYD-1-006	SE-090105-HYD-1-007		
Sample Date:	3/28/1995	3/28/1995	8/31/2005	8/31/2005	8/31/2005	8/31/2005	8/31/2005	8/31/2005	8/31/2005	9/1/2005	
Sample Depth:	5 to 6 ft BGS	5 to 6 ft BGS	4 to 6 ft bml	14 to 16 ft bml	14 to 16 ft bml	24 to 26 ft bml	34 to 36 ft bml	44 to 46 ft bml	54 to 56 ft bml		
elev_MLLW			-40.3 to -42.3	-50.3 to -52.3	-50.3 to -52.3	-60.3 to -62.3	-70.3 to -72.3	-80.3 to -82.3	-90.3 to -92.3		
elev_NGVD			-46.6 to -48.6	-56.6 to -58.6	-56.6 to -58.6	-66.6 to -68.6	-76.6 to -78.6	-86.6 to -88.6	-96.6 to -98.6		
Parameters	Units	Cs	(Duplicate)								
Volatile Organic Compounds											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	3.1 U	3.91 U	3.17 U	3.08 U	3.28 U	2.45 U	2.98 U
1,1,2-Trichloroethane	µg/kg	15.2	-	-	8.5 U	10.7 U	8.69 U	8.46 U	9 U	57 J	91.6
1,1-Dichloroethene	µg/kg	1.13	-	-	2.03 U	2.56 U	2.07 U	2.02 U	2.15 U	26.9	83.9
Carbon tetrachloride	µg/kg	1.93	-	-	2.18 U	2.75 U	2.23 U	2.17 U	2.3 U	1.72 U	2.09 U
Chloroform (Trichloromethane)	µg/kg	160	-	-	1.93 U	2.44 U	1.97 U	1.92 U	2.04 U	362 J	1.86 U
cis-1,2-Dichloroethene	µg/kg	NV	-	-	1.95 U	2.47 U	2 U	1.94 U	2.07 U	9300	25600
Methylene chloride	µg/kg	475	-	-	2.98 U	3.76 U	3.04 U	2.96 U	3.15 U	297 J	1080
Tetrachloroethene	µg/kg	4.88	-	-	2.1 U	2.65 U	2.15 U	2.09 U	2.22 U	10.4	2.39 J
trans-1,2-Dichloroethene	µg/kg	3247	-	-	2.2 U	2.78 U	2.25 U	2.19 U	2.33 U	216 J	687
Trichloroethene	µg/kg	30.8	-	-	2.06 U	2.6 U	2.11 U	2.05 U	2.18 U	6240	9110
Vinyl chloride	µg/kg	0.73	-	-	2.46 U	3.1 U	2.51 U	2.44 U	2.6 U	268 J	348
Semi-volatile Organic Compounds											
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-
Metals~Total											
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	5000 U	27000	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-
PCBs											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-2</i>	<i>HYD-2</i>
<i>Sample ID:</i>		<i>SE-090105-HYD-1-008</i>	<i>SE-090105-HYD-1-009</i>	<i>SE-090105-HYD-1-010</i>	<i>SE-090105-HYD-1-011</i>	<i>SE-090105-HYD-1-012</i>	<i>SE-090105-HYD-1-013</i>	<i>SE-090105-HYD-1-014</i>	<i>SE-082905-HYD-2-001</i>	<i>SE-082905-HYD-2-002</i>
<i>Sample Date:</i>		9/1/2005	9/1/2005	9/1/2005	9/1/2005	9/1/2005	9/1/2005	9/1/2005	8/29/2005	8/29/2005
<i>Sample Depth:</i>		64 to 66 ft bml	74 to 76 ft bml	84 to 86 ft bml	94 to 96 ft bml	104 to 106 ft bml	114 to 116 ft bml	124 to 126 ft bml	8 to 10 ft bml	18 to 21 ft bml
<i>elev_MLLW</i>		-100.3 to -102.3	-110.3 to -112.3	-120.3 to -122.3	-130.3 to -132.3	-140.3 to -142.3	-150.3 to -152.3	-160.3 to -162.3	-45.8 to -47.8	-55.8 to -58.8
<i>elev_NGVD</i>		-106.6 to -108.6	-116.6 to -118.6	-126.6 to -128.6	-136.6 to -138.6	-146.6 to -148.6	-156.6 to -158.6	-166.6 to -168.6	-52.1 to -54.1	-62.1 to -65.1
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.79 U	3.12 U	3.01 U	3.19 U	3.36 U	2.68 U	3.13 U	3.28 U
1,1,2-Trichloroethane	µg/kg	15.2	124	8.55 U	8.25 U	8.75 U	9.2 U	7.35 U	8.59 U	8.99 U
1,1-Dichloroethene	µg/kg	1.13	226	262	766	2.09 U	43	1.75 U	2.05 U	2.15 U
Carbon tetrachloride	µg/kg	1.93	1.96 U	2.19 U	2.11 U	2.24 U	2.36 U	1.88 U	2.2 U	2.61 U
Chloroform (Trichloromethane)	µg/kg	160	1730	1.94 U	1.87 U	1.99 U	2.09 U	1.67 U	1.95 U	2.04 U
cis-1,2-Dichloroethene	µg/kg	NV	31500	10300	126000	123	4100	52	10.8	2.35 U
Methylene chloride	µg/kg	475	620	3 U	2.89 U	3.07 U	3.22 U	2.57 U	3.01 U	3.58 U
Tetrachloroethene	µg/kg	4.88	493	1290	39	2.16 U	318	5.88 J	2.12 U	2.79 J
trans-1,2-Dichloroethene	µg/kg	3247	902	123	1730	2.27 U	68.2	1.9 U	2.22 U	2.64 U
Trichloroethene	µg/kg	30.8	8730	39200	617	16.5	3190	47.1	6.37 J	2.48 U
Vinyl chloride	µg/kg	0.73	5990	1080	2810	2.8 J	38.1	2.12 U	2.48 U	2.95 U
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	
<i>Sample ID:</i>		<i>SE-082905-HYD-2-003</i>	<i>SE-082905-HYD-2-004</i>	<i>SE-082905-HYD-2-005</i>	<i>SE-083005-HYD-2-006</i>	<i>SE-083005-HYD-2-007</i>	<i>SE-083005-HYD-2-008</i>	<i>SE-083005-HYD-2-009</i>	<i>SE-083005-HYD-2-010</i>	<i>SE-083005-HYD-2-011</i>	
<i>Sample Date:</i>		8/29/2005	8/29/2005	8/29/2005	8/30/2005	8/30/2005	8/30/2005	8/30/2005	8/30/2005	8/30/2005	
<i>Sample Depth:</i>		28 to 30 ft bml	38 to 40 ft bml	48 to 50 ft bml	58 to 60 ft bml	68 to 70 ft bml	78 to 80 ft bml	88 to 90 ft bml	98 to 100 ft bml	108 to 110 ft bml	
<i>elev_MLLW</i>		-65.8 to -67.8	-75.8 to -77.8	-85.8 to -87.8	-95.8 to -97.8	-105.8 to -107.8	-115.8 to -117.8	-125.8 to -127.8	-135.8 to -137.8	-145.8 to -147.8	
<i>elev_NGVD</i>		-72.1 to -74.1	-82.1 to -84.1	-92.1 to -94.1	-102.1 to -104.1	-112.1 to -114.1	-122.1 to -124.1	-132.1 to -134.1	-142.1 to -144.1	-152.1 to -154.1	
Parameters	Units	Cs									
Volatile Organic Compounds											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3.44 U	3.21 U	2.86 U	6.04 J	3.3 U	3.22 U	3.06 U	3.32 U	2.5 U
1,1,2-Trichloroethane	µg/kg	15.2	9.44 U	8.79 U	106	114	53.9	8.82 U	8.4 U	9.1 U	6.85 U
1,1-Dichloroethene	µg/kg	1.13	2.25 U	56.2	89.3	65.5	333	189	153	38.4	7.6 J
Carbon tetrachloride	µg/kg	1.93	2.42 U	2.25 U	2.01 U	2.16 U	2.32 U	2.26 U	2.15 U	2.33 U	1.75 U
Chloroform (Trichloromethane)	µg/kg	160	2.14 U	2 U	831	904	66.1	2 U	17.6	14.6	1.56 U
cis-1,2-Dichloroethene	µg/kg	NV	2.17 U	10100	20100	5350	14000	5130	3530	3180	502
Methylene chloride	µg/kg	475	3.31 U	3.08 U	759	2.95 U	3.17 U	3.09 U	2.94 U	3.19 U	2.4 U
Tetrachloroethene	µg/kg	4.88	2.33 U	2.17 U	2.95 J	1360	630	789	193	230	55
trans-1,2-Dichloroethene	µg/kg	3247	2.45 U	364	571	357	564	77.2	74	57.6	11.1
Trichloroethene	µg/kg	30.8	2.29 U	2.13 U	10200	67900	36900	38500	31500	4130	599
Vinyl chloride	µg/kg	0.73	2.73 U	5870	893	210	2580	341	184	36	3.87 J
Semi-volatile Organic Compounds											
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-
Metals~Total											
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-
PCBs											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-1</i>	<i>NL-1</i>	<i>NL-1</i>	<i>NL-1</i>	<i>NL-1</i>	<i>NL-2</i>	<i>NL-2</i>	<i>NL-2</i>	<i>NL-2</i>	<i>NL-2</i>	<i>NL-3</i>	
<i>Sample ID:</i>		<i>S-NL1-5.2-7.2</i>	<i>S-NL1-10.12</i>	<i>S-NL1-15.2-17.2</i>	<i>S-NL1-20-22.2</i>	<i>S-FDNL-1</i>	<i>S-NL2-6-8</i>	<i>S-NL2-11-13</i>	<i>S-NL2-16-18</i>	<i>S-NL2-21-23</i>	<i>S-FDNL-1A</i>	<i>S-NL3-6-7.5</i>	
<i>Sample Date:</i>		6/14/2004	6/14/2004	6/14/2004	6/14/2004	6/14/2004	6/14/2004	6/14/2004	6/14/2004	6/14/2004	6/14/2004	6/7/2004	
<i>Sample Depth:</i>		5.2 to 7.2 ft bgs	10 to 12 ft bgs	15.2 to 17.2 ft bgs	20 to 22.2 ft bgs	20 to 22.2 ft bgs	6 to 8 ft bgs	11 to 13 ft bgs	16 to 18 ft bgs	21 to 23 ft bgs	21 to 23 ft bgs	6 to 7.5 ft bgs	
<i>elev_MLLW</i>		12.72 to 10.72	7.92 to 5.92	2.72 to 0.72	-2.08 to -4.28	-2.08 to -4.28	11.92 to 9.92	6.92 to 4.92	1.92 to -0.08	-3.08 to -5.08	-3.08 to -5.08	11.92 to 10.42	
<i>elev_NGVD</i>		6.4 to 4.4	1.6 to -0.4	-3.6 to -5.6	-8.4 to -10.6	-8.4 to -10.6	5.6 to 3.6	0.6 to -1.4	-4.4 to -6.4	-9.4 to -11.4	-9.4 to -11.4	5.6 to 4.1	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>											
<i>Volatile Organic Compounds</i>													
1,1,2,2-Tetrachloroethane	µg/kg	4.02	0.90 U	0.89 U	0.92 U	0.86 U	0.86 U	0.85 U	1.47 U	0.88 U	R	0.94 U	0.79 U
1,1,2-Trichloroethane	µg/kg	15.2	0.59 U	0.59 U	0.61 U	0.57 U	0.57 U	0.56 U	0.97 U	0.58 U	0.59 U	0.62 U	0.52 U
1,1-Dichloroethene	µg/kg	1.13	0.97 U	0.96 U	1.00 U	0.93 U	0.93 U	0.92 U	1.59 U	0.96 U	0.97 U	1.02 U	0.86 U
Carbon tetrachloride	µg/kg	1.93	0.98 U	0.98 U	1.01 U	0.94 U	0.94 U	3.4 J	1.61 U	0.97 U	0.98 U	1.03 U	0.87 U
Chloroform (Trichloromethane)	µg/kg	160	3.2 J	1.75 U	1.81 U	1.69 U	1.69 U	21	15	1.73 U	1.75 U	1.85 U	10.0
cis-1,2-Dichloroethene	µg/kg	NV	1.31 U	1.31 U	1.35 U	1.26 U	1.26 U	1.24 U	71	1.29 U	1.31 U	1.38 U	1.16 U
Methylene chloride	µg/kg	475	47	5.59 U	5.79 U	5.41 U	5.41 U	5.33 U	9.23 U	5.54 U	5.61 U	5.91 U	4.97 U
Tetrachloroethene	µg/kg	4.88	42	35	11	0.64 U	0.64 U	200	300	0.65 U	0.66 U	0.70 U	50
trans-1,2-Dichloroethene	µg/kg	3247	1.66 U	1.65 U	1.71 U	1.59 U	1.59 U	1.57 U	2.72 U	1.63 U	1.65 U	1.74 U	1.46 U
Trichloroethene	µg/kg	30.8	4.0 J	3.2 J	0.90 U	0.84 U	0.84 U	15	46	0.86 U	0.87 U	0.92 U	9.9
Vinyl chloride	µg/kg	0.73	2.06 U	2.05 U	2.12 U	1.98 U	1.98 U	1.95 U	3.39 U	2.03 U	2.06 U	2.17 U	1.82 U
<i>Semi-volatile Organic Compounds</i>													
Hexachlorobenzene	µg/kg	0.062	739.9 U	736.3 U	76.2 U	71.2 U	71.2 U	70.1 U	1215.7 U	72.9 U	73.8 U	77.8 U	20000 U
Hexachlorobutadiene	µg/kg	0.702	634.4 U	631.3 U	65.4 U	61.0 U	61.0 U	60.1 U	1042.3 U	62.5 U	63.3 U	66.7 U	-
Pentachlorophenol	µg/kg	6.94	720.2 U	716.7 U	74.2 U	69.3 U	69.3 U	68.3 U	1183.5 U	71.0 U	R	75.7 U	20000 U
<i>Metals~Total</i>													
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	12.8 U	521	13.1 U	12.3 U	12.3 U	688	331	798	12.7 U	13.4 U	408
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-	-
<i>PCBs</i>													
Total PCBs	µg/kg	0.053	2200	540	320	6.5 U	6.5 U	4000	890	6.7 U	6.7 U	7.1 U	570
<i>Pesticides</i>													
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-3</i>	<i>NL-3</i>	<i>NL-3</i>	<i>NL-4</i>	<i>NL-4</i>	<i>NL-4</i>	<i>NL-4</i>	<i>NL-5</i>	<i>NL-5</i>	<i>NL-5</i>	<i>NL-5</i>	
<i>Sample ID:</i>		<i>S-NL3-10-12</i>	<i>S-NL3-15-7</i>	<i>S-NL3-22-24</i>	<i>S-NL4-5.5-7</i>	<i>S-NL4-10-12</i>	<i>S-NL4-15-17</i>	<i>S-NL4-20-22</i>	<i>S-NL5-6-7.4</i>	<i>S-NL5-10-12</i>	<i>S-NL5-15.4-17.4</i>	<i>S-NL5-20.4-22.4</i>	
<i>Sample Date:</i>		6/7/2004	6/7/2004	6/7/2004	6/7/2004	6/7/2004	6/7/2004	6/7/2004	6/7/2004	6/7/2004	6/7/2004	6/7/2004	
<i>Sample Depth:</i>		10 to 12 ft bgs	15 to 17 ft bgs	22 to 24 ft bgs	5.5 to 7 ft bgs	10 to 12 ft bgs	15 to 17 ft bgs	20 to 22 ft bgs	6 to 7.4 ft bgs	10 to 12 ft bgs	15.4 to 17.4 ft bgs	20.4 to 22.4 ft bgs	
<i>elev_MLLW</i>		7.92 to 5.92	2.92 to 0.92	-4.08 to -6.08	12.42 to 10.92	7.92 to 5.92	2.92 to 0.92	-2.08 to -4.08	11.92 to 10.52	7.92 to 5.92	2.52 to 0.52	-2.48 to -4.48	
<i>elev_NGVD</i>		1.6 to -0.4	-3.4 to -5.4	-10.4 to -12.4	6.1 to 4.6	1.6 to -0.4	-3.4 to -5.4	-8.4 to -10.4	5.6 to 4.2	1.6 to -0.4	-3.8 to -5.8	-8.8 to -10.8	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>											
<i>Volatile Organic Compounds</i>													
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.01 U	0.90 UJ	0.92 U	1.02 U	R	R	0.90 U	0.79 UJ	0.90 UJ	R	0.89 U
1,1,2-Trichloroethane	µg/kg	15.2	0.66 U	0.59 U	0.60 U	0.67 U	0.61 U	0.56 UJ	0.59 U	0.52 UJ	0.59 U	0.65 UJ	0.59 U
1,1-Dichloroethene	µg/kg	1.13	1.09 U	0.97 U	0.99 U	1.11 U	1.01 U	0.93 UJ	0.98 U	0.85 UJ	0.98 U	1.06 UJ	0.97 U
Carbon tetrachloride	µg/kg	1.93	1.10 U	0.98 U	1.01 U	1.12 U	1.02 U	0.94 UJ	0.99 U	0.86 UJ	0.99 U	1.08 UJ	0.98 U
Chloroform (Trichloromethane)	µg/kg	160	9.8	9.6	1.80 U	2.01 U	22 J	1.68 UJ	1.77 U	6.9 J	1.77 U	1.93 UJ	1.75 U
cis-1,2-Dichloroethene	µg/kg	NV	15	1.31 U	1.35 U	1.50 U	6.4 J	1.26 UJ	1.33 U	1.16 UJ	1.33 U	4.3 J	1.31 U
Methylene chloride	µg/kg	475	6.33 U	5.63 U	5.76 U	6.42 U	7.8 U	5.38 U	5.68 U	4.95 UJ	5.68 U	6.17 UJ	5.60 U
Tetrachloroethene	µg/kg	4.88	26	53	0.68 U	0.76 U	29 J	R	0.67 U	11 J	0.67 U	0.73 UJ	0.66 U
trans-1,2-Dichloroethene	µg/kg	3247	12	1.66 U	1.70 U	1.89 U	1.72 U	1.59 UJ	1.67 U	1.46 UJ	1.67 U	1.82 UJ	1.65 U
Trichloroethene	µg/kg	30.8	8.8	5.3 J	0.89 U	1.00 U	11 J	0.83 UJ	0.88 U	0.77 UJ	0.88 U	0.96 UJ	0.87 U
Vinyl chloride	µg/kg	0.73	15	2.06 U	2.11 U	2.36 U	R	R	R	R	R	R	2.05 U
<i>Semi-volatile Organic Compounds</i>													
Hexachlorobenzene	µg/kg	0.062	25000 U	74.1 U	75.8 U	6300 U	23000 U	70.9 U	74.7 U	9800 U	747.2 U	81.3 U	73.7 U
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	25000 U	72.1 U	73.8 U	6300 U	23000 U	69.0 U	72.7 U	9800 U	727.4 U	79.1 U	71.8 U
<i>Metals~Total</i>													
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	550	12.8 U	13.1 U	158	13.2 U	12.2 U	12.9 U	11.2 U	12.9 U	14.0 U	12.7 U
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-	-
<i>PCBs</i>													
Total PCBs	µg/kg	0.053	730	6.8 U	6.9 U	270	1400	6.5 U	6.8 U	600	140	7.4 U	6.7 U
<i>Pesticides</i>													
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-6</i>	<i>NL-6</i>	<i>NL-6</i>	<i>NL-6</i>	<i>NL-6</i>	<i>NL-6</i>	<i>NL-7</i>	<i>NL-7</i>	<i>NL-7</i>	
<i>Sample ID:</i>		<i>S-053105-JS-NL6-003</i>	<i>S-053105-JS-NL6-004</i>	<i>S-053105-JS-NL6-005</i>	<i>S-053105-JS-NL6-006</i>	<i>S-053105-JS-NL6-007</i>	<i>S-053105-JS-NL6-008</i>	<i>S-053105-JS-NL7-003</i>	<i>S-053105-JS-NL7-004</i>	<i>S-053105-JS-NL7-005</i>	
<i>Sample Date:</i>		<i>5/31/2005</i>	<i>5/31/2005</i>	<i>5/31/2005</i>	<i>5/31/2005</i>	<i>5/31/2005</i>	<i>5/31/2005</i>	<i>5/31/2005</i>	<i>5/31/2005</i>	<i>5/31/2005</i>	
<i>Sample Depth:</i>		<i>4 to 8 ft bgs</i>	<i>8 to 9 ft bgs</i>	<i>12 to 14 ft bgs</i>	<i>16 to 17 ft bgs</i>	<i>17 to 19 ft bgs</i>	<i>23 to 25 ft bgs</i>	<i>5 to 8 ft bgs</i>	<i>12 to 14 ft bgs</i>	<i>17 to 19 ft bgs</i>	
<i>elev_MLLW</i>		<i>13.92 to 9.92</i>	<i>9.92 to 8.92</i>	<i>5.92 to 3.92</i>	<i>1.92 to 0.92</i>	<i>0.92 to -1.08</i>	<i>-5.08 to -7.08</i>	<i>12.92 to 9.92</i>	<i>5.92 to 3.92</i>	<i>0.92 to -1.08</i>	
<i>elev_NGVD</i>		<i>7.6 to 3.6</i>	<i>3.6 to 2.6</i>	<i>-0.4 to -2.4</i>	<i>-4.4 to -5.4</i>	<i>-5.4 to -7.4</i>	<i>-11.4 to -13.4</i>	<i>6.6 to 3.6</i>	<i>-0.4 to -2.4</i>	<i>-5.4 to -7.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>									
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	8 U	11 UJ	R	7 U	6 U	5 U	10 U	11 UJ	6 U
1,1,2-Trichloroethane	µg/kg	15.2	8 U	11 UJ	6 U	7 U	6 U	5 U	10 U	11 UJ	6 U
1,1-Dichloroethene	µg/kg	1.13	8 U	11 UJ	6 U	7 U	6 U	5 U	10 U	11 UJ	6 U
Carbon tetrachloride	µg/kg	1.93	11	11 UJ	1.8 J	7 U	6 U	5 U	10 U	11 UJ	6 U
Chloroform (Trichloromethane)	µg/kg	160	21	63 J	9.2 J	7 U	6 U	5 U	10 U	11 UJ	6 U
cis-1,2-Dichloroethene	µg/kg	NV	8 U	15 J	13 J	7 U	6 U	5 U	10 U	11 UJ	6 U
Methylene chloride	µg/kg	475	8 U	24 J	3.6 J	7 U	6 U	8.3	10 U	11 UJ	6 U
Tetrachloroethene	µg/kg	4.88	130	150 J	110 J	2.6 J	6 U	1.6 J	11	11 UJ	6 U
trans-1,2-Dichloroethene	µg/kg	3247	8 U	11 UJ	6 U	7 U	6 U	5 U	10 U	11 UJ	6 U
Trichloroethene	µg/kg	30.8	6.3 J	39 J	27 J	7 U	6 U	5 U	10 U	11 UJ	6 U
Vinyl chloride	µg/kg	0.73	8 U	11 UJ	6 U	7 U	6 U	5 U	10 U	11 UJ	6 U
<i>Semi-volatile Organic Compounds</i>											
Hexachlorobenzene	µg/kg	0.062	2500 U	280 J	420 U	2300 U	420 U	-	750	740 U	400 U
Hexachlorobutadiene	µg/kg	0.702	2500 U	480 J	420 U	2300 U	420 U	-	640 U	740 U	400 U
Pentachlorophenol	µg/kg	6.94	5000 U	7200 U	850 U	4500 U	830 U	-	1300 U	1500 U	800 U
<i>Metals~Total</i>											
Arsenic	µg/kg	146	46800	15700	4600	36100	2600	-	10600	54900	3300
Chromium	µg/kg	714	37200	386000	9900	7000	8800	-	146000	20300	9000
Copper	µg/kg	53.5	196000	343000	20300	34000	14700	-	1300000	144000	13100
Lead	µg/kg	81002	24600000	5660000	4600	21400	4200	-	221000	438000	13300
Mercury	µg/kg	1.31	620	240	100 U	100 U	100 U	-	200 U	200 U	100 U
Nickel	µg/kg	535	126000	607000	8900	146000	8200	-	712000	474000	12600
Thallium	µg/kg	34	100 U	200 U	100 U	100 U	100 U	-	200 U	200 U	100 U
Zinc	µg/kg	5045	535000 J	308000 J	29100 J	57100 J	22600 J	-	640000 J	214000 J	30200 J
<i>PCBs</i>											
Total PCBs	µg/kg	0.053	190000 U	92000 U	64 U	63 J	63 U	-	210	110 U	61 U
<i>Pesticides</i>											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			NL-7	NL-8	NL-8	NL-8	NL-8	NL-8	NL-8	NL-9	NL-9	NL-9
<i>Sample ID:</i>			S-053105-JS-NL7-006	S-053105-JS-NL8-002	S-060105-JS-NL8-003	S-060105-JS-NL8-004	S-060105-JS-NL8-005	S-060105-JS-NL8-006	S-060105-JS-NL9-002	S-060105-JS-NL9-003	S-060105-JS-NL9-004	
<i>Sample Date:</i>			5/31/2005	5/31/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005
<i>Sample Depth:</i>			23 to 25 ft bgs	10 to 11 ft bgs	13 to 15 ft bgs	18 to 20 ft bgs	18 to 20 ft bgs	22 to 23 ft bgs	5 to 6 ft bgs	13 to 15 ft bgs	18 to 20 ft bgs	
<i>elev_MLLW</i>			-5.08 to -7.08	7.92 to 6.92	4.92 to 2.92	-0.08 to -2.08	-0.08 to -2.08	-4.08 to -5.08	12.92 to 11.92	4.92 to 2.92	-0.08 to -2.08	
<i>elev_NGVD</i>			-11.4 to -13.4	1.6 to 0.6	-1.4 to -3.4	-6.4 to -8.4	-6.4 to -8.4	-10.4 to -11.4	6.6 to 5.6	-1.4 to -3.4	-6.4 to -8.4	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>					(Duplicate)					
Volatile Organic Compounds												
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6 U	11 UJ	9 UJ	6 U	6 U	6 U	11 UJ	7 U	6 U	
1,1,2-Trichloroethane	µg/kg	15.2	6 U	11 UJ	9 U	6 U	6 U	6 U	11 UJ	7 U	6 U	
1,1-Dichloroethene	µg/kg	1.13	6 U	11 UJ	9 U	6 U	6 U	6 U	11 UJ	7 U	6 U	
Carbon tetrachloride	µg/kg	1.93	6 U	11 UJ	9 U	6 U	6 U	6 U	11 UJ	7 U	6 U	
Chloroform (Trichloromethane)	µg/kg	160	6 U	11 UJ	9 U	6 U	6 U	6 U	7.4 J	7 U	6 U	
cis-1,2-Dichloroethene	µg/kg	NV	6 U	6.4 J	9 U	6 U	6 U	6 U	11 UJ	7 U	6 U	
Methylene chloride	µg/kg	475	6 U	14 J	16 J	4.1 J	6.3	7.0	11 UJ	7 U	6 U	
Tetrachloroethene	µg/kg	4.88	6 U	11 UJ	5.6 J	1.7 J	1.1 J	1.0 J	2.3 J	2.5 J	6 U	
trans-1,2-Dichloroethene	µg/kg	3247	6 U	11 UJ	9 U	6 U	6 U	6 U	11 UJ	7 U	6 U	
Trichloroethene	µg/kg	30.8	6 U	11 UJ	9 U	6 U	6 U	6 U	11 UJ	7 U	6 U	
Vinyl chloride	µg/kg	0.73	6 U	11 UJ	9 U	6 U	6 U	6 U	11 UJ	7 U	6 U	
Semi-volatile Organic Compounds												
Hexachlorobenzene	µg/kg	0.062	400 U	3700 U	14000 U	2000 U	2000 U	410 U	3500 UJ	2300 U	400 U	
Hexachlorobutadiene	µg/kg	0.702	400 U	3700 U	14000 U	2000 U	2000 U	410 U	3500 UJ	2300 U	400 U	
Pentachlorophenol	µg/kg	6.94	810 U	7300 U	29000 U	4000 U	3900 U	820 U	7000 UJ	4600 U	790 U	
Metals~Total												
Arsenic	µg/kg	146		1100	268000	147000	3400	3600	790	135000	7900	1900
Chromium	µg/kg	714		8300	9700	14200	10200	9900	5600	25100	6500	3700
Copper	µg/kg	53.5		11700	194000	42200	14100	14400	10500	493000	26400	10200
Lead	µg/kg	81002		1200	66400	189000 J	2000 J	2000 J	1400 J	1340000 J	1080000 J	72800 J
Mercury	µg/kg	1.31		100 U	200 U	200 U	100 U	100 U	100 U	230	100 U	100 U
Nickel	µg/kg	535		7700	261000	523000	8500	8200	7200	962000	6500	4400
Thallium	µg/kg	34		100 U	200 U	200 UJ	100 UJ	100 UJ	100 UJ	210 J	100 UJ	100 UJ
Zinc	µg/kg	5045		17400 J	41800 J	488000	27500	25400	21200	1000000	24800	19400
PCBs												
Total PCBs	µg/kg	0.053	61 U	770 U	170 U	60 U	59 U	62 U	8900 U	690 U	60 U	
Pesticides												
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-9</i>	<i>NL-9</i>	<i>NL-10</i>	<i>NL-10</i>	<i>NL-10</i>	<i>NL-10</i>	<i>NL-11</i>	<i>NL-11</i>	
<i>Sample ID:</i>		<i>S-060105-JS-NL9-005</i>	<i>S-060105-JS-NL9-006</i>	<i>S-060105-JS-NL10-002</i>	<i>S-060105-JS-NL10-003</i>	<i>S-060105-JS-NL10-004</i>	<i>S-060205-JS-NL10-005</i>	<i>S-060205-JS-NL11-002</i>	<i>S-060205-JS-NL11-003</i>	
<i>Sample Date:</i>		<i>6/1/2005</i>	<i>6/1/2005</i>	<i>6/1/2005</i>	<i>6/1/2005</i>	<i>6/1/2005</i>	<i>6/1/2005</i>	<i>6/2/2005</i>	<i>6/2/2005</i>	
<i>Sample Depth:</i>		<i>20 to 21 ft bgs</i>	<i>20 to 21 ft bgs</i>	<i>6 to 7 ft bgs</i>	<i>13 to 15 ft bgs</i>	<i>21.5 to 22.5 ft bgs</i>	<i>23.5 to 25 ft bgs</i>	<i>5 to 6 ft bgs</i>	<i>9 to 11 ft bgs</i>	
<i>elev_MLLW</i>		<i>-2.08 to -3.08</i>	<i>-2.08 to -3.08</i>	<i>11.92 to 10.92</i>	<i>4.92 to 2.92</i>	<i>-3.58 to -4.58</i>	<i>-5.58 to -7.08</i>	<i>12.92 to 11.92</i>	<i>8.92 to 6.92</i>	
<i>elev_NGVD</i>		<i>-8.4 to -9.4</i>	<i>-8.4 to -9.4</i>	<i>5.6 to 4.6</i>	<i>-1.4 to -3.4</i>	<i>-9.9 to -10.9</i>	<i>-11.9 to -13.4</i>	<i>6.6 to 5.6</i>	<i>2.6 to 0.6</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6 U	6 U	6 U	7 U	6 U	7 U	6 U	11 UJ
1,1,2-Trichloroethane	µg/kg	15.2	6 U	6 U	6 U	7 U	6 U	7 U	6 U	11 UJ
1,1-Dichloroethene	µg/kg	1.13	6 U	6 U	6 U	7 U	6 U	7 U	6 U	11 UJ
Carbon tetrachloride	µg/kg	1.93	6 U	6 U	6 U	7 U	6 U	7 U	1.4 J	11 UJ
Chloroform (Trichloromethane)	µg/kg	160	6 U	6 U	5.6 J	7 U	6 U	7 U	11	11 J
cis-1,2-Dichloroethene	µg/kg	NV	6 U	6 U	6 U	7 U	6 U	7 U	6 U	11 UJ
Methylene chloride	µg/kg	475	6 U	3.2 J	16	7 U	6 U	7 U	6 U	88 J
Tetrachloroethene	µg/kg	4.88	6 U	1.2 J	1.4 J	0.76 J	6 U	7 U	76	11 J
trans-1,2-Dichloroethene	µg/kg	3247	6 U	6 U	6 U	7 U	6 U	7 U	6 U	11 UJ
Trichloroethene	µg/kg	30.8	6 U	6 U	6 U	7 U	6 U	7 U	8.7	11 UJ
Vinyl chloride	µg/kg	0.73	6 U	6 U	6 U	7 U	6 U	7 U	6 U	11 UJ
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	400 U	400 U	400 U	450 U	420 U	460 U	1900 U	1100 J
Hexachlorobutadiene	µg/kg	0.702	400 U	400 U	400 U	450 U	420 U	460 U	690 J	830 J
Pentachlorophenol	µg/kg	6.94	800 U	810 U	790 U	890 U	830 U	920 U	3700 U	37000 UJ
<i>Metals~Total</i>										
Arsenic	µg/kg	146	2100	2000	1700	3200	690	2900	14200	22500
Chromium	µg/kg	714	9700	7600	10000	12300	4700	11100 J	26300 J	83400 J
Copper	µg/kg	53.5	23300	23900	11800	22500	9600	21900	125000	2160000
Lead	µg/kg	81002	832000 J	836000 J	85600 J	4000 J	1200 J	2400	1380000	27600000
Mercury	µg/kg	1.31	100 U	100 U	100 U	100 U	100 U	100 U	140	490
Nickel	µg/kg	535	6200	5800	6100	9900	5700	9700 J	104000 J	140000 J
Thallium	µg/kg	34	120 UJ	100 UJ	100 UJ	100 UJ	100 UJ	100 U	100 U	200 U
Zinc	µg/kg	5045	11200	13500	25600	32700	14900	29700	486000	312000
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	61 U	61 U	60 U	67 U	63 U	69 U	48000 U	9400 U
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-11</i>	<i>NL-11</i>	<i>NL-11</i>	<i>NL-12</i>	<i>NL-12</i>	<i>NL-12</i>	<i>NL-12</i>	<i>NL-13</i>	
<i>Sample ID:</i>		<i>S-060205-JS-NL11-004</i>	<i>S-060205-JS-NL11-005</i>	<i>S-060205-JS-NL11-006</i>	<i>S-060205-JS-NL12-002</i>	<i>S-060205-JS-NL12-003</i>	<i>S-060205-JS-NL12-004</i>	<i>S-060205-JS-NL12-005</i>	<i>SE-122005-NL-13-002</i>	
<i>Sample Date:</i>		<i>6/2/2005</i>	<i>6/2/2005</i>	<i>6/2/2005</i>	<i>6/2/2005</i>	<i>6/2/2005</i>	<i>6/2/2005</i>	<i>6/2/2005</i>	<i>12/20/2005</i>	
<i>Sample Depth:</i>		<i>14 to 16 ft bgs</i>	<i>20 to 21 ft bgs</i>	<i>23 to 25 ft bgs</i>	<i>6 to 7 ft bgs</i>	<i>14.5 to 15.5 ft bgs</i>	<i>18 to 20 ft bgs</i>	<i>23 to 25 ft bgs</i>	<i>3 to 4.5 ft bml</i>	
<i>elev_MLLW</i>		<i>3.92 to 1.92</i>	<i>-2.08 to -3.08</i>	<i>-5.08 to -7.08</i>	<i>11.92 to 10.92</i>	<i>3.42 to 2.42</i>	<i>-0.08 to -2.08</i>	<i>-5.08 to -7.08</i>	<i>-4.8 to -6.3</i>	
<i>elev_NGVD</i>		<i>-2.4 to -4.4</i>	<i>-8.4 to -9.4</i>	<i>-11.4 to -13.4</i>	<i>5.6 to 4.6</i>	<i>-2.9 to -3.9</i>	<i>-6.4 to -8.4</i>	<i>-11.4 to -13.4</i>	<i>-11.1 to -12.6</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	7 U	6 U	6 U	6 U	6 U	7 U	3.23 U	
1,1,2-Trichloroethane	µg/kg	15.2	7 U	6 U	6 U	6 U	6 U	7 U	8.86 U	
1,1-Dichloroethene	µg/kg	1.13	7 U	6 U	6 U	6 U	6 U	7 U	3.05 J	
Carbon tetrachloride	µg/kg	1.93	7 U	6 U	6 U	6 U	6 U	7 U	10.8	
Chloroform (Trichloromethane)	µg/kg	160	7 U	6 U	6 U	6 U	6 U	7 U	688	
cis-1,2-Dichloroethene	µg/kg	NV	3.7 J	6 U	3.5 J	6 U	6 U	4.6 J	122	
Methylene chloride	µg/kg	475	7 U	6 U	6 U	39	6 U	7 U	3.11 U	
Tetrachloroethene	µg/kg	4.88	1.6 J	1.3 J	6 U	7.3	1.1 J	7 U	2920	
trans-1,2-Dichloroethene	µg/kg	3247	7 U	6 U	6 U	6 U	6 U	7 U	8.35 J	
Trichloroethene	µg/kg	30.8	5.6 J	9.8	6 U	3.7 J	11	7 U	415	
Vinyl chloride	µg/kg	0.73	1.9 J	6 U	6 U	6 U	6 U	7 U	4.98 J	
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	12000 U	400 U	430 U	2100 U	2100 U	400 U	430 U	433
Hexachlorobutadiene	µg/kg	0.702	12000 U	400 U	430 U	2100 U	2100 U	400 U	430 U	1390
Pentachlorophenol	µg/kg	6.94	24000 U	800 U	850 UJ	4200 UJ	4200 UJ	810 UJ	870 UJ	16.2 U
<i>Metals~Total</i>										
Arsenic	µg/kg	146	22800	620	3100	1500	3700	2100	3000	35300 J
Chromium	µg/kg	714	20300 J	5500 J	10800 J	9800 J	8900 J	9900 J	10100 J	78100 J
Copper	µg/kg	53.5	312000	9000	21900	9900	16000	11800	14800	356000 J
Lead	µg/kg	81002	3460000	1700	10700	9900	20400	1500	1700	35500000 J
Mercury	µg/kg	1.31	3700	100 U	100 U	100 U	100 U	100 U	100 U	90.2
Nickel	µg/kg	535	48600 J	5900 J	11600 J	6800 J	9100 J	8100 J	7500 J	285000 J
Thallium	µg/kg	34	100 U	100 U	100 U	100 U	100 U	100 U	100 U	150 J
Zinc	µg/kg	5045	421000	16700	28600	28000	47800	20000	22300	201000 J
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	1200 U	61 U	64 U	63 U	64 U	61 U	66 U	3.92 UJ
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	0.241 U
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	50.1 J
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	0.277 UJ

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	
<i>Sample ID:</i>		<i>SE-122005-NL-13-003</i>	<i>SE-122005-NL-13-004</i>	<i>SE-122005-NL-13-005</i>	<i>SE-122105-NL-13-006</i>	<i>SE-122105-NL-13-007</i>	<i>SE-122105-NL-13-008</i>	<i>SE-122105-NL-13-009</i>	<i>SE-122105-NL-13-010</i>	<i>SE-122105-NL-13-011</i>	
<i>Sample Date:</i>		<i>12/20/2005</i>	<i>12/20/2005</i>	<i>12/20/2005</i>	<i>12/21/2005</i>	<i>12/21/2005</i>	<i>12/21/2005</i>	<i>12/21/2005</i>	<i>12/21/2005</i>	<i>12/21/2005</i>	
<i>Sample Depth:</i>		<i>6 to 7.5 ft bml</i>	<i>9 to 10.5 ft bml</i>	<i>12 to 13.5 ft bml</i>	<i>15 to 16.5 ft bml</i>	<i>18 to 19.5 ft bml</i>	<i>18 to 19.5 ft bml</i>	<i>21 to 22.5 ft bml</i>	<i>24 to 25.5 ft bml</i>	<i>27 to 28.5 ft bml</i>	
<i>elev_MLLW</i>		<i>-7.8 to -9.3</i>	<i>-10.8 to -12.3</i>	<i>-13.8 to -15.3</i>	<i>-16.8 to -18.3</i>	<i>-19.8 to -21.3</i>	<i>-19.8 to -21.3</i>	<i>-22.8 to -24.3</i>	<i>-25.8 to -27.3</i>	<i>-28.8 to -30.3</i>	
<i>elev_NGVD</i>		<i>-14.1 to -15.6</i>	<i>-17.1 to -18.6</i>	<i>-20.1 to -21.6</i>	<i>-23.1 to -24.6</i>	<i>-26.1 to -27.6</i>	<i>-26.1 to -27.6</i>	<i>-29.1 to -30.6</i>	<i>-32.1 to -33.6</i>	<i>-35.1 to -36.6</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>	<i>(Duplicate)</i>								
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3.22 U	69.5	40.5	2.79 U	3.72 U	2.99 U	3.14 U	2.9 U	3.06 U
1,1,2-Trichloroethane	µg/kg	15.2	15.7	9.18 U	165	10.5 J	10.2 U	8.2 U	8.61 U	7.96 U	8.4 U
1,1-Dichloroethene	µg/kg	1.13	8.28 J	3.64 J	63.1	1.82 U	2.43 U	1.96 U	2.06 U	1.9 U	2 U
Carbon tetrachloride	µg/kg	1.93	12.2	6.68 J	4.7 U	1.96 UJ	2.61 U	2.1 U	2.21 U	2.04 U	2.15 U
Chloroform (Trichloromethane)	µg/kg	160	1160	417	2310	1.74 UJ	2.32 U	1.86 U	1.96 U	1.81 U	1.91 U
cis-1,2-Dichloroethene	µg/kg	NV	423	133	51.4	1.76 UJ	9.21 J	3.07 J	1.98 U	1.83 U	1.93 U
Methylene chloride	µg/kg	475	3.1 U	3.22 U	6.43 U	2.68 U	3.57 U	2.87 U	3.02 U	2.79 U	2.94 U
Tetrachloroethene	µg/kg	4.88	5950	2060	1720	3.79 J	36.3	19.4	2.13 U	1.97 U	2.08 U
trans-1,2-Dichloroethene	µg/kg	3247	35.4	11.8	125	1.98 UJ	7.42 J	3.09 J	2.23 U	2.06 U	2.17 U
Trichloroethene	µg/kg	30.8	847	426	1920	86.6 J	32	10.2	2.09 U	1.93 U	2.04 U
Vinyl chloride	µg/kg	0.73	21.8	4.64 J	10.1 J	2.21 U	2.95 U	2.37 U	2.49 U	2.3 U	2.43 U
<i>Semi-volatile Organic Compounds</i>											
Hexachlorobenzene	µg/kg	0.062	771	311	279	36.8	0.906 U	0.877 U	0.986 U	0.943 U	0.918 U
Hexachlorobutadiene	µg/kg	0.702	2390	825	332	56.4	4.29 J	5.06 J	3.59 U	3.43 U	3.34 U
Pentachlorophenol	µg/kg	6.94	359 J	324 J	545 J	1.51 U	1.66 J	2.04 J	1.7 U	1.63 U	1.58 U
<i>Metals~Total</i>											
Arsenic	µg/kg	146	73900 J	32100 J	27300 J	5420	4050	3780	434	148 U	371
Chromium	µg/kg	714	114000 J	70500 J	191000 J	10900	10600	10900	11200	11900	15000
Copper	µg/kg	53.5	346000 J	227000 J	145000 J	24000	18500	67000	11000	10200	17100
Lead	µg/kg	81002	32400000 J	37500000 J	48900000 J	304000 J	108000 J	161000 J	3440 J	2610 J	4660 J
Mercury	µg/kg	1.31	30.7	37.6	232	27.8 UJ	6.39 UJ	8.41 UJ	4.92 UJ	13.5 UJ	5.28 UJ
Nickel	µg/kg	535	327000 J	307000 J	509000 J	30900	14400	19500	7610	7360	8680
Thallium	µg/kg	34	102 J	104 J	106 J	55.3 U	105 U	69.6 U	34.7 U	40.7 U	58.5 U
Zinc	µg/kg	5045	177000 J	288000 J	301000 J	41100 J	20500 J	23700 J	16100 J	16000 J	18500 J
<i>PCBs</i>											
Total PCBs	µg/kg	0.053	3.81 UJ	3.66 UJ	7.37 UJ	3.5 U	3.51 U	3.66 U	3.85 U	3.72 U	3.61 U
<i>Pesticides</i>											
4,4'-DDD	µg/kg	0.043	0.222 U	0.243 U	0.49 U	0.222 U	0.211 U	0.217 U	0.233 U	0.228 U	0.227 U
4,4'-DDE	µg/kg	0.058	75.3 J	0.239 U	0.48 U	4.56	0.206 U	0.213 U	0.228 U	0.223 U	0.222 U
4,4'-DDT	µg/kg	0.455	0.256 UJ	0.28 UJ	0.564 UJ	0.255 UJ	0.243 UJ	0.25 UJ	0.268 UJ	0.262 UJ	0.261 UJ

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:		NL-14	NL-14	NL-14	NL-14	NL-14	NL-14	NL-14	NL-14	NL-14	
Sample ID:		SE-121405-NL-14-002	SE-121405-NL-14-003	SE-121405-NL-14-004	SE-121405-NL-14-005	SE-121505-NL-14-006	SE-121505-NL-14-007	SE-121505-NL-14-008	SE-121505-NL-14-009	SE-121505-NL-14-010	
Sample Date:		12/14/2005	12/14/2005	12/14/2005	12/14/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	
Sample Depth:		4 to 5.5 ft bml	7 to 8.5 ft bml	10 to 11.5 ft bml	13 to 14.5 ft bml	16 to 17.5 ft bml	19 to 20.5 ft bml	22 to 23.5 ft bml	25 to 26.5 ft bml	25 to 26.5 ft bml	
elev_MLLW		-8.1 to -9.6	-11.1 to -12.6	-14.1 to -15.6	-17.1 to -18.6	-20.1 to -21.6	-23.1 to -24.6	-26.1 to -27.6	-29.1 to -30.6	-29.1 to -30.6	
elev_NGVD		-14.4 to -15.9	-17.4 to -18.9	-20.4 to -21.9	-23.4 to -24.9	-26.4 to -27.9	-29.4 to -30.9	-32.4 to -33.9	-35.4 to -36.9	-35.4 to -36.9	
Parameters	Units	Cs								(Duplicate)	
Volatile Organic Compounds											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	4.08 U	5.62 U	42.3	4.43 U	5.85 U	3.37 U	3.07 U	3.23 U	3.05 U
1,1,2-Trichloroethane	µg/kg	15.2	11.2 U	15.4 U	19.7 U	12.1 U	16 U	9.24 U	8.42 U	8.85 U	8.36 U
1,1-Dichloroethene	µg/kg	1.13	4.01 J	4.61 J	4.7 U	2.9 U	4.48 J	2.21 U	2.01 U	2.11 U	2 U
Carbon tetrachloride	µg/kg	1.93	36	114	13.9 J	7.67 J	21.6	8.49 J	2.16 U	2.27 U	2.14 U
Chloroform (Trichloromethane)	µg/kg	160	1140	4660	131	83.3	1410	76.8	1.91 U	2.01 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	449	387	72.9	42.6	40.9	4.76 J	3.87 J	2.03 U	2.67 J
Methylene chloride	µg/kg	475	3.92 U	5.4 U	6.9 U	4.26 U	5.62 U	3.24 U	2.95 U	3.1 U	2.93 U
Tetrachloroethene	µg/kg	4.88	1540	4590	1090	168	2610	119	2.08 U	2.19 U	2.07 U
trans-1,2-Dichloroethene	µg/kg	3247	19.3	13 J	20.5 J	5.6 J	21.5	2.39 U	2.18 U	2.29 U	2.17 U
Trichloroethene	µg/kg	30.8	391	307	819	83 J	365	23.1	2.04 U	2.15 U	2.03 U
Vinyl chloride	µg/kg	0.73	14.4	22.2	5.69 U	3.51 U	4.63 U	2.67 U	2.43 U	2.56 U	2.42 U
Semi-volatile Organic Compounds											
Hexachlorobenzene	µg/kg	0.062	669	342	283	200	376	135 J	7.14	0.914 U	0.905 U
Hexachlorobutadiene	µg/kg	0.702	1860	1030	777	463	1170	255 J	27.8	4.25 J	3.43 J
Pentachlorophenol	µg/kg	6.94	347	231	2.84 U	21.6	2.46 U	1.81 U	1.6 U	1.58 U	1.56 U
Metals~Total											
Arsenic	µg/kg	146	8410	7670	9680	24100	15100	6050	1380	706	774
Chromium	µg/kg	714	15900	46700	50400	35600	29600	21600	13600	14200	12500
Copper	µg/kg	53.5	94100	71600	90800	91900	101000 J	68000 J	13900 J	9880 J	9750 J
Lead	µg/kg	81002	4410000	3070000	3230000	1160000	1990000	648000	62500 U	7630 U	8280 U
Mercury	µg/kg	1.31	57.1	88.1	14100	500	1630	237	56	4.67 U	4.01 U
Nickel	µg/kg	535	52800	171000	202000	114000	110000	46000	13000	8060	7610
Thallium	µg/kg	34	30.1 J	133 J	86.1 J	101 J	71.5 U	44.8 U	90.4 J	57.6 U	24.3 U
Zinc	µg/kg	5045	59500 J	60700 J	159000 J	273000 J	148000 J	71200 J	21400 U	16500 U	15200 U
PCBs											
Total PCBs	µg/kg	0.053	4.02 U	4.38 U	6.68 U	5.14 U	5.45 U	4.12 U	3.37 U	3.55 U	3.26 U
Pesticides											
4,4'-DDD	µg/kg	0.043	0.278 U	0.303 U	0.462 UJ	0.356 UJ	0.377 U	0.285 U	0.233 UJ	0.246 UJ	0.225 U
4,4'-DDE	µg/kg	0.058	8.11 J	12.8	17.7 J	11.3 J	31.9 J	5.99 J	0.229 UJ	0.241 UJ	0.221 U
4,4'-DDT	µg/kg	0.455	0.32 UJ	0.349 UJ	0.532 UJ	0.41 UJ	0.434 UJ	0.328 UJ	0.269 UJ	0.283 UJ	0.26 UJ

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>NL-14</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	
<i>Sample ID:</i>		<i>SE-121505-NL-14-011</i>	<i>SE-121605-NL-15-002</i>	<i>SE-121605-NL-15-003</i>	<i>SE-121605-NL-15-004</i>	<i>SE-121605-NL-15-005</i>	<i>SE-121605-NL-15-006</i>	<i>SE-121905-NL-15-007</i>	<i>SE-121905-NL-15-008</i>	<i>SE-121905-NL-15-009</i>	
<i>Sample Date:</i>		<i>12/15/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/19/2005</i>	<i>12/19/2005</i>	<i>12/19/2005</i>	
<i>Sample Depth:</i>		<i>28 to 29.5 ft bml</i>	<i>3 to 4.5 ft bml</i>	<i>6 to 7.5 ft bml</i>	<i>9 to 10.5 ft bml</i>	<i>12 to 14.5 ft bml</i>	<i>15 to 16.5 ft bml</i>	<i>18 to 19.5 ft bml</i>	<i>21 to 22.5 ft bml</i>	<i>24 to 25.5 ft bml</i>	
<i>elev_MLLW</i>		<i>-32.1 to -33.6</i>	<i>-4.8 to -6.3</i>	<i>-7.8 to -9.3</i>	<i>-10.8 to -12.3</i>	<i>-13.8 to -16.3</i>	<i>-16.8 to -18.3</i>	<i>-19.8 to -21.3</i>	<i>-22.8 to -24.3</i>	<i>-25.8 to -27.3</i>	
<i>elev_NGVD</i>		<i>-38.4 to -39.9</i>	<i>-11.1 to -12.6</i>	<i>-14.1 to -15.6</i>	<i>-17.1 to -18.6</i>	<i>-20.1 to -22.6</i>	<i>-23.1 to -24.6</i>	<i>-26.1 to -27.6</i>	<i>-29.1 to -30.6</i>	<i>-32.1 to -33.6</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>									
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3.29 U	2.76 U	14.5	14.5	3.18 U	3.12 U	3.02 U	2.81 U	3.07 U
1,1,2-Trichloroethane	µg/kg	15.2	9.02 U	7.57 U	8.38 U	6.76 U	8.73 U	8.55 U	8.29 U	7.72 U	8.43 U
1,1-Dichloroethene	µg/kg	1.13	2.15 U	1.81 U	2 U	1.61 U	2.08 U	2.04 U	1.98 U	1.84 U	2.01 U
Carbon tetrachloride	µg/kg	1.93	2.31 U	13.4	2.15 U	1.73 U	2.24 U	2.19 U	2.12 U	1.98 U	2.16 U
Chloroform (Trichloromethane)	µg/kg	160	2.05 U	261	57.9	3.92 J	11.5	30.1	3.02 J	1.75 U	1.91 U
cis-1,2-Dichloroethene	µg/kg	NV	2.08 U	9.49	5.34 J	5.12 J	10.5	84.7	1.91 U	1.77 U	1.94 U
Methylene chloride	µg/kg	475	3.16 U	2.65 U	2.94 U	2.37 U	3.06 U	2.99 U	2.9 U	2.7 U	2.95 U
Tetrachloroethene	µg/kg	4.88	2.23 U	201	79.4	79.1	54	43.6	3.71 J	1.91 U	2.08 U
trans-1,2-Dichloroethene	µg/kg	3247	2.34 U	2.07 J	10.5	1.8 J	7.63 J	52.8	2.15 U	2 U	2.18 U
Trichloroethene	µg/kg	30.8	2.19 U	23.4	25.7	52.8	34.3	31.7	2.01 U	1.87 U	2.05 U
Vinyl chloride	µg/kg	0.73	2.61 U	2.19 U	2.42 U	1.95 U	2.52 U	6.92 J	2.39 U	2.23 U	2.44 U
<i>Semi-volatile Organic Compounds</i>											
Hexachlorobenzene	µg/kg	0.062	0.971 U	0.94 U	1.02 U	66.2	0.946 U	0.917 U	0.88 U	0.897 U	0.879 U
Hexachlorobutadiene	µg/kg	0.702	3.53 U	90.7	342	158	70.7	42.3	3.2 U	3.27 U	3.2 U
Pentachlorophenol	µg/kg	6.94	1.67 U	31.8 J	2.72 J	1.47 U	1.63 U	1.58 U	1.52 U	1.55 U	1.52 U
<i>Metals~Total</i>											
Arsenic	µg/kg	146	1070 U	14200	21100	10900	45000	117000	1480	2250	1020 U
Chromium	µg/kg	714	10700	28900	34600	20500	30600 J	72700 J	12400	14100	14400
Copper	µg/kg	53.5	11500	156000 J	90100 J	202000 J	78200 J	161000 J	13200	17800	14200
Lead	µg/kg	81002	2040 U	779000	934000	524000	377000 J	1360000 J	11900	11000	1480
Mercury	µg/kg	1.31	5.25 U	68.9	431	33.6	151	231	5.42 U	4.85 J	5.5 U
Nickel	µg/kg	535	7110	169000	75800	48000	57200 J	109000 J	8110	9190	8930
Thallium	µg/kg	34	28.8 U	49.1 U	84.7 U	60.7 U	97.1 J	130 J	29.5 U	79.4 J	45.8 J
Zinc	µg/kg	5045	16600 U	140000 J	191000 J	83400 J	240000 J	223000 J	19100 J	24300 J	18900 J
<i>PCBs</i>											
Total PCBs	µg/kg	0.053	3.49 U	3.7 U	4.03 U	125	3.59 U	3.62 U	3.59 U	3.59 U	3.75 U
<i>Pesticides</i>											
4,4'-DDD	µg/kg	0.043	0.241 U	0.206 U	0.285 U	0.171 U	0.232 U	0.224 U	0.216 U	0.22 U	0.234 U
4,4'-DDE	µg/kg	0.058	0.237 U	0.202 U	0.279 U	0.168 U	0.228 U	0.219 U	0.211 U	0.216 U	0.23 U
4,4'-DDT	µg/kg	0.455	0.278 UJ	0.238 UJ	0.328 UJ	0.197 UJ	0.268 UJ	0.258 UJ	0.248 UJ	0.253 UJ	0.27 UJ

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		NL-15	NL-16	NL-16	NL-16	NL-16	NL-16	NL-16	NL-16	NL-17
Sample ID:		SE-121905-NL-15-010	SE-051806-NL-16-BI-002	SE-051806-NL-16-BI-003	SE-051906-NL-16-BI-004	SE-051906-NL-16-BI-005	SE-051906-NL-16-BI-006	SE-051906-NL-16-BI-007	S-033106-GH-NL-17-001	
Sample Date:		12/19/2005	5/18/2006	5/18/2006	5/19/2006	5/19/2006	5/19/2006	5/19/2006	3/31/2006	
Sample Depth:		27 to 28.5 ft bml	5 to 7 ft bml	8 to 10 ft bml	11 to 13 ft bml	14 to 16 ft bml	17 to 19 ft bml	20 to 22 ft bml	12 to 14 ft bml	
elev_MLLW		-28.8 to -30.3	-14 to -16	-17 to -19	-20 to -22	-23 to -25	-26 to -28	-29 to -31	-13 to -15	
elev_NGVD		-35.1 to -36.6	-20.3 to -22.3	-23.3 to -25.3	-26.3 to -28.3	-29.3 to -31.3	-32.3 to -34.3	-35.3 to -37.3	-19.3 to -21.3	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.87 U	10 U	8.1 U	11 UJ	9.9 U	6.3 U	6.8 U	7.6 U
1,1,2-Trichloroethane	µg/kg	15.2	7.87 U	9.6 U	7.5 U	9.7 U	9.1 U	5.8 U	6.3 U	7.0 U
1,1-Dichloroethene	µg/kg	1.13	1.88 U	8.9 U	6.9 U	9.0 U	8.4 U	5.3 U	5.8 U	6.5 U
Carbon tetrachloride	µg/kg	1.93	2.02 U	29	4.1 U	5.3 U	5.0 U	3.1 U	3.4 U	3.8 U
Chloroform (Trichloromethane)	µg/kg	160	1.79 U	430	82	4.6 U	55	6.4 J	3.0 U	3.3 U
cis-1,2-Dichloroethene	µg/kg	NV	1.81 U	6.9 U	5.3 U	27 J	6.5 U	4.1 U	4.5 U	26
Methylene chloride	µg/kg	475	2.76 U	4.9 U	3.8 U	4.9 U	4.6 U	2.9 U	3.2 U	3.5 U
Tetrachloroethene	µg/kg	4.88	1.95 U	300	64	7.5 U	22	4.5 U	4.9 U	8.6 J
trans-1,2-Dichloroethene	µg/kg	3247	2.04 U	5.7 U	4.5 U	5.8 U	5.4 U	3.4 U	3.7 U	8.6 J
Trichloroethene	µg/kg	30.8	1.91 U	13 J	5.3 U	6.9 U	6.5 U	4.1 U	4.5 U	5.5 J
Vinyl chloride	µg/kg	0.73	2.27 U	8.4 U	6.5 U	8.5 U	7.9 U	5.0 U	5.5 U	6.1 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	0.939 U	490 J	170 J	2.5 J	60 J	1.1 J	0.95 UJ	110
Hexachlorobutadiene	µg/kg	0.702	3.42 U	1000	490	3.8 U	85	3.0 U	3.5 U	160
Pentachlorophenol	µg/kg	6.94	1.62 U	1100 J	370 J	24 J	96 J	2.0 J	R	26
Metals~Total										
Arsenic	µg/kg	146	1220	30000	10000	14000	27000	1100	1000	-
Chromium	µg/kg	714	14000	63000	33000	11000	18000	4500	6700	-
Copper	µg/kg	53.5	14900	320000	95000	18000	80000	9000	12000	-
Lead	µg/kg	81002	1440	5300000	1900000	5400	690000	48000	2100	-
Mercury	µg/kg	1.31	4.39 U	220	160	12 U	330	11 U	10 U	-
Nickel	µg/kg	535	8710	190000	130000	14000	580000	11000	7200	-
Thallium	µg/kg	34	38.4 J	52 U	33 U	50 U	71 U	11 U	28 U	-
Zinc	µg/kg	5045	19700 J	590000	200000	22000	140000	9700	14000	-
PCBs										
Total PCBs	µg/kg	0.053	3.65 U	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	0.244 U	4.0 U	2.9 U	2.8 U	69 J	2.2 U	2.6 U	-
4,4'-DDE	µg/kg	0.058	0.239 U	4.0 U	2.9 U	2.8 U	47 J	2.2 U	2.6 U	-
4,4'-DDT	µg/kg	0.455	0.281 UJ	4.0 U	2.9 U	2.8 U	3.4 U	2.2 U	2.6 U	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-17</i>	<i>NL-18</i>	<i>NL-18</i>	<i>NL-18</i>	<i>NL-18</i>	<i>NL-19</i>	<i>NL-19</i>	<i>NL-19</i>	
<i>Sample ID:</i>		<i>S-033106-GH-NL-17-002</i>	<i>S-080106-LH-NL18-003</i>	<i>S-080106-LH-NL18-004</i>	<i>S-080106-LH-NL18-005</i>	<i>S-080106-LH-NL18-006</i>	<i>S-072706-LH-NL19-002</i>	<i>S-072706-LH-NL19-003</i>	<i>S-072706-LH-NL19-004</i>	
<i>Sample Date:</i>		<i>3/31/2006</i>	<i>8/1/2006</i>	<i>8/1/2006</i>	<i>8/1/2006</i>	<i>8/1/2006</i>	<i>7/27/2006</i>	<i>7/27/2006</i>	<i>7/27/2006</i>	
<i>Sample Depth:</i>		<i>18 to 20 ft bml</i>	<i>8 to 10 ft bgs</i>	<i>12 to 14 ft bgs</i>	<i>18 to 20 ft bgs</i>	<i>24 to 26 ft bgs</i>	<i>4 to 6 ft bgs</i>	<i>8 to 10 ft bgs</i>	<i>12 to 14 ft bgs</i>	
<i>elev_MLLW</i>		<i>-19 to -21</i>	<i>9.92 to 7.92</i>	<i>5.92 to 3.92</i>	<i>-0.08 to -2.08</i>	<i>-6.08 to -8.08</i>	<i>13.92 to 11.92</i>	<i>9.92 to 7.92</i>	<i>5.92 to 3.92</i>	
<i>elev_NGVD</i>		<i>-25.3 to -27.3</i>	<i>3.6 to 1.6</i>	<i>-0.4 to -2.4</i>	<i>-6.4 to -8.4</i>	<i>-12.4 to -14.4</i>	<i>7.6 to 5.6</i>	<i>3.6 to 1.6</i>	<i>-0.4 to -2.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	8.2 U	1.5 U	1.6 U	1.5 U	1.6 U	1.3 U	1.6 U	1.5 U
1,1,2-Trichloroethane	µg/kg	15.2	7.6 U	0.59 U	0.60 U	0.59 U	0.61 U	0.51 U	0.63 U	0.59 U
1,1-Dichloroethene	µg/kg	1.13	7.0 U	0.96 U	0.99 U	0.98 U	1 U	0.84 U	1 U	0.98 U
Carbon tetrachloride	µg/kg	1.93	4.1 U	0.98 U	1 U	0.99 U	1 U	0.85 U	1 U	0.99 U
Chloroform (Trichloromethane)	µg/kg	160	3.6 U	1.8 U	1.8 U	1.8 U	1.5 U	1.9 U	1.8 U	1.8 U
cis-1,2-Dichloroethene	µg/kg	NV	5.4 U	1.3 U	1.4 U	1.3 U	2.3 J	1.1 U	1.4 U	1.3 U
Methylene chloride	µg/kg	475	3.9 U	6.1	5.8 U	5.7 U	5.8 U	4.9 U	6.0 U	5.7 U
Tetrachloroethene	µg/kg	4.88	5.9 U	30	12	0.67 U	8.8	10	0.70 U	1.7 J
trans-1,2-Dichloroethene	µg/kg	3247	4.5 U	1.6 U	1.7 U	1.7 U	1.7 UJ	1.4 U	1.8 U	1.7 U
Trichloroethene	µg/kg	30.8	5.4 U	2.9 J	2.8 J	0.88 U	6.4 J	0.76 UJ	0.92 UJ	1.8 J
Vinyl chloride	µg/kg	0.73	6.6 U	2.0 U	2.1 U	2.1 U	2.1 U	1.8 U	2.2 U	2.1 U
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	1.7 J	2.0 U	2.0 U	2.0 U	2.0 U	1.7 U	2.1 U	2.0 U
Hexachlorobutadiene	µg/kg	0.702	5.6 J	9.3	1 U	0.99 U	1 U	7.0	1 U	0.99 U
Pentachlorophenol	µg/kg	6.94	4.5 J	4.0 U	4.2 U	4.1 U	4.2 U	3.5 U	4.3 U	4.1 U
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	4600	640	3500	260 J	710	3100	4000
Chromium	µg/kg	714	-	34200	2600	6100	3100	1900	2900	4300
Copper	µg/kg	53.5	-	49200	4900	12300	7100	5100	4600	6000
Lead	µg/kg	81002	-	589000	630	2100	840	2600	4000	14600
Mercury	µg/kg	1.31	-	100 U	30 U	35 U	38 U	18 U	22 U	21 U
Nickel	µg/kg	535	-	26100	4300	7100	4100	3200 J	37000 J	28100 J
Thallium	µg/kg	34	-	26 U	27 U	63 J	27 U	23 U	29 J	26 U
Zinc	µg/kg	5045	-	353000	10700	18200	9900	16800 J	19000 J	79600 J
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	490	12 U	12 U	13 U	10 U	13 U	12 U
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		NL-19	NL-19	NL-20	NL-20	NL-20	NL-20	NL-20	NL-20	
<i>Sample ID:</i>		S-080106-LH-NL19-005	S-080106-LH-NL19-006	S-072706-LH-NL20-002	S-072706-LH-NL20-003	S-072706-LH-NL20-004	S-072706-LH-NL20-005	S-072706-LH-NL20-006	S-072706-LH-NL20-007	
<i>Sample Date:</i>		8/1/2006	8/1/2006	7/27/2006	7/27/2006	7/27/2006	7/27/2006	7/27/2006	7/27/2006	
<i>Sample Depth:</i>		18 to 20 ft bgs	24 to 26 ft bgs	4 to 6 ft bgs	8 to 10 ft bgs	8 to 10 ft bgs	12 to 14 ft bgs	18 to 20 ft bgs	24 to 26 ft bgs	
<i>elev_MLLW</i>		-0.08 to -2.08	-6.08 to -8.08	13.92 to 11.92	9.92 to 7.92	9.92 to 7.92	5.92 to 3.92	-0.08 to -2.08	-6.08 to -8.08	
<i>elev_NGVD</i>		-6.4 to -8.4	-12.4 to -14.4	7.6 to 5.6	3.6 to 1.6	3.6 to 1.6	-0.4 to -2.4	-6.4 to -8.4	-12.4 to -14.4	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.5 U	1.5 U	1.4 U	1.6 U	1.6 U	1.6 U	1.5 UJ	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.59 U	0.58 U	0.53 U	0.61 U	0.61 U	0.62 U	0.59 UJ	0.63 U
1,1-Dichloroethene	µg/kg	1.13	0.96 U	0.96 U	0.87 U	1 U	1 U	1 U	0.97 UJ	1 U
Carbon tetrachloride	µg/kg	1.93	0.98 U	0.97 U	0.88 U	1 U	1 U	1 U	0.98 UJ	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.7 UJ	1.7 U	1.6 U	1.8 U	1.8 U	1.8 U	1.8 UJ	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	6.4 J	1.3 U	1.2 U	1.4 U	1.4 U	1.4 U	1.3 UJ	1.4 U
Methylene chloride	µg/kg	475	5.6 U	5.6 U	5.0 U	7.8	5.8 U	5.9 U	5.6 UJ	6.0 U
Tetrachloroethene	µg/kg	4.88	23	0.66 U	3.7 J	0.69 U	0.69 U	2.8 J	0.66 UJ	0.71 U
trans-1,2-Dichloroethene	µg/kg	3247	1.6 UJ	1.6 U	1.5 U	1.7 U	1.7 U	1.7 U	1.7 UJ	1.8 U
Trichloroethene	µg/kg	30.8	20 J	0.86 U	0.88 J	0.90 U	0.90 U	1.3 J	0.87 UJ	0.93 U
Vinyl chloride	µg/kg	0.73	2.0 U	2.0 U	1.9 U	2.1 U	2.1 U	2.2 U	2.1 UJ	2.2 U
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	2.0 U	1.9 U	1.8 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U
Hexachlorobutadiene	µg/kg	0.702	0.98 U	0.97 U	0.88 U	1 U	1.2 J	1 U	0.98 U	1.1 U
Pentachlorophenol	µg/kg	6.94	4.0 U	4.0 U	3.6 U	4.2 U	4.2 U	4.2 U	4.1 UJ	4.3 U
<i>Metals~Total</i>										
Arsenic	µg/kg	146	3000	150 J	1300	1400	3000	1800	1500	2000
Chromium	µg/kg	714	7400	2200	5100	3400	5000	7100	2500	11500
Copper	µg/kg	53.5	8900	5800	12000	11700	19800	7700	4700	13500
Lead	µg/kg	81002	1200	720	4500	173000	212000	154000	710	1300
Mercury	µg/kg	1.31	23 U	23 U	49 U	24 U	21 U	22 U	21 U	34 U
Nickel	µg/kg	535	9600	3500	7800 J	8000 J	13300 J	13100 J	3300 J	7600 J
Thallium	µg/kg	34	32 J	26 U	24 U	27 U	27 U	28 U	26 U	84 J
Zinc	µg/kg	5045	26500	8000	18200 J	15700 J	26400 J	32000 J	9800 J	18500 J
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	12 U	12 U	11 U	13 U	13 U	13 U	12 U	13 U
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		NL-21	NL-21	NL-21	NL-21	NL-21	NL-22	NL-22	NL-22	
<i>Sample ID:</i>		S-072506-LH-NL21-002	S-072506-LH-NL21-003	S-072506-LH-NL21-004	S-072606-LH-NL21-005	S-072606-LH-NL21-006	S-072506-LH-NL22-002	S-072506-LH-NL22-003	S-072506-LH-NL22-004	
<i>Sample Date:</i>		7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	
<i>Sample Depth:</i>		4 to 6 ft bgs	8 to 10 ft bgs	12 to 14 ft bgs	18 to 20 ft bgs	24 to 26 ft bgs	4 to 8 ft bgs	10 to 12 ft bgs	14 to 16 ft bgs	
<i>elev_MLLW</i>		13.92 to 11.92	9.92 to 7.92	5.92 to 3.92	-0.08 to -2.08	-6.08 to -8.08	13.92 to 9.92	7.92 to 5.92	3.92 to 1.92	
<i>elev_NGVD</i>		7.6 to 5.6	3.6 to 1.6	-0.4 to -2.4	-6.4 to -8.4	-12.4 to -14.4	7.6 to 3.6	1.6 to -0.4	-2.4 to -4.4	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6.85 U	6.32 U	8.35 U	5.03 U	5.84 U	7.56 U	6.28 U	8.02 U
1,1,2-Trichloroethane	µg/kg	15.2	1.71 U	1.58 U	2.09 U	1.26 U	1.46 U	1.89 U	1.57 U	2.01 U
1,1-Dichloroethene	µg/kg	1.13	4.11 U	3.79 U	5.01 U	3.02 U	3.50 U	4.53 U	3.77 U	4.81 U
Carbon tetrachloride	µg/kg	1.93	6.85 U	6.32 U	8.35 U	5.03 U	5.84 U	7.56 U	6.28 U	8.02 U
Chloroform (Trichloromethane)	µg/kg	160	3.43 U	3.16 U	4.17 U	2.51 U	2.92 U	5.44	3.14 U	4.01 U
cis-1,2-Dichloroethene	µg/kg	NV	4.11 U	3.79 U	5.01 U	3.02 U	3.50 U	4.53 U	3.77 U	4.81 U
Methylene chloride	µg/kg	475	4.34 J	2.59 J	2.66 J	1.37 J	1.76 J	5.29 U	1.47 J	3.37 J
Tetrachloroethene	µg/kg	4.88	2.74 U	2.53 U	3.34 U	2.01 U	2.34 U	19.5	2.51 U	3.21 U
trans-1,2-Dichloroethene	µg/kg	3247	3.43 U	3.16 U	4.17 U	2.51 U	2.92 U	3.78 U	3.14 U	4.01 U
Trichloroethene	µg/kg	30.8	3.43 U	3.16 U	1.70 J	2.51 U	2.92 U	33.2	2.01 J	4.01 U
Vinyl chloride	µg/kg	0.73	3.43 U	3.16 U	4.17 U	2.51 U	2.92 U	3.78 U	3.14 U	4.01 U
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	0.140 J	0.0975 J	1.59 U	1.19 U	1.32 U	275	0.230 J	1.67 U
Hexachlorobutadiene	µg/kg	0.702	13.7 U	12.6 U	16.7 U	10.1 U	11.7 U	14.7 J	12.6 U	16.0 U
Pentachlorophenol	µg/kg	6.94	32.4 U	32.6 U	32.7 U	32.5 U	32.8 U	32.8 U	32 U	32 U
<i>Metals~Total</i>										
Arsenic	µg/kg	146	1770	3670	1460	2980	2960	6150	723	3000
Chromium	µg/kg	714	7840	6020	1880	10500	10800	20100	7610	13300
Copper	µg/kg	53.5	9750	4080	2980	12100	20400	98800	9610	25200
Lead	µg/kg	81002	18300	41300	14500	1860	2440	2740000	2480	5000
Mercury	µg/kg	1.31	457 U	450 U	298 U	457 U	527 U	528 U	350 U	579 U
Nickel	µg/kg	535	5040	2170	857	11300	9990	57800	6550	11300
Thallium	µg/kg	34	550 U	749 U	516 U	617 U	730 U	395 U	544 U	179 J
Zinc	µg/kg	5045	31000	8940	7070	24900	23700	188000	32100	33600
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	62.1 U	64.6 U	79.5 U	59.6 U	66.0 U	73.7 U	65.3 U	83.4 U
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		NL-22	NL-22	NL-22	NL-23	NL-23	NL-23	NL-23	NL-23	
Sample ID:		S-072506-LH-NL22-005	S-072506-LH-NL22-006	S-072506-LH-NL22-007	SE-081106-LH-NL23-001	SE-081406-LH-NL23-002	SE-081506-LH-NL23-003	SE-081506-LH-NL23-004	SE-081506-LH-NL23-005	
Sample Date:		7/25/2006	7/25/2006	7/25/2006	8/11/2006	8/14/2006	8/15/2006	8/15/2006	8/15/2006	
Sample Depth:		18 to 20 ft bgs	22 to 24 ft bgs	24 to 26 ft bgs	6 to 7.5 ft bml	15 to 16.5 ft bml	18 to 19.5 ft bml	21 to 22.5 ft bml	24 to 25.5 ft bml	
elev_MLLW		-0.08 to -2.08	-4.08 to -6.08	-6.08 to -8.08	-14 to -15.5	-23 to -24.5	-26 to -27.5	-29 to -30.5	-32 to -33.5	
elev_NGVD		-6.4 to -8.4	-10.4 to -12.4	-12.4 to -14.4	-20.3 to -21.8	-29.3 to -30.8	-32.3 to -33.8	-35.3 to -36.8	-38.3 to -39.8	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.80 U	6.61 U	5.54 U	4.3 UJ	2.6 U	2.2 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	1.45 U	1.65 U	1.39 U	1.7 UJ	1 U	0.84 U	0.62 UJ	0.63 U
1,1-Dichloroethene	µg/kg	1.13	3.48 U	3.97 U	3.33 U	2.8 UJ	1.6 U	1.4 U	1 U	1 U
Carbon tetrachloride	µg/kg	1.93	5.80 U	6.61 U	5.54 U	2.8 UJ	1.7 U	1.4 U	1 UJ	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	2.90 U	3.30 U	2.77 U	5.0 UJ	3.0 U	2.5 U	1.8 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	3.48 U	1.32 J	3.33 U	510 J	27 J	15	1.4 UJ	2.4 J
Methylene chloride	µg/kg	475	4.06 U	4.30 J	3.88 U	16 UJ	110 J	8.0 U	5.9 U	6.0 U
Tetrachloroethene	µg/kg	4.88	1.31 J	2.64 U	2.22 U	150 J	1.3 J	4.9 J	0.69 U	0.71 U
trans-1,2-Dichloroethene	µg/kg	3247	2.90 U	3.30 U	2.77 U	15 J	16 J	4.8 J	1.7 U	1.8 U
Trichloroethene	µg/kg	30.8	2.39 J	3.30 U	2.77 U	300 J	3.9 J	8.8 J	0.91 UJ	0.93 U
Vinyl chloride	µg/kg	0.73	2.90 U	3.30 U	2.77 U	110 J	200 J	2.9 U	2.2 U	2.2 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	1.21 U	1.41 U	1.31 U	840	110	50	2.1 U	2.1 U
Hexachlorobutadiene	µg/kg	0.702	11.6 U	13.2 U	11.1 U	150	190	57	1 U	1.1 U
Pentachlorophenol	µg/kg	6.94	32.3 U	33.4 U	32.8 U	130	6.9 U	5.7 U	4.2 U	4.3 U
Metals~Total										
Arsenic	µg/kg	146	2300	3250	1700	23900	30000 J	28600	1300	1400
Chromium	µg/kg	714	9600	14200	8630	29100	32500 J	27200	10100	14900
Copper	µg/kg	53.5	11400	32100	12300	98600	101000 J	135000	14800	15700
Lead	µg/kg	81002	2180	6150	1600	670000	738000 J	552000	1400	1600
Mercury	µg/kg	1.31	506 U	451 U	493 U	420	500 J	300	22 U	22 U
Nickel	µg/kg	535	8540	12200	6910	63500	133000 J	152000	7300	9700
Thallium	µg/kg	34	611 U	744 U	416 U	130 J	150 J	98 J	42 J	46 J
Zinc	µg/kg	5045	19400	35000	16800	181000	323000 J	218000	19500	22900 J
PCBs										
Total PCBs	µg/kg	0.053	60.3 U	70.6 U	65.5 U	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		NL-24	NL-24	NL-24	NL-24	NL-25	NL-25	NL-25
Sample ID:		SE-011507-BS-NL-24-002	SE-011507-BS-NL-24-003	SE-011507-BS-NL-24-004	SE-011507-BS-NL-24-005	SE-011807-ILM-NL-25-002	SE-011807-ILM-NL-25-003	SE-011807-ILM-NL-25-004
Sample Date:		1/15/2007	1/15/2007	1/15/2007	1/15/2007	1/18/2007	1/18/2007	1/18/2007
Sample Depth:		5 to 8 ft bml	10 to 13 ft bml	15 to 18 ft bml	20 to 23 ft bml	5 to 8 ft bml	5 to 8 ft bml	10 to 13 ft bml
elev_MLLW		-29.39 to -32.39	-34.39 to -37.39	-39.39 to -42.39	-44.39 to -47.39	-32.5 to -35.5	-32.5 to -35.5	-37.5 to -40.5
elev_NGVD		-35.7 to -38.7	-40.7 to -43.7	-45.7 to -48.7	-50.7 to -53.7	-38.8 to -41.8	-38.8 to -41.8 (Duplicate)	-43.8 to -46.8
Parameters	Units	Cs						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.7 U	1.6 U	1.6 U	1.7 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.67 U	0.64 U	0.62 U	0.65 U	0.62 U	0.64 U
1,1-Dichloroethene	µg/kg	1.13	1.1 U	1.1 U	1.0 U	1.0 U	1.1 U	1.1 U
Carbon tetrachloride	µg/kg	1.93	1.1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	12	7.7	5.1 J	3.9 J	1.4 U	1.4 U
Methylene chloride	µg/kg	475	6.4 U	6.1 U	5.9 U	5.9 U	6.2 U	6.1 U
Tetrachloroethene	µg/kg	4.88	0.75 U	0.72 U	0.70 U	0.69 U	0.73 U	0.70 U
trans-1,2-Dichloroethene	µg/kg	3247	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U
Trichloroethene	µg/kg	30.8	4.3 J	0.94 U	0.91 U	0.91 U	0.96 U	0.92 U
Vinyl chloride	µg/kg	0.73	2.4 U	2.2 U	2.2 U	2.3 U	2.2 U	2.2 U
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	0.062	7.1	2.3 J	2.1 U	2.1 U	2.2 U	2.1 U
Hexachlorobutadiene	µg/kg	0.702	2.6 J	1.5 J	1.2 J	1.0 U	1.7 J	1.0 U
Pentachlorophenol	µg/kg	6.94	R	R	R	R	R	R
Metals~Total								
Arsenic	µg/kg	146	2900	1500	1300	860	1600	1600
Chromium	µg/kg	714	5900 J	9200 J	8200 J	8000 J	9200	8600
Copper	µg/kg	53.5	22600	17400	15900	11700	10100	9000
Lead	µg/kg	81002	20100 J	3700 J	3400 J	3600 J	6600	11700
Mercury	µg/kg	1.31	24 U	22 U	22 U	22 U	34 U	25 U
Nickel	µg/kg	535	6600	9200	8200	7200	9400	8100
Thallium	µg/kg	34	38 J	48 J	44 J	28 J	30 J	28 U
Zinc	µg/kg	5045	21500 J	21200 J	18900 J	17100 J	19500	16600
PCBs								
Total PCBs	µg/kg	0.053	14 U	13 U	13 U	13 U	13 U	13 U
Pesticides								
4,4'-DDD	µg/kg	0.043	2.5 U	2.4 U	2.3 U	2.3 U	2.4 U	2.3 U
4,4'-DDE	µg/kg	0.058	2.2 U	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U
4,4'-DDT	µg/kg	0.455	0.60 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-25</i>	<i>NL-25</i>	<i>NL-26</i>	<i>NL-26</i>	<i>NL-26</i>	<i>NL-26</i>	<i>NL-26</i>
<i>Sample ID:</i>		<i>SE-011807-ILM-NL-25-005</i>	<i>SE-011907-ILM-NL-25-006</i>	<i>SE-011707-ILM-NL-26-002</i>	<i>SE-011707-ILM-NL-26-003</i>	<i>SE-011807-ILM-NL-26-004</i>	<i>SE-011807-ILM-NL-26-005</i>	<i>SE-011807-ILM-NL-26-006</i>
<i>Sample Date:</i>		<i>1/18/2007</i>	<i>1/19/2007</i>	<i>1/17/2007</i>	<i>1/17/2007</i>	<i>1/18/2007</i>	<i>1/18/2007</i>	<i>1/18/2007</i>
<i>Sample Depth:</i>		<i>15 to 18 ft bml</i>	<i>20 to 23 ft bml</i>	<i>5 to 8 ft bml</i>	<i>10 to 13 ft bml</i>	<i>15 to 18 ft bml</i>	<i>15 to 18 ft bml</i>	<i>20 to 23 ft bml</i>
<i>elev_MLLW</i>		<i>-42.5 to -45.5</i>	<i>-47.5 to -50.5</i>	<i>-25.4 to -28.4</i>	<i>-30.4 to -33.4</i>	<i>-35.4 to -38.4</i>	<i>-35.4 to -38.4</i>	<i>-40.4 to -43.4</i>
<i>elev_NGVD</i>		<i>-48.8 to -51.8</i>	<i>-53.8 to -56.8</i>	<i>-31.7 to -34.7</i>	<i>-36.7 to -39.7</i>	<i>-41.7 to -44.7</i>	<i>-41.7 to -44.7</i>	<i>-46.7 to -49.7</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>					<i>(Duplicate)</i>	
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.7 U	1.7 U	1.5 U	1.6 U	1.6 U	1.5 U
1,1,2-Trichloroethane	µg/kg	15.2	0.65 U	0.66 U	0.59 U	0.62 U	0.61 U	0.60 U
1,1-Dichloroethene	µg/kg	1.13	1.1 U	1.1 U	0.96 U	1.0 U	1.0 U	0.98 U
Carbon tetrachloride	µg/kg	1.93	1.1 U	1.1 U	0.98 U	1.0 U	1.0 U	0.99 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	2.0 U	1.7 U	1.9 U	1.8 U	1.8 U
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	1.5 U	1.3 U	1.4 U	1.4 U	1.3 U
Methylene chloride	µg/kg	475	6.2 U	6.3 U	19	20	12	8.5
Tetrachloroethene	µg/kg	4.88	0.73 U	0.74 U	0.66 U	0.70 U	0.68 U	0.67 U
trans-1,2-Dichloroethene	µg/kg	3247	1.8 U	1.9 U	1.6 U	1.8 U	1.7 U	1.7 U
Trichloroethene	µg/kg	30.8	0.98 U	0.98 U	0.87 U	0.92 U	0.90 U	0.88 U
Vinyl chloride	µg/kg	0.73	2.3 U	2.3 U	2.0 U	2.2 U	2.1 U	2.1 U
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	2.2 U	2.2 U	2.0 U	2.8 J	2.0 U	2.0 U
Hexachlorobutadiene	µg/kg	0.702	1.1 U	1.1 U	0.98 U	1.7 J	1.1 J	2.3 J
Pentachlorophenol	µg/kg	6.94	R	R	R	R	R	4.1 U
<i>Metals~Total</i>								
Arsenic	µg/kg	146	1300	790	2200	2100	1500	1600
Chromium	µg/kg	714	9200	9200	6100	8300	9600	18200
Copper	µg/kg	53.5	11900	9800	10000	13200	13700	15000
Lead	µg/kg	81002	2800	1300	4800	8000	6100	6500
Mercury	µg/kg	1.31	39 U	40 U	23 U	30 U	30 U	29 U
Nickel	µg/kg	535	6900	5800	6100	9700	9000	10400
Thallium	µg/kg	34	29 U	30 U	77 J	60 J	58 J	62 J
Zinc	µg/kg	5045	17600	15600	13400	17500	17400	25000
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	13 U	14 U	12 U	13 U	12 U	12 U
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	2.4 U	2.5 U	2.2 U	2.3 U	2.3 U	2.2 U
4,4'-DDE	µg/kg	0.058	2.2 U	2.2 U	2.0 U	2.1 U	2.0 U	2.0 U
4,4'-DDT	µg/kg	0.455	0.50 U	0.60 U	0.50 U	0.50 U	0.50 U	0.50 U

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		NL-28	NL-28	NL-28	NL-28	NL-29	NL-29	NL-29	NL-29	
Sample ID:		SE-011707-BS-NL-28-002	SE-011707-BS-NL-28-003	SE-011707-BS-NL-28-004	SE-011707-BS-NL-28-005	SE-011807-BS-NL-29-002	SE-011807-BS-NL-29-003	SE-011807-BS-NL-29-004	SE-011807-BS-NL-29-005	
Sample Date:		1/17/2007	1/17/2007	1/17/2007	1/17/2007	1/18/2007	1/18/2007	1/18/2007	1/18/2007	
Sample Depth:		5 to 8 ft bml	10 to 13 ft bml	15 to 18 ft bml	20 to 23 ft bml	5 to 8 ft bml	10 to 13 ft bml	15 to 18 ft bml	20 to 23 ft bml	
elev_MLLW		-8.4 to -11.4	-13.4 to -16.4	-18.4 to -21.4	-23.4 to -26.4	-9.5 to -12.5	-14.5 to -17.5	-19.5 to -22.5	-24.5 to -27.5	
elev_NGVD		-14.7 to -17.7	-19.7 to -22.7	-24.7 to -27.7	-29.7 to -32.7	-15.8 to -18.8	-20.8 to -23.8	-25.8 to -28.8	-30.8 to -33.8	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.9 U	1.6 U	1.6 U	1.6 U	2.5 U	1.6 UJ	1.5 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.73 U	0.62 U	0.60 U	0.63 U	0.97 U	0.62 UJ	0.57 U	0.63 U
1,1-Dichloroethene	µg/kg	1.13	1.2 U	1.0 U	0.99 U	1.0 U	1.6 U	1.0 UJ	0.93 U	1.0 U
Carbon tetrachloride	µg/kg	1.93	1.2 U	1.0 U	1.0 U	1.1 U	1.6 U	1.0 UJ	0.94 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	2.2 U	1.9 U	1.8 U	1.9 U	2.9 U	1.8 UJ	1.7 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	1.6 U	1.4 U	1.3 U	1.4 U	2.2 U	1.4 UJ	1.3 U	1.4 U
Methylene chloride	µg/kg	475	7.0 U	6.0 U	9.1	8.7	9.3 U	5.9 UJ	5.4 U	8.7
Tetrachloroethene	µg/kg	4.88	0.82 U	0.70 U	0.68 U	0.71 U	1.1 U	R	0.64 U	0.71 U
trans-1,2-Dichloroethene	µg/kg	3247	2.1 U	1.8 U	1.7 U	1.8 U	2.7 U	1.7 UJ	1.6 U	1.8 U
Trichloroethene	µg/kg	30.8	1.6 J	0.92 U	0.89 U	0.94 U	2.5 J	0.91 UJ	0.84 U	0.93 U
Vinyl chloride	µg/kg	0.73	2.6 U	2.2 U	2.1 U	2.2 U	3.4 U	2.2 UJ	2.0 U	2.2 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	310	23	5.7 J	2.1 U	59	9.6	1.9 U	2.1 U
Hexachlorobutadiene	µg/kg	0.702	390	16	6.1 J	1.1 U	52	3.7 J	0.94 U	1.1 U
Pentachlorophenol	µg/kg	6.94	77 J	R	R	R	36 J	R	R	R
Metals~Total										
Arsenic	µg/kg	146	9900	1800	2100	1100	6100	5400	2500	1400
Chromium	µg/kg	714	47700	7300	13900	9200	36600	18100	14500	19000
Copper	µg/kg	53.5	123000	13400	18500	13100	34200	22500	16100	17300
Lead	µg/kg	81002	6770000	378000	224000 J	42200 J	488000	114000	4400	3400
Mercury	µg/kg	1.31	180 U	62 U	21 U	22 U	220	82 U	25 U	22 U
Nickel	µg/kg	535	132000	8700	10800	7700	32400	41700	12500	9900
Thallium	µg/kg	34	49 J	28 U	31 J	28 U	67 J	81 J	89 J	47 J
Zinc	µg/kg	5045	287000	32500	31300	20600	115000	44400	26000	26600
PCBs										
Total PCBs	µg/kg	0.053	1500 U	13 U	12 U	13 U	2000 U	13 U	12 U	13 U
Pesticides										
4,4'-DDD	µg/kg	0.043	270 U	2.3 U	2.3 U	2.4 U	360 U	2.3 U	2.1 UJ	2.4 U
4,4'-DDE	µg/kg	0.058	240 U	2.1 U	2.0 U	2.1 U	320 U	2.1 U	1.9 U	2.1 U
4,4'-DDT	µg/kg	0.455	61 U	0.50 U	0.50 U	0.50 U	81 U	0.50 U	0.50 U	0.50 U

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-30</i>	<i>NL-30</i>	<i>NL-30</i>	<i>NL-30</i>	<i>NTD-1</i>	<i>NTD-1</i>	<i>NTD-1</i>	<i>NTD-1</i>
<i>Sample ID:</i>		<i>SE-011907-BS-NL-30-002</i>	<i>SE-011907-BS-NL-30-003</i>	<i>SE-011907-ILM-NL-30-004</i>	<i>SE-011907-ILM-NL-30-005</i>	<i>S-011007-TS-NTD1-002</i>	<i>S-011007-TS-NTD1-003</i>	<i>S-011007-TS-NTD1-004</i>	<i>S-011007-TS-NTD1-005</i>
<i>Sample Date:</i>		<i>1/19/2007</i>	<i>1/19/2007</i>	<i>1/19/2007</i>	<i>1/19/2007</i>	<i>1/10/2007</i>	<i>1/10/2007</i>	<i>1/10/2007</i>	<i>1/10/2007</i>
<i>Sample Depth:</i>		<i>5 to 8 ft bml</i>	<i>10 to 13 ft bml</i>	<i>15 to 18 ft bml</i>	<i>20 to 23 ft bml</i>	<i>13 to 15 ft bgs</i>	<i>23 to 25 ft bgs</i>	<i>23 to 25 ft bgs</i>	<i>33 to 35 ft bgs</i>
<i>elev_MLLW</i>		<i>-28.25 to -31.25</i>	<i>-33.25 to -36.25</i>	<i>-38.25 to -41.25</i>	<i>-43.25 to -46.25</i>	<i>4.92 to 2.92</i>	<i>-5.08 to -7.08</i>	<i>-5.08 to -7.08</i>	<i>-15.08 to -17.08</i>
<i>elev_NGVD</i>		<i>-34.6 to -37.6</i>	<i>-39.6 to -42.6</i>	<i>-44.6 to -47.6</i>	<i>-49.6 to -52.6</i>	<i>-1.4 to -3.4</i>	<i>-11.4 to -13.4</i>	<i>-11.4 to -13.4</i>	<i>-21.4 to -23.4</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						<i>(Duplicate)</i>	
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.7 U	1.7 U	1.7 UJ	1.5 U	-	-	-
1,1,2-Trichloroethane	µg/kg	15.2	0.65 U	0.65 U	0.64 UJ	0.59 U	-	-	-
1,1-Dichloroethene	µg/kg	1.13	1.1 U	1.1 U	1.1 UJ	0.97 U	-	-	-
Carbon tetrachloride	µg/kg	1.93	1.1 U	1.1 U	1.1 UJ	0.98 U	-	-	-
Chloroform (Trichloromethane)	µg/kg	160	2.0 U	1.9 U	1.9 UJ	1.8 U	-	-	-
cis-1,2-Dichloroethene	µg/kg	NV	1.5 U	1.4 U	1.4 UJ	1.3 U	-	-	-
Methylene chloride	µg/kg	475	6.2 U	6.2 U	6.1 UJ	5.6 U	-	-	-
Tetrachloroethene	µg/kg	4.88	0.73 U	0.73 U	0.72 UJ	0.66 U	-	-	-
trans-1,2-Dichloroethene	µg/kg	3247	1.8 U	1.8 U	1.8 UJ	1.7 U	-	-	-
Trichloroethene	µg/kg	30.8	0.97 U	0.96 U	0.95 UJ	0.87 U	-	-	-
Vinyl chloride	µg/kg	0.73	2.3 U	2.3 U	2.2 U	2.1 U	-	-	-
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	2.2 U	2.2 U	2.1 U	2.0 U	-	-	-
Hexachlorobutadiene	µg/kg	0.702	1.1 U	1.1 U	1.1 U	1.4 J	-	-	-
Pentachlorophenol	µg/kg	6.94	4.5 U	4.4 U	4.4 U	4.1 U	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	2600	1600	1100	1200	-	-	-
Chromium	µg/kg	714	12400	17800	13500	11700	-	-	-
Copper	µg/kg	53.5	11400	19100	13600	11300	-	-	-
Lead	µg/kg	81002	2000	4900	2800	5700	-	-	-
Mercury	µg/kg	1.31	23 U	23 U	23 U	31 J	-	-	-
Nickel	µg/kg	535	7800 J	11100 J	7600 J	8000 J	-	-	-
Thallium	µg/kg	34	29 U	38 J	29 U	30 J	-	-	-
Zinc	µg/kg	5045	22400 J	27500 J	19900 J	21000 J	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	13 U	13 U	13 U	12 U	28000	13 U	13 U
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	2.4 U	2.4 U	2.4 U	2.2 U	-	-	-
4,4'-DDE	µg/kg	0.058	2.2 U	2.2 U	2.1 U	2.0 U	-	-	-
4,4'-DDT	µg/kg	0.455	0.50 U	0.50 U	0.50 U	0.50 U	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		NTD-1	NTD-1	NTD-1	NTD-1	NTD-2	NTD-2	NTD-2	NTD-2	
Sample ID:		S-011007-TS-NTD1-006	S-011107-TS-NTD1-007	S-011107-TS-NTD1-008	S-011107-TS-NTD1-009	S-112906-ILM-NTD2-002	S-112906-ILM-NTD2-003	S-112906-ILM-NTD2-004	S-121206-ILM-NTD2-005	
Sample Date:		1/10/2007	1/11/2007	1/11/2007	1/11/2007	11/29/2006	11/29/2006	11/29/2006	12/12/2006	
Sample Depth:		43 to 45 ft bgs	53 to 55 ft bgs	63 to 65 ft bgs	73 to 75 ft bgs	13 to 14.5 ft bgs	22.5 to 25 ft bgs	22.5 to 25 ft bgs	33 to 35 ft bgs	
elev_MLLW		-25.08 to -27.08	-35.08 to -37.08	-45.08 to -47.08	-55.08 to -57.08	5.02 to 3.52	-4.48 to -6.98	-4.48 to -6.98	-14.98 to -16.98	
elev_NGVD		-31.4 to -33.4	-41.4 to -43.4	-51.4 to -53.4	-61.4 to -63.4	-1.3 to -2.8	-10.8 to -13.3	-10.8 to -13.3	-21.3 to -23.3	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-	-	
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-	-	
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-	-	
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-	-	
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	
Methylene chloride	µg/kg	475	-	-	-	-	-	-	-	
Tetrachloroethene	µg/kg	4.88	-	-	-	-	-	-	-	
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	
Trichloroethene	µg/kg	30.8	-	-	-	-	-	-	-	
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-	-	
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	
Chromium	µg/kg	714	-	-	-	-	-	-	-	
Copper	µg/kg	53.5	-	-	-	-	-	-	-	
Lead	µg/kg	81002	-	-	-	-	-	-	-	
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	
Nickel	µg/kg	535	-	-	-	-	-	-	-	
Thallium	µg/kg	34	-	-	-	-	-	-	-	
Zinc	µg/kg	5045	-	-	-	-	-	-	-	
PCBs										
Total PCBs	µg/kg	0.053	12 U	13 U	13 U	13 U	6500	640	630	100 J
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	NTD-2	NTD-2	NTD-2	NTD-2	NTD-2	OXY-1	PH02	PH02
Sample ID:	S-121306-ILM-NTD2-006	S-121306-ILM-NTD2-007	S-121306-ILM-NTD2-008	S-121306-ILM-NTD2-009	S-121406-ILM-NTD2-010	C Landfill~OXY-1~	S-092612-KB-PH02-001	S-092612-KB-PH02-002
Sample Date:	12/13/2006	12/13/2006	12/13/2006	12/13/2006	12/14/2006	7/26/1994	9/26/2012	9/26/2012
Sample Depth:	43 to 45 ft bgs	43 to 45 ft bgs	53 to 55 ft bgs	63 to 65 ft bgs	73 to 75 ft bgs		30 to 30 ft BGS	32 to 32 ft BGS
elev_MLLW	-24.98 to -26.98	-24.98 to -26.98	-34.98 to -36.98	-44.98 to -46.98	-54.98 to -56.98		-11.46 to -11.46	-13.46 to -13.46
elev_NGVD	-31.3 to -33.3	-31.3 to -33.3	-41.3 to -43.3	-51.3 to -53.3	-61.3 to -63.3		-17.8 to -17.8	-19.8 to -19.8
Parameters	Units	Cs						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	33000 U	74 U
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	33000 U	74 U
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	33000 U	74 U
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	33000 U	74 U
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	33000 U	74 U
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	33000 U	69 J
Methylene chloride	µg/kg	475	-	-	-	-	9200 J	23 J
Tetrachloroethene	µg/kg	4.88	-	-	-	10	46000	120
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	33000 U	74 U
Trichloroethene	µg/kg	30.8	-	-	-	3.0	130000	1400
Vinyl chloride	µg/kg	0.73	-	-	-	-	33000 U	74 U
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	0.062	-	-	-	94	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	4.7 U	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	240 U	-	-
Metals~Total								
Arsenic	µg/kg	146	-	-	-	5800	-	-
Chromium	µg/kg	714	-	-	-	24200	-	-
Copper	µg/kg	53.5	-	-	-	39100	-	-
Lead	µg/kg	81002	-	-	-	84100	-	-
Mercury	µg/kg	1.31	-	-	-	116000	-	-
Nickel	µg/kg	535	-	-	-	21500	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	65600 J	-	-
PCBs								
Total PCBs	µg/kg	0.053	520	190	510	390	330	182 J
Pesticides								
4,4'-DDD	µg/kg	0.043	-	-	-	1.2	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	1.2 U	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	1.2 U	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PH02</i>	<i>PH02</i>	<i>Pier25-1</i>	<i>Pier25-1</i>	<i>Pier25-1</i>	<i>Pier25-1</i>	<i>Pier25-1</i>	<i>Pier25-1</i>	
<i>Sample ID:</i>		<i>S-092612-KB-PH02-003</i>	<i>S-092612-KB-PH02-004</i>	<i>SE-070105-PIER25-1-002</i>	<i>SE-070105-PIER25-1-003</i>	<i>SE-070505-PIER25-1-005</i>	<i>SE-070505-PIER25-1-006</i>	<i>SE-070605-PIER25-1-007</i>	<i>SE-070605-PIER25-1-008</i>	
<i>Sample Date:</i>		<i>9/26/2012</i>	<i>9/26/2012</i>	<i>7/1/2005</i>	<i>7/1/2005</i>	<i>7/5/2005</i>	<i>7/5/2005</i>	<i>7/6/2005</i>	<i>7/6/2005</i>	
<i>Sample Depth:</i>		<i>38 to 38 ft BGS</i>	<i>49 to 49 ft BGS</i>	<i>14.5 to 16 ft bml</i>	<i>24.5 to 26 ft bml</i>	<i>34.5 to 36 ft bml</i>	<i>44.5 to 46 ft bml</i>	<i>54.5 to 56 ft bml</i>	<i>64.5 to 66 ft bml</i>	
<i>elev_MLLW</i>		<i>-19.46 to -19.46</i>	<i>-30.46 to -30.46</i>	<i>-52.1 to -53.6</i>	<i>-62.1 to -63.6</i>	<i>-72.1 to -73.6</i>	<i>-82.1 to -83.6</i>	<i>-92.1 to -93.6</i>	<i>-102.1 to -103.6</i>	
<i>elev_NGVD</i>		<i>-25.8 to -25.8</i>	<i>-36.8 to -36.8</i>	<i>-58.4 to -59.9</i>	<i>-68.4 to -69.9</i>	<i>-78.4 to -79.9</i>	<i>-88.4 to -89.9</i>	<i>-98.4 to -99.9</i>	<i>-108.4 to -109.9</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	7.9 U	5.9 U	3 U	2.99 U	2.68 U	3.26 U	2.96 U	3.33 U
1,1,2-Trichloroethane	µg/kg	15.2	7.9 U	5.9 U	8.23 U	8.19 U	7.36 U	8.93 U	8.12 U	9.12 U
1,1-Dichloroethene	µg/kg	1.13	7.9 U	5.9 U	1.96 U	1.96 U	1.76 U	2.13 U	1.94 U	2.18 U
Carbon tetrachloride	µg/kg	1.93	7.9 U	5.9 U	2.11 U	2.1 U	1.89 U	2.29 U	2.08 U	2.34 U
Chloroform (Trichloromethane)	µg/kg	160	7.9 U	5.9 U	1.87 U	1.86 U	1.67 U	2.03 U	1.85 U	2.07 U
cis-1,2-Dichloroethene	µg/kg	NV	15	130	1.89 U	1.89 U	1.69 U	2.05 U	1.87 U	2.1 U
Methylene chloride	µg/kg	475	16 U	12 U	2.88 U	2.87 U	2.58 U	3.13 U	2.85 U	3.19 U
Tetrachloroethene	µg/kg	4.88	3.4 J	1.4 J	2.04 U	2.03 U	1.82 U	2.21 U	2.01 U	2.25 U
trans-1,2-Dichloroethene	µg/kg	3247	1.0 J	4.1 J	2.13 U	2.12 U	1.91 U	2.31 U	2.1 U	2.36 U
Trichloroethene	µg/kg	30.8	47	0.62 J	2 U	1.99 U	1.79 U	2.17 U	1.97 U	2.21 U
Vinyl chloride	µg/kg	0.73	7.9 U	2.4 J	2.38 U	2.37 U	2.13 U	2.58 U	2.35 U	2.63 U
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	0.665 U	1.02 J	0.637 U	0.657 U	0.659 U	0.681 U
Hexachlorobutadiene	µg/kg	0.702	-	-	2.42 U	2.51 U	2.32 U	2.39 U	2.4 U	2.48 U
Pentachlorophenol	µg/kg	6.94	-	-	1.15 U	1.19 U	1.1 U	1.13 U	1.14 U	1.18 U
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	4.78 U	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	2.85 U	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-1	Pier25-1	Pier25-2	Pier25-2	Pier25-2	Pier25-2	Pier25-2	Pier25-2	Pier25-2	
Sample ID:	SE-070705-PIER25-1-009	SE-070705-PIER25-1-010	SE-071305-PIER25-2-001	SE-071405-PIER25-2-002	SE-071405-PIER25-2-003	SE-071405-PIER25-2-004	SE-071505-PIER25-2-005	SE-071505-PIER25-2-006		
Sample Date:	7/7/2005	7/7/2005	7/13/2005	7/14/2005	7/14/2005	7/14/2005	7/15/2005	7/15/2005		
Sample Depth:	74.5 to 76 ft bml	84.5 to 86 ft bml	6 to 7.5 ft bml	16 to 17.5 ft bml	26 to 27.5 ft bml	36 to 37.5 ft bml	46 to 47.5 ft bml	56 to 57.5 ft bml		
elev_MLLW	-112.1 to -113.6	-122.1 to -123.6	-41.2 to -42.7	-51.2 to -52.7	-61.2 to -62.7	-71.2 to -72.7	-81.2 to -82.7	-91.2 to -92.7		
elev_NGVD	-118.4 to -119.9	-128.4 to -129.9	-47.5 to -49	-57.5 to -59	-67.5 to -69	-77.5 to -79	-87.5 to -89	-97.5 to -99		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.92 U	3.04 U	2.89 U	2.91 U	3.15 U	3.02 U	3.19 U	3.31 U
1,1,2-Trichloroethane	µg/kg	15.2	8 U	8.35 U	7.93 U	7.98 U	8.63 U	8.27 U	8.75 U	9.07 U
1,1-Dichloroethene	µg/kg	1.13	1.91 U	1.99 U	1.89 U	1.9 U	2.06 U	1.97 U	2.09 U	2.16 U
Carbon tetrachloride	µg/kg	1.93	2.05 U	2.14 U	2.03 U	2.04 U	2.21 U	2.12 U	2.24 U	2.32 U
Chloroform (Trichloromethane)	µg/kg	160	1.82 U	1.9 U	1.8 U	1.81 U	1.96 U	1.88 U	1.99 U	2.06 U
cis-1,2-Dichloroethene	µg/kg	NV	1.84 U	1.92 U	1.82 U	1.83 U	1.98 U	1.9 U	2.01 U	71.3
Methylene chloride	µg/kg	475	2.8 U	2.93 U	2.78 U	2.8 U	3.02 U	2.9 U	3.07 U	3.18 U
Tetrachloroethene	µg/kg	4.88	1.98 U	2.06 U	1.96 U	1.97 U	2.13 U	2.04 U	2.16 U	2.24 U
trans-1,2-Dichloroethene	µg/kg	3247	2.07 U	2.16 U	2.05 U	2.07 U	2.24 U	2.14 U	2.27 U	16.4
Trichloroethene	µg/kg	30.8	1.94 U	2.03 U	1.93 U	1.94 U	2.1 U	2.01 U	2.12 U	2.2 U
Vinyl chloride	µg/kg	0.73	2.31 U	2.41 U	2.29 U	2.3 U	2.49 U	2.39 U	2.53 U	149
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	0.649 U	0.626 U	5.59	4.69	0.612 U	0.609 U	0.896 U	0.841 U
Hexachlorobutadiene	µg/kg	0.702	2.36 U	2.28 U	3.41 J	3.61 J	2.23 U	2.22 U	3.26 U	3.06 U
Pentachlorophenol	µg/kg	6.94	1.12 U	1.08 U	0.979 U	1.06 U	1.06 U	1.05 U	1.55 U	1.45 U
Metals~Total										
Arsenic	µg/kg	146	-	-	-	2660	-	-	-	-
Chromium	µg/kg	714	-	-	-	13700	-	-	-	-
Copper	µg/kg	53.5	-	-	-	22400	-	-	-	-
Lead	µg/kg	81002	-	-	-	7410	-	-	-	-
Mercury	µg/kg	1.31	-	-	52.7	26.6 U	-	-	-	-
Nickel	µg/kg	535	-	-	-	9330	-	-	-	-
Thallium	µg/kg	34	-	-	-	50.4 J	-	-	-	-
Zinc	µg/kg	5045	-	-	-	30200	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	63.6 J	15.5 J	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	Pier25-2	Pier25-2	Pier25-2	Pier25-2	Pier25-2	Pier25-2	Pier25-2	Pier25-2		
Sample ID:	SE-071505-PIER25-2-007	SE-071805-PIER25-2-008	SE-071805-PIER25-2-009	SE-071905-PIER25-2-010	SE-081905-PIER25-2-011	SE-081905-PIER25-2-012	SE-081905-PIER25-2-013	SE-081905-PIER25-2-014		
Sample Date:	7/15/2005	7/18/2005	7/18/2005	7/19/2005	8/19/2005	8/19/2005	8/19/2005	8/19/2005		
Sample Depth:	66 to 67.5 ft bml	76 to 77.5 ft bml	86 to 87.5 ft bml	96 to 97.5 ft bml	106 to 108 ft bml	116 to 118 ft bml	126 to 128 ft bml	136 to 138 ft bml		
elev_MLLW	-101.2 to -102.7	-111.2 to -112.7	-121.2 to -122.7	-131.2 to -132.7	-141.2 to -143.2	-151.2 to -153.2	-161.2 to -163.2	-171.2 to -173.2		
elev_NGVD	-107.5 to -109	-117.5 to -119	-127.5 to -129	-137.5 to -139	-147.5 to -149.5	-157.5 to -159.5	-167.5 to -169.5	-177.5 to -179.5		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3.39 U	2.84 U	3.03 U	2.88 U	2.53 U	2.57 U	2.4 U	2.92 U
1,1,2-Trichloroethane	µg/kg	15.2	18.6	7.79 U	33.2	7.9 U	6.93 U	7.04 U	6.57 U	8.02 U
1,1-Dichloroethene	µg/kg	1.13	122	6.25 J	50.9	1.89 U	1.65 U	1.68 U	1.57 U	1.91 U
Carbon tetrachloride	µg/kg	1.93	2.38 U	2 U	2.13 U	2.02 U	1.78 U	1.8 U	1.68 U	2.05 U
Chloroform (Trichloromethane)	µg/kg	160	2.11 U	1.77 U	702	1.8 U	1.57 U	1.6 U	1.49 U	1.82 U
cis-1,2-Dichloroethene	µg/kg	NV	43900	1620	9440	1.82 U	1.59 U	1.62 U	1.51 U	1.84 U
Methylene chloride	µg/kg	475	3.26 U	2.73 U	323	2.77 U	2.43 U	2.47 U	2.3 U	2.81 U
Tetrachloroethene	µg/kg	4.88	2.3 U	1.93 U	5.59 J	1.95 U	1.71 U	1.74 U	1.62 U	1.98 U
trans-1,2-Dichloroethene	µg/kg	3247	1130	66.6	250	2.05 U	1.8 U	1.82 U	1.7 U	2.08 U
Trichloroethene	µg/kg	30.8	375	5.66 J	155	1.92 U	1.68 U	1.71 U	1.59 U	1.95 U
Vinyl chloride	µg/kg	0.73	3870	126	1690	2.28 U	2 U	2.03 U	1.9 U	2.32 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	0.94 U	0.897 U	0.984 U	0.886 U	0.93 U	0.853 U	0.863 U	0.904 U
Hexachlorobutadiene	µg/kg	0.702	3.42 U	3.27 U	3.58 U	3.22 U	3.38 U	3.1 U	3.14 U	3.29 U
Pentachlorophenol	µg/kg	6.94	1.62 U	1.55 U	1.7 U	1.53 U	1.6 U	1.47 U	1.49 U	1.56 U
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		Pier25-3	Pier25-3	Pier25-3	Pier25-3	Pier25-4	Pier25-4	Pier25-4	Pier25-4	
Sample ID:		SE-081605-PIER25-3-001	SE-081605-PIER25-3-002	SE-081605-PIER25-3-003	SE-081605-PIER25-3-011	SE-081205-PIER25-4-001	SE-081205-PIER25-4-002	SE-081205-PIER25-4-003	SE-081205-PIER25-4-004	
Sample Date:		8/16/2005	8/16/2005	8/16/2005	8/16/2005	8/12/2005	8/12/2005	8/12/2005	8/12/2005	
Sample Depth:		36.7 to 38.7 ft bml	46.7 to 48.7 ft bml	56.7 to 58.7 ft bml	56.7 to 58.7 ft bml	37.1 to 39.1 ft bml	47.1 to 49.1 ft bml	57.1 to 59.1 ft bml	67.1 to 69.1 ft bml	
elev_MLLW		-72.1 to -74.1	-82.1 to -84.1	-92.1 to -94.1	-92.1 to -94.1	-72.1 to -74.1	-82.1 to -84.1	-92.1 to -94.1	-102.1 to -104.1	
elev_NGVD		-78.4 to -80.4	-88.4 to -90.4	-98.4 to -100.4	-98.4 to -100.4 (Duplicate)	-78.4 to -80.4	-88.4 to -90.4	-98.4 to -100.4	-108.4 to -110.4	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3.03 U	3.11 U	2.96 U	2.88 U	2.85 U	3.02 U	2.93 U	3.03 U
1,1,2-Trichloroethane	µg/kg	15.2	8.32 U	8.52 U	8.11 U	7.91 U	7.81 U	8.28 U	8.03 U	8.31 U
1,1-Dichloroethene	µg/kg	1.13	1.99 U	1.99 U	1.94 U	1.89 U	1.86 U	1.98 U	1.92 U	1.98 U
Carbon tetrachloride	µg/kg	1.93	2.13 U	2.18 U	2.08 U	2.03 U	2 U	2.12 U	2.06 U	2.13 U
Chloroform (Trichloromethane)	µg/kg	160	1.89 U	1.93 U	1.84 U	1.8 U	1.77 U	1.88 U	1.82 U	1.89 U
cis-1,2-Dichloroethene	µg/kg	NV	1.91 U	1.96 U	1.86 U	1.82 U	1.8 U	1.9 U	1.85 U	1.91 U
Methylene chloride	µg/kg	475	2.91 U	2.98 U	2.84 U	2.77 U	2.74 U	2.9 U	2.81 U	2.91 U
Tetrachloroethene	µg/kg	4.88	2.06 U	2.11 U	2 U	1.96 U	1.93 U	2.05 U	1.99 U	2.05 U
trans-1,2-Dichloroethene	µg/kg	3247	2.15 U	2.21 U	2.1 U	2.05 U	2.02 U	2.15 U	2.08 U	2.15 U
Trichloroethene	µg/kg	30.8	2.02 U	2.07 U	1.97 U	1.92 U	1.9 U	2.01 U	1.95 U	2.02 U
Vinyl chloride	µg/kg	0.73	2.4 UJ	2.46 UJ	1420 J	1250 J	2.26 U	2.39 U	2.32 U	2.4 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	0.929 U	0.932 U	0.927 U	0.888 U	0.897 U	0.894 J	0.928 U	0.898 U
Hexachlorobutadiene	µg/kg	0.702	3.38 U	3.39 U	3.37 U	3.23 U	3.27 U	3.19 U	3.38 U	3.27 U
Pentachlorophenol	µg/kg	6.94	1.6 U	1.61 U	1.6 U	1.53 U	1.55 U	1.61 J	1.6 U	1.55 U
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-4</i>	<i>Pier25-5</i>	<i>Pier25-5</i>	<i>Pier25-5</i>	<i>Pier25-5</i>	<i>Pier25-5</i>	<i>Pier25-6</i>	<i>Pier25-6</i>	
<i>Sample ID:</i>		<i>SE-081305-PIER25-4-005</i>	<i>SE-081505-PIER25-5-01</i>	<i>SE-081505-PIER25-5-02</i>	<i>SE-081505-PIER25-5-03</i>	<i>SE-081605-PIER25-5-04</i>	<i>SE-081605-PIER25-5-05</i>	<i>SE-020406-PIER25-6-002</i>	<i>SE-020406-PIER25-6-003</i>	
<i>Sample Date:</i>		<i>8/13/2005</i>	<i>8/15/2005</i>	<i>8/15/2005</i>	<i>8/15/2005</i>	<i>8/16/2005</i>	<i>8/16/2005</i>	<i>2/4/2006</i>	<i>2/4/2006</i>	
<i>Sample Depth:</i>		<i>77.1 to 79.1 ft bml</i>	<i>32 to 34 ft bml</i>	<i>40.5 to 42.5 ft bml</i>	<i>50.5 to 52.5 ft bml</i>	<i>60.5 to 62.5 ft bml</i>	<i>66.5 to 68.5 ft bml</i>	<i>11 to 13 ft bml</i>	<i>21 to 23 ft bml</i>	
<i>elev_MLLW</i>		<i>-112.1 to -114.1</i>	<i>-73.6 to -75.6</i>	<i>-82.1 to -84.1</i>	<i>-92.1 to -94.1</i>	<i>-102.1 to -104.1</i>	<i>-108.1 to -110.1</i>	<i>-46.3 to -48.3</i>	<i>-56.3 to -58.3</i>	
<i>elev_NGVD</i>		<i>-118.4 to -120.4</i>	<i>-79.9 to -81.9</i>	<i>-88.4 to -90.4</i>	<i>-98.4 to -100.4</i>	<i>-108.4 to -110.4</i>	<i>-114.4 to -116.4</i>	<i>-52.6 to -54.6</i>	<i>-62.6 to -64.6</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.86 U	3.04 U	4.24 U	3.06 U	2.39 U	2.75 U	2.93 U	3.22 U
1,1,2-Trichloroethane	µg/kg	15.2	7.84 U	8.33 U	11.6 U	8.38 U	6.55 U	7.54 U	8.03 U	8.84 U
1,1-Dichloroethene	µg/kg	1.13	1.87 U	1.99 U	2.78 U	2 U	1.56 U	1.8 U	1.92 U	2.11 U
Carbon tetrachloride	µg/kg	1.93	2.01 U	2.13 U	2.98 U	2.15 U	1.68 U	1.93 U	2.06 U	2.26 U
Chloroform (Trichloromethane)	µg/kg	160	1.78 U	1.89 U	2.64 U	1.9 U	1.49 U	1.71 U	1.82 U	2.01 U
cis-1,2-Dichloroethene	µg/kg	NV	1.8 U	1.91 U	2.67 U	1.93 U	1.51 U	1.73 U	3.45 J	2.03 U
Methylene chloride	µg/kg	475	2.75 U	2.92 U	4.07 U	4.44 J	2.3 U	20.4	2.81 U	3.1 U
Tetrachloroethene	µg/kg	4.88	1.94 U	2.06 U	2.87 U	2.07 U	1.62 U	1.86 U	1.99 U	2.19 U
trans-1,2-Dichloroethene	µg/kg	3247	2.03 U	2.16 U	3.01 U	2.17 U	1.7 U	1.95 U	2.08 U	2.29 U
Trichloroethene	µg/kg	30.8	1.9 U	2.02 U	2.82 U	2.03 U	1.59 U	1.83 U	12.5	10.1
Vinyl chloride	µg/kg	0.73	2.26 U	2.41 U	3.36 U	2.42 U	1.89 U	2.18 U	2.32 U	2.55 U
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	0.889 U	0.943 U	1.14 U	0.951 U	0.861 U	0.776 U	-	-
Hexachlorobutadiene	µg/kg	0.702	3.23 U	3.43 U	4.17 U	3.46 U	3.13 U	2.82 U	-	-
Pentachlorophenol	µg/kg	6.94	1.53 U	4.39 J	2.05 J	1.64 U	1.48 U	1.34 U	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-6</i>	<i>Pier25-6</i>	<i>Pier25-6</i>	<i>Pier25-6</i>	<i>Pier25-6</i>	<i>Pier25-6</i>	<i>Pier25-6</i>	<i>Pier25-6</i>	
<i>Sample ID:</i>		<i>SE-020406-PIER25-6-004</i>	<i>SE-020406-PIER25-6-005</i>	<i>SE-081805-PIER25-6-001</i>	<i>SE-081805-PIER25-6-002</i>	<i>SE-081805-PIER25-6-003</i>	<i>SE-081805-PIER25-6-004</i>	<i>SE-081805-PIER25-6-005</i>	<i>SE-081805-PIER25-6-006</i>	
<i>Sample Date:</i>		<i>2/4/2006</i>	<i>2/4/2006</i>	<i>8/18/2005</i>	<i>8/18/2005</i>	<i>8/18/2005</i>	<i>8/18/2005</i>	<i>8/18/2005</i>	<i>8/18/2005</i>	
<i>Sample Depth:</i>		<i>31 to 33 ft bml</i>	<i>41 to 43 ft bml</i>	<i>45.9 to 47.9 ft bml</i>	<i>55.9 to 57.9 ft bml</i>	<i>65.9 to 67.9 ft bml</i>	<i>75.9 to 77.9 ft bml</i>	<i>85.9 to 87.9 ft bml</i>	<i>95.9 to 97.9 ft bml</i>	
<i>elev_MLLW</i>		<i>-66.3 to -68.3</i>	<i>-76.3 to -78.3</i>	<i>-81.2 to -83.2</i>	<i>-91.2 to -93.2</i>	<i>-101.2 to -103.2</i>	<i>-111.2 to -113.2</i>	<i>-121.2 to -123.2</i>	<i>-131.2 to -133.2</i>	
<i>elev_NGVD</i>		<i>-72.6 to -74.6</i>	<i>-82.6 to -84.6</i>	<i>-87.5 to -89.5</i>	<i>-97.5 to -99.5</i>	<i>-107.5 to -109.5</i>	<i>-117.5 to -119.5</i>	<i>-127.5 to -129.5</i>	<i>-137.5 to -139.5</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3.21 U	2.91 U	3.22 U	28.7 U	29.3 U	3.16 UJ	2.93 U	2.16 U
1,1,2-Trichloroethane	µg/kg	15.2	8.81 U	7.99 U	8.83 U	78.6 U	108	8.66 U	8.04 U	5.92 U
1,1-Dichloroethene	µg/kg	1.13	2.1 U	1.91 U	2.11 U	162	141	2.07 U	2.12 J	1.41 U
Carbon tetrachloride	µg/kg	1.93	2.26 U	2.05 U	2.26 U	20.1 U	20.6 U	2.22 UJ	2.06 U	1.52 U
Chloroform (Trichloromethane)	µg/kg	160	2 U	1.81 U	2.01 U	17.9 U	1250	1.97 U	11	3.85 J
cis-1,2-Dichloroethene	µg/kg	NV	2.03 U	81.1	2.03 U	22600	21600	20.6	372	60.3
Methylene chloride	µg/kg	475	3.09 U	2.8 U	3.09 U	598	1040	3.03 U	29.1	12
Tetrachloroethene	µg/kg	4.88	2.18 U	3.86 J	2.18 U	19.4 U	19.8 U	2.14 U	1.99 U	3.19 J
trans-1,2-Dichloroethene	µg/kg	3247	2.28 U	2.07 U	2.29 U	498	811	2.24 UJ	11.3	2.1 J
Trichloroethene	µg/kg	30.8	5.79 J	96.3	2.14 U	19.1 U	463	2.1 U	2.98 J	81.4
Vinyl chloride	µg/kg	0.73	2.55 U	10.4	2.55 U	2110	1880	2.5 UJ	46.1	2.23 J
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	0.911 U	0.903 U	0.927 U	0.955 U	0.942 U	0.773 U
Hexachlorobutadiene	µg/kg	0.702	-	-	3.32 U	3.29 U	3.38 U	3.48 U	3.43 U	2.81 U
Pentachlorophenol	µg/kg	6.94	-	-	1.57 U	1.56 U	1.6 U	1.65 U	1.62 U	1.33 U
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-6	Pier25-6	Pier25-7	Pier25-7	Pier25-7	Pier25-7	Pier25-7	Pier25-7	Pier25-7	
Sample ID:	SE-081805-PIER25-6-007	SE-081805-PIER25-6-008	SE-082405-PIER25-7-001	SE-082405-PIER25-7-002	SE-082405-PIER25-7-003	SE-082405-PIER25-7-004	SE-082405-PIER25-7-005	SE-082405-PIER25-7-006	SE-082405-PIER25-7-006	
Sample Date:	8/18/2005	8/18/2005	8/24/2005	8/24/2005	8/24/2005	8/24/2005	8/24/2005	8/24/2005	8/24/2005	
Sample Depth:	105.9 to 107.9 ft bml	115.9 to 117.9 ft bml	19.3 to 21.3 ft bml	29.3 to 31.3 ft bml	39.3 to 41.3 ft bml	49.3 to 51.3 ft bml	59.3 to 61.3 ft bml	69.3 to 71.3 ft bml	69.3 to 71.3 ft bml	
elev_MLLW	-141.2 to -143.2	-151.2 to -153.2	-61.2 to -63.2	-71.2 to -73.2	-81.2 to -83.2	-91.2 to -93.2	-101.2 to -103.2	-111.2 to -113.2	-111.2 to -113.2	
elev_NGVD	-147.5 to -149.5	-157.5 to -159.5	-67.5 to -69.5	-77.5 to -79.5	-87.5 to -89.5	-97.5 to -99.5	-107.5 to -109.5	-117.5 to -119.5	-117.5 to -119.5	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.75 U	3.11 U	2.56 U	2.35 U	2.43 U	2.3 U	3.31 UJ	3.03 UJ
1,1,2-Trichloroethane	µg/kg	15.2	7.54 U	8.52 U	7.02 U	6.45 U	6.66 U	6.32 U	9.08 UJ	8.31 UJ
1,1-Dichloroethene	µg/kg	1.13	1.8 U	2.03 U	1.67 U	1.54 U	1.59 U	1.51 U	2.17 U	1.98 U
Carbon tetrachloride	µg/kg	1.93	1.93 U	2.18 U	1.8 U	1.65 U	1.71 U	1.62 U	2.32 UJ	2.13 UJ
Chloroform (Trichloromethane)	µg/kg	160	1.71 U	1.94 U	1.59 U	1.46 U	1.51 U	1.44 U	2.06 UJ	1.89 UJ
cis-1,2-Dichloroethene	µg/kg	NV	1.73 U	1.96 U	1.61 U	1.48 U	1.53 U	1.45 U	2.09 UJ	1.91 UJ
Methylene chloride	µg/kg	475	15.3	2.99 U	2.46 U	2.26 U	2.33 U	2.21 U	3.18 UJ	2.91 UJ
Tetrachloroethene	µg/kg	4.88	1.86 U	2.11 U	1.73 U	1.59 U	1.65 U	1.56 U	2.24 UJ	2.05 UJ
trans-1,2-Dichloroethene	µg/kg	3247	1.95 U	2.21 U	1.82 U	1.67 U	1.72 U	1.64 U	2.35 UJ	2.15 UJ
Trichloroethene	µg/kg	30.8	1.83 U	2.07 U	4.45 J	2.07 J	1.62 U	1.53 U	2.2 UJ	2.02 UJ
Vinyl chloride	µg/kg	0.73	2.18 U	2.46 U	2.03 U	1.86 U	1.92 U	88.9	2.62 UJ	2.4 UJ
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	0.87 U	0.812 U	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	3.17 U	2.96 U	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	1.5 U	1.4 U	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-7</i>	<i>Pier25-7</i>	<i>Pier25-7</i>	<i>Pier25-7</i>	<i>Pier25-7</i>	<i>Pier25-7</i>	<i>Pier25-8</i>	<i>Pier25-8</i>	
<i>Sample ID:</i>		<i>SE-082405-PIER25-7-007</i>	<i>SE-082405-PIER25-7-008</i>	<i>SE-082405-PIER25-7-009</i>	<i>SE-082405-PIER25-7-010</i>	<i>SE-082505-PIER25-7-011</i>	<i>SE-082505-PIER25-7-012</i>	<i>SE-082505-PIER25-8-001</i>	<i>SE-082505-PIER25-8-002</i>	
<i>Sample Date:</i>		<i>8/24/2005</i>	<i>8/24/2005</i>	<i>8/24/2005</i>	<i>8/24/2005</i>	<i>8/25/2005</i>	<i>8/25/2005</i>	<i>8/25/2005</i>	<i>8/25/2005</i>	
<i>Sample Depth:</i>		<i>79.3 to 81.3 ft bml</i>	<i>89.3 to 91.3 ft bml</i>	<i>99.3 to 101.3 ft bml</i>	<i>109.3 to 111.3 ft bml</i>	<i>119.3 to 121.3 ft bml</i>	<i>129.3 to 131.3 ft bml</i>	<i>4 to 6 ft bml</i>	<i>14 to 16 ft bml</i>	
<i>elev_MLLW</i>		<i>-121.2 to -123.2</i>	<i>-131.2 to -133.2</i>	<i>-141.2 to -143.2</i>	<i>-151.2 to -153.2</i>	<i>-161.2 to -163.2</i>	<i>-171.2 to -173.2</i>	<i>-40.1 to -42.1</i>	<i>-50.1 to -52.1</i>	
<i>elev_NGVD</i>		<i>-127.5 to -129.5</i>	<i>-137.5 to -139.5</i>	<i>-147.5 to -149.5</i>	<i>-157.5 to -159.5</i>	<i>-167.5 to -169.5</i>	<i>-177.5 to -179.5</i>	<i>-46.4 to -48.4</i>	<i>-56.4 to -58.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.7 UJ	2.67 UJ	2.38 UJ	2.43 UJ	3.24 UJ	2.25 UJ	3.1 UJ	3.06 UJ
1,1,2-Trichloroethane	µg/kg	15.2	7.41 UJ	7.33 UJ	6.52 UJ	6.67 UJ	8.88 UJ	6.18 UJ	8.49 UJ	8.38 UJ
1,1-Dichloroethene	µg/kg	1.13	1.77 U	1.75 U	1.56 U	1.59 U	2.12 U	1.48 U	2.03 U	2 U
Carbon tetrachloride	µg/kg	1.93	1.9 UJ	1.88 UJ	1.67 UJ	1.71 UJ	2.27 UJ	1.58 UJ	2.17 UJ	2.15 UJ
Chloroform (Trichloromethane)	µg/kg	160	1.68 UJ	1.67 UJ	1.48 UJ	1.51 UJ	2.02 UJ	1.4 UJ	1.93 UJ	1.9 UJ
cis-1,2-Dichloroethene	µg/kg	NV	1.7 UJ	1.69 UJ	1.5 UJ	1.53 UJ	2.04 UJ	4.1 J	1.95 UJ	1.93 UJ
Methylene chloride	µg/kg	475	2.6 UJ	2.57 UJ	2.28 UJ	2.34 UJ	3.11 UJ	2.17 UJ	2.97 UJ	2.94 UJ
Tetrachloroethene	µg/kg	4.88	1.83 UJ	1.81 UJ	1.61 UJ	1.65 UJ	2.19 UJ	1.53 UJ	2.1 UJ	2.07 UJ
trans-1,2-Dichloroethene	µg/kg	3247	1.92 UJ	1.9 UJ	1.69 UJ	1.73 UJ	2.3 UJ	1.6 UJ	2.2 UJ	2.17 UJ
Trichloroethene	µg/kg	30.8	1.8 UJ	1.78 UJ	1.58 UJ	1.62 UJ	2.15 UJ	1.5 UJ	2.06 UJ	2.04 UJ
Vinyl chloride	µg/kg	0.73	2.14 UJ	2.12 UJ	1.88 UJ	1.93 UJ	2.56 UJ	1.79 UJ	2.45 UJ	2.42 UJ
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		Pier25-8	Pier25-8	Pier25-8	Pier25-8	Pier25-8	Pier25-8	Pier25-8	Pier25-8	
Sample ID:		SE-082505-PIER25-8-003	SE-082605-PIER25-8-004	SE-082605-PIER25-8-005	SE-082605-PIER25-8-006	SE-082605-PIER25-8-007	SE-082605-PIER25-8-008	SE-082605-PIER25-8-009	SE-082605-PIER25-8-010	
Sample Date:		8/25/2005	8/26/2005	8/26/2005	8/26/2005	8/26/2005	8/26/2005	8/26/2005	8/26/2005	
Sample Depth:		24 to 26 ft bml	34 to 36 ft bml	34 to 36 ft bml	44 to 46 ft bml	54 to 56 ft bml	64 to 66 ft bml	74 to 76 ft bml	84 to 86 ft bml	
elev_MLLW		-60.1 to -62.1	-70.1 to -72.1	-70.1 to -72.1	-80.1 to -82.1	-90.1 to -92.1	-100.1 to -102.1	-110.1 to -112.1	-120.1 to -122.1	
elev_NGVD		-66.4 to -68.4	-76.4 to -78.4	-76.4 to -78.4	-86.4 to -88.4	-96.4 to -98.4	-106.4 to -108.4	-116.4 to -118.4	-126.4 to -128.4	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.99 UJ	3.01 UJ	2.79 UJ	3.03 UJ	14.2 UJ	4.4 U	2.86 U	3.36 U
1,1,2-Trichloroethane	µg/kg	15.2	8.2 UJ	8.24 UJ	7.66 UJ	8.29 UJ	38.9 UJ	12.1 U	7.83 U	9.22 U
1,1-Dichloroethene	µg/kg	1.13	1.96 U	1.97 U	1.83 U	3.17 J	281	2.88 U	1.87 U	2.2 U
Carbon tetrachloride	µg/kg	1.93	2.1 UJ	2.11 UJ	1.96 UJ	2.12 UJ	9.97 UJ	3.09 U	2.01 U	2.36 U
Chloroform (Trichloromethane)	µg/kg	160	1.86 UJ	1.87 UJ	1.74 UJ	1.88 UJ	9.45 J	2.74 U	1.78 U	2.09 U
cis-1,2-Dichloroethene	µg/kg	NV	1.88 UJ	1.9 UJ	1.76 UJ	489 J	28300 J	171	164	32 J
Methylene chloride	µg/kg	475	2.87 UJ	2.89 UJ	2.68 UJ	2.91 UJ	409 J	4.23 U	2.74 U	3.23 U
Tetrachloroethene	µg/kg	4.88	2.03 UJ	2.04 UJ	1.89 UJ	2.05 UJ	9.62 UJ	2.98 U	1.94 U	2.28 U
trans-1,2-Dichloroethene	µg/kg	3247	2.12 UJ	2.13 UJ	1.98 UJ	7.7 J	890 J	3.13 U	5.78 J	2.39 U
Trichloroethene	µg/kg	30.8	1.99 UJ	2 UJ	1.86 UJ	2.01 UJ	81.6 J	2.93 U	1.9 U	2.24 U
Vinyl chloride	µg/kg	0.73	2.37 UJ	2.38 UJ	2.21 UJ	95.9 J	2570 J	153	46.4	2.66 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-8	Pier25-8	Pier25-8	Pier25-8	Pier25-9	Pier25-9	Pier25-9	Pier25-9		
Sample ID:	SE-082605-PIER25-8-011	SE-082605-PIER25-8-012	SE-082605-PIER25-8-013	SE-082605-PIER25-8-014	SE-102505-PIER25-9-001	SE-102505-PIER25-9-002	SE-102505-PIER25-9-003	SE-102505-PIER25-9-004		
Sample Date:	8/26/2005	8/26/2005	8/26/2005	8/26/2005	10/25/2005	10/25/2005	10/25/2005	10/25/2005		
Sample Depth:	94 to 96 ft bml	104 to 106 ft bml	114 to 116 ft bml	124 to 126 ft bml	31.5 to 33.5 ft bml	41.5 to 43.5 ft bml	41.5 to 43.5 ft bml	51.5 to 53.5 ft bml		
elev_MLLW	-130.1 to -132.1	-140.1 to -142.1	-150.1 to -152.1	-160.1 to -162.1	-71.1 to -73.1	-81.1 to -83.1	-81.1 to -83.1	-91.1 to -93.1		
elev_NGVD	-136.4 to -138.4	-146.4 to -148.4	-156.4 to -158.4	-166.4 to -168.4	-77.4 to -79.4	-87.4 to -89.4	-87.4 to -89.4 (Duplicate)	-97.4 to -99.4		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3.13 UJ	2.26 U	2.19 U	2.55 U	1.7 U	1.7 U	R	1.5 U
1,1,2-Trichloroethane	µg/kg	15.2	8.57 U	6.21 U	6.02 U	6.99 U	1.3 U	0.65 U	R	0.59 U
1,1-Dichloroethene	µg/kg	1.13	2.05 U	1.48 U	1.44 U	1.67 U	1.9 U	1.1 U	R	0.97 U
Carbon tetrachloride	µg/kg	1.93	2.2 U	1.59 U	1.54 U	1.79 U	0.64 U	1.1 U	R	0.98 U
Chloroform (Trichloromethane)	µg/kg	160	1.95 U	1.41 U	1.37 U	1.59 U	12 J	1.9 U	R	1.8 U
cis-1,2-Dichloroethene	µg/kg	NV	1.97 U	1.43 U	1.38 U	1.61 U	1.0 U	1.4 U	R	1.3 U
Methylene chloride	µg/kg	475	3 U	2.18 U	2.11 U	2.45 U	120	9.4	R	5.6 U
Tetrachloroethene	µg/kg	4.88	2.12 U	1.54 U	1.49 U	1.73 U	2.4 J	0.73 U	R	0.66 U
trans-1,2-Dichloroethene	µg/kg	3247	2.22 UJ	1.61 U	1.56 U	1.81 U	1.2 U	1.8 U	R	1.7 U
Trichloroethene	µg/kg	30.8	2.08 U	1.51 U	1.46 U	1.7 U	1.0 U	0.96 U	15 J	0.87 U
Vinyl chloride	µg/kg	0.73	2.48 U	1.79 U	1.74 U	2.02 U	1.5 UJ	2.3 U	R	2.1 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		Pier25-9	Pier25-9	Pier25-9	Pier25-9	Pier25-9	Pier25-10	Pier25-10	Pier25-10
Sample ID:		SE-102505-PIER25-9-005	SE-102505-PIER25-9-006	SE-102505-PIER25-9-007	SE-102505-PIER25-9-008	SE-102505-PIER25-9-009	SE-102705-PIER25-10-001	SE-102705-PIER25-10-002	SE-102705-PIER25-10-003
Sample Date:		10/25/2005	10/25/2005	10/25/2005	10/25/2005	10/25/2005	10/27/2005	10/27/2005	10/27/2005
Sample Depth:		51.5 to 53.5 ft bml	61.5 to 63.5 ft bml	71.5 to 73.5 ft bml	81.5 to 83.5 ft bml	81.5 to 83.5 ft bml	56 to 58 ft bml	66 to 68 ft bml	76 to 78 ft bml
elev_MLLW		-91.1 to -93.1	-101.1 to -103.1	-111.1 to -113.1	-121.1 to -123.1	-121.1 to -123.1	-91.17 to -93.17	-101.17 to -103.17	-111.17 to -113.17
elev_NGVD		-97.4 to -99.4 (Duplicate)	-107.4 to -109.4	-117.4 to -119.4	-127.4 to -129.4	-127.4 to -129.4 (Duplicate)	-97.5 to -99.5	-107.5 to -109.5	-117.5 to -119.5
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.5 U	1.6 U	1.4 U	1.3 U	1.24 U	1.5 U	1.7 U
1,1,2-Trichloroethane	µg/kg	15.2	0.60 U	0.61 U	0.54 U	0.52 U	27	6.2	38
1,1-Dichloroethene	µg/kg	1.13	0.98 U	1.0 U	0.89 U	0.86 U	64	16	65
Carbon tetrachloride	µg/kg	1.93	0.99 U	1.0 U	0.91 U	0.87 U	0.80 U	0.97 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.8 U	1.6 U	1.6 U	330 J	60	110 J
cis-1,2-Dichloroethene	µg/kg	NV	1.3 U	2.1 J	1.2 U	1.2 U	3600 J	3900	3600
Methylene chloride	µg/kg	475	5.7 U	5.8 U	5.2 U	5.0 U	510 J	160	24 UJ
Tetrachloroethene	µg/kg	4.88	0.67 U	0.69 U	0.61 U	0.59 U	0.54 U	0.66 U	0.74 U
trans-1,2-Dichloroethene	µg/kg	3247	1.7 U	1.7 U	1.5 U	1.5 U	380 J	120	190 J
Trichloroethene	µg/kg	30.8	0.88 U	0.90 U	0.80 U	0.77 U	150	23	130
Vinyl chloride	µg/kg	0.73	2.1 U	2.1 U	1.9 U	1.8 U	1400 J	530 J	77 J
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	Pier25-10	Pier25-10	Pier25-10	Pier25-10	Pier25-10	Pier25-11	Pier25-11	
Sample ID:	SE-102705-PIER25-10-004	SE-102705-PIER25-10-005	SE-102705-PIER25-10-006	SE-102705-PIER25-10-007	SE-102805-PIER25-10-008	SE-100605-PIER25-11-001	SE-100605-PIER25-11-002	
Sample Date:	10/27/2005	10/27/2005	10/27/2005	10/27/2005	10/28/2005	10/6/2005	10/6/2005	
Sample Depth:	86 to 88 ft bml	96 to 98 ft bml	96 to 98 ft bml	106 to 108 ft bml	116 to 118 ft bml	25 to 27 ft bml	35 to 37 ft bml	
elev_MLLW	-121.17 to -123.17	-131.17 to -133.17	-131.17 to -133.17	-141.17 to -143.17	-151.17 to -153.17	-59.88 to -61.88	-69.88 to -71.88	
elev_NGVD	-127.5 to -129.5	-137.5 to -139.5	-137.5 to -139.5	-147.5 to -149.5	-157.5 to -159.5	-66.2 to -68.2	-76.2 to -78.2	
Parameters	Units	Cs						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ	2.27 U	23.3 U
1,1,2-Trichloroethane	µg/kg	15.2	0.54 UJ	0.55 UJ	0.53 UJ	0.55 UJ	6.21 U	64 U
1,1-Dichloroethene	µg/kg	1.13	0.88 UJ	0.90 UJ	0.87 UJ	0.91 UJ	1.48 U	64.7 J
Carbon tetrachloride	µg/kg	1.93	0.90 UJ	0.91 UJ	0.88 UJ	0.92 UJ	1.59 U	16.4 U
Chloroform (Trichloromethane)	µg/kg	160	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.41 U	14.5 U
cis-1,2-Dichloroethene	µg/kg	NV	15 J	1.2 UJ	1.6 J	9.0 J	1.2 UJ	1.43 U
Methylene chloride	µg/kg	475	R	5.2 UJ	5.0 UJ	5.3 UJ	2.18 U	22.4 U
Tetrachloroethene	µg/kg	4.88	0.60 UJ	0.62 UJ	0.60 UJ	0.59 UJ	0.62 UJ	1.54 U
trans-1,2-Dichloroethene	µg/kg	3247	1.5 UJ	1.5 UJ	1.5 UJ	1.6 UJ	1.61 U	95.8
Trichloroethene	µg/kg	30.8	0.80 UJ	0.81 UJ	0.78 UJ	0.82 UJ	1.51 U	15.5 U
Vinyl chloride	µg/kg	0.73	2.9 J	1.9 UJ	1.9 UJ	1.8 UJ	1.8 U	4500
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
Metals~Total								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
PCBs								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
Pesticides								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Pier25-11</i>	<i>Pier25-11</i>	<i>Pier25-11</i>	<i>Pier25-11</i>	<i>Pier25-11</i>	<i>Pier25-11</i>	<i>Pier25-11</i>
<i>Sample ID:</i>			<i>SE-100605-PIER25-11-003</i>	<i>SE-100605-PIER25-11-004</i>	<i>SE-100605-PIER25-11-005</i>	<i>SE-100705-PIER25-11-006</i>	<i>SE-100705-PIER25-11-007</i>	<i>SE-100705-PIER25-11-008</i>	<i>SE-100705-PIER25-11-009</i>
<i>Sample Date:</i>			<i>10/6/2005</i>	<i>10/6/2005</i>	<i>10/6/2005</i>	<i>10/7/2005</i>	<i>10/7/2005</i>	<i>10/7/2005</i>	<i>10/7/2005</i>
<i>Sample Depth:</i>			<i>35 to 37 ft bml</i>	<i>45 to 47 ft bml</i>	<i>55 to 57 ft bml</i>	<i>65 to 67 ft bml</i>	<i>75 to 77 ft bml</i>	<i>85 to 87 ft bml</i>	<i>95 to 97 ft bml</i>
<i>elev_MLLW</i>			<i>-69.88 to -71.88</i>	<i>-79.88 to -81.88</i>	<i>-89.88 to -91.88</i>	<i>-99.88 to -101.88</i>	<i>-109.88 to -111.88</i>	<i>-119.88 to -121.88</i>	<i>-129.88 to -131.88</i>
<i>elev_NGVD</i>			<i>-76.2 to -78.2</i>	<i>-86.2 to -88.2</i>	<i>-96.2 to -98.2</i>	<i>-106.2 to -108.2</i>	<i>-116.2 to -118.2</i>	<i>-126.2 to -128.2</i>	<i>-136.2 to -138.2</i>
			<i>(Duplicate)</i>						
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	22.7 U	2.21 UJ	2.33 U	2.12 U	2.19 U	1.98 U	1.89 U
1,1,2-Trichloroethane	µg/kg	15.2	62.3 U	6.05 UJ	6.38 U	5.8 U	6 U	5.44 U	5.18 U
1,1-Dichloroethene	µg/kg	1.13	72.1	3.94 J	1.52 U	1.38 U	1.43 U	1.3 U	1.24 U
Carbon tetrachloride	µg/kg	1.93	16 U	1.55 UJ	1.64 U	1.49 U	1.54 U	1.39 U	1.33 U
Chloroform (Trichloromethane)	µg/kg	160	14.1 U	1.37 UJ	1.45 U	1.32 U	1.36 U	1.24 U	1.18 U
cis-1,2-Dichloroethene	µg/kg	NV	8650	535 J	1.47 U	1.33 U	1.38 U	1.25 U	1.19 U
Methylene chloride	µg/kg	475	21.8 U	2.12 UJ	2.24 U	2.03 U	2.1 U	1.91 U	1.81 U
Tetrachloroethene	µg/kg	4.88	15.4 U	1.5 UJ	1.58 U	1.43 U	1.48 U	1.34 U	1.28 U
trans-1,2-Dichloroethene	µg/kg	3247	71	17 J	1.65 U	1.5 U	1.55 U	1.41 U	1.34 U
Trichloroethene	µg/kg	30.8	15.1 U	1.47 UJ	1.55 U	1.41 U	1.46 U	1.32 U	1.26 U
Vinyl chloride	µg/kg	0.73	4690	205 J	1.84 U	1.68 U	1.73 U	1.57 U	1.5 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	
<i>Sample ID:</i>		<i>SE-020106-PIER25-12-002</i>	<i>SE-020106-PIER25-12-003</i>	<i>SE-020106-PIER25-12-004</i>	<i>SE-020106-PIER25-12-005</i>	<i>SE-020106-PIER25-12-006</i>	<i>SE-020106-PIER25-12-007</i>	<i>SE-020106-PIER25-12-008</i>	
<i>Sample Date:</i>		<i>2/1/2006</i>	<i>2/1/2006</i>	<i>2/1/2006</i>	<i>2/1/2006</i>	<i>2/1/2006</i>	<i>2/1/2006</i>	<i>2/1/2006</i>	
<i>Sample Depth:</i>		<i>10 to 12 ft bml</i>	<i>10 to 12 ft bml</i>	<i>20 to 22 ft bml</i>	<i>30 to 32 ft bml</i>	<i>40 to 42 ft bml</i>	<i>50 to 52 ft bml</i>	<i>60 to 62 ft bml</i>	
<i>elev_MLLW</i>		<i>-49.7 to -51.7</i>	<i>-49.7 to -51.7</i>	<i>-59.7 to -61.7</i>	<i>-69.7 to -71.7</i>	<i>-79.7 to -81.7</i>	<i>-89.7 to -91.7</i>	<i>-99.7 to -101.7</i>	
<i>elev_NGVD</i>		<i>-56 to -58</i>	<i>-56 to -58</i>	<i>-66 to -68</i>	<i>-76 to -78</i>	<i>-86 to -88</i>	<i>-96 to -98</i>	<i>-106 to -108</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.97 U	3.02 U	3.05 U	14.2 U	11.4	3.11 U	3.08 U
1,1,2-Trichloroethane	µg/kg	15.2	8.14 U	8.27 U	8.36 U	58.9	77.9	8.52 U	8.44 U
1,1-Dichloroethene	µg/kg	1.13	1.94 U	1.97 U	2 U	57.3	76	1720	69.8
Carbon tetrachloride	µg/kg	1.93	2.09 U	2.12 U	2.14 UJ	9.95 U	2.1 U	2.18 U	2.16 U
Chloroform (Trichloromethane)	µg/kg	160	1.85 U	1.88 U	1.9 U	417	864	1.93 U	1.92 U
cis-1,2-Dichloroethene	µg/kg	NV	1.87 U	1.9 U	23.5	15600	27300	66500	4380
Methylene chloride	µg/kg	475	2.85 U	2.9 U	2.93 U	211	616	2.98 U	17.6
Tetrachloroethene	µg/kg	4.88	2.01 U	15	34.7	9.6 U	6430	11	2810
trans-1,2-Dichloroethene	µg/kg	3247	2.11 U	2.14 U	2.17 UJ	373	360	1940	56
Trichloroethene	µg/kg	30.8	1.98 U	25.6	127 J	5010	52900	2330	5210
Vinyl chloride	µg/kg	0.73	2.35 U	2.39 U	2.42 UJ	1140	502	6430	839
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>
<i>Sample ID:</i>			<i>SE-020106-PIER25-12-009</i>	<i>SE-020106-PIER25-12-010</i>	<i>SE-020206-PIER25-13-002</i>	<i>SE-020206-PIER25-13-003</i>	<i>SE-020206-PIER25-13-004</i>	<i>SE-020206-PIER25-13-005</i>	<i>SE-020206-PIER25-13-006</i>	<i>SE-020206-PIER25-13-006</i>
<i>Sample Date:</i>			<i>2/1/2006</i>	<i>2/1/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>
<i>Sample Depth:</i>			<i>70 to 72 ft bml</i>	<i>80 to 82 ft bml</i>	<i>10 to 12 ft bml</i>	<i>20 to 22 ft bml</i>	<i>30 to 32 ft bml</i>	<i>30 to 32 ft bml</i>	<i>30 to 32 ft bml</i>	<i>40 to 42 ft bml</i>
<i>elev_MLLW</i>			<i>-109.7 to -111.7</i>	<i>-119.7 to -121.7</i>	<i>-52.8 to -54.8</i>	<i>-62.8 to -64.8</i>	<i>-72.8 to -74.8</i>	<i>-72.8 to -74.8</i>	<i>-72.8 to -74.8</i>	<i>-82.8 to -84.8</i>
<i>elev_NGVD</i>			<i>-116 to -118</i>	<i>-126 to -128</i>	<i>-59.1 to -61.1</i>	<i>-69.1 to -71.1</i>	<i>-79.1 to -81.1</i>	<i>-79.1 to -81.1</i>	<i>-79.1 to -81.1</i>	<i>-89.1 to -91.1</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>	<i>(Duplicate)</i>							
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3.14 U	3.02 U	1.6 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 UJ
1,1,2-Trichloroethane	µg/kg	15.2	8.6 U	8.27 U	4.2 J	81	1.9 J	0.63 U	0.62 U	0.62 U
1,1-Dichloroethene	µg/kg	1.13	359	104	99	130	110 J	230	130 J	130 J
Carbon tetrachloride	µg/kg	1.93	2.2 U	2.12 U	1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	1.0 U
Chloroform (Trichloromethane)	µg/kg	160	1.95 U	1.88 U	2.3 J	310 J	8.1	1.9 U	2.0 J	2.0 J
cis-1,2-Dichloroethene	µg/kg	NV	16200	4650	12000	27000	18000	22000	20000	20000
Methylene chloride	µg/kg	475	5.28 J	2.9 U	6.1 U	5.9 U	64 J	6.0 UJ	16 J	16 J
Tetrachloroethene	µg/kg	4.88	793	4310	0.72 U	1.7 J	1.6 J	0.71 U	10000	10000
trans-1,2-Dichloroethene	µg/kg	3247	130	52.1	800	670	360	510	160 J	160 J
Trichloroethene	µg/kg	30.8	34900	48000	17	38000	110 J	56	26000 J	26000 J
Vinyl chloride	µg/kg	0.73	1310	26.5	4700 J	750	77 UJ	1700 J	7800	7800
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	2.1 U	2.1 U	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	4.0 J	1.0 U	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	4.4 U	4.2 U	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	1500	1400	-	-	-	-
Chromium	µg/kg	714	-	-	14200 J	26600 J	-	-	-	-
Copper	µg/kg	53.5	-	-	17300 J	45400 J	-	-	-	-
Lead	µg/kg	81002	-	-	2400 J	52000 J	-	-	-	-
Mercury	µg/kg	1.31	-	-	22 U	22 U	-	-	-	-
Nickel	µg/kg	535	-	-	8000	8500	-	-	-	-
Thallium	µg/kg	34	-	-	48 J	35 J	-	-	-	-
Zinc	µg/kg	5045	-	-	25200	115000	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	13 U	13 U	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	
<i>Sample ID:</i>		<i>SE-020206-PIER25-13-007</i>	<i>SE-020206-PIER25-13-008</i>	<i>SE-020306-PIER25-13-009</i>	<i>SE-020306-PIER25-13-010</i>	<i>SE-020306-PIER25-13-011</i>	<i>SE-020306-PIER25-13-012</i>	<i>SE-020306-PIER25-13-013</i>	
<i>Sample Date:</i>		<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/3/2006</i>	<i>2/3/2006</i>	<i>2/3/2006</i>	<i>2/3/2006</i>	<i>2/3/2006</i>	
<i>Sample Depth:</i>		<i>50 to 52 ft bml</i>	<i>60 to 62 ft bml</i>	<i>70 to 72 ft bml</i>	<i>80 to 82 ft bml</i>	<i>90 to 92 ft bml</i>	<i>100 to 102 ft bml</i>	<i>110 to 112 ft bml</i>	
<i>elev_MLLW</i>		<i>-92.8 to -94.8</i>	<i>-102.8 to -104.8</i>	<i>-112.8 to -114.8</i>	<i>-122.8 to -124.8</i>	<i>-132.8 to -134.8</i>	<i>-142.8 to -144.8</i>	<i>-152.8 to -154.8</i>	
<i>elev_NGVD</i>		<i>-99.1 to -101.1</i>	<i>-109.1 to -111.1</i>	<i>-119.1 to -121.1</i>	<i>-129.1 to -131.1</i>	<i>-139.1 to -141.1</i>	<i>-149.1 to -151.1</i>	<i>-159.1 to -161.1</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.7 U	1.5 U	1.6 U	1.6 UJ	18 U	1.5 U	1.5 U
1,1,2-Trichloroethane	µg/kg	15.2	0.65 U	0.58 U	0.61 U	0.63 U	13 U	0.60 U	0.57 U
1,1-Dichloroethene	µg/kg	1.13	430 J	220	95	12 J	240	0.98 U	0.94 U
Carbon tetrachloride	µg/kg	1.93	1.1 U	0.97 U	1.0 U	1.1 U	6.5 U	1.0 U	0.95 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	1.7 U	1.8 U	2.1 J	10 U	1.8 U	1.7 U
cis-1,2-Dichloroethene	µg/kg	NV	17000	11000	4500	71000	26000	4.4 J	1.6 J
Methylene chloride	µg/kg	475	6.2 U	5.6 U	5.8 U	16 J	23 U	5.7 U	5.5 U
Tetrachloroethene	µg/kg	4.88	4600	5300	190	0.71 U	190	0.67 U	0.64 U
trans-1,2-Dichloroethene	µg/kg	3247	240	150	170	41 J	600	1.7 U	1.6 U
Trichloroethene	µg/kg	30.8	55000	41000	16000	19 J	9300	3.9 J	2.8 J
Vinyl chloride	µg/kg	0.73	940	2300	8.0	2.2 U	24 J	2.1 U	2.0 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-13</i>	<i>Pier25-14</i>	<i>Pier25-14</i>	<i>Pier25-14</i>	<i>Pier25-14</i>	<i>Pier25-14</i>	<i>Pier25-14</i>	
<i>Sample ID:</i>		<i>SE-020306-PIER25-13-014</i>	<i>SE-111605-PIER25-14-001</i>	<i>SE-111605-PIER25-14-002</i>	<i>SE-111605-PIER25-14-003</i>	<i>SE-111605-PIER25-14-004</i>	<i>SE-111605-PIER25-14-005</i>	<i>SE-111605-PIER25-14-006</i>	
<i>Sample Date:</i>		<i>2/3/2006</i>	<i>11/16/2005</i>	<i>11/16/2005</i>	<i>11/16/2005</i>	<i>11/16/2005</i>	<i>11/16/2005</i>	<i>11/16/2005</i>	
<i>Sample Depth:</i>		<i>120 to 122 ft bml</i>	<i>24.1 to 26.1 ft bml</i>	<i>34.1 to 36.1 ft bml</i>	<i>44.1 to 46.1 ft bml</i>	<i>54.1 to 56.1 ft bml</i>	<i>54.1 to 56.1 ft bml</i>	<i>64.1 to 66.1 ft bml</i>	
<i>elev_MLLW</i>		<i>-162.8 to -164.8</i>	<i>-59.9 to -61.9</i>	<i>-69.9 to -71.9</i>	<i>-79.9 to -81.9</i>	<i>-89.9 to -91.9</i>	<i>-89.9 to -91.9</i>	<i>-99.9 to -101.9</i>	
<i>elev_NGVD</i>		<i>-169.1 to -171.1</i>	<i>-66.2 to -68.2</i>	<i>-76.2 to -78.2</i>	<i>-86.2 to -88.2</i>	<i>-96.2 to -98.2</i>	<i>-96.2 to -98.2</i>	<i>-106.2 to -108.2</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>					<i>(Duplicate)</i>		
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.31 U	2.22 U	2.38 U	2.3 U	2.24 U	2.09 U	1.85 U
1,1,2-Trichloroethane	µg/kg	15.2	6.34 U	6.08 U	6.54 U	6.3 U	6.14 U	5.74 U	5.06 U
1,1-Dichloroethene	µg/kg	1.13	1.51 U	1.45 U	1.56 U	1.5 U	1.47 U	1.37 U	1.21 U
Carbon tetrachloride	µg/kg	1.93	1.62 U	1.56 U	1.67 U	1.61 UJ	1.57 U	1.47 U	1.3 U
Chloroform (Trichloromethane)	µg/kg	160	1.44 U	1.38 U	1.48 U	1.43 U	1.39 U	1.3 U	1.15 U
cis-1,2-Dichloroethene	µg/kg	NV	55	1.4 U	1.5 U	1.45 U	1.41 U	1.32 U	1.16 U
Methylene chloride	µg/kg	475	2.22 U	2.13 U	2.29 U	2.21 U	2.15 U	2.01 U	1.77 U
Tetrachloroethene	µg/kg	4.88	1.57 U	1.5 U	1.62 U	1.56 U	1.52 U	1.42 U	1.25 U
trans-1,2-Dichloroethene	µg/kg	3247	1.64 U	1.57 U	1.69 U	1.63 UJ	1.59 U	1.49 U	1.31 U
Trichloroethene	µg/kg	30.8	70.7	1.48 U	1.59 U	1.53 U	1.49 U	1.39 U	1.23 U
Vinyl chloride	µg/kg	0.73	1.83 U	1.76 U	1.89 U	1.82 UJ	1.77 U	1.66 U	1.46 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-15</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	
<i>Sample ID:</i>		<i>SE-113005-PIER25-15-001</i>	<i>SE-122205-PIER25-15-001</i>	<i>SE-113005-PIER25-15-002</i>	<i>SE-122205-PIER25-15-002</i>	<i>SE-113005-PIER25-15-003</i>	<i>SE-122205-PIER25-15-003</i>	<i>SE-113005-PIER25-15-004</i>	
<i>Sample Date:</i>		<i>11/30/2005</i>	<i>12/22/2005</i>	<i>11/30/2005</i>	<i>12/22/2005</i>	<i>11/30/2005</i>	<i>12/22/2005</i>	<i>11/30/2005</i>	
<i>Sample Depth:</i>		<i>29 to 31 ft bml</i>	<i>29 to 31 ft bml</i>	<i>39 to 41 ft bml</i>	<i>39 to 41 ft bml</i>	<i>49 to 51 ft bml</i>	<i>49 to 51 ft bml</i>	<i>59 to 61 ft bml</i>	
<i>elev_MLLW</i>		<i>-59.9 to -61.9</i>	<i>-59.9 to -61.9</i>	<i>-69.9 to -71.9</i>	<i>-69.9 to -71.9</i>	<i>-79.9 to -81.9</i>	<i>-79.9 to -81.9</i>	<i>-89.9 to -91.9</i>	
<i>elev_NGVD</i>		<i>-66.2 to -68.2</i>	<i>-66.2 to -68.2</i>	<i>-76.2 to -78.2</i>	<i>-76.2 to -78.2</i>	<i>-86.2 to -88.2</i>	<i>-86.2 to -88.2</i>	<i>-96.2 to -98.2</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	2.21 U	1.6 U	2.31 U	1.7 U	2.29 U	1.3 U
1,1,2-Trichloroethane	µg/kg	15.2	0.60 U	6.06 U	0.64 U	6.34 U	0.65 U	6.27 U	0.50 U
1,1-Dichloroethene	µg/kg	1.13	9.1	1.45 U	1.1 U	1.51 U	1.1 U	2.97 J	0.82 U
Carbon tetrachloride	µg/kg	1.93	1.0 U	1.55 U	1.1 U	1.62 U	1.1 U	1.61 U	0.83 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.38 U	1.9 U	1.44 U	1.9 U	1.42 U	1.5 U
cis-1,2-Dichloroethene	µg/kg	NV	10 U	1.39 U	15	1.46 U	1.4 U	460	1.1 U
Methylene chloride	µg/kg	475	5.8 U	2.12 U	6.1 U	2.22 U	6.2 U	2.2 U	4.8 U
Tetrachloroethene	µg/kg	4.88	5.0 J	1.5 U	1.4 J	1.57 U	1.5 J	1.55 U	0.56 U
trans-1,2-Dichloroethene	µg/kg	3247	23	1.57 U	1.8 U	1.64 U	1.8 U	7.84	1.4 U
Trichloroethene	µg/kg	30.8	0.89 U	1.47 U	0.94 U	1.54 U	0.96 U	1.52 U	0.74 U
Vinyl chloride	µg/kg	0.73	14 U	1.75 U	230	1.83 U	2.3 U	3330	1.8 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Pier25-15</i>	<i>Pier25-16</i>	<i>Pier25-16</i>	<i>Pier25-16</i>	<i>Pier25-16</i>	<i>Pier25-16</i>	<i>Pier25-16</i>
<i>Sample ID:</i>			<i>SE-120105-PIER25-15-005</i>	<i>SE-121205-PIER25-16-002</i>	<i>SE-121205-PIER25-16-003</i>	<i>SE-112205-PIER25-16-007</i>	<i>SE-112205-PIER25-16-008</i>	<i>SE-112205-PIER25-16-009</i>	<i>SE-112205-PIER25-16-010</i>
<i>Sample Date:</i>			<i>12/1/2005</i>	<i>12/12/2005</i>	<i>12/12/2005</i>	<i>11/22/2005</i>	<i>11/22/2005</i>	<i>11/22/2005</i>	<i>11/22/2005</i>
<i>Sample Depth:</i>			<i>69 to 71 ft bml</i>	<i>7 to 9 ft bml</i>	<i>14.4 to 16.4 ft bml</i>	<i>74.4 to 76.4 ft bml</i>	<i>84.4 to 86.4 ft bml</i>	<i>94.4 to 96.4 ft bml</i>	<i>104.4 to 106.4 ft bml</i>
<i>elev_MLLW</i>			<i>-99.9 to -101.9</i>	<i>-42.5 to -44.5</i>	<i>-49.9 to -51.9</i>	<i>-109.9 to -111.9</i>	<i>-119.9 to -121.9</i>	<i>-129.9 to -131.9</i>	<i>-139.9 to -141.9</i>
<i>elev_NGVD</i>			<i>-106.2 to -108.2</i>	<i>-48.8 to -50.8</i>	<i>-56.2 to -58.2</i>	<i>-116.2 to -118.2</i>	<i>-126.2 to -128.2</i>	<i>-136.2 to -138.2</i>	<i>-146.2 to -148.2</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.5 U	0.0976 U	0.0999 U	2.31 U	2.08 U	1.95 U	1.9 U
1,1,2-Trichloroethane	µg/kg	15.2	0.58 U	0.0866 U	0.0885 U	6.34 U	5.7 U	5.35 U	5.22 U
1,1-Dichloroethene	µg/kg	1.13	0.96 U	0.108 U	0.11 U	10	1.74 J	1.28 U	1.25 U
Carbon tetrachloride	µg/kg	1.93	0.97 U	0.0902 U	0.0923 U	1.62 U	1.46 U	1.37 U	1.34 U
Chloroform (Trichloromethane)	µg/kg	160	1.7 U	0.0572 U	0.0585 U	1.44 U	1.3 U	1.22 U	1.19 U
cis-1,2-Dichloroethene	µg/kg	NV	1.3 U	0.0789 J	0.0674 J	727	118	1.23 U	1.2 U
Methylene chloride	µg/kg	475	5.5 U	0.0873 U	0.0893 U	2.22 U	2 U	1.88 U	1.83 U
Tetrachloroethene	µg/kg	4.88	1.3 J	0.391 J	0.452 J	1.57 U	1.41 U	1.32 U	1.29 U
trans-1,2-Dichloroethene	µg/kg	3247	1.6 U	0.0704 U	0.072 U	45.2	8.76	1.39 U	1.35 U
Trichloroethene	µg/kg	30.8	0.86 U	0.188 J	0.233 J	1.54 U	1.38 U	1.3 U	1.27 U
Vinyl chloride	µg/kg	0.73	2.0 U	0.112 U	0.114 U	3330	458	1.55 U	1.51 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Pier25-17</i>		<i>Pier25-17</i>		<i>Pier25-17</i>		<i>Pier25-17</i>		<i>Pier25-17</i>		<i>Pier25-17</i>				
<i>Sample ID:</i>			<i>SE-121205-PIER25-17-001</i>	<i>SE-121205-PIER25-17-002</i>	<i>SE-121205-PIER25-17-003</i>	<i>SE-121205-PIER25-17-004</i>	<i>SE-111705-PIER25-17-001</i>	<i>SE-111705-PIER25-17-002</i>	<i>SE-111705-PIER25-17-003</i>								
<i>Sample Date:</i>			<i>12/12/2005</i>	<i>12/12/2005</i>	<i>12/12/2005</i>	<i>12/12/2005</i>	<i>11/17/2005</i>	<i>11/17/2005</i>	<i>11/17/2005</i>								
<i>Sample Depth:</i>			<i>6.1 to 8.1 ft bml</i>	<i>15.5 to 17.5 ft bml</i>	<i>25.5 to 27.5 ft bml</i>	<i>35.5 to 37.5 ft bml</i>	<i>43.7 to 45.7 ft bml</i>	<i>53.7 to 55.7 ft bml</i>	<i>63.7 to 65.7 ft bml</i>								
<i>elev_MLLW</i>			<i>-43.6 to -45.6</i>	<i>-53 to -55</i>	<i>-63 to -65</i>	<i>-73 to -75</i>	<i>-81.2 to -83.2</i>	<i>-91.2 to -93.2</i>	<i>-101.2 to -103.2</i>								
<i>elev_NGVD</i>			<i>-49.9 to -51.9</i>	<i>-59.3 to -61.3</i>	<i>-69.3 to -71.3</i>	<i>-79.3 to -81.3</i>	<i>-87.5 to -89.5</i>	<i>-97.5 to -99.5</i>	<i>-107.5 to -109.5</i>								
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>															
<i>Volatile Organic Compounds</i>																	
1,1,2,2-Tetrachloroethane	µg/kg	4.02	0.106 U	0.106 U	2.49 J	0.108 U	1.6 UJ	1.5 UJ	1.9 UJ								
1,1,2-Trichloroethane	µg/kg	15.2	0.0935 U	0.0943 U	196	21.7	47 J	26 J	0.74 UJ								
1,1-Dichloroethene	µg/kg	1.13	0.116 U	0.219 J	202 J	95.2 J	200 J	1300	29 J								
Carbon tetrachloride	µg/kg	1.93	0.0975 U	0.0983 U	0.0951 U	0.0997 U	1.0 UJ	0.99 UJ	1.2 UJ								
Chloroform (Trichloromethane)	µg/kg	160	0.0618 U	0.0623 U	900 J	31.9 J	4.9 J	9.7 J	2.2 UJ								
cis-1,2-Dichloroethene	µg/kg	NV	0.568 J	6.03	10700 J	10000 J	80000	110000	32000								
Methylene chloride	µg/kg	475	0.0944 U	0.0951 U	0.0921 U	1.3 J	900	78 J	7.0 UJ								
Tetrachloroethene	µg/kg	4.88	0.485 J	0.204 U	53.3	0.506 J	0.69 UJ	0.67 UJ	0.83 UJ								
trans-1,2-Dichloroethene	µg/kg	3247	0.0761 U	1.09 J	1440 J	665 J	1600	2800	46 J								
Trichloroethene	µg/kg	30.8	0.262 J	0.168 UJ	5130 J	27.2 J	150 J	140 J	5200								
Vinyl chloride	µg/kg	0.73	0.121 U	118	403 J	2980 J	1100 J	10000 J	240 J								
<i>Semi-volatile Organic Compounds</i>																	
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-								
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-								
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-								
<i>Metals~Total</i>																	
Arsenic	µg/kg	146	-	-	-	-	-	-	-								
Chromium	µg/kg	714	-	-	-	-	-	-	-								
Copper	µg/kg	53.5	-	-	-	-	-	-	-								
Lead	µg/kg	81002	-	-	-	-	-	-	-								
Mercury	µg/kg	1.31	-	-	-	-	-	-	-								
Nickel	µg/kg	535	-	-	-	-	-	-	-								
Thallium	µg/kg	34	-	-	-	-	-	-	-								
Zinc	µg/kg	5045	-	-	-	-	-	-	-								
<i>PCBs</i>																	
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-								
<i>Pesticides</i>																	
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-								
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-								
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-								

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	Pier25-17	Pier25-17	Pier25-17	Pier25-17	Pier25-18	Pier25-18	Pier25-18		
Sample ID:	SE-111705-PIER25-17-004	SE-111705-PIER25-17-005	SE-111705-PIER25-17-006	SE-112105-PIER25-17-007	SE-120805-PIER25-18-002	SE-120805-PIER25-18-003	SE-120805-PIER25-18-004		
Sample Date:	11/17/2005	11/17/2005	11/17/2005	11/21/2005	12/8/2005	12/8/2005	12/8/2005		
Sample Depth:	73.7 to 75.7 ft bml	83.7 to 85.7 ft bml	93.7 to 95.7 ft bml	103.7 to 105.7 ft bml	12 to 14 ft bml	12 to 14 ft bml	22 to 24 ft bml		
elev_MLLW	-111.2 to -113.2	-121.2 to -123.2	-131.2 to -133.2	-141.2 to -143.2	-46.5 to -48.5	-46.5 to -48.5	-56.5 to -58.5		
elev_NGVD	-117.5 to -119.5	-127.5 to -129.5	-137.5 to -139.5	-147.5 to -149.5	-52.8 to -54.8	-52.8 to -54.8 (Duplicate)	-62.8 to -64.8		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	R	1.6 U	1.5 U	1.4 U	1.24 U	1.24 U	1.24 UJ
1,1,2-Trichloroethane	µg/kg	15.2	R	0.63 U	0.59 U	0.52 U	0.48 U	0.48 U	0.48 UJ
1,1-Dichloroethene	µg/kg	1.13	8.0 J	3.4 J	0.97 U	0.86 U	9.2	12	830
Carbon tetrachloride	µg/kg	1.93	R	1.1 U	0.98 U	0.87 U	0.80 U	0.80 U	0.80 UJ
Chloroform (Trichloromethane)	µg/kg	160	R	1.9 U	1.8 U	1.6 U	1.43 U	1.43 U	1.43 UJ
cis-1,2-Dichloroethene	µg/kg	NV	17000	2200	2.2 J	1.2 U	170	190	48000
Methylene chloride	µg/kg	475	R	6.1 U	5.6 U	5.0 U	4.58 U	4.58 U	4.58 UJ
Tetrachloroethene	µg/kg	4.88	R	1.4 J	1.8 J	0.59 U	0.54 U	0.54 U	0.54 UJ
trans-1,2-Dichloroethene	µg/kg	3247	29 J	13	1.7 U	1.5 U	27	54	1200
Trichloroethene	µg/kg	30.8	59 J	3.6 J	0.87 U	0.77 U	0.71 U	0.71 U	5.1 J
Vinyl chloride	µg/kg	0.73	1400 J	280 J	2.1 U	1.8 U	2600	1100	6300
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>
<i>Sample ID:</i>		<i>SE-120805-PIER25-18-005</i>	<i>SE-120905-PIER25-18-006</i>	<i>SE-120905-PIER25-18-007</i>	<i>SE-120905-PIER25-18-008</i>	<i>SE-120905-PIER25-18-009</i>	<i>SE-120905-PIER25-18-010</i>	<i>SE-120905-PIER25-18-011</i>
<i>Sample Date:</i>		<i>12/9/2005</i>	<i>12/9/2005</i>	<i>12/9/2005</i>	<i>12/9/2005</i>	<i>12/9/2005</i>	<i>12/9/2005</i>	<i>12/9/2005</i>
<i>Sample Depth:</i>		<i>32 to 34 ft bml</i>	<i>42 to 44 ft bml</i>	<i>52 to 54 ft bml</i>	<i>62 to 64 ft bml</i>	<i>72 to 74 ft bml</i>	<i>82 to 84 ft bml</i>	<i>102 to 104 ft bml</i>
<i>elev_MLLW</i>		<i>-66.5 to -68.5</i>	<i>-76.5 to -78.5</i>	<i>-86.5 to -88.5</i>	<i>-96.5 to -98.5</i>	<i>-106.5 to -108.5</i>	<i>-116.5 to -118.5</i>	<i>-136.5 to -138.5</i>
<i>elev_NGVD</i>		<i>-72.8 to -74.8</i>	<i>-82.8 to -84.8</i>	<i>-92.8 to -94.8</i>	<i>-102.8 to -104.8</i>	<i>-112.8 to -114.8</i>	<i>-122.8 to -124.8</i>	<i>-142.8 to -144.8</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.24 U	1.24 UJ	1.24 UJ	1.24 U	1.24 U	1.24 U
1,1,2-Trichloroethane	µg/kg	15.2	0.48 UJ	0.48 UJ	0.48 UJ	0.48 U	0.48 U	0.48 U
1,1-Dichloroethene	µg/kg	1.13	820 J	420	260	2.2 J	56	1.4 J
Carbon tetrachloride	µg/kg	1.93	0.80 UJ	0.80 UJ	0.80 UJ	0.80 UJ	0.80 UJ	0.80 UJ
Chloroform (Trichloromethane)	µg/kg	160	1.43 UJ	1.43 UJ	1.43 UJ	1.43 U	1.43 U	1.43 U
cis-1,2-Dichloroethene	µg/kg	NV	46000	28000	14000	3900	3300	74
Methylene chloride	µg/kg	475	4.58 UJ	4.58 UJ	4.58 UJ	4.58 U	4.58 U	4.58 U
Tetrachloroethene	µg/kg	4.88	0.54 UJ	0.54 UJ	0.54 UJ	120	1100	5.4 J
trans-1,2-Dichloroethene	µg/kg	3247	930 J	400	340	4.2 J	36	5.5 J
Trichloroethene	µg/kg	30.8	0.71 UJ	0.71 UJ	0.71 UJ	13000	15000	140 J
Vinyl chloride	µg/kg	0.73	7000	4000 J	2000 J	21	40	830 J
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-18</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	
<i>Sample ID:</i>		<i>SE-120905-PIER25-18-012</i>	<i>SE-120705-PIER25-19-001</i>	<i>SE-120705-PIER25-19-002</i>	<i>SE-120705-PIER25-19-003</i>	<i>SE-120705-PIER25-19-004</i>	<i>SE-120705-PIER25-19-005</i>	<i>SE-120705-PIER25-19-006</i>	
<i>Sample Date:</i>		<i>12/9/2005</i>	<i>12/7/2005</i>	<i>12/7/2005</i>	<i>12/7/2005</i>	<i>12/7/2005</i>	<i>12/7/2005</i>	<i>12/7/2005</i>	
<i>Sample Depth:</i>		<i>112 to 114 ft bml</i>	<i>12.6 to 14.6 ft bml</i>	<i>22.6 to 24.6 ft bml</i>	<i>32.6 to 34.6 ft bml</i>	<i>42.6 to 44.6 ft bml</i>	<i>52.6 to 54.6 ft bml</i>	<i>62.6 to 64.6 ft bml</i>	
<i>elev_MLLW</i>		<i>-146.5 to -148.5</i>	<i>-49.2 to -51.2</i>	<i>-59.2 to -61.2</i>	<i>-69.2 to -71.2</i>	<i>-79.2 to -81.2</i>	<i>-89.2 to -91.2</i>	<i>-99.2 to -101.2</i>	
<i>elev_NGVD</i>		<i>-152.8 to -154.8</i>	<i>-55.5 to -57.5</i>	<i>-65.5 to -67.5</i>	<i>-75.5 to -77.5</i>	<i>-85.5 to -87.5</i>	<i>-95.5 to -97.5</i>	<i>-105.5 to -107.5</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.24 U	2.5 U	2.37 U	22.3 U	23.2 U	22.1 U	R
1,1,2-Trichloroethane	µg/kg	15.2	0.48 U	6.84 U	6.5 U	61.2 U	63.7 U	60.6 U	R
1,1-Dichloroethene	µg/kg	1.13	0.79 U	1.63 U	1.55 U	141	15.2 U	350	71.5 J
Carbon tetrachloride	µg/kg	1.93	0.80 UJ	1.75 U	1.67 U	15.7 U	16.3 U	15.5 U	R
Chloroform (Trichloromethane)	µg/kg	160	1.43 U	1.67 U	1.48 U	13.9 U	14.5 U	13.8 U	R
cis-1,2-Dichloroethene	µg/kg	NV	1.07 U	1.57 U	2.15 U	15600	2420	20800	8040
Methylene chloride	µg/kg	475	4.58 U	2.4 U	2.28 U	21.4 U	22.3 U	21.2 U	23.3 UJ
Tetrachloroethene	µg/kg	4.88	0.54 U	1.71 J	1.61 U	15.1 U	15.7 U	15 U	R
trans-1,2-Dichloroethene	µg/kg	3247	1.35 U	1.77 U	5.84 J	300	74	529	115 J
Trichloroethene	µg/kg	30.8	0.71 UJ	1.66 U	1.58 U	14.8 U	15.5 U	14.7 U	266 J
Vinyl chloride	µg/kg	0.73	1.68 U	1.98 U	184	3850	1370	11900	3730 J
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-20</i>	<i>Pier25-20</i>	<i>Pier25-20</i>	
<i>Sample ID:</i>		<i>SE-120705-PIER25-19-007</i>	<i>SE-120705-PIER25-19-008</i>	<i>SE-120705-PIER25-19-009</i>	<i>SE-120705-PIER25-19-010</i>	<i>SE-120605-PIER25-20-001</i>	<i>SE-120605-PIER25-20-002</i>	<i>SE-120605-PIER25-20-003</i>	
<i>Sample Date:</i>		<i>12/7/2005</i>	<i>12/7/2005</i>	<i>12/8/2005</i>	<i>12/8/2005</i>	<i>12/6/2005</i>	<i>12/6/2005</i>	<i>12/6/2005</i>	
<i>Sample Depth:</i>		<i>72.6 to 74.6 ft bml</i>	<i>82.6 to 84.6 ft bml</i>	<i>92.6 to 94.6 ft bml</i>	<i>102.6 to 104.6 ft bml</i>	<i>20 to 22 ft bml</i>	<i>20 to 22 ft bml</i>	<i>30 to 32 ft bml</i>	
<i>elev_MLLW</i>		<i>-109.2 to -111.2</i>	<i>-119.2 to -121.2</i>	<i>-129.2 to -131.2</i>	<i>-139.2 to -141.2</i>	<i>-49.9 to -51.9</i>	<i>-49.9 to -51.9</i>	<i>-59.9 to -61.9</i>	
<i>elev_NGVD</i>		<i>-115.5 to -117.5</i>	<i>-125.5 to -127.5</i>	<i>-135.5 to -137.5</i>	<i>-145.5 to -147.5</i>	<i>-56.2 to -58.2</i>	<i>(Duplicate)</i>	<i>-66.2 to -68.2</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.76 U	43.3 U	1.94 U	1.84 U	1.24 U	1.24 U	1.24 UJ
1,1,2-Trichloroethane	µg/kg	15.2	7.57 U	119 U	5.32 U	5.05 U	0.48 U	0.48 U	0.48 UJ
1,1-Dichloroethene	µg/kg	1.13	6.81 J	376	1.27 U	1.21 U	0.79 U	0.79 U	12 J
Carbon tetrachloride	µg/kg	1.93	1.94 U	30.4 U	1.36 U	1.29 U	0.80 U	0.80 U	0.80 UJ
Chloroform (Trichloromethane)	µg/kg	160	1.72 U	27 U	1.21 U	1.15 U	3.7 J	2.9 J	1.43 UJ
cis-1,2-Dichloroethene	µg/kg	NV	972	25800	1.22 U	1.16 U	1.7 J	1.8 J	6400 J
Methylene chloride	µg/kg	475	4.48 J	72.2 J	3.64 J	3.56 J	4.58 U	4.58 U	4.58 UJ
Tetrachloroethene	µg/kg	4.88	1.87 U	29.4 U	1.31 U	1.25 U	0.54 U	0.54 U	0.54 UJ
trans-1,2-Dichloroethene	µg/kg	3247	20.2	511	1.38 U	1.31 U	1.35 U	1.35 U	44 J
Trichloroethene	µg/kg	30.8	6.79 J	28.8 U	1.29 U	1.23 U	0.71 U	0.71 U	0.71 UJ
Vinyl chloride	µg/kg	0.73	1150	6940	1.54 U	1.46 U	43	84	2300 J
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	Pier25-20	Pier25-20	Pier25-20	Pier25-20	Pier25-20	Pier25-20	Pier25-20
Sample ID:	SE-120605-PIER25-20-004	SE-120605-PIER25-20-005	SE-120605-PIER25-20-006	SE-120605-PIER25-20-007	SE-120605-PIER25-20-008	SE-120605-PIER25-20-009	SE-120605-PIER25-20-010
Sample Date:	12/6/2005	12/6/2005	12/6/2005	12/6/2005	12/6/2005	12/6/2005	12/6/2005
Sample Depth:	40 to 42 ft bml	50 to 52 ft bml	60 to 62 ft bml	70 to 72 ft bml	80 to 82 ft bml	90 to 92 ft bml	100 to 102 ft bml
elev_MLLW	-69.9 to -71.9	-79.9 to -81.9	-89.9 to -91.9	-99.9 to -101.9	-109.9 to -111.9	-119.9 to -121.9	-129.9 to -131.9
elev_NGVD	-76.2 to -78.2	-86.2 to -88.2	-96.2 to -98.2	-106.2 to -108.2	-116.2 to -118.2	-126.2 to -128.2	-136.2 to -138.2
Parameters	Units	Cs					
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.24 U	R	1.24 UJ	1.24 U	1.24 U
1,1,2-Trichloroethane	µg/kg	15.2	0.48 U	R	0.48 UJ	0.48 U	0.48 U
1,1-Dichloroethene	µg/kg	1.13	22	61.1	0.79 UJ	0.79 U	0.79 U
Carbon tetrachloride	µg/kg	1.93	0.80 U	R	0.80 UJ	0.80 U	0.80 U
Chloroform (Trichloromethane)	µg/kg	160	3.4 J	R	1.43 UJ	3.2 J	1.43 U
cis-1,2-Dichloroethene	µg/kg	NV	7300	13000	6.9 J	3.0 J	1.07 U
Methylene chloride	µg/kg	475	4.58 U	R	4.58 UJ	4.58 U	44
Tetrachloroethene	µg/kg	4.88	0.54 U	R	0.54 UJ	0.54 U	0.54 U
trans-1,2-Dichloroethene	µg/kg	3247	69	210 J	1.35 UJ	1.35 U	1.35 U
Trichloroethene	µg/kg	30.8	0.71 U	R	0.71 UJ	0.71 U	0.71 U
Vinyl chloride	µg/kg	0.73	0.23 U	410	1.68 UJ	1.68 U	1.68 U
Semi-volatile Organic Compounds							
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-
Metals~Total							
Arsenic	µg/kg	146	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-
PCBs							
Total PCBs	µg/kg	0.053	-	-	-	-	-
Pesticides							
4,4'-DDD	µg/kg	0.043	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-21</i>	<i>Pier25-21</i>	<i>Pier25-21</i>	<i>Pier25-21</i>	<i>Pier25-21</i>	<i>Pier25-21</i>	<i>Pier25-21</i>
<i>Sample ID:</i>		<i>SE-010306-PIER25-21-002</i>	<i>SE-010306-PIER25-21-003</i>	<i>SE-010306-PIER25-21-004</i>	<i>SE-010306-PIER25-21-005</i>	<i>SE-010306-PIER25-21-006</i>	<i>SE-010306-PIER25-21-007</i>	<i>SE-010406-PIER25-21-008</i>
<i>Sample Date:</i>		<i>1/3/2006</i>	<i>1/3/2006</i>	<i>1/3/2006</i>	<i>1/3/2006</i>	<i>1/3/2006</i>	<i>1/3/2006</i>	<i>1/4/2006</i>
<i>Sample Depth:</i>		<i>10.5 to 12.5 ft bml</i>	<i>20.5 to 22.5 ft bml</i>	<i>20.5 to 22.5 ft bml</i>	<i>30.5 to 32.5 ft bml</i>	<i>40.5 to 42.5 ft bml</i>	<i>50.5 to 52.5 ft bml</i>	<i>60.5 to 62.5 ft bml</i>
<i>elev_MLLW</i>		<i>-42 to -44</i>	<i>-52 to -54</i>	<i>-52 to -54</i>	<i>-62 to -64</i>	<i>-72 to -74</i>	<i>-82 to -84</i>	<i>-92 to -94</i>
<i>elev_NGVD</i>		<i>-48.3 to -50.3</i>	<i>-58.3 to -60.3</i>	<i>-58.3 to -60.3</i>	<i>-68.3 to -70.3</i>	<i>-78.3 to -80.3</i>	<i>-88.3 to -90.3</i>	<i>-98.3 to -100.3</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.5 U	1.5 U	1.7 U	1.7 U	1.4 U
1,1,2-Trichloroethane	µg/kg	15.2	0.60 U	0.57 U	0.58 U	0.64 U	0.66 U	0.54 U
1,1-Dichloroethene	µg/kg	1.13	0.99 U	0.94 U	0.96 U	1.1 U	1.1 U	0.89 U
Carbon tetrachloride	µg/kg	1.93	1.0 U	0.96 U	0.97 U	1.1 U	1.1 U	0.90 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.7 U	1.7 U	1.9 U	2.0 U	1.6 U
cis-1,2-Dichloroethene	µg/kg	NV	1.3 U	1.3 U	1.3 U	1.4 U	1.5 U	1.2 U
Methylene chloride	µg/kg	475	5.8 U	5.5 U	5.6 U	6.1 U	6.3 U	5.2 U
Tetrachloroethene	µg/kg	4.88	0.68 U	0.65 U	0.66 U	0.72 U	0.75 U	0.61 U
trans-1,2-Dichloroethene	µg/kg	3247	1.7 U	1.6 U	1.6 U	1.8 U	1.9 U	1.5 U
Trichloroethene	µg/kg	30.8	0.89 U	0.85 U	0.86 U	0.95 U	0.98 U	0.80 U
Vinyl chloride	µg/kg	0.73	2.1 U	2.0 U	2.0 U	2.3 U	2.3 U	1.9 U
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-22</i>	<i>Pier25-22</i>	<i>Pier25-22</i>	<i>Pier25-22</i>	<i>Pier25-22</i>	<i>Pier25-22</i>	<i>Pier25-22</i>
<i>Sample ID:</i>		<i>SE-011706-PIER25-22-002</i>	<i>SE-011706-PIER25-22-003</i>	<i>SE-011706-PIER25-22-004</i>	<i>SE-011806-PIER25-22-005</i>	<i>SE-011806-PIER25-22-006</i>	<i>SE-011806-PIER25-22-007</i>	<i>SE-011806-PIER25-22-008</i>
<i>Sample Date:</i>		<i>1/17/2006</i>	<i>1/17/2006</i>	<i>1/17/2006</i>	<i>1/18/2006</i>	<i>1/18/2006</i>	<i>1/18/2006</i>	<i>1/18/2006</i>
<i>Sample Depth:</i>		<i>10.1 to 12.1 ft bml</i>	<i>20.1 to 22.1 ft bml</i>	<i>30.1 to 32.1 ft bml</i>	<i>40.1 to 42.1 ft bml</i>	<i>50.1 to 52.1 ft bml</i>	<i>50.1 to 52.1 ft bml</i>	<i>60.1 to 62.1 ft bml</i>
<i>elev_MLLW</i>		<i>-22.1 to -24.1</i>	<i>-32.1 to -34.1</i>	<i>-42.1 to -44.1</i>	<i>-52.1 to -54.1</i>	<i>-62.1 to -64.1</i>	<i>-62.1 to -64.1</i>	<i>-72.1 to -74.1</i>
<i>elev_NGVD</i>		<i>-28.4 to -30.4</i>	<i>-38.4 to -40.4</i>	<i>-48.4 to -50.4</i>	<i>-58.4 to -60.4</i>	<i>-68.4 to -70.4</i>	<i>-68.4 to -70.4</i>	<i>-78.4 to -80.4</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 U	1.6 U	1.7 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.60 U	0.60 U	0.63 U	0.65 U	0.61 U	0.61 U
1,1-Dichloroethene	µg/kg	1.13	0.99 U	0.99 U	1.0 U	3.4 J	8.4 J	20
Carbon tetrachloride	µg/kg	1.93	1.0 U	1.0 U	1.1 U	1.1 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	1.3 U	1.4 U	170	3100	2100
Methylene chloride	µg/kg	475	5.8 U	5.7 U	6.0 UJ	6.2 U	5.9 U	5.8 U
Tetrachloroethene	µg/kg	4.88	0.68 U	0.68 U	0.71 U	0.73 U	0.69 U	0.68 U
trans-1,2-Dichloroethene	µg/kg	3247	1.7 U	1.7 U	1.8 U	13	43 J	110
Trichloroethene	µg/kg	30.8	0.89 U	0.89 U	0.93 UJ	0.96 U	0.91 U	0.90 U
Vinyl chloride	µg/kg	0.73	2.1 U	2.1 U	2.2 U	1500 J	210 J	170 J
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-22</i>	<i>Pier25-22</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>
<i>Sample ID:</i>		<i>SE-011806-PIER25-22-009</i>	<i>SE-011806-PIER25-22-010</i>	<i>SE-011206-PIER25-24-001</i>	<i>SE-011206-PIER25-24-002</i>	<i>SE-011206-PIER25-24-003</i>	<i>SE-011206-PIER25-24-004</i>	<i>SE-011206-PIER25-24-005</i>
<i>Sample Date:</i>		<i>1/18/2006</i>	<i>1/18/2006</i>	<i>1/12/2006</i>	<i>1/12/2006</i>	<i>1/12/2006</i>	<i>1/12/2006</i>	<i>1/12/2006</i>
<i>Sample Depth:</i>		<i>70.1 to 72.1 ft bml</i>	<i>80.1 to 82.1 ft bml</i>	<i>4.1 to 6.1 ft bml</i>	<i>14.1 to 16.1 ft bml</i>	<i>24.1 to 26.1 ft bml</i>	<i>34.1 to 36.1 ft bml</i>	<i>34.1 to 36.1 ft bml</i>
<i>elev_MLLW</i>		<i>-82.1 to -84.1</i>	<i>-92.1 to -94.1</i>	<i>-34.5 to -36.5</i>	<i>-44.5 to -46.5</i>	<i>-54.5 to -56.5</i>	<i>-64.5 to -66.5</i>	<i>-64.5 to -66.5</i>
<i>elev_NGVD</i>		<i>-88.4 to -90.4</i>	<i>-98.4 to -100.4</i>	<i>-40.8 to -42.8</i>	<i>-50.8 to -52.8</i>	<i>-60.8 to -62.8</i>	<i>-70.8 to -72.8</i>	<i>-70.8 to -72.8</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						<i>(Duplicate)</i>
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.4 U	1.4 U	1.6 U	1.6 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.55 U	0.52 U	0.61 U	0.60 U	0.63 U	0.64 U
1,1-Dichloroethene	µg/kg	1.13	3.3 J	0.86 U	1.0 U	0.99 U	1.0 U	1.1 U
Carbon tetrachloride	µg/kg	1.93	0.91 U	0.87 U	1.0 U	1.0 U	1.1 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.6 U	1.6 U	1.8 U	1.8 U	1.9 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	670	1.2 U	1.4 U	1.3 U	1.4 U	97
Methylene chloride	µg/kg	475	5.2 U	5.0 UJ	13	5.8 U	6.0 U	6.1 U
Tetrachloroethene	µg/kg	4.88	0.61 U	0.59 U	0.69 U	0.68 U	0.71 U	0.72 U
trans-1,2-Dichloroethene	µg/kg	3247	13	1.5 U	1.7 U	1.7 U	1.8 U	3.8 J
Trichloroethene	µg/kg	30.8	0.81 U	0.78 U	0.91 U	0.89 U	0.94 U	0.95 U
Vinyl chloride	µg/kg	0.73	72.1	1.8 U	2.1 U	2.1 U	2.2 U	330
								180
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>
<i>Sample ID:</i>		SE-011206-PIER25-24-006	SE-011206-PIER25-24-007	SE-011306-PIER25-24-008	SE-011306-PIER25-24-009	SE-011306-PIER25-24-010	SE-011306-PIER25-24-011	SE-011306-PIER25-24-012
<i>Sample Date:</i>		1/12/2006	1/12/2006	1/13/2006	1/13/2006	1/13/2006	1/13/2006	1/13/2006
<i>Sample Depth:</i>		44.1 to 46.1 ft bml	54.1 to 56.1 ft bml	64.1 to 66.1 ft bml	74.1 to 76.1 ft bml	84.1 to 86.1 ft bml	94.1 to 96.1 ft bml	104.1 to 106.1 ft bml
<i>elev_MLLW</i>		-74.5 to -76.5	-84.5 to -86.5	-94.5 to -96.5	-104.5 to -106.5	-114.5 to -116.5	-124.5 to -126.5	-134.5 to -136.5
<i>elev_NGVD</i>		-80.8 to -82.8	-90.8 to -92.8	-100.8 to -102.8	-110.8 to -112.8	-120.8 to -122.8	-130.8 to -132.8	-140.8 to -142.8
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 UJ	1.6 U	1.6 U	1.7 U	1.4 U	1.4 U
1,1,2-Trichloroethane	µg/kg	15.2	0.63 U	0.60 U	0.61 U	0.66 U	0.54 U	0.52 U
1,1-Dichloroethene	µg/kg	1.13	54 J	97	1.0 U	1.1 U	0.89 U	0.88 U
Carbon tetrachloride	µg/kg	1.93	1.1 UJ	1.0 U	1.0 U	1.1 U	0.90 U	0.87 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 J	1.8 U	1.8 U	2.0 U	1.6 U	1.6 U
cis-1,2-Dichloroethene	µg/kg	NV	8400	12000	9.9 J	26 J	2.3 J	1.4 J
Methylene chloride	µg/kg	475	9.8	5.7 U	5.8 U	6.3 U	5.2 U	5.0 U
Tetrachloroethene	µg/kg	4.88	0.71 U	0.67 U	0.69 U	0.74 U	0.61 U	0.59 U
trans-1,2-Dichloroethene	µg/kg	3247	90 J	620	5.8 J	1.9 J	1.5 U	1.5 U
Trichloroethene	µg/kg	30.8	0.93 U	0.89 U	0.90 U	0.98 U	0.80 U	0.77 U
Vinyl chloride	µg/kg	0.73	5100 J	2400 J	410	49 J	3.2 J	1.8 U
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-24</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	
<i>Sample ID:</i>		<i>SE-011306-PIER25-24-013</i>	<i>SE-012006-PIER25-25-002</i>	<i>SE-012006-PIER25-25-003</i>	<i>SE-012006-PIER25-25-004</i>	<i>SE-012006-PIER25-25-005</i>	<i>SE-012006-PIER25-25-006</i>	<i>SE-012006-PIER25-25-007</i>	
<i>Sample Date:</i>		<i>1/13/2006</i>	<i>1/20/2006</i>	<i>1/20/2006</i>	<i>1/20/2006</i>	<i>1/20/2006</i>	<i>1/20/2006</i>	<i>1/20/2006</i>	
<i>Sample Depth:</i>		<i>114.1 to 116.1 ft bml</i>	<i>10 to 12 ft bml</i>	<i>20 to 22 ft bml</i>	<i>30 to 32 ft bml</i>	<i>40 to 42 ft bml</i>	<i>50 to 53 ft bml</i>	<i>60 to 63 ft bml</i>	
<i>elev_MLLW</i>		<i>-144.5 to -146.5</i>	<i>-43.6 to -45.6</i>	<i>-53.6 to -55.6</i>	<i>-63.6 to -65.6</i>	<i>-73.6 to -75.6</i>	<i>-83.6 to -86.6</i>	<i>-93.6 to -96.6</i>	
<i>elev_NGVD</i>		<i>-150.8 to -152.8</i>	<i>-49.9 to -51.9</i>	<i>-59.9 to -61.9</i>	<i>-69.9 to -71.9</i>	<i>-79.9 to -81.9</i>	<i>-89.9 to -92.9</i>	<i>-99.9 to -102.9</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.4 UJ	3.34 U	3.04 U	3.32 U	31.5 U	30.1 U	29.2 U
1,1,2-Trichloroethane	µg/kg	15.2	0.56 U	9.16 U	8.33 U	9.1 U	86.3 U	82.4 U	80.1 U
1,1-Dichloroethene	µg/kg	1.13	0.92 U	2.19 U	1.99 U	338	61.6 J	374	44.1 J
Carbon tetrachloride	µg/kg	1.93	0.93 U	2.35 U	2.13 U	2.33 U	22.1 U	21.1 U	20.5 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 J	2.08 U	1.89 U	2.07 U	19.6 U	18.7 U	18.2 U
cis-1,2-Dichloroethene	µg/kg	NV	1.2 J	2.11 U	60.1	35900	5510	27700	5370
Methylene chloride	µg/kg	475	12 J	3.21 U	2.92 U	3.19 U	30.3 U	28.9 U	28.1 U
Tetrachloroethene	µg/kg	4.88	0.63 UJ	2.26 U	2.06 U	2.25 U	21.3 U	20.4 U	50.1 J
trans-1,2-Dichloroethene	µg/kg	3247	1.6 U	2.37 U	8.05 J	375	193	688	287
Trichloroethene	µg/kg	30.8	0.82 U	2.22 U	2.02 U	2.21 U	21 U	3260	32.9 J
Vinyl chloride	µg/kg	0.73	2.0 U	24.4	1140	11500	20300	9050	12800
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-26</i>	<i>Pier25-26</i>	<i>Pier25-26</i>	<i>Pier25-26</i>
<i>Sample ID:</i>		<i>SE-012006-PIER25-25-008</i>	<i>SE-012006-PIER25-25-009</i>	<i>SE-012006-PIER25-25-010</i>	<i>SE-012306-PIER25-26-002</i>	<i>SE-012306-PIER25-26-003</i>	<i>SE-012306-PIER25-26-004</i>	<i>SE-012306-PIER25-26-005</i>
<i>Sample Date:</i>		<i>1/20/2006</i>	<i>1/20/2006</i>	<i>1/20/2006</i>	<i>1/23/2006</i>	<i>1/23/2006</i>	<i>1/23/2006</i>	<i>1/23/2006</i>
<i>Sample Depth:</i>		<i>70 to 72 ft bml</i>	<i>80 to 82 ft bml</i>	<i>90 to 92 ft bml</i>	<i>11.5 to 13.5 ft bml</i>	<i>21.5 to 23.5 ft bml</i>	<i>31.5 to 33.5 ft bml</i>	<i>41.5 to 43.5 ft bml</i>
<i>elev_MLLW</i>		<i>-103.6 to -105.6</i>	<i>-113.6 to -115.6</i>	<i>-123.6 to -125.6</i>	<i>-19.2 to -21.2</i>	<i>-29.2 to -31.2</i>	<i>-39.2 to -41.2</i>	<i>-49.2 to -51.2</i>
<i>elev_NGVD</i>		<i>-109.9 to -111.9</i>	<i>-119.9 to -121.9</i>	<i>-129.9 to -131.9</i>	<i>-25.5 to -27.5</i>	<i>-35.5 to -37.5</i>	<i>-45.5 to -47.5</i>	<i>-55.5 to -57.5</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	33.2 U	2.72 U	2.32 U	1.5 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	91 U	7.45 U	6.37 U	0.59 U	0.64 U	0.63 U
1,1-Dichloroethene	µg/kg	1.13	21.7 U	1.78 U	1.52 U	0.97 U	1.1 U	1.0 U
Carbon tetrachloride	µg/kg	1.93	23.3 U	1.91 U	1.63 U	0.99 U	1.1 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	20.7 U	1.69 U	1.45 U	1.8 U	1.9 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	1250	28.3	31.3	1.3 U	1.4 U	1.4 U
Methylene chloride	µg/kg	475	31.9 U	2.61 U	2.23 U	5.7 UJ	6.1 UJ	6.0 UJ
Tetrachloroethene	µg/kg	4.88	49.1 J	1.84 U	1.58 U	0.67 U	0.72 U	0.71 U
trans-1,2-Dichloroethene	µg/kg	3247	418	6.17 J	1.65 U	1.7 U	1.8 U	1.8 U
Trichloroethene	µg/kg	30.8	152	1.81 U	1.55 U	0.88 U	0.95 U	0.94 U
Vinyl chloride	µg/kg	0.73	10600	86.6	22.1	2.1 U	2.2 U	2.2 U
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-26</i>	<i>Pier25-26</i>	<i>Pier25-26</i>	<i>Pier25-26</i>	<i>Pier25-26</i>	<i>Pier25-28</i>	<i>Pier25-28</i>	
<i>Sample ID:</i>		<i>SE-012306-PIER25-26-006</i>	<i>SE-012306-PIER25-26-007</i>	<i>SE-012406-PIER25-26-008</i>	<i>SE-012406-PIER25-26-009</i>	<i>SE-012406-PIER25-26-010</i>	<i>SE-012406-PIER25-28-002</i>	<i>SE-012406-PIER25-28-003</i>	
<i>Sample Date:</i>		<i>1/23/2006</i>	<i>1/23/2006</i>	<i>1/24/2006</i>	<i>1/24/2006</i>	<i>1/24/2006</i>	<i>1/24/2006</i>	<i>1/24/2006</i>	
<i>Sample Depth:</i>		<i>51.5 to 53.5 ft bml</i>	<i>61.5 to 63.5 ft bml</i>	<i>71.5 to 73.5 ft bml</i>	<i>81.5 to 83.5 ft bml</i>	<i>91.5 to 93.5 ft bml</i>	<i>10 to 12 ft bml</i>	<i>20 to 22 ft bml</i>	
<i>elev_MLLW</i>		<i>-59.2 to -61.2</i>	<i>-69.2 to -71.2</i>	<i>-79.2 to -81.2</i>	<i>-89.2 to -91.2</i>	<i>-99.2 to -101.2</i>	<i>-17.1 to -19.1</i>	<i>-27.1 to -29.1</i>	
<i>elev_NGVD</i>		<i>-65.5 to -67.5</i>	<i>-75.5 to -77.5</i>	<i>-85.5 to -87.5</i>	<i>-95.5 to -97.5</i>	<i>-105.5 to -107.5</i>	<i>-23.4 to -25.4</i>	<i>-33.4 to -35.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.5 U	1.6 U	1.7 U	1.4 U	2.9 U	2.93 U
1,1,2-Trichloroethane	µg/kg	15.2	0.64 U	0.59 U	0.64 U	0.65 U	0.56 U	7.96 U	8.04 U
1,1-Dichloroethene	µg/kg	1.13	8.2 J	2.6 J	1.1 U	1.1 U	0.92 U	1.9 U	33
Carbon tetrachloride	µg/kg	1.93	1.1 U	0.99 U	1.1 U	1.1 U	0.93 U	2.04 U	2.06 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.81 U	1.83 U
cis-1,2-Dichloroethene	µg/kg	NV	650 J	130 J	23 J	1.4 U	4.7 J	1.83 U	2140
Methylene chloride	µg/kg	475	6.1 UJ	5.7 UJ	6.1 UJ	6.2 UJ	5.3 UJ	3.29 J	3.15 J
Tetrachloroethene	µg/kg	4.88	0.72 U	0.67 U	0.72 U	0.73 U	0.63 U	1.97 U	1.99 U
trans-1,2-Dichloroethene	µg/kg	3247	18 J	36 J	1.8 U	1.8 U	1.6 U	2.06 U	97.2
Trichloroethene	µg/kg	30.8	0.95 U	0.88 U	0.94 U	0.96 U	0.83 U	1.93 U	1.95 U
Vinyl chloride	µg/kg	0.73	1000	1600	960	2.3 U	83 J	81.4	2070
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-28</i>	<i>Pier25-28</i>	<i>Pier25-28</i>	<i>Pier25-28</i>	<i>Pier25-29</i>	<i>Pier25-29</i>	<i>Pier25-29</i>		
<i>Sample ID:</i>	SE-012406-PIER25-28-004	SE-012406-PIER25-28-005	SE-012506-PIER25-28-006	SE-012506-PIER25-28-007	SE-020606-PIER25-29-003	SE-020606-PIER25-29-004	SE-020606-PIER25-29-005		
<i>Sample Date:</i>	1/24/2006	1/24/2006	1/25/2006	1/25/2006	2/6/2006	2/6/2006	2/6/2006		
<i>Sample Depth:</i>	30 to 32 ft bml	40 to 42 ft bml	50 to 52 ft bml	60 to 62 ft bml	12 to 14 ft bml	22 to 24 ft bml	32 to 34 ft bml		
<i>elev_MLLW</i>	-37.1 to -39.1	-47.1 to -49.1	-57.1 to -59.1	-67.1 to -69.1	-18.6 to -20.6	-28.6 to -30.6	-38.6 to -40.6		
<i>elev_NGVD</i>	-43.4 to -45.4	-53.4 to -55.4	-63.4 to -65.4	-73.4 to -75.4	-24.9 to -26.9	-34.9 to -36.9	-44.9 to -46.9		
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2.91 U	3.19 U	2.76 U	2.9 U	79 UJ	1.5 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	7.98 U	8.75 U	7.57 U	7.95 U	31 U	0.59 U	0.63 U
1,1-Dichloroethene	µg/kg	1.13	1.91 U	2.09 U	1.81 U	1.9 U	50 U	0.97 U	1.0 U
Carbon tetrachloride	µg/kg	1.93	2.05 U	2.24 U	1.94 U	2.04 U	51 U	0.98 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.81 U	1.99 U	1.72 U	1.81 U	91 U	1.8 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	23.7	2.01 U	2.14 U	1.74 U	68 U	1.3 U	1.4 U
Methylene chloride	µg/kg	475	2.8 U	3.07 U	3.38 J	2.99 J	290 U	5.6 U	6.0 U
Tetrachloroethene	µg/kg	4.88	1.97 U	2.16 U	1.87 U	1.97 U	34 U	0.66 U	0.71 U
trans-1,2-Dichloroethene	µg/kg	3247	2.07 U	2.27 U	1.96 U	2.06 U	86 U	1.6 U	1.8 U
Trichloroethene	µg/kg	30.8	1.94 U	2.12 U	1.84 U	1.93 U	45 U	0.87 U	0.94 U
Vinyl chloride	µg/kg	0.73	31.8	2.53 U	2.19 U	2.3 U	110 U	2.0 U	2.2 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	Pier25-29	Pier25-29	Pier25-29	Pier25-29	Pier25-29	Pier25-29	Pier25-30	
Sample ID:	SE-020606-PIER25-29-006	SE-020606-PIER25-29-007	SE-020706-PIER25-29-008	SE-020706-PIER25-29-009	SE-020706-PIER25-29-010	SE-020706-PIER25-29-011	SE-012606-PIER25-30-002	
Sample Date:	2/6/2006	2/6/2006	2/7/2006	2/7/2006	2/7/2006	2/7/2006	1/26/2006	
Sample Depth:	42 to 44 ft bml	52 to 54 ft bml	62 to 64 ft bml	72 to 74 ft bml	82 to 84 ft bml	92 to 94 ft bml	10 to 12 ft bml	
elev_MLLW	-48.6 to -50.6	-58.6 to -60.6	-68.6 to -70.6	-78.6 to -80.6	-88.6 to -90.6	-98.6 to -100.6	-17.8 to -19.8	
elev_NGVD	-54.9 to -56.9	-64.9 to -66.9	-74.9 to -76.9	-84.9 to -86.9	-94.9 to -96.9	-104.9 to -106.9	-24.1 to -26.1	
Parameters	Units	Cs						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 U	1.7 U	1.4 U	1.4 U	3.18 U
1,1,2-Trichloroethane	µg/kg	15.2	0.61 U	0.63 U	0.66 U	0.54 U	0.54 U	8.72 U
1,1-Dichloroethene	µg/kg	1.13	1.0 U	1.0 U	1.1 U	0.89 U	0.89 U	2.08 U
Carbon tetrachloride	µg/kg	1.93	1.0 U	1.1 U	1.1 U	0.90 U	0.90 U	2.23 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.9 U	2.0 U	1.6 U	1.6 U	1.98 U
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	1.4 U	1.5 U	1.2 U	1.2 U	2.01 U
Methylene chloride	µg/kg	475	5.8 U	6.0 U	6.3 U	5.2 U	5.1 U	3.06 U
Tetrachloroethene	µg/kg	4.88	0.68 U	0.71 U	0.74 U	0.61 U	0.60 U	2.16 U
trans-1,2-Dichloroethene	µg/kg	3247	1.7 U	1.8 U	1.9 U	1.5 U	1.5 U	2.26 U
Trichloroethene	µg/kg	30.8	0.90 U	0.93 U	0.98 U	0.80 U	0.79 U	2.12 U
Vinyl chloride	µg/kg	0.73	2.1 U	2.2 U	2.3 U	1.9 U	1.9 U	2.52 U
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
Metals~Total								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
PCBs								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
Pesticides								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	Pier25-30	Pier25-30	Pier25-30	Pier25-30	Pier25-30	Pier25-30	Pier25-30	Pier25-32	
Sample ID:	SE-012706-PIER25-30-003	SE-012706-PIER25-30-004	SE-012706-PIER25-30-005	SE-012706-PIER25-30-007	SE-012706-PIER25-30-008	SE-012706-PIER25-30-009	SE-040406-PIER25-32-002		
Sample Date:	1/27/2006	1/27/2006	1/27/2006	1/27/2006	1/27/2006	1/27/2006	4/4/2006		
Sample Depth:	20 to 22 ft bml	30 to 32 ft bml	40 to 42 ft bml	60 to 62 ft bml	70 to 72 ft bml	90 to 92 ft bml	9 to 11 ft bgs		
elev_MLLW	-27.8 to -29.8	-37.8 to -39.8	-47.8 to -49.8	-67.8 to -69.8	-77.8 to -79.8	-97.8 to -99.8	6 to 4		
elev_NGVD	-34.1 to -36.1	-44.1 to -46.1	-54.1 to -56.1	-74.1 to -76.1	-84.1 to -86.1	-104.1 to -106.1	-0.3 to -2.3		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3 U	2.94 U	2.85 U	2.95 U	3.21 U	2.38 U	1.5 U
1,1,2-Trichloroethane	µg/kg	15.2	8.23 U	8.07 U	7.81 U	8.1 U	8.81 U	6.54 U	0.58 U
1,1-Dichloroethene	µg/kg	1.13	1.97 U	1.93 U	1.86 U	39.2	2.1 U	1.56 U	0.96 U
Carbon tetrachloride	µg/kg	1.93	2.11 U	2.07 U	2 U	2.07 U	2.26 U	1.67 U	0.97 U
Chloroform (Trichloromethane)	µg/kg	160	1.87 U	1.83 U	1.77 U	1.84 U	2 U	1.48 U	1.7 U
cis-1,2-Dichloroethene	µg/kg	NV	20.8	1.85 U	212	6460	3.57 J	1.5 U	1.3 U
Methylene chloride	µg/kg	475	2.89 U	2.83 U	2.74 U	2.84 U	3.09 U	2.29 U	5.6 U
Tetrachloroethene	µg/kg	4.88	2.04 U	1.99 U	1.93 U	2 U	2.18 U	1.62 U	0.66 U
trans-1,2-Dichloroethene	µg/kg	3247	22.2	2.09 U	2.02 U	85.4	2.28 U	1.69 U	1.6 U
Trichloroethene	µg/kg	30.8	2 U	1.96 U	1.9 U	1.97 U	2.14 U	1.59 U	0.86 U
Vinyl chloride	µg/kg	0.73	610	19.7	1180	4060	2.54 U	1.89 U	4.1 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Pier25-32</i>		<i>Pier25-32</i>		<i>Pier25-32</i>		<i>Pier25-32</i>		<i>Pier25-32</i>		<i>Pier25-32</i>			
<i>Sample ID:</i>			SE-040406-PIER25-32-003		SE-040406-PIER25-32-004		SE-040506-PIER25-32-005		SE-040606-PIER25-32-006		SE-040606-PIER25-32-007		SE-040606-PIER25-32-008		SE-040606-PIER25-32-009	
<i>Sample Date:</i>			4/4/2006		4/4/2006		4/5/2006		4/6/2006		4/6/2006		4/6/2006		4/6/2006	
<i>Sample Depth:</i>			20 to 22 ft bgs		32 to 34 ft bgs		44 to 46 ft bgs		56 to 58 ft bgs		56 to 58 ft bgs		68 to 70 ft bgs		80 to 82 ft bgs	
<i>elev_MLLW</i>			-5 to -7		-17 to -19		-29 to -31		-41 to -43		-41 to -43		-53 to -55		-65 to -67	
<i>elev_NGVD</i>			-11.3 to -13.3		-23.3 to -25.3		-35.3 to -37.3		-47.3 to -49.3		-47.3 to -49.3 (Duplicate)		-59.3 to -61.3		-71.3 to -73.3	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>														
<i>Volatile Organic Compounds</i>																
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 U	1.5 U	1.5 U	1.5 U	1.5 U	1.6 U	6.9 U						
1,1,2-Trichloroethane	µg/kg	15.2	0.64 U	0.66 U	0.60 U	0.59 U	0.58 U	0.62 U	6.3 U							
1,1-Dichloroethene	µg/kg	1.13	1.1 U	1.1 U	0.99 U	0.98 U	1.0 U	0.96 U	5.9 U							
Carbon tetrachloride	µg/kg	1.93	1.1 U	1.1 U	1.0 U	0.99 U	0.97 U	1.0 UJ	3.5 U							
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	2.0 U	1.8 U	1.8 U	1.7 U	1.9 U	3.0 U							
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	1.5 U	1.3 U	1.3 U	1.3 U	1.4 UJ	4.5 U							
Methylene chloride	µg/kg	475	6.1 U	12	11	5.7 U	5.5 U	5.9 U	3.5 J							
Tetrachloroethene	µg/kg	4.88	0.72 U	0.74 U	0.68 U	0.67 U	0.65 U	0.70 U	4.9 U							
trans-1,2-Dichloroethene	µg/kg	3247	1.8 U	1.8 U	1.7 U	1.7 U	1.6 U	1.7 UJ	3.8 U							
Trichloroethene	µg/kg	30.8	0.95 U	0.97 U	0.89 U	0.88 U	0.86 U	0.92 UJ	4.5 U							
Vinyl chloride	µg/kg	0.73	4.5 U	4.6 U	4.3 U	4.2 U	4.1 U	4.4 U	5.5 U							
<i>Semi-volatile Organic Compounds</i>																
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-							
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-							
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-							
<i>Metals~Total</i>																
Arsenic	µg/kg	146	-	-	-	-	-	-	-							
Chromium	µg/kg	714	-	-	-	-	-	-	-							
Copper	µg/kg	53.5	-	-	-	-	-	-	-							
Lead	µg/kg	81002	-	-	-	-	-	-	-							
Mercury	µg/kg	1.31	-	-	-	-	-	-	-							
Nickel	µg/kg	535	-	-	-	-	-	-	-							
Thallium	µg/kg	34	-	-	-	-	-	-	-							
Zinc	µg/kg	5045	-	-	-	-	-	-	-							
<i>PCBs</i>																
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-							
<i>Pesticides</i>																
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-							
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-							
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-							

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	Pier25-32	PS-1	PS-2	PT-1	PT-1	PT-1	PT-1	PT-1	PT-2
Sample ID:	SE-040706-PIER25-32-010	J-013	J-014	S-072303-VSP-PT1-008	S-072303-VSP-PT1-009	S-072303-VSP-PT1-010	S-072303-VSP-PT1-011	S-072303-VSP-PT1-012	S-072303-VSP-PT2-007
Sample Date:	4/7/2006	9/21/1989	9/21/1989	7/23/2003	7/23/2003	7/23/2003	7/23/2003	7/23/2003	7/23/2003
Sample Depth:	90 to 92 ft bgs	9 ft BGS	9 ft BGS	7 to 8 ft bml	8 to 9 ft bml	9 to 10 ft bml	10 to 11 ft bml	11 to 12 ft bml	7 to 8 ft bml
elev_MLLW	-75 to -77			-48.79 to -49.79	-49.79 to -50.79	-50.79 to -51.79	-51.79 to -52.79	-52.79 to -53.79	-48.15 to -49.15
elev_NGVD	-81.3 to -83.3			-55.1 to -56.1	-56.1 to -57.1	-57.1 to -58.1	-58.1 to -59.1	-59.1 to -60.1	-54.5 to -55.5
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	7.2 U	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	15.2	6.6 U	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1.13	6.1 U	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	1.93	3.6 U	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	160	3.1 U	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	NV	4.7 U	-	-	-	-	-	-
Methylene chloride	µg/kg	475	3.4 J	-	-	-	-	-	-
Tetrachloroethene	µg/kg	4.88	5.2 U	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/kg	3247	4.0 U	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	4.7 U	-	-	-	-	-	-
Vinyl chloride	µg/kg	0.73	5.8 U	-	-	-	-	-	-
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	5.15 U	5.26 U	5.02 U	4.87 U	5.24 U
Hexachlorobutadiene	µg/kg	0.702	-	-	4.98	2.63 U	2.51 U	2.44 U	2.62 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	2100 J	10700 J	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:			PT-2	PT-2	PT-2	PT-3	PT-3	PT-3	PT-4	PT-4
Sample ID:		S-072303-VSP-PT2-010	S-072303-VSP-PT2-008	S-072303-VSP-PT2-009	S-072503-VSP-PT3-008	S-072503-VSP-PT3-009	S-072503-VSP-PT3-010	S-072203-VSP-PT4-011	S-072203-VSP-PT4-012	
Sample Date:		7/23/2003	7/23/2003	7/23/2003	7/25/2003	7/25/2003	7/25/2003	7/22/2003	7/22/2003	
Sample Depth:		7 to 8 ft bml	8 to 9 ft bml	9 to 10 ft bml	7 to 8 ft bml	8 to 9 ft bml	9 to 10 ft bml	11 to 12 ft bml	12 to 13 ft bml	
elev_MLLW		-48.15 to -49.15	-49.15 to -50.15	-50.15 to -51.15	-48.45 to -49.45	-49.45 to -50.45	-50.45 to -51.45	-52.35 to -53.35	-53.35 to -54.35	
elev_NGVD		-54.5 to -55.5	-55.5 to -56.5	-56.5 to -57.5	-54.8 to -55.8	-55.8 to -56.8	-56.8 to -57.8	-58.7 to -59.7	-59.7 to -60.7	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg	475	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/kg	4.88	-	194 U	199 U	2.09 U	1.74 J	1.98 U	1760	1160
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	-	986	271	2.09 U	3.83	1.98 U	1300	1670
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	4.59 U	9.8	5.09 U	4.31 U	8.15	5.07 U	175	5.77
Hexachlorobutadiene	µg/kg	0.702	2.3 U	122	2.54 U	23.2	98.8	2.54 U	3140	122
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		PT-4	PT-4	PT-5	PT-5	PT-5	PT-5	PT-5	PT-5
Sample ID:		S-072203-VSP-PT4-013	S-072203-VSP-PT4-014	S-072503-VSP-PTS-002	S-072503-VSP-PTS-004	S-072503-VSP-PTS-003	S-072503-VSP-PTS-005	S-072503-VSP-PTS-006	S-072503-VSP-PTS-007
Sample Date:		7/22/2003	7/22/2003	7/25/2003	7/25/2003	7/25/2003	7/25/2003	7/25/2003	7/25/2003
Sample Depth:		13 to 14 ft bml	14 to 15 ft bml	3 to 4 ft bml	4 to 5 ft bml	5 to 6 ft bml	5 to 6 ft bml	6 to 7 ft bml	7 to 8 ft bml
elev_MLLW		-54.35 to -55.35	-55.35 to -56.35	-41.46 to -42.46	-42.46 to -43.46	-43.46 to -44.46	-43.46 to -44.46	-44.46 to -45.46	-45.46 to -46.46
elev_NGVD		-60.7 to -61.7	-61.7 to -62.7	-47.8 to -48.8	-48.8 to -49.8	-49.8 to -50.8	-49.8 to -50.8 (Duplicate)	-50.8 to -51.8	-51.8 to -52.8
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-
Methylene chloride	µg/kg	475	-	-	-	-	-	-	-
Tetrachloroethene	µg/kg	4.88	2940	520 J	11.9	6720	602	432	1.76 J
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	1.8 J
Trichloroethene	µg/kg	30.8	3340	312 J	42.3	18000	216 U	195 U	2.05 J
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-	1.25 J
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	122	35.8 J	9.06	5.74	4.78 U	4.91 U	5.39 U
Hexachlorobutadiene	µg/kg	0.702	2190	576	46.2	219	70.4	74.5	18.9
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	23.3
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		PT-5	PT-5	PT-6	PT-6	PT-6	PT-6	PT-6	PT-6
Sample ID:		S-072503-VSP-PT5-008	S-072503-VSP-PT5-009	S-072503-VSP-PT6-004	S-072503-VSP-PT6-005	S-072503-VSP-PT6-006	S-072503-VSP-PT6-007	S-072503-VSP-PT6-008	S-072503-VSP-PT6-009
Sample Date:		7/25/2003	7/25/2003	7/25/2003	7/25/2003	7/25/2003	7/25/2003	7/25/2003	7/25/2003
Sample Depth:		8 to 9 ft bml	9 to 10 ft bml	3 to 4 ft bml	4 to 5 ft bml	5 to 6 ft bml	6 to 7 ft bml	7 to 8 ft bml	8 to 9 ft bml
elev_MLLW		-46.46 to -47.46	-47.46 to -48.46	-44.29 to -45.29	-45.29 to -46.29	-46.29 to -47.29	-47.29 to -48.29	-48.29 to -49.29	-49.29 to -50.29
elev_NGVD		-52.8 to -53.8	-53.8 to -54.8	-50.6 to -51.6	-51.6 to -52.6	-52.6 to -53.6	-53.6 to -54.6	-54.6 to -55.6	-55.6 to -56.6
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-
Methylene chloride	µg/kg	475	-	-	-	-	-	-	-
Tetrachloroethene	µg/kg	4.88	38.1	3.13	1180	133 J	102 U	96.8 J	275 J
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	110 UJ
Trichloroethene	µg/kg	30.8	183	4.26	1360	101 J	102 U	65.7 J	224 UJ
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-	-
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	4.56 U	5.21 U	84	3.77 J	4.95 U	4.57 U	5.27 U
Hexachlorobutadiene	µg/kg	0.702	57.2	1050	600	24.9	2.48 U	19.4	4.24
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	3.62
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PT-6	PT-7	PT-7	PT-7	PT-7	PT-7	PT-7	PT-7
Sample ID:	S-072503-VSP-PT6-010	S-072403-VSP-PT7-004	S-072403-VSP-PT7-005	S-072403-VSP-PT7-006	S-072403-VSP-PT7-007	S-072403-VSP-PT7-008	S-072403-VSP-PT7-009	S-072403-VSP-PT7-010
Sample Date:	7/25/2003	7/24/2003	7/24/2003	7/24/2003	7/24/2003	7/24/2003	7/24/2003	7/24/2003
Sample Depth:	9 to 10 ft bml	3 to 4 ft bml	4 to 5 ft bml	5 to 6 ft bml	6 to 7 ft bml	7 to 8 ft bml	8 to 9 ft bml	9 to 10 ft bml
elev_MLLW	-50.29 to -51.29	-46.78 to -47.78	-47.78 to -48.78	-48.78 to -49.78	-49.78 to -50.78	-50.78 to -51.78	-51.78 to -52.78	-52.78 to -53.78
elev_NGVD	-56.6 to -57.6	-53.1 to -54.1	-54.1 to -55.1	-55.1 to -56.1	-56.1 to -57.1	-57.1 to -58.1	-58.1 to -59.1	-59.1 to -60.1
Parameters	Units	Cs						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-
Methylene chloride	µg/kg	475	-	-	-	-	-	-
Tetrachloroethene	µg/kg	4.88	239 J	27300 J	67100	1760 J	79200	6380 J
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	197 UJ	8920 J	18000	942 J	30200	3300 J
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	0.062	4.37 U	12.9	1190	18	-	30.8
Hexachlorobutadiene	µg/kg	0.702	2.04	118	22400	93.9	-	226
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	649
Metals~Total								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
PCBs								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
Pesticides								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:			PT-8	PT-8	PT-8	PT-8	PT-8	PT-8	PT-9	PT-9
Sample ID:		S-072303-VSP-PT8-004	S-072303-VSP-PT8-005	S-072303-VSP-PT8-006	S-072303-VSP-PT8-007	S-072303-VSP-PT8-008	S-072303-VSP-PT8-009	S-072303-VSP-PT9-004	S-072303-VSP-PT9-005	
Sample Date:		7/23/2003	7/23/2003	7/23/2003	7/23/2003	7/23/2003	7/23/2003	7/23/2003	7/23/2003	
Sample Depth:		3 to 4 ft bml	4 to 5 ft bml	6 to 7 ft bml	7 to 8 ft bml	8 to 9 ft bml	9 to 10 ft bml	3 to 4 ft bml	4 to 5 ft bml	
elev_MLLW		-42.35 to -43.35	-43.35 to -44.35	-45.35 to -46.35	-46.35 to -47.35	-47.35 to -48.35	-48.35 to -49.35	-42.15 to -43.15	-43.15 to -44.15	
elev_NGVD		-48.7 to -49.7	-49.7 to -50.7	-51.7 to -52.7	-52.7 to -53.7	-53.7 to -54.7	-54.7 to -55.7	-48.5 to -49.5	-49.5 to -50.5	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg	475	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/kg	4.88	2480 J	953	3820 J	5820 J	2820 J	446 J	3970 J	5540 J
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	6210 J	1150	2750 J	6740 J	4810 J	3350 J	2210 J	3310 J
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	5.07 U	559	321	266	248	116	29.3	217
Hexachlorobutadiene	µg/kg	0.702	2.53 U	1660	1210	821	861	338	93.7	509
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PT-9</i>	<i>PT-9</i>	<i>PT-9</i>	<i>PT-9</i>	<i>PT-9</i>	<i>PT-10</i>	<i>PT-10</i>	<i>PT-10</i>	<i>PT-10</i>
<i>Sample ID:</i>		<i>S-072303-VSP-PT9-006</i>	<i>S-072303-VSP-PT9-007</i>	<i>S-072303-VSP-PT9-008</i>	<i>S-072303-VSP-PT9-009</i>	<i>S-072303-VSP-PT9-010</i>	<i>SE-PT10-6.5-7.5</i>	<i>SE-PT10-10-11</i>	<i>SE-PT10-14.5-15.5</i>	<i>SE-PT10-19-20</i>
<i>Sample Date:</i>		<i>7/23/2003</i>	<i>7/23/2003</i>	<i>7/23/2003</i>	<i>7/23/2003</i>	<i>7/23/2003</i>	<i>6/14/2004</i>	<i>6/14/2004</i>	<i>6/14/2004</i>	<i>6/14/2004</i>
<i>Sample Depth:</i>		<i>5 to 6 ft bml</i>	<i>6 to 7 ft bml</i>	<i>7 to 8 ft bml</i>	<i>8 to 9 ft bml</i>	<i>9 to 10 ft bml</i>	<i>6.5 to 7.5 ft bml</i>	<i>10 to 11 ft bml</i>	<i>14.5 to 15.5 ft bml</i>	<i>19 to 20 ft bml</i>
<i>elev_MLLW</i>		<i>-44.15 to -45.15</i>	<i>-45.15 to -46.15</i>	<i>-46.15 to -47.15</i>	<i>-47.15 to -48.15</i>	<i>-48.15 to -49.15</i>	<i>-19.64 to -20.64</i>	<i>-23.14 to -24.14</i>	<i>-27.64 to -28.64</i>	<i>-32.14 to -33.14</i>
<i>elev_NGVD</i>		<i>-50.5 to -51.5</i>	<i>-51.5 to -52.5</i>	<i>-52.5 to -53.5</i>	<i>-53.5 to -54.5</i>	<i>-54.5 to -55.5</i>	<i>-26 to -27</i>	<i>-29.5 to -30.5</i>	<i>-34 to -35</i>	<i>-38.5 to -39.5</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg	475	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/kg	4.88	6500 J	8320 J	2320 J	119	11.3 J	3.6 U	3.6 U	3.6 U
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	3410 J	3620 J	2510 J	114	7.13 J	9.4	4.1 J	4.0 J
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-	-	-
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	29.9	209	6.21	36.6	7.79	79.8 U / 79.8 U	79.8 U	79.6 U
Hexachlorobutadiene	µg/kg	0.702	147	257	14.1	107	23 J	68.4 U	68.4 U	68.2 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	PT-10	PT-10	PT-10	PT-10	PT-10	PT-10	PT-10	PT-10	PT-11	PT-11	PT-11	PT-11
Sample ID:	SE-PT10-24-26	SE-PT10-FD-2	SE-PT10-29-30	SE-PT10-35-37	SE-PT10-40.5-41.5	SE-PT10-44-45	SE-PT10-48.5-49.5	SE-PT11-4-5	SE-PT11-9-10	SE-PT11-15-16	SE-PT11-19-20	
Sample Date:	6/14/2004	6/14/2004	6/14/2004	6/14/2004	6/15/2004	6/15/2004	6/15/2004	6/14/2004	6/14/2004	6/14/2004	6/14/2004	
Sample Depth:	24 to 26 ft bml	24 to 26 ft bml	29 to 30 ft bml	35 to 37 ft bml	40.5 to 41.5 ft bml	44 to 45 ft bml	48.5 to 49.5 ft bml	4 to 5 ft bml	9 to 10 ft bml	15 to 16 ft bml	19 to 20 ft bml	
elev_MLLW	-37.14 to -39.14	-37.14 to -39.14	-42.14 to -43.14	-48.14 to -50.14	-53.64 to -54.64	-57.14 to -58.14	-61.64 to -62.64	-14.14 to -15.14	-19.14 to -20.14	-25.14 to -26.14	-29.14 to -30.14	
elev_NGVD	-43.5 to -45.5	-43.5 to -45.5	-48.5 to -49.5	-54.5 to -56.5	-60 to -61	-63.5 to -64.5	-68 to -69	-20.5 to -21.5	-25.5 to -26.5	-31.5 to -32.5	-35.5 to -36.5	
		(Duplicate)										
Parameters	Units	Cs										
Volatile Organic Compounds												
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg	475	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/kg	4.88	3.6 U	8.8	3.4 U	3.4 U	3.5 U	3.6 U	9.4	25 J	3.4 U	3.4 U
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	4.8 U	7.0	4.4 U	4.6 U	4.6 U	4.7 U	970 J	340 J	4.6 U	4.6 U
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds												
Hexachlorobenzene	µg/kg	0.062	80.9 U	79.4 U	75.8 U	78.2 U	78.6 U	80.1 U	80.2 U	78.9 U	77.6 U	77.4 U
Hexachlorobutadiene	µg/kg	0.702	69.4 U	68.1 U	64.9 U	67.1 U	67.4 U	68.7 U	68.8 U	67.7 U	66.5 U	66.4 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	-
Metals~Total												
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-
PCBs												
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PT-11	PT-11	PT-11	PT-11	PT-11	PT-11	PT-12	PT-12	PT-12	PT-12	PT-12		
Sample ID:	SE-PT11-27-28	SE-PT11-30-31	SE-PT11-34-35	SE-PT11-39-40	SE-PT11-45-46	SE-PT11-49-50	SE-PT12-4-5	SE-PT12-9.5-10.5	SE-PT12-14.5-15.5	SE-PT12-19-20	SE-PT12-24.5-25.5		
Sample Date:	6/14/2004	6/14/2004	6/14/2004	6/14/2004	6/14/2004	6/14/2004	6/10/2004	6/10/2004	6/10/2004	6/10/2004	6/10/2004		
Sample Depth:	27 to 28 ft bml	30 to 31 ft bml	34 to 35 ft bml	39 to 40 ft bml	45 to 46 ft bml	49 to 50 ft bml	4 to 5 ft bml	9.5 to 10.5 ft bml	14.5 to 15.5 ft bml	19 to 20 ft bml	24.5 to 25.5 ft bml		
elev_MLLW	-37.14 to -38.14	-40.14 to -41.14	-44.14 to -45.14	-49.14 to -50.14	-55.14 to -56.14	-59.14 to -60.14	-36.94 to -37.94	-42.44 to -43.44	-47.44 to -48.44	-51.94 to -52.94	-57.44 to -58.44		
elev_NGVD	-43.5 to -44.5	-46.5 to -47.5	-50.5 to -51.5	-55.5 to -56.5	-61.5 to -62.5	-65.5 to -66.5	-43.3 to -44.3	-48.8 to -49.8	-53.8 to -54.8	-58.3 to -59.3	-63.8 to -64.8		
Parameters	Units	Cs											
Volatile Organic Compounds													
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-	-	-	-		
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-	-	-	-		
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-	-	-	-		
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-	-	-	-		
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-	-	-	-		
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-	-		
Methylene chloride	µg/kg	475	-	-	-	-	-	-	-	-	-		
Tetrachloroethene	µg/kg	4.88	3.5 U	3.6 U	3.3 J	3.5 U	14000	39	38	26	200	1600	8700
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-	-	-	
Trichloroethene	µg/kg	30.8	6.1 J	12	15	19	30000 J	190	54	190	70	7500	3800
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-	-	-	-	-	
Semi-volatile Organic Compounds													
Hexachlorobenzene	µg/kg	0.062	78.3 U	79.6 U	76.7 U	77.7 U	75.9 U	76.2 U	79.4 U	76.9 U	81.2 U	78.2 U	79.9 U
Hexachlorobutadiene	µg/kg	0.702	67.1 U	68.2 U	65.8 U	66.6 U	65.1 U	300 J	68.1 U	65.9 U	69.6 U	67.1 U	68.5 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	-	-
Metals~Total													
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-	-
PCBs													
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-	-
Pesticides													
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PT-12</i>	<i>PT-12</i>	<i>PT-12</i>	<i>PT-12</i>	<i>PT-12</i>	<i>PT-12</i>	<i>PT-13</i>	<i>PT-13</i>	<i>PT-13</i>	<i>PT-13</i>	<i>PT-13</i>	
<i>Sample ID:</i>		<i>SE-PT12-29.5-30.5</i>	<i>SE-PT12-34-35</i>	<i>SE-PT12-39-40</i>	<i>SE-PT12-44-45</i>	<i>SE-PT12-48.5-49.5</i>	<i>SE-PT12-FD1</i>	<i>SE-PT13-3.5-4.5</i>	<i>SE-PT13-8-9</i>	<i>SE-PT13-13.5-14.5</i>	<i>SE-PT13-18.5-19.5</i>	<i>SE-PT13-23.5-24.5</i>	
<i>Sample Date:</i>		6/10/2004	6/10/2004	6/10/2004	6/10/2004	6/10/2004	6/10/2004	6/9/2004	6/9/2004	6/9/2004	6/9/2004	6/9/2004	
<i>Sample Depth:</i>		29.5 to 30.5 ft bml	34 to 35 ft bml	39 to 40 ft bml	44 to 45 ft bml	48.5 to 49.5 ft bml	48.5 to 49.5 ft bml	3.5 to 4.5 ft bml	8 to 9 ft bml	13.5 to 14.5 ft bml	18.5 to 19.5 ft bml	23.5 to 24.5 ft bml	
<i>elev_MLLW</i>		-62.44 to -63.44	-66.94 to -67.94	-71.94 to -72.94	-76.94 to -77.94	-81.44 to -82.44	-81.44 to -82.44	-32.38 to -33.38	-36.88 to -37.88	-42.38 to -43.38	-47.38 to -48.38	-52.38 to -53.38	
<i>elev_NGVD</i>		-68.8 to -69.8	-73.3 to -74.3	-78.3 to -79.3	-83.3 to -84.3	-87.8 to -88.8	-87.8 to -88.8	-38.7 to -39.7	-43.2 to -44.2	-48.7 to -49.7	-53.7 to -54.7	-58.7 to -59.7	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>											
<i>Volatile Organic Compounds</i>													
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-	-	-	-	-	
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-	-	-	-	-	
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-	-	-	-	-	
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-	-	-	
Methylene chloride	µg/kg	475	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene	µg/kg	4.88	11000	15000 J	11000	82	240 J	410	63000 J	8100 J	1400000 J	960000	76
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	3500	9800 J	4800	580 J	1600	2100	3300 J	590 J	49000 J	1200000	99
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-	-	-	-	-	-
<i>Semi-volatile Organic Compounds</i>													
Hexachlorobenzene	µg/kg	0.062	77.5 U	82.4 U	78.2 U	76.5 U	75.9 U	74.9 U	-	76.3 U	-	76.2 U	74.9 U
Hexachlorobutadiene	µg/kg	0.702	220 J	70.6 U	67.1 U	65.6 U	65.1 U	64.2 U	-	65.4 U	-	5800	64.2 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	-	-
<i>Metals~Total</i>													
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-	-
<i>PCBs</i>													
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>													
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	PT-13	PT-13	PT-13	PT-13	PT-13A	PT-13A	PT-14	PT-14	PT-14	PT-14		
Sample ID:	SE-PT13-30-31	SE-PT13-39-40	SE-PT13-44.5-45.5	SE-PT13-49-50	SE-110905-PT-13A-001	SE-110905-PT-13A-002	SE-PT14-4-5	SE-PT14-9-10	SE-PT14-14-15	SE-PT14-19-20		
Sample Date:	6/9/2004	6/9/2004	6/9/2004	6/9/2004	11/9/2005	11/9/2005	6/21/2004	6/21/2004	6/21/2004	6/21/2004		
Sample Depth:	30 to 31 ft bml	39 to 40 ft bml	44.5 to 45.5 ft bml	49 to 50 ft bml	11.8 to 13.8 ft bml	21.8 to 23.8 ft bml	4 to 5 ft bml	9 to 10 ft bml	14 to 15 ft bml	19 to 20 ft bml		
elev_MLLW	-58.88 to -59.88	-67.88 to -68.88	-73.38 to -74.38	-77.88 to -78.88	-31.91 to -33.91	-41.91 to -43.91	1.86 to 0.86	-3.14 to -4.14	-8.14 to -9.14	-13.14 to -14.14		
elev_NGVD	-65.2 to -66.2	-74.2 to -75.2	-79.7 to -80.7	-84.2 to -85.2	-38.2 to -40.2	-48.2 to -50.2	-4.5 to -5.5	-9.5 to -10.5	-14.5 to -15.5	-19.5 to -20.5		
Parameters	Units	Cs										
Volatile Organic Compounds												
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-	-	-		
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-	-	-		
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-	-	-		
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-	-	-		
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-	-	-		
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-		
Methylene chloride	µg/kg	475	-	-	-	-	-	-	-	-		
Tetrachloroethene	µg/kg	4.88	4600	150	680	730	108000	23500	58	30000	2000	1800
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	19000	550 J	1400 J	890 J	-	-	110	790	1700	440
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds												
Hexachlorobenzene	µg/kg	0.062	77.0 U	77.3 U	75.6 U	74.4 U	153	1.16 J	80.7 U	78.0 U	76.6 U	76.6 U
Hexachlorobutadiene	µg/kg	0.702	66.0 U	66.3 U	64.8 U	63.8 U	5390	28.1	69.2 U	66.9 U	65.7 U	65.7 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	-
Metals~Total												
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-
PCBs												
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PT-14</i>	<i>PT-14</i>	<i>PT-14</i>	<i>PT-14</i>	<i>PT-14</i>	<i>PT-14</i>	<i>PT-15</i>	<i>PT-15</i>	<i>PT-15</i>	<i>PT-15</i>	<i>PT-15</i>	
<i>Sample ID:</i>		<i>SE-PT14-24-25</i>	<i>SE-PT14-29-30</i>	<i>SE-PT14-34-35</i>	<i>SE-PT14-38-39</i>	<i>SE-PT14-44-45</i>	<i>SE-PT14-49-50</i>	<i>SE-PT15-4-5</i>	<i>SE-PT15-9-10</i>	<i>SE-PT15-14-15</i>	<i>SE-PT15-18-19</i>	<i>SE-PT15-24-25</i>	
<i>Sample Date:</i>		<i>6/21/2004</i>	<i>6/21/2004</i>	<i>6/21/2004</i>	<i>6/21/2004</i>	<i>6/21/2004</i>	<i>6/21/2004</i>	<i>6/28/2004</i>	<i>6/28/2004</i>	<i>6/29/2004</i>	<i>6/29/2004</i>	<i>6/29/2004</i>	
<i>Sample Depth:</i>		<i>24 to 25 ft bml</i>	<i>29 to 30 ft bml</i>	<i>34 to 35 ft bml</i>	<i>38 to 39 ft bml</i>	<i>44 to 45 ft bml</i>	<i>49 to 50 ft bml</i>	<i>4 to 5 ft bml</i>	<i>9 to 10 ft bml</i>	<i>14 to 15 ft bml</i>	<i>18 to 19 ft bml</i>	<i>24 to 25 ft bml</i>	
<i>elev_MLLW</i>		<i>-18.14 to -19.14</i>	<i>-23.14 to -24.14</i>	<i>-28.14 to -29.14</i>	<i>-32.14 to -33.14</i>	<i>-38.14 to -39.14</i>	<i>-43.14 to -44.14</i>	<i>-16.14 to -17.14</i>	<i>-21.14 to -22.14</i>	<i>-26.14 to -27.14</i>	<i>-30.14 to -31.14</i>	<i>-36.14 to -37.14</i>	
<i>elev_NGVD</i>		<i>-24.5 to -25.5</i>	<i>-29.5 to -30.5</i>	<i>-34.5 to -35.5</i>	<i>-38.5 to -39.5</i>	<i>-44.5 to -45.5</i>	<i>-49.5 to -50.5</i>	<i>-22.5 to -23.5</i>	<i>-27.5 to -28.5</i>	<i>-32.5 to -33.5</i>	<i>-36.5 to -37.5</i>	<i>-42.5 to -43.5</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>											
<i>Volatile Organic Compounds</i>													
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-	-	-	-	-	
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-	-	-	-	-	
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-	-	-	-	-	
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-	-	-	
Methylene chloride	µg/kg	475	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene	µg/kg	4.88	7.4 J	3100	3700	2700 J	180 J	570	48000	8000	230000	200000	1500
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	4.6 J	800	470	690	110 J	300	7800	1400	16000	2400 J	320
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-	-	-	-	-	-
<i>Semi-volatile Organic Compounds</i>													
Hexachlorobenzene	µg/kg	0.062	77.4 U	76.8 U	78.8 U	74.2 U	76.8 U	79.2 U	590	340 J	210000	190000	330 J
Hexachlorobutadiene	µg/kg	0.702	66.4 U	65.9 U	67.6 U	63.6 U	65.9 U	67.9 U	2100	1200	58000	33000	1000
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	-	-
<i>Metals~Total</i>													
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-	-
<i>PCBs</i>													
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>													
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PT-15	PT-15	PT-15	PT-15	PT-15	PT-15A	PT-15A	PT-16	PT-16	PT-16		
Sample ID:	SE-PT15-29-30	SE-PT15-34-35	SE-PT15-38-39	SE-PT15-44-45	SE-PT15-49-50	SE-110905-NR-PT-15A-001	SE-110905-NR-PT-15A-002	SE-PT16-4.5-5.5	SE-PT16-9-10	SE-PT16-14-15		
Sample Date:	6/29/2004	6/29/2004	6/29/2004	6/30/2004	6/30/2004	11/9/2005	11/9/2005	6/11/2004	6/11/2004	6/11/2004		
Sample Depth:	29 to 30 ft bml	34 to 35 ft bml	38 to 39 ft bml	44 to 45 ft bml	49 to 50 ft bml	56 to 57 ft bml	66 to 67 ft bml	4.5 to 5.5 ft bml	9 to 10 ft bml	14 to 15 ft bml		
elev_MLLW	-41.14 to -42.14	-46.14 to -47.14	-50.14 to -51.14	-56.14 to -57.14	-61.14 to -62.14	-69 to -70	-79 to -80	-46.93 to -47.93	-51.43 to -52.43	-56.43 to -57.43		
elev_NGVD	-47.5 to -48.5	-52.5 to -53.5	-56.5 to -57.5	-62.5 to -63.5	-67.5 to -68.5	-75.3 to -76.3	-85.3 to -86.3	-53.2 to -54.2	-57.8 to -58.8	-62.8 to -63.8		
Parameters	Units	Cs										
Volatile Organic Compounds												
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-	-	-		
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-	-	-		
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-	-	-		
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-	-	-		
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-	-	-		
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-		
Methylene chloride	µg/kg	475	-	-	-	-	-	-	-	-		
Tetrachloroethene	µg/kg	4.88	1200	20000	23000	1300	540	267000	30900	78000	410	3000
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	4100	2400	1200	310	67	-	-	4500	39 J	570
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds												
Hexachlorobenzene	µg/kg	0.062	80.7 U	610	470	76.8 U	78.0 U	12400	1300	370 J	80.6 U	78.1 U
Hexachlorobutadiene	µg/kg	0.702	69.2 U	2200	1400	65.9 U	66.9 U	75900	4450	2300	69.1 U	67.0 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	-
Metals~Total												
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-
PCBs												
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	PT-16	PT-16	PT-16	PT-16	PT-16	PT-16	PT-17	PT-17	PT-17	PT-17	PT-17		
Sample ID:	SE-PT16-18-19.5	SE-PT16-24-25	SE-PT16-29.5-30.5	SE-PT16-34-35	SE-PT16-39-40	SE-PT16-44.5-45.5	SE-PT17-4-5	SE-PT17-5.5-6	SE-PT17-8-10	SE-PT17-9-10	SE-PT17-14-15		
Sample Date:	6/11/2004	6/11/2004	6/11/2004	6/11/2004	6/11/2004	6/11/2004	6/23/2004	6/16/2004	6/23/2004	6/16/2004	6/16/2004		
Sample Depth:	18 to 19.5 ft bml	24 to 25 ft bml	29.5 to 30.5 ft bml	34 to 35 ft bml	39 to 40 ft bml	44.5 to 45.5 ft bml	4 to 5 ft bml	5.5 to 6 ft bml	8 to 10 ft bml	9 to 10 ft bml	14 to 15 ft bml		
elev_MLLW	-60.43 to -61.93	-66.43 to -67.43	-71.93 to -72.93	-76.43 to -77.43	-81.43 to -82.43	-86.93 to -87.93	-28.14 to -29.14	-29.64 to -30.14	-32.14 to -34.14	-33.14 to -34.14	-38.14 to -39.14		
elev_NGVD	-66.8 to -68.2	-72.8 to -73.8	-78.2 to -79.2	-82.8 to -83.8	-87.8 to -88.8	-93.2 to -94.2	-34.5 to -35.5	-36 to -36.5	-38.5 to -40.5	-39.5 to -40.5	-44.5 to -45.5		
Parameters	Units	Cs											
Volatile Organic Compounds													
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-	-	-	-		
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-	-	-	-		
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-	-	-	-		
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-	-	-	-		
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-	-	-	-		
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-	-		
Methylene chloride	µg/kg	475	-	-	-	-	-	-	-	-	-		
Tetrachloroethene	µg/kg	4.88	190 J	35	88	3.4 U	3.4 U	3.4 U	35000	2500 J	4900	1700	30000
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	4.4 UJ	170 J	340 J	4.6 UJ	4.6 UJ	4.5 UJ	2200 J	1900 J	270 J	310	550
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds													
Hexachlorobenzene	µg/kg	0.062	75.1 U	80.3 U	78.3 U	77.2 U	77.3 U	76.6 U	36000	-	42000 J	85.8 U	280 J
Hexachlorobutadiene	µg/kg	0.702	64.4 U	68.8 U	67.1 U	66.2 U	66.3 U	65.7 U	140000	-	160000 J	73.5 U	790
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	-	-
Metals~Total													
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-	-
PCBs													
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-	-
Pesticides													
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PT-17</i>	<i>PT-17</i>	<i>PT-17</i>	<i>PT-17</i>	<i>PT-17</i>	<i>PT-17</i>	<i>PT-17</i>	<i>PT-17</i>	<i>PT-17</i>	<i>PT-18</i>		
<i>Sample ID:</i>		<i>SE-PT17-14-15</i>	<i>SE-PT17-18-19</i>	<i>SE-PT17-24-25</i>	<i>SE-PT17-29-30</i>	<i>SE-PT17-34-36</i>	<i>SE-PT17-FD5</i>	<i>SE-PT17-38-39</i>	<i>SE-PT17-43-45</i>	<i>SE-PT17-44-45</i>	<i>SE-PT17-49-50</i>	<i>SE-PT18-4.5-5.5</i>	
<i>Sample Date:</i>		6/23/2004	6/16/2004	6/24/2004	6/24/2004	6/24/2004	6/24/2004	6/24/2004	6/18/2004	6/24/2004	6/18/2004	6/16/2004	
<i>Sample Depth:</i>		14 to 15 ft bml	18 to 19 ft bml	24 to 25 ft bml	29 to 30 ft bml	34 to 36 ft bml	34 to 36 ft bml	38 to 39 ft bml	43 to 45 ft bml	44 to 45 ft bml	49 to 50 ft bml	4.5 to 5.5 ft bml	
<i>elev_MLLW</i>		-38.14 to -39.14	-42.14 to -43.14	-48.14 to -49.14	-53.14 to -54.14	-58.14 to -60.14	-58.14 to -60.14	-62.14 to -63.14	-67.14 to -69.14	-68.14 to -69.14	-73.14 to -74.14	-5.64 to -6.64	
<i>elev_NGVD</i>		-44.5 to -45.5	-48.5 to -49.5	-54.5 to -55.5	-59.5 to -60.5	-64.5 to -66.5	(Duplicate)	-68.5 to -69.5	-73.5 to -75.5	-74.5 to -75.5	-79.5 to -80.5	-12 to -13	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>											
<i>Volatile Organic Compounds</i>													
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-	-	-	-	-	
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-	-	-	-	-	
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-	-	-	-	-	
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-	-	-	
Methylene chloride	µg/kg	475	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene	µg/kg	4.88	30000	130	1300	420	R	89	52 J	470	78	7.6	12
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	550	72	25	23	R	11	4.0 J	83	5.2 J	5.0 U	8.9
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-	-	-	-	-	-
<i>Semi-volatile Organic Compounds</i>													
Hexachlorobenzene	µg/kg	0.062	-	80.2 U	520	360 J	77.2 U	77.8 U	77.7 U	78.6 U	73.1 U	83.8 U	410 J
Hexachlorobutadiene	µg/kg	0.702	-	68.8 U	890	530	66.2 U	66.7 U	66.6 U	67.4 U	360 J	71.8 U	920 J
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	-	-
<i>Metals~Total</i>													
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-	-
<i>PCBs</i>													
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>													
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PT-18</i>	<i>PT-18</i>	<i>PT-18</i>	<i>PT-18</i>	<i>PT-18</i>	<i>PT-18</i>	<i>PT-18</i>	<i>PT-18</i>	<i>PT-18</i>	<i>PT-18</i>	<i>SB-75</i>
<i>Sample ID:</i>		<i>SE-PT18-9-10</i>	<i>SE-PT18-14-15</i>	<i>SE-PT18-19-20</i>	<i>SE-PT18-24-25</i>	<i>SE-PT18-29-30</i>	<i>SE-PT18-33-35</i>	<i>SE-PT18-FD3</i>	<i>SE-PT18-38-39</i>	<i>SE-PT18-44-45</i>	<i>SE-PT18-49-50</i>	<i>S-020609-TG-SB-75</i>
<i>Sample Date:</i>		6/16/2004	6/16/2004	6/16/2004	6/16/2004	6/16/2004	6/16/2004	6/16/2004	6/16/2004	6/22/2004	6/22/2004	2/6/2009
<i>Sample Depth:</i>		9 to 10 ft bml	14 to 15 ft bml	19 to 20 ft bml	24 to 25 ft bml	29 to 30 ft bml	33 to 35 ft bml	33 to 35 ft bml	38 to 39 ft bml	44 to 45 ft bml	49 to 50 ft bml	45 to 55 ft bgs
<i>elev_MLLW</i>		-10.14 to -11.14	-15.14 to -16.14	-20.14 to -21.14	-25.14 to -26.14	-30.14 to -31.14	-34.14 to -36.14	-34.14 to -36.14	-39.14 to -40.14	-45.14 to -46.14	-50.14 to -51.14	-27.08 to -37.08
<i>elev_NGVD</i>		-16.5 to -17.5	-21.5 to -22.5	-26.5 to -27.5	-31.5 to -32.5	-36.5 to -37.5	-40.5 to -42.5	-40.5 to -42.5 (Duplicate)	-45.5 to -46.5	-51.5 to -52.5	-56.5 to -57.5	-33.4 to -43.4
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>										
<i>Volatile Organic Compounds</i>												
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	15.2	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1.13	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	1.93	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	160	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg	475	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/kg	4.88	4.0 U	3.9 U	3.6 U	3.8 U	4.2 U	5.1 J	3.7 U	3.9 U	6.8	8.0
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	30.8	5.2 U	5.1 U	4.8 U	5.1 U	5.5 U	4.8 U	4.8 U	5.1 U	4.6 U	4.5 U
Vinyl chloride	µg/kg	0.73	-	-	-	-	-	-	-	-	-	-
<i>Semi-volatile Organic Compounds</i>												
Hexachlorobenzene	µg/kg	0.062	87.9 U	86.8 U	2400 U	86.3 U	93.3 U	82.4 U	82.4 U	86.9 U	77.4 U	76.7 U
Hexachlorobutadiene	µg/kg	0.702	75.4 U	74.4 U	2100 U	74.0 U	80.0 U	70.6 U	70.6 U	74.5 U	66.4 U	65.8 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	-
<i>Metals~Total</i>												
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-
<i>PCBs</i>												
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>												
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SB-82</i>	<i>SB-83</i>	<i>SB-B-DEEP</i>	<i>SB-B-DEEP</i>	<i>SB-B-DEEP</i>	<i>SB-B-DEEP</i>	<i>SB-B-DEEP</i>	<i>SB-B-DEEP</i>	<i>SB-B-DEEP</i>	
<i>Sample ID:</i>	<i>S-020209-TG-SB-82</i>	<i>S-020609-TG-SB-83</i>	<i>S-080213-KB-SB-B-DEEP-01</i>	<i>S-080213-KB-SB-B-DEEP-02</i>	<i>S-080213-KB-SB-B-DEEP-03</i>	<i>S-080213-KB-SB-B-DEEP-04</i>	<i>S-080513-KB-SB-B-DEEP-05</i>	<i>S-080613-KB-SB-B-DEEP-06</i>		
<i>Sample Date:</i>	<i>2/2/2009</i>	<i>2/6/2009</i>	<i>8/2/2013</i>	<i>8/2/2013</i>	<i>8/2/2013</i>	<i>8/2/2013</i>	<i>8/5/2013</i>	<i>8/6/2013</i>		
<i>Sample Depth:</i>	<i>20 to 30 ft bgs</i>	<i>17 to 27 ft bgs</i>	<i>20 ft BGS</i>	<i>34.8 ft BGS</i>	<i>34.8 ft BGS</i>	<i>43.5 ft BGS</i>	<i>56.5 ft BGS</i>	<i>66.5 ft BGS</i>		
<i>elev_MLLW</i>	<i>-2.08 to -12.08</i>	<i>0.92 to -9.08</i>	<i>-3.13</i>	<i>-17.93</i>	<i>-17.93</i>	<i>-26.63</i>	<i>-39.63</i>	<i>-49.63</i>		
<i>elev_NGVD</i>	<i>-8.4 to -18.4</i>	<i>-5.4 to -15.4</i>	<i>-9.4</i>	<i>-24.2</i>	<i>-24.2</i>	<i>-33</i>	<i>-46</i>	<i>-56</i>		
					<i>(Duplicate)</i>					
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	-	-	4.9 U	5.2 U	5.8 U	5.8 U	5.1 U	5.1 U
1,1,2-Trichloroethane	µg/kg	15.2	-	-	4.9 U	5.2 U	5.8 U	5.8 U	5.1 U	5.1 U
1,1-Dichloroethene	µg/kg	1.13	-	-	4.9 U	5.2 U	5.8 U	5.8 U	5.1 U	5.1 U
Carbon tetrachloride	µg/kg	1.93	-	-	4.9 U	5.2 U	5.8 U	5.8 U	5.1 U	5.1 U
Chloroform (Trichloromethane)	µg/kg	160	-	-	4.9 U	5.2 U	5.8 U	5.8 U	5.1 U	0.90 J
cis-1,2-Dichloroethene	µg/kg	NV	-	-	4.9 U	5.2 U	5.8 U	5.8 U	5.1 U	0.40 J
Methylene chloride	µg/kg	475	-	-	9.8 U	11 U	12 U	12 U	11 U	11 U
Tetrachloroethene	µg/kg	4.88	-	-	4.9 U	5.2 U	5.8 U	5.8 U	0.84 J	0.94 J
trans-1,2-Dichloroethene	µg/kg	3247	-	-	4.9 U	5.2 U	5.8 U	5.8 U	5.1 U	5.1 U
Trichloroethene	µg/kg	30.8	-	-	4.9 U	5.2 U	5.8 U	5.8 U	1.3 J	1.0 J
Vinyl chloride	µg/kg	0.73	-	-	0.48 J	5.2 U	5.8 U	5.8 U	5.1 U	5.1 U
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	0.46	0.18 J
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	0.18	0.18 J
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	390 J	3100	-	-	-	-	-	-
Chromium	µg/kg	714	6800	15100	-	-	-	-	-	-
Copper	µg/kg	53.5	10800	28500	-	-	-	-	-	-
Lead	µg/kg	81002	640	2700	-	-	-	-	-	-
Mercury	µg/kg	1.31	24 J	30 U	-	-	-	-	-	-
Nickel	µg/kg	535	3100	10400	-	-	-	-	-	-
Thallium	µg/kg	34	120	71 J	-	-	-	-	-	-
Zinc	µg/kg	5045	8000 J	24100 J	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	
Sample ID:	S-080613-KB-SB-B-DEEP-07	S-080713-KB-SB-B-DEEP-08	S-080713-KB-SB-B-DEEP-09	S-080713-KB-SB-B-DEEP-10	S-080713-KB-SB-B-DEEP-11	S-080813-KB-SB-B-DEEP-12	S-080813-KB-SB-B-DEEP-13		
Sample Date:	8/6/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013	8/8/2013	
Sample Depth:	77 ft BGS	86.5 ft BGS	98.5 ft BGS	108 ft BGS	119 ft BGS	129.5 ft BGS	139 ft BGS	139 ft BGS	
elev_MLLW	-60.13	-69.63	-81.63	-91.13	-102.13	-112.63	-122.13	-122.13	
elev_NGVD	-66.4	-76	-88	-97.4	-108.4	-119	-128.4	-128.4	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	8.4 U	5.0 U	70 U	62 U	70 U	59 U	1500 U
1,1,2-Trichloroethane	µg/kg	15.2	8.4 U	5.0 U	25 J	57 J	70 U	29 J	1500 U
1,1-Dichloroethene	µg/kg	1.13	8.4 U	5.0 U	33 J	39 J	260	140	2900
Carbon tetrachloride	µg/kg	1.93	8.4 U	5.0 U	70 U	62 U	70 U	59 U	1500 U
Chloroform (Trichloromethane)	µg/kg	160	3.1 J	0.63 J	100	300	11 J	150	1500 U
cis-1,2-Dichloroethene	µg/kg	NV	16	3.3 J	12000	13000	52000	32000	14000
Methylene chloride	µg/kg	475	17 U	10 U	18 J	250 U	19 J	240 U	5900 U
Tetrachloroethene	µg/kg	4.88	1.5 J	0.80 J	200	300	70 U	140	25000
trans-1,2-Dichloroethene	µg/kg	3247	1.0 J	5.0 U	570	240	440	280	1200 J
Trichloroethene	µg/kg	30.8	1.9 J	1.6 J	450	7300	46000	5200	580000
Vinyl chloride	µg/kg	0.73	0.54 J	0.48 J	2200	690	13000	3100	1500 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	0.93 J	0.12 U	0.26	0.37 J	0.13 U	0.29	0.30 J
Hexachlorobutadiene	µg/kg	0.702	0.13 U	0.15	0.13 U	0.12 UJ	0.13 U	0.13 U	0.72 J
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP		
Sample ID:	S-080813-KB-SB-B-DEEP-14	S-080813-KB-SB-B-DEEP-15	S-080813-KB-SB-B-DEEP-16	S-080813-KB-SB-B-DEEP-17	S-080813-KB-SB-B-DEEP-18	S-080813-KB-SB-B-DEEP-19	S-080813-KB-SB-B-DEEP-20		
Sample Date:	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013		
Sample Depth:	141 ft BGS	142 ft BGS	144 ft BGS	145 ft BGS	145.5 ft BGS	147.5 ft BGS	149.5 ft BGS		
elev_MLLW	-124.13	-125.13	-127.13	-128.13	-128.63	-130.63	-132.63		
elev_NGVD	-130.4	-131.4	-133.4	-134.4	-135	-137	-139		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	2900 U	350 U	610 U	550 U	570 U	320 U	510 U
1,1,2-Trichloroethane	µg/kg	15.2	5200	350 U	12000	550 U	570 U	3100	510 U
1,1-Dichloroethene	µg/kg	1.13	5200	890	1600	2000	960	430	1100
Carbon tetrachloride	µg/kg	1.93	2900 U	350 U	610 U	550 U	570 U	320 U	510 U
Chloroform (Trichloromethane)	µg/kg	160	2900 U	350 U	610 U	550 U	570 U	320 U	510 U
cis-1,2-Dichloroethene	µg/kg	NV	34000	12000	13000	15000	6400	4000	9800
Methylene chloride	µg/kg	475	1000 J	1400 U	200 J	2200 U	2300 U	120 J	160 J
Tetrachloroethene	µg/kg	4.88	1100000	48000	340000	330000	120000	96000	210000
trans-1,2-Dichloroethene	µg/kg	3247	2600 J	650	770	980	780	270 J	770
Trichloroethene	µg/kg	30.8	1500000	190000	490000	460000	290000	180000	350000
Vinyl chloride	µg/kg	0.73	2900 U	350 U	910	1100	570 U	320 U	510 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	210	1.3 J	36 J	35 J	1600	22	89
Hexachlorobutadiene	µg/kg	0.702	1.1 U	100 J	1.2 U	1.2 U	1.2 U	120 J	850
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	
Sample ID:		S-080913-KB-SB-B-DEEP-21	S-080913-KB-SB-B-DEEP-22	S-080913-KB-SB-B-DEEP-23	S-080913-KB-SB-B-DEEP-24	S-080913-KB-SB-B-DEEP-25	S-080913-KB-SB-B-DEEP-26	S-081213-KB-SB-B-DEEP-27	
Sample Date:		8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/12/2013	
Sample Depth:		151 ft BGS	153 ft BGS	157.5 ft BGS	157.5 ft BGS	168 ft BGS	178 ft BGS	188 ft BGS	
elev_MLLW		-134.13	-136.13	-140.63	-140.63	-151.13	-161.13	-171.13	
elev_NGVD		-140.4	-142.4	-147	-147	-157.4	-167.4	-177.4	
Parameters	Units	Cs			(Duplicate)				
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1400 U	140 U	81 U	74 U	5.4 U	5.2 U	4.7 U
1,1,2-Trichloroethane	µg/kg	15.2	67000	140 U	81 U	74 U	5.4 U	5.2 U	4.7 U
1,1-Dichloroethene	µg/kg	1.13	2000	290	150	140	5.4 U	5.2 U	0.76 J
Carbon tetrachloride	µg/kg	1.93	1400 U	140 U	81 U	74 U	5.4 U	5.2 U	4.7 U
Chloroform (Trichloromethane)	µg/kg	160	1400 U	140 U	81 U	74 U	5.4 U	5.2 U	0.22 J
cis-1,2-Dichloroethene	µg/kg	NV	23000	15000	4100	3800	5.4 U	5.2 U	32
Methylene chloride	µg/kg	475	5500 U	560 U	330 U	300 U	11 U	11 U	9.4 U
Tetrachloroethene	µg/kg	4.88	2100000	1000	12000 J	5300 J	6.5	5.2 U	13
trans-1,2-Dichloroethene	µg/kg	3247	1400 U	540	190	170	5.4 U	5.2 U	0.82 J
Trichloroethene	µg/kg	30.8	1700000	79000	17000 J	9200 J	8.2	5.2 U	72
Vinyl chloride	µg/kg	0.73	1400 U	140 U	81 U	74 U	5.4 U	5.2 U	7.6
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	420	0.68 J	1.1 J	1.4	0.13 U	0.12 U	0.20
Hexachlorobutadiene	µg/kg	0.702	12 U	7.3 J	12 J	15 J	0.13 U	1.1 J	0.68
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SB-B-DEEP</i>	<i>SP-1</i>	<i>SP-1</i>	<i>SP-2</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-4</i>	<i>SP-4</i>	
<i>Sample ID:</i>		<i>S-081213-KB-SB-B-DEEP-28</i>	<i>S-062306-LH-SP1-002</i>	<i>S-062306-LH-SP1-003</i>	<i>S-070706-DR-SP2-002</i>	<i>S-061406-LH-SP3-002</i>	<i>S-061406-LH-SP3-003</i>	<i>S-062006-DR-SP4-002</i>	<i>S-062006-DR-SP4-003</i>	
<i>Sample Date:</i>		<i>8/12/2013</i>	<i>6/23/2006</i>	<i>6/23/2006</i>	<i>7/7/2006</i>	<i>6/14/2006</i>	<i>6/14/2006</i>	<i>6/20/2006</i>	<i>6/20/2006</i>	
<i>Sample Depth:</i>		<i>198 ft BGS</i>	<i>2 to 6 ft bgs</i>	<i>6 to 10 ft bgs</i>	<i>2 to 6 ft bgs</i>	<i>2 to 6 ft bgs</i>	<i>6 to 10 ft bgs</i>	<i>2 to 6 ft bgs</i>	<i>6 to 10 ft bgs</i>	
<i>elev_MLLW</i>		<i>-181.13</i>	<i>15.92 to 11.92</i>	<i>11.92 to 7.92</i>	<i>15.92 to 11.92</i>	<i>15.92 to 11.92</i>	<i>11.92 to 7.92</i>	<i>15.92 to 11.92</i>	<i>11.92 to 7.92</i>	
<i>elev_NGVD</i>		<i>-187.4</i>	<i>9.6 to 5.6</i>	<i>5.6 to 1.6</i>	<i>9.6 to 5.6</i>	<i>9.6 to 5.6</i>	<i>5.6 to 1.6</i>	<i>9.6 to 5.6</i>	<i>5.6 to 1.6</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.1 U	5.90 U	5.73 U	1.4 U	149 UJ	5.74 UJ	5.52 U	4.88 U
1,1,2-Trichloroethane	µg/kg	15.2	5.1 U	1.48 U	1.43 U	0.54 U	149 UJ	1.44 UJ	1.38 U	1.22 U
1,1-Dichloroethene	µg/kg	1.13	5.1 U	3.54 U	3.44 U	0.89 U	149 UJ	3.45 UJ	3.31 U	2.93 U
Carbon tetrachloride	µg/kg	1.93	5.1 U	5.90 U	5.73 U	0.90 U	149 UJ	5.74 UJ	5.52 U	4.88 U
Chloroform (Trichloromethane)	µg/kg	160	5.1 U	2.95 U	2.61 J	1.6 U	149 UJ	2.87 UJ	2.76 U	2.17 J
cis-1,2-Dichloroethene	µg/kg	NV	5.1 U	3.54 U	3.44 U	1.2 U	149 UJ	3.45 UJ	3.31 U	2.93 U
Methylene chloride	µg/kg	475	11 U	4.13 U	4.01 U	5.2 U	1490 UJ	4.02 UJ	1.70 J	1.30 J
Tetrachloroethene	µg/kg	4.88	0.52 J	40.6	7.16	0.75 J	1680 J	49.8 J	7.80 J	37.1 J
trans-1,2-Dichloroethene	µg/kg	3247	5.1 U	2.95 U	2.87 U	1.5 U	149 UJ	2.87 UJ	2.76 U	2.44 U
Trichloroethene	µg/kg	30.8	0.50 J	1.35 J	2.87 U	0.80 U	269 J	2.07 J	1.13 J	4.41 J
Vinyl chloride	µg/kg	0.73	5.1 U	2.95 U	2.87 U	1.9 U	149 UJ	2.87 UJ	2.76 U	2.44 U
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	0.11 U	0.538 J	1.22 U	1.8 U	8.17	8.45 J	1.05 U	1.09 U
Hexachlorobutadiene	µg/kg	0.702	1.5	5.90 U	5.73 U	5.9	613 J	397 J	5.52 U	2.02 J
Pentachlorophenol	µg/kg	6.94	-	53.9 U	61.4 U	3.7 U	55.4 U	4.65 J	51.6 U	53.5 U
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	1700 J	1060 J	1500	1070 J	965 J	1120 J	1450 J
Chromium	µg/kg	714	-	10900 J	11700 J	12600 J	10500 J	9980 J	9630 J	16800 J
Copper	µg/kg	53.5	-	9440 J	8120 J	10400	9870 J	8730 J	9190 J	11000 J
Lead	µg/kg	81002	-	16500 J	1520 J	1100	1500 J	7980 J	4120 J	5930 J
Mercury	µg/kg	1.31	-	383 U	411 U	35 U	359 U	388 U	395 U	284 U
Nickel	µg/kg	535	-	8330 J	7770 J	8100 J	9140 J	7150 J	9010 J	11800 J
Thallium	µg/kg	34	-	R	R	31 J	R	R	R	R
Zinc	µg/kg	5045	-	24300 J	18000 J	22200	19800 J	17800 J	22800 J	22000 J
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	52.5 U	61.2 U	11 U	55.4 U	63.2 U	52.7 U	54.4 U
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		SP-5	SP-5	SP-6	SP-7	SP-7	SP-8	SP-8	SS1-95	
Sample ID:		S-060206-DR-SP5-002	S-060206-DR-SP5-003	S-060506-DR-SP6-002	S-062806-LH-SP7-002	S-062806-LH-SP7-003	S-071306-LH-SP8-002	S-071306-LH-SP8-003	S-1002-110895-JOS-028	
Sample Date:		6/2/2006	6/2/2006	6/5/2006	6/28/2006	6/28/2006	7/13/2006	7/13/2006	11/8/1995	
Sample Depth:		2 to 6 ft bgs	6 to 8 ft bgs	2 to 6 ft bgs	2 to 6 ft bgs	6 to 10 ft bgs	2 to 6 ft bgs	6 to 10 ft bgs	4 to 5 ft bgs	
elev_MLLW		15.92 to 11.92	11.92 to 9.92	15.92 to 11.92	15.92 to 11.92	11.92 to 7.92	15.92 to 11.92	11.92 to 7.92	13.92 to 12.92	
elev_NGVD		9.6 to 5.6	5.6 to 3.6	9.6 to 5.6	9.6 to 5.6	5.6 to 1.6	9.6 to 5.6	5.6 to 1.6	7.6 to 6.6	
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.3 U	1.4 U	1.4 U	1.4 U	1.5 U	6.09 U	5.68 U	6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.51 U	0.53 U	0.52 U	0.53 U	0.57 UJ	1.52 U	1.42 U	6 U
1,1-Dichloroethene	µg/kg	1.13	0.84 U	0.87 U	0.86 U	0.86 U	0.94 U	3.66 U	3.41 U	6 U
Carbon tetrachloride	µg/kg	1.93	0.85 U	1.4 J	0.87 U	0.88 U	0.96 UJ	6.09 U	5.68 U	6 U
Chloroform (Trichloromethane)	µg/kg	160	2.2 J	3.6 J	12	1.6 U	6.0 J	3.05 U	3.49	6 U
cis-1,2-Dichloroethene	µg/kg	NV	1.1 U	1.2 U	1.7 J	1.2 U	1.3 UJ	3.66 U	3.41 U	-
Methylene chloride	µg/kg	475	4.9 U	5.0 U	5.0 U	5.0 U	5.5 U	4.26 U	3.97 U	11 U
Tetrachloroethene	µg/kg	4.88	89	160	880	53	14 J	2.39 J	35.0	7
trans-1,2-Dichloroethene	µg/kg	3247	1.4 U	1.5 U	1.5 U	1.5 U	1.6 U	3.05 U	2.84 U	-
Trichloroethene	µg/kg	30.8	22	22	130	13	0.85 UJ	1.72 J	7.15	2 J
Vinyl chloride	µg/kg	0.73	1.8 U	1.8 U	1.8 U	1.8 U	2.0 UJ	3.05 U	2.84 U	11 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	8.5 U	8.8 U	1.7 U	1.8 U	1.9 U	1.06 U	1.27 U	-
Hexachlorobutadiene	µg/kg	0.702	47	460	28	11	99	12.2 U	11.4 U	-
Pentachlorophenol	µg/kg	6.94	18 U	18 U	3.6 U	3.6 U	3.9 U	52.5 U	63.1 U	-
Metals~Total										
Arsenic	µg/kg	146	1000	740	1100	1400	1100	1260 J	1390 J	-
Chromium	µg/kg	714	10700 J	7700 J	13600	10600	11800	11700 J	12900 J	-
Copper	µg/kg	53.5	9200	6700	9300	10700 J	9200 J	10900 J	12200 J	-
Lead	µg/kg	81002	1200 J	1900 J	1300	4200	1000	1140 J	3090 J	-
Mercury	µg/kg	1.31	18 U	18 U	36 U	28 U	29 U	347 U	429 U	-
Nickel	µg/kg	535	7500 J	6500 J	9400	7200	6700	8480 J	8270 J	-
Thallium	µg/kg	34	31 U	24 U	45 J	24 U	26 U	549 UJ	503 UJ	-
Zinc	µg/kg	5045	21800	17200	22700	24000	19900	19900 J	22400 J	-
PCBs										
Total PCBs	µg/kg	0.053	11 U	11 U	11 U	11 U	12 U	53.1 U	63.7 U	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		SS1-95	SS1-95	SS1-95	SS1-95	WMUA-1	WMUA-2	WMUA-3	WMUA-4	WMUA-5	
<i>Sample ID:</i>		S-1002-110895-JOS-029	S-1002-110895-JOS-030	S-1002-110895-JOS-031	S-1002-110895-JOS-032	S-WMUA1-7.5-8.5	S-WMUA2-7.5-8.5	S-WMUA3-10-10.5	S-WMUA4-9.2-10.2	S-WMUA5-10-12	
<i>Sample Date:</i>		11/8/1995	11/8/1995	11/8/1995	11/8/1995	6/11/2004	6/11/2004	6/10/2004	6/10/2004	6/10/2004	
<i>Sample Depth:</i>		5 to 6 ft bgs	6 to 7 ft bgs	7 to 8 ft bgs	8 to 9 ft bgs	7.5 to 8.5 ft bgs	7.5 to 8.5 ft bgs	10 to 10.5 ft bgs	9.2 to 10.2 ft bgs	10 to 12 ft bgs	
<i>elev_MLLW</i>		12.92 to 11.92	11.92 to 10.92	10.92 to 9.92	9.92 to 8.92	10.42 to 9.42	10.42 to 9.42	7.92 to 7.42	8.72 to 7.72	7.92 to 5.92	
<i>elev_NGVD</i>		6.6 to 5.6	5.6 to 4.6	4.6 to 3.6	3.6 to 2.6	4.1 to 3.1	4.1 to 3.1	1.6 to 1.1	2.4 to 1.4	1.6 to -0.4	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>									
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6 U	6 U	6 U	6 U	5 U	5 U	5 U	5 U	6 U
1,1,2-Trichloroethane	µg/kg	15.2	6 U	6 U	6 U	6 U	5 U	5 U	5 U	5 U	6 U
1,1-Dichloroethene	µg/kg	1.13	6 U	6 U	6 U	6 U	5 U	5 U	5 U	5 U	6 U
Carbon tetrachloride	µg/kg	1.93	6 U	6 U	6 U	6 U	5 U	5 U	5 U	5 U	6 U
Chloroform (Trichloromethane)	µg/kg	160	6 U	6 U	6 U	6 U	5 U	5 U	5 U	5 U	6 U
cis-1,2-Dichloroethene	µg/kg	NV	-	-	-	-	5 U	5 U	5 U	5 U	6 U
Methylene chloride	µg/kg	475	14 U	18 U	16 U	18 U	5 U	22.9 U	5 U	5 U	6 U
Tetrachloroethene	µg/kg	4.88	8	19 J	17 J	6 U	39	22	59	20	25
trans-1,2-Dichloroethene	µg/kg	3247	-	-	-	-	5 U	5 U	5 U	5 U	6 U
Trichloroethene	µg/kg	30.8	2 J	6	6 J	6 U	3.1 J	5 U	5 U	5 U	6 U
Vinyl chloride	µg/kg	0.73	12 U	13 U	12 U	12 U	5 U	5 U	5 U	5 U	6 U
<i>Semi-volatile Organic Compounds</i>											
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	360 U	350 U	350 U	350 U	370 U
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	360 U	350 U	560	350 U	1200
Pentachlorophenol	µg/kg	6.94	-	-	-	-	720 U	710 U	710 U	710 U	740 U
<i>Metals~Total</i>											
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-
<i>PCBs</i>											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUA-6	WMUA-6	WMUA-6	WMUA-6	WMUA-6	WMUA-6	WMUA-6	
Sample ID:		S-WMUA6-11.5-12.0	S-081606-BG-WMUA6-076	S-081606-BG-WMUA6-077	S-081606-BG-WMUA6-078	S-081606-BG-WMUA6-079	S-081606-BG-WMUA6-080	S-081606-BG-WMUA6-081	
Sample Date:		6/10/2004	8/16/2006	8/16/2006	8/16/2006	8/16/2006	8/16/2006	8/16/2006	
Sample Depth:		11.5 to 12 ft bgs	15 to 17 ft bgs	25 to 27 ft bgs	25 to 27 ft bgs	35 to 37 ft bgs	45 to 47 ft bgs	55 to 57 ft bgs	
elev_MLLW		6.42 to 5.92	2.92 to 0.92	-7.08 to -9.08	-7.08 to -9.08	-17.08 to -19.08	-27.08 to -29.08	-37.08 to -39.08	
elev_NGVD		0.1 to -0.4	-3.4 to -5.4	-13.4 to -15.4	-13.4 to -15.4 (Duplicate)	-23.4 to -25.4	-33.4 to -35.4	-43.4 to -45.4	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6 U	1.5 UJ	R	1.5 U	1.5 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	6 U	0.60 UJ	R	0.59 U	0.58 U	0.63 U	0.62 U
1,1-Dichloroethene	µg/kg	1.13	6 U	0.98 UJ	R	21 UJ	0.96 U	1 U	1 U
Carbon tetrachloride	µg/kg	1.93	6 U	0.99 UJ	R	0.98 U	0.97 U	1 U	1 UJ
Chloroform (Trichloromethane)	µg/kg	160	6 U	1.8 UJ	R	1.8 U	1.7 U	1.9 U	1.8 U
cis-1,2-Dichloroethene	µg/kg	NV	6 U	7.4 J	14000 J	12000	65	12	15
Methylene chloride	µg/kg	475	6 U	17 J	R	14	14	29	5.9 U
Tetrachloroethene	µg/kg	4.88	42	250 J	5500	2400	0.66 U	0.94 J	0.69 UJ
trans-1,2-Dichloroethene	µg/kg	3247	6 U	1.7 UJ	R	120 J	1.6 J	1.8 U	1.7 UJ
Trichloroethene	µg/kg	30.8	6 U	25 J	9500 J	7300	16	16	2.7 J
Vinyl chloride	µg/kg	0.73	6 U	2.1 UJ	R	460 J	2.0 U	2.2 U	2.1 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	360 U	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	1100	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	720 U	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUA-6	WMUA-6	WMUA-7	WMUA-7	WMUA-7	WMUA-7	WMUA-7	WMUA-7	WMUA-7	
Sample ID:	S-081606-BG-WMUA6-082	S-081606-BG-WMUA6-083	S-WMUA7-10.8-11.8	S-FDWMUA7	S-081706-BG-WMUA7-084	S-081706-BG-WMUA7-085	S-081706-BG-WMUA7-086	S-081706-BG-WMUA7-087	S-081706-BG-WMUA7-087	
Sample Date:	8/16/2006	8/16/2006	6/10/2004	6/10/2004	8/17/2006	8/17/2006	8/17/2006	8/17/2006	8/17/2006	
Sample Depth:	65 to 67 ft bgs	75 to 77 ft bgs	10.8 to 11.8 ft bgs	10.8 to 11.8 ft bgs	25 to 27 ft bgs	35 to 37 ft bgs	45 to 47 ft bgs	55 to 57 ft bgs	55 to 57 ft bgs	
elev_MLLW	-47.08 to -49.08	-57.08 to -59.08	7.12 to 6.12	7.12 to 6.12	-7.08 to -9.08	-17.08 to -19.08	-27.08 to -29.08	-37.08 to -39.08	-37.08 to -39.08	
elev_NGVD	-53.4 to -55.4	-63.4 to -65.4	0.8 to -0.2	0.8 to -0.2	-13.4 to -15.4	-23.4 to -25.4	-33.4 to -35.4	-43.4 to -45.4	-43.4 to -45.4	
				(Duplicate)						
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.7 U	1.6 U	6 U	6 U	1.5 U	1.5 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.65 U	0.62 U	6 U	6 U	0.58 U	0.59 U	0.61 U	0.63 U
1,1-Dichloroethene	µg/kg	1.13	1.1 U	2.2 J	6 U	6 U	0.95 U	0.98 U	1 U	1 U
Carbon tetrachloride	µg/kg	1.93	1.1 U	1 U	6 U	6 U	0.96 U	0.99 U	1 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	1.8 U	6 U	7.7	1.7 U	1.8 U	1.8 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	10	6400 J	6 U	6 U	44	5.0 J	14	11
Methylene chloride	µg/kg	475	11	5.9 U	6 U	6 U	6.4	5.7 U	5.9 U	6.0 U
Tetrachloroethene	µg/kg	4.88	0.73 U	0.69 U	15 J	46000 J	1.8 J	0.67 U	7.7	0.71 U
trans-1,2-Dichloroethene	µg/kg	3247	16	220 J	6 U	6 U	2.3 J	1.7 U	1.7 U	1.8 U
Trichloroethene	µg/kg	30.8	1.7 J	1. J	6 U	460 J	4.5 J	6.5	19	0.94 U
Vinyl chloride	µg/kg	0.73	530	220 J	6 U	6 U	28	4.8 J	2.1 U	2.2 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	360 U	200 J	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	2100 J	29000 J	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	720 U	750 U	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		WMUA-7	WMUA-7	WMUA-7	WMUA-7	WMUA-7	WMUA-7	WMUA-7	
<i>Sample ID:</i>		S-081706-BG-WMUA7-088	S-081706-BG-WMUA7-089	S-081706-BG-WMUA7-090	S-081706-BG-WMUA7-091	S-081706-BG-WMUA7-092	S-081706-BG-WMUA7-093	S-081706-BG-WMUA7-094	
<i>Sample Date:</i>		8/17/2006	8/17/2006	8/17/2006	8/17/2006	8/17/2006	8/17/2006	8/17/2006	
<i>Sample Depth:</i>		65 to 67 ft bgs	75 to 77 ft bgs	85 to 87 ft bgs	95 to 97 ft bgs	105 to 107 ft bgs	115 to 117 ft bgs	125 to 127 ft bgs	
<i>elev_MLLW</i>		-47.08 to -49.08	-57.08 to -59.08	-67.08 to -69.08	-77.08 to -79.08	-87.08 to -89.08	-97.08 to -99.08	-107.08 to -109.08	
<i>elev_NGVD</i>		-53.4 to -55.4	-63.4 to -65.4	-73.4 to -75.4	-83.4 to -85.4	-93.4 to -95.4	-103.4 to -105.4	-113.4 to -115.4	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 UJ	1.7 U	1.6 U	36 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.63 U	0.63 UJ	0.65 U	0.63 U	27 U	0.64 U	0.63 U
1,1-Dichloroethene	µg/kg	1.13	1 U	1 U	4.7 J	1 U	40 U	1.1 U	1 U
Carbon tetrachloride	µg/kg	1.93	1 U	1.1 U	1.1 U	1.1 U	13 U	1.1 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	1.9 U	1.9 U	1.9 U	21 U	1.9 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	4.5 J	11 J	1700	240	1100	1.8 J	1.4 U
Methylene chloride	µg/kg	475	6.0 U	6.0 U	6.2 U	6.0 U	47 U	7.0	6.0 U
Tetrachloroethene	µg/kg	4.88	0.70 U	0.71 UJ	2.4 J	0.71 U	20 U	1. J	0.71 U
trans-1,2-Dichloroethene	µg/kg	3247	8.9	61 J	370	16	300	1.8 U	1.8 U
Trichloroethene	µg/kg	30.8	0.93 U	0.93 U	9.9	19	11000	1.3 J	1.1 J
Vinyl chloride	µg/kg	0.73	76	470 J	1400	2.2 U	31 U	2.2 U	2.2 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	WMUA-7	WMUA-7	WMUA-7	WMUA-7	WMUA-8	WMUA-8	WMUA-8			
Sample ID:	S-081706-BG-WMUA7-095	S-081706-BG-WMUA7-096	S-081706-BG-WMUA7-097	S-081706-BG-WMUA7-098	S-WMUA8-10.5-11.5	S-100606-ILM-WMUA8-001	S-100606-ILM-WMUA8-002			
Sample Date:	8/17/2006	8/17/2006	8/17/2006	8/17/2006	6/11/2004	10/6/2006	10/6/2006			
Sample Depth:	135 to 137 ft bgs	145 to 147 ft bgs	155 to 157 ft bgs	155 to 157 ft bgs	10.5 to 11.5 ft bgs	13 to 15 ft bgs	23 to 25 ft bgs			
elev_MLLW	-117.08 to -119.08	-127.08 to -129.08	-137.08 to -139.08	-137.08 to -139.08	7.42 to 6.42	4.92 to 2.92	-5.08 to -7.08			
elev_NGVD	-123.4 to -125.4	-133.4 to -135.4	-143.4 to -145.4	-143.4 to -145.4	1.1 to 0.1	-1.4 to -3.4	-11.4 to -13.4			
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 U	1.7 U	1.7 U	6 U	8.0 UJ	1.8 U	
1,1,2-Trichloroethane	µg/kg	15.2	0.62 U	0.63 U	0.65 U	0.65 U	6 U	3.1 UJ	0.69 U	
1,1-Dichloroethene	µg/kg	1.13	1 U	1 U	1.1 U	1.1 U	6 U	5.1 UJ	1.1 U	
Carbon tetrachloride	µg/kg	1.93	1 U	1.1 U	1.1 U	1.1 U	6 U	5.2 UJ	1.1 U	
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.9 U	2.0 U	2.0 U	9.2	9.3 UJ	2.1 U	
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	1.4 U	1.5 U	1.5 U	6 U	330 J	16 J	
Methylene chloride	µg/kg	475	12	11	6.2 U	6.2 U	6 U	370 J	6.6 U	
Tetrachloroethene	µg/kg	4.88	0.69 U	0.71 U	0.74 U	0.73 U		14000 J	160000 J	5.2 J
trans-1,2-Dichloroethene	µg/kg	3247	1.7 U	1.8 U	1.8 U	1.8 U	6 U	8.7 UJ	16 J	
Trichloroethene	µg/kg	30.8	0.91 U	0.94 U	0.97 U	0.97 U		170 J	6800 J	37 J
Vinyl chloride	µg/kg	0.73	2.1 U	2.2 U	2.3 U	2.3 U	6 U	11 UJ	2800 J	
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	370 U	-	-	
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	54000	-	-	
Pentachlorophenol	µg/kg	6.94	-	-	-	-	750 U	-	-	
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	
Chromium	µg/kg	714	-	-	-	-	-	-	-	
Copper	µg/kg	53.5	-	-	-	-	-	-	-	
Lead	µg/kg	81002	-	-	-	-	-	-	-	
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	
Nickel	µg/kg	535	-	-	-	-	-	-	-	
Thallium	µg/kg	34	-	-	-	-	-	-	-	
Zinc	µg/kg	5045	-	-	-	-	-	-	-	
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		WMUA-8	WMUA-8	WMUA-8	WMUA-8	WMUA-8	WMUA-8	WMUA-8	
Sample ID:		S-100606-ILM-WMUA8-003	S-100606-ILM-WMUA8-004	S-100906-ILM-WMUA8-005	S-100906-ILM-WMUA8-006	S-100906-ILM-WMUA8-007	S-100906-ILM-WMUA8-008	S-100906-ILM-WMUA8-009	
Sample Date:		10/6/2006	10/6/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006	
Sample Depth:		33 to 35 ft bgs	43 to 45 ft bgs	53 to 55 ft bgs	63 to 65 ft bgs	73 to 75 ft bgs	83 to 85 ft bgs	93 to 95 ft bgs	
elev_MLLW		-15.08 to -17.08	-25.08 to -27.08	-35.08 to -37.08	-45.08 to -47.08	-55.08 to -57.08	-65.08 to -67.08	-75.08 to -77.08	
elev_NGVD		-21.4 to -23.4	-31.4 to -33.4	-41.4 to -43.4	-51.4 to -53.4	-61.4 to -63.4	-71.4 to -73.4	-81.4 to -83.4	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 UJ	1.8 UJ	7.7 U	1.5 U	8.2 U	1.6 U	1.7 U
1,1,2-Trichloroethane	µg/kg	15.2	0.62 UJ	0.68 UJ	3.0 U	0.60 U	3.1 U	0.61 U	0.64 U
1,1-Dichloroethene	µg/kg	1.13	2.1 J	1.1 UJ	4.9 U	0.98 U	87	1.0 U	1.1 U
Carbon tetrachloride	µg/kg	1.93	1.0 UJ	1.1 UJ	5.0 U	1.0 U	5.3 U	1.0 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 J	2.0 UJ	8.9 U	1.8 U	9.4 U	1.8 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	94 J	1.7 J	13 J	1.3 U	8900	45	4.4 J
Methylene chloride	µg/kg	475	6.0 UJ	6.5 UJ	28 U	5.7 U	30 U	7.9	6.1 U
Tetrachloroethene	µg/kg	4.88	4.3 J	0.76 UJ	6.8 J	0.67 U	47	0.68 U	0.72 U
trans-1,2-Dichloroethene	µg/kg	3247	3.9 J	1.9 UJ	8.4 U	9.3	840	1.7 U	1.8 U
Trichloroethene	µg/kg	30.8	1300 J	1.0 UJ	4.4 U	0.88 U	88	0.90 U	1.4 J
Vinyl chloride	µg/kg	0.73	13 J	2.4 UJ	10 U	6100	4600	2.1 U	2.3 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUA-8	WMUA-8	WMUA-8	WMUA-8	WMUA-8	WMUA-8	WMUA-9
Sample ID:	S-100906-ILM-WMUA8-010	S-100906-ILM-WMUA8-011	S-100906-ILM-WMUA8-012	S-100906-ILM-WMUA8-013	S-100906-ILM-WMUA8-014	S-100906-ILM-WMUA8-015	S-WMUA9-7.5-9.0
Sample Date:	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006	6/11/2004
Sample Depth:	103 to 105 ft bgs	113 to 115 ft bgs	123 to 125 ft bgs	133 to 135 ft bgs	143 to 145 ft bgs	143 to 145 ft bgs	7.5 to 9 ft bgs
elev_MLLW	-85.08 to -87.08	-95.08 to -97.08	-105.08 to -107.08	-115.08 to -117.08	-125.08 to -127.08	-125.08 to -127.08	10.42 to 8.92
elev_NGVD	-91.4 to -93.4	-101.4 to -103.4	-111.4 to -113.4	-121.4 to -123.4	-131.4 to -133.4	-131.4 to -133.4 (Duplicate)	4.1 to 2.6
Parameters	Units	Cs					
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	µg/kg	4.02	8.0 U	1.7 U	1.7 U	1.7 U	6 U
1,1,2-Trichloroethane	µg/kg	15.2	3.1 U	0.66 U	0.65 U	0.64 U	6 U
1,1-Dichloroethene	µg/kg	1.13	5.1 U	1.1 U	1.1 U	1.1 U	6 U
Carbon tetrachloride	µg/kg	1.93	5.2 U	1.1 U	1.1 U	1.1 U	6 U
Chloroform (Trichloromethane)	µg/kg	160	9.2 U	2.0 J	1.9 U	1.9 U	6 U
cis-1,2-Dichloroethene	µg/kg	NV	270	1.5 U	1.4 U	1.4 U	6 U
Methylene chloride	µg/kg	475	30 U	6.3 U	6.2 U	6.1 U	6 U
Tetrachloroethene	µg/kg	4.88	900	4.0 J	4.1 J	0.73 U	80 J
trans-1,2-Dichloroethene	µg/kg	3247	14 J	1.8 U	1.9 U	1.8 U	6 U
Trichloroethene	µg/kg	30.8	13000 J	170	0.96 U	0.95 U	21 J
Vinyl chloride	µg/kg	0.73	11 U	2.3 U	2.3 U	2.3 U	6 U
Semi-volatile Organic Compounds							
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	410 U
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	410 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	410 J
Metals~Total							
Arsenic	µg/kg	146	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-
PCBs							
Total PCBs	µg/kg	0.053	-	-	-	-	-
Pesticides							
4,4'-DDD	µg/kg	0.043	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUA-9	WMUA-10	WMUA-11	WMUA-11	WMUA-11	WMUA-11	WMUA-11	WMUA-11	
Sample ID:		S-FDWMUA9	S-WMUA10-7.5-9.0	S-WMUA11-JC-002	S-081406-BG-WMUA11-026	S-WMUA11-JC-003	S-080206-LH-WMUA11-001	S-WMUA11-JC-004	S-081406-BG-WMUA11-027	
Sample Date:		6/11/2004	6/11/2004	6/6/2005	8/14/2006	6/6/2005	8/2/2006	6/6/2005	8/14/2006	
Sample Depth:		7.5 to 9 ft bgs	7.5 to 9 ft bgs	7 to 9 ft bgs	15 to 17 ft bgs	17 to 19 ft bgs	17 to 19 ft bgs	23 to 25 ft bgs	25 to 27 ft bgs	
elev_MLLW		10.42 to 8.92	10.42 to 8.92	10.92 to 8.92	2.92 to 0.92	0.92 to -1.08	0.92 to -1.08	-5.08 to -7.08	-7.08 to -9.08	
elev_NGVD		4.1 to 2.6	4.1 to 2.6	4.6 to 2.6	-3.4 to -5.4	-5.4 to -7.4	-5.4 to -7.4	-11.4 to -13.4	-13.4 to -15.4	
		(Duplicate)								
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5 U	5 U	5 U	1.5 U	7 U	1.8 U	6 U	1.5 U
1,1,2-Trichloroethane	µg/kg	15.2	5 U	5 U	5 U	0.33 U	7 U	0.38 U	6 U	0.57 U
1,1-Dichloroethene	µg/kg	1.13	5 U	5 U	5 U	0.92 U	4.4 J	13	6 U	0.94 U
Carbon tetrachloride	µg/kg	1.93	5 U	5 U	5 U	0.97 U	7 U	1.1 U	6 U	0.95 U
Chloroform (Trichloromethane)	µg/kg	160	5 U	5 U	5 U	1.7 U	7.4	2.0 U	6 U	1.7 U
cis-1,2-Dichloroethene	µg/kg	NV	5 U	5 U	5 U	0.27 U	1600	3800	6 U	5.4 J
Methylene chloride	µg/kg	475	5 U	5 U	5 U	5.6 U	62	8.1	6 U	5.4 U
Tetrachloroethene	µg/kg	4.88	27 J	16	33	17	87000	70000	5.7 J	1.2 J
trans-1,2-Dichloroethene	µg/kg	3247	5 U	5 U	5 U	0.41 U	16	78	6 U	1.6 U
Trichloroethene	µg/kg	30.8	5.2 J	5 U	8.8	6.2	31000	24000	5.8 J	3.2 J
Vinyl chloride	µg/kg	0.73	5 U	5 U	5 U	2.0 U	20	27	250	31 J
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	350 U	360 U	1800 U	73 U	-	85 U	-	-
Hexachlorobutadiene	µg/kg	0.702	350 U	260 J	1800 U	63 U	-	73 U	-	-
Pentachlorophenol	µg/kg	6.94	240 J	720 U	4500 U	71 U	-	83 U	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-11</i>	<i>WMUA-11</i>	<i>WMUA-11</i>	<i>WMUA-11</i>	<i>WMUA-11</i>	<i>WMUA-11</i>	<i>WMUA-11</i>
<i>Sample ID:</i>		<i>S-081406-BG-WMUA11-028</i>	<i>S-081406-BG-WMUA11-029</i>	<i>S-081406-BG-WMUA11-030</i>	<i>S-081406-BG-WMUA11-031</i>	<i>S-081406-BG-WMUA11-032</i>	<i>S-081406-BG-WMUA11-033</i>	<i>S-081406-BG-WMUA11-034</i>
<i>Sample Date:</i>		<i>8/14/2006</i>	<i>8/14/2006</i>	<i>8/14/2006</i>	<i>8/14/2006</i>	<i>8/14/2006</i>	<i>8/14/2006</i>	<i>8/14/2006</i>
<i>Sample Depth:</i>		<i>35 to 37 ft bgs</i>	<i>45 to 47 ft bgs</i>	<i>55 to 57 ft bgs</i>	<i>55 to 57 ft bgs</i>	<i>65 to 67 ft bgs</i>	<i>75 to 77 ft bgs</i>	<i>85 to 87 ft bgs</i>
<i>elev_MLLW</i>		<i>-17.08 to -19.08</i>	<i>-27.08 to -29.08</i>	<i>-37.08 to -39.08</i>	<i>-37.08 to -39.08</i>	<i>-47.08 to -49.08</i>	<i>-57.08 to -59.08</i>	<i>-67.08 to -69.08</i>
<i>elev_NGVD</i>		<i>-23.4 to -25.4</i>	<i>-33.4 to -35.4</i>	<i>-43.4 to -45.4</i>	<i>-43.4 to -45.4</i>	<i>-53.4 to -55.4</i>	<i>-63.4 to -65.4</i>	<i>-73.4 to -75.4</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.5 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 UJ
1,1,2-Trichloroethane	µg/kg	15.2	0.59 U	0.61 U	0.63 U	0.62 U	0.63 U	0.61 UJ
1,1-Dichloroethene	µg/kg	1.13	0.98 U	1 U	1 U	1 U	1 U	1 UJ
Carbon tetrachloride	µg/kg	1.93	0.99 U	1 U	1 U	1 U	1.1 U	1 UJ
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.8 UJ
cis-1,2-Dichloroethene	µg/kg	NV	1.4 J	2.9 J	1.4 U	1.4 U	2.1 J	7400
Methylene chloride	µg/kg	475	5.7 U	5.8 U	10	5.9 U	6.0 U	7.7
Tetrachloroethene	µg/kg	4.88	2.7 J	0.68 UJ	0.70 U	0.69 U	0.71 U	0.71 UJ
trans-1,2-Dichloroethene	µg/kg	3247	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	39
Trichloroethene	µg/kg	30.8	4.2 J	0.90 U	0.93 U	0.91 U	0.93 U	0.94 U
Vinyl chloride	µg/kg	0.73	2.1 U	2.1 U	2.2 U	2.2 U	2.4 J	1400
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-11</i>	<i>WMUA-11</i>	<i>WMUA-11</i>	<i>WMUA-11</i>	<i>WMUA-11</i>	<i>WMUA-12</i>	<i>WMUA-12</i>
<i>Sample ID:</i>		<i>S-081406-BG-WMUA11-035</i>	<i>S-081406-BG-WMUA11-036</i>	<i>S-081406-BG-WMUA11-037</i>	<i>S-081406-BG-WMUA11-038</i>	<i>S-081406-BG-WMUA11-039</i>	<i>S-WMUA12-JC-003</i>	<i>S-080206-LH-WMUA12-001</i>
<i>Sample Date:</i>		<i>8/14/2006</i>	<i>8/14/2006</i>	<i>8/14/2006</i>	<i>8/14/2006</i>	<i>8/14/2006</i>	<i>6/6/2005</i>	<i>8/2/2006</i>
<i>Sample Depth:</i>		<i>95 to 97 ft bgs</i>	<i>105 to 107 ft bgs</i>	<i>115 to 117 ft bgs</i>	<i>145 to 147 ft bgs</i>	<i>155 to 157 ft bgs</i>	<i>17 to 19 ft bgs</i>	<i>17 to 19 ft bgs</i>
<i>elev_MLLW</i>		<i>-77.08 to -79.08</i>	<i>-87.08 to -89.08</i>	<i>-97.08 to -99.08</i>	<i>-127.08 to -129.08</i>	<i>-137.08 to -139.08</i>	<i>0.92 to -1.08</i>	<i>0.92 to -1.08</i>
<i>elev_NGVD</i>		<i>-83.4 to -85.4</i>	<i>-93.4 to -95.4</i>	<i>-103.4 to -105.4</i>	<i>-133.4 to -135.4</i>	<i>-143.4 to -145.4</i>	<i>-5.4 to -7.4</i>	<i>-5.4 to -7.4</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 U	1.6 U	1.7 U	1.7 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.62 U	0.61 U	0.62 U	0.65 U	0.65 U	0.36 U
1,1-Dichloroethene	µg/kg	1.13	1 U	1 U	1 U	1.1 U	1.1 U	1.2 J
Carbon tetrachloride	µg/kg	1.93	1 U	1 U	1 U	1.1 U	1.1 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	2.4 J	1.8 U	1.9 U	1.9 U	7 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	66 J	52	1.4 U	1.4 U	12000	1300 J
Methylene chloride	µg/kg	475	29 J	5.8 U	5.9 U	6.2 U	7 U	6.1 U
Tetrachloroethene	µg/kg	4.88	64 J	0.69 U	0.70 U	0.73 U	140000	30000
trans-1,2-Dichloroethene	µg/kg	3247	1.8 U	1.7 U	1.8 U	1.8 U	110	8.0
Trichloroethene	µg/kg	30.8	140 J	0.91 U	0.92 U	0.96 U	81000	20000
Vinyl chloride	µg/kg	0.73	2.2 U	3.5 J	2.2 U	2.3 U	140	97
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	80 U
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	1900
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	78 U
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	WMUA-12	WMUA-12	WMUA-12	WMUA-12	WMUA-13	WMUA-13	WMUA-13	WMUA-13	WMUA-13	WMUA-13	
Sample ID:	S-WMUA12-JC-004	S-080306-LH-WMUA12-002	S-WMUA12-JC-005	S-WMUA12-JC-006	S-WMUA13-JC-002	S-WMUA13-JC-003	S-080306-LH-WMUA13-001	S-WMUA13-JC-004	S-080306-LH-WMUA13-002		
Sample Date:	6/6/2005	8/3/2006	6/6/2005	6/6/2005	6/6/2005	6/6/2005	8/3/2006	6/6/2005	8/3/2006		
Sample Depth:	21 to 23 ft bgs	21 to 23 ft bgs	23 to 25 ft bgs	25 to 27 ft bgs	9 to 11 ft bgs	15 to 16 ft bgs	15 to 16 ft bgs	19 to 20 ft bgs	19 to 20 ft bgs		
elev_MLLW	-3.08 to -5.08	-3.08 to -5.08	-5.08 to -7.08	-7.08 to -9.08	8.92 to 6.92	2.92 to 1.92	2.92 to 1.92	-1.08 to -2.08	-1.08 to -2.08		
elev_NGVD	-9.4 to -11.4	-9.4 to -11.4	-11.4 to -13.4	-13.4 to -15.4	2.6 to 0.6	-3.4 to -4.4	-3.4 to -4.4	-7.4 to -8.4	-7.4 to -8.4		
Parameters	Units	Cs									
Volatile Organic Compounds											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6 U	1.6 U	6 U	6 U	6 U	7 U	1.6 U	8 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	6 U	0.35 U	6 U	6 U	6 U	7 U	0.34 U	8 U	0.36 U
1,1-Dichloroethene	µg/kg	1.13	5.0 J	19	6 U	6 U	6 U	16	5.9 J	9.2	2.4 J
Carbon tetrachloride	µg/kg	1.93	6 U	1 U	6 U	6 U	6 U	7 U	1 U	8 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	6 U	1.8 U	6 U	6 U	6 U	7 U	1.8 U	8 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	6500	30000	6.4	6 U	4.6 J	3900	1600	9200	2400
Methylene chloride	µg/kg	475	6 U	5.9 U	6 U	9.4	6 U	7 U	5.8 U	8 U	6.0 U
Tetrachloroethene	µg/kg	4.88	1500	0.80 J	11	6 U	18	150000	15000	140000	38000
trans-1,2-Dichloroethene	µg/kg	3247	84	1100	13	6 U	6 U	200	75	170	53
Trichloroethene	µg/kg	30.8	60	7.5	3.9 J	6 U	100	60000	11000	53000	13000
Vinyl chloride	µg/kg	0.73	61 U	3700	72	3.3 J	6 U	23	2.1 U	87	2.2 U
Semi-volatile Organic Compounds											
Hexachlorobenzene	µg/kg	0.062	-	78 U	-	-	420 U	-	76 U	-	80 U
Hexachlorobutadiene	µg/kg	0.702	-	67 U	-	-	420 U	-	600	-	740
Pentachlorophenol	µg/kg	6.94	-	76 U	-	-	1100 U	-	74 U	-	77 U
Metals~Total											
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-
PCBs											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-13</i>	<i>WMUA-13</i>	<i>WMUA-14</i>	<i>WMUA-14</i>	<i>WMUA-14</i>	<i>WMUA-14</i>	<i>WMUA-14</i>	<i>WMUA-14</i>	<i>WMUA-14</i>	
<i>Sample ID:</i>		<i>S-WMUA13-JC-005</i>	<i>S-WMUA13-JC-006</i>	<i>S-WMUA14-JS-003</i>	<i>S-WMUA14-JS-004</i>	<i>S-080806-LH-WMUA14-001</i>	<i>S-WMUA14-JS-005</i>	<i>S-080806-LH-WMUA14-002</i>	<i>S-WMUA14-JS-006</i>	<i>S-WMUA14-JS-007</i>	
<i>Sample Date:</i>		6/6/2005	6/6/2005	6/13/2005	6/13/2005	8/8/2006	6/13/2005	8/8/2006	6/13/2005	6/13/2005	
<i>Sample Depth:</i>		23 to 24 ft bgs	26 to 28 ft bgs	10 to 12 ft bgs	18 to 20 ft bgs	18 to 20 ft bgs	21 to 23 ft bgs	21 to 23 ft bgs	33 to 35 ft bgs	43 to 45 ft bgs	
<i>elev_MLLW</i>		-5.08 to -6.08	-8.08 to -10.08	7.92 to 5.92	-0.08 to -2.08	-0.08 to -2.08	-3.08 to -5.08	-3.08 to -5.08	-15.08 to -17.08	-25.08 to -27.08	
<i>elev_NGVD</i>		-11.4 to -12.4	-14.4 to -16.4	1.6 to -0.4	-6.4 to -8.4	-6.4 to -8.4	-9.4 to -11.4	-9.4 to -11.4	-21.4 to -23.4	-31.4 to -33.4	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>									
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	7 U	6 UJ	6 U	7 U	1.7 U	6 U	1.5 U	6 U	6 U
1,1,2-Trichloroethane	µg/kg	15.2	7 U	6 U	6 U	7 U	0.37 U	6 U	0.32 U	6 U	6 U
1,1-Dichloroethene	µg/kg	1.13	47	6 U	6 U	98 J	110	6.4 J	29	1.9 J	6 U
Carbon tetrachloride	µg/kg	1.93	7 U	6 U	6 U	7 U	1.1 U	6 U	0.95 U	6 U	6 U
Chloroform (Trichloromethane)	µg/kg	160	7 U	27	6 U	6.7 J	2.0 U	6 U	1.7 U	3.5 J	6 U
cis-1,2-Dichloroethene	µg/kg	NV	68000	6 U	6 U	18000	61000	900	10000	7900	1100
Methylene chloride	µg/kg	475	7 U	6 U	7.2	5.4 J	6.3 U	11 J	5.4 U	16	15
Tetrachloroethene	µg/kg	4.88	18	6.3	8.6	200000	120000	2600	2800	11	29
trans-1,2-Dichloroethene	µg/kg	3247	2200	6 U	6 U	360 J	990 J	31 J	310 J	19	15
Trichloroethene	µg/kg	30.8	27	6.5	26	230000	230000	4400	15000	64	54
Vinyl chloride	µg/kg	0.73	1800 J	3.8 J	6 U	290 J	200	42 J	130	150	87
<i>Semi-volatile Organic Compounds</i>											
Hexachlorobenzene	µg/kg	0.062	-	-	410 U	-	83 U	-	71 U	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	95 J	-	470	-	61 U	-	-
Pentachlorophenol	µg/kg	6.94	-	-	1000 U	-	81 U	-	70 U	-	-
<i>Metals~Total</i>											
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-
<i>PCBs</i>											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-14</i>	<i>WMUA-14</i>	<i>WMUA-15</i>	<i>WMUA-15</i>	<i>WMUA-15</i>	<i>WMUA-15</i>	<i>WMUA-15</i>	<i>WMUA-15</i>	<i>WMUA-15</i>	<i>WMUA-15</i>	
<i>Sample ID:</i>		<i>S-WMUA14-JS-008</i>	<i>S-WMUA14-JS-009</i>	<i>S-WMUA15-JS-002</i>	<i>S-WMUA15-003</i>	<i>S-080706-LH-WMUA15-001</i>	<i>S-WMUA15-004</i>	<i>S-WMUA15-005</i>	<i>S-080706-LH-WMUA15-002</i>	<i>S-WMUA15-006</i>	<i>S-WMUA15-007</i>	
<i>Sample Date:</i>		6/13/2005	6/13/2005	6/13/2005	6/14/2005	8/7/2006	6/14/2005	6/14/2005	8/7/2006	6/14/2005	6/14/2005	
<i>Sample Depth:</i>		53 to 55 ft bgs	63 to 65 ft bgs	10 to 12 ft bgs	14 to 16 ft bgs	14 to 16 ft bgs	16 to 18 ft bgs	23 to 25 ft bgs	23 to 25 ft bgs	33 to 35 ft bgs	43 to 45 ft bgs	
<i>elev_MLLW</i>		-35.08 to -37.08	-45.08 to -47.08	7.92 to 5.92	3.92 to 1.92	3.92 to 1.92	1.92 to -0.08	-5.08 to -7.08	-5.08 to -7.08	-15.08 to -17.08	-25.08 to -27.08	
<i>elev_NGVD</i>		-41.4 to -43.4	-51.4 to -53.4	1.6 to -0.4	-2.4 to -4.4	-2.4 to -4.4	-4.4 to -6.4	-11.4 to -13.4	-11.4 to -13.4	-21.4 to -23.4	-31.4 to -33.4	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>										
<i>Volatile Organic Compounds</i>												
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6 U	6 U	6 U	7 UJ	1.7 U	6 U	7 U	1.6 U	6 U	7 U
1,1,2-Trichloroethane	µg/kg	15.2	6 UJ	6 U	6 U	7 UJ	0.36 U	6 U	7 U	2.8 J	6 U	7 U
1,1-Dichloroethene	µg/kg	1.13	18 J	6 U	6 U	7 UJ	1.7 J	1.1 J	17	59	2.4 J	1.9 J
Carbon tetrachloride	µg/kg	1.93	6 UJ	6 U	6 U	7 UJ	1.1 U	6 U	7 U	1 U	6 U	7 U
Chloroform (Trichloromethane)	µg/kg	160	6 UJ	3.3 J	26	13 J	1.9 U	6 U	7 U	1.8 U	6 U	7 U
cis-1,2-Dichloroethene	µg/kg	NV	20000	31	18	15 J	1300 J	200	25000	7200	200 J	10.0 J
Methylene chloride	µg/kg	475	6 UJ	12	6 U	63 J	6.1 U	8.6	7.9	5.9 U	6.5 J	4.8 J
Tetrachloroethene	µg/kg	4.88	4.3 J	6.2	2800	390000 J	210000	60000	20000	2900	57000 J	3.2 J
trans-1,2-Dichloroethene	µg/kg	3247	130 J	6 U	6 U	7 UJ	4.9 J	6 U	150	410 J	41 J	7 U
Trichloroethene	µg/kg	30.8	11 J	8.5	58	180 J	38000	17000	38000	8100	3300	27 J
Vinyl chloride	µg/kg	0.73	1000	3.3 J	6 U	7 UJ	2.7 J	6 U	960	900 J	270 J	68 J
<i>Semi-volatile Organic Compounds</i>												
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	81 U	-	-	77 U	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	69 U	-	-	1900	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	79 U	-	-	75 U	-	-
<i>Metals~Total</i>												
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-
<i>PCBs</i>												
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>												
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>WMUA-15</i>		<i>WMUA-15</i>		<i>WMUA-15</i>		<i>WMUA-15</i>		<i>WMUA-15</i>		<i>WMUA-15</i>			
<i>Sample ID:</i>	<i>S-080906-BG-WMUA15-001</i>		<i>S-080906-BG-WMUA15-002</i>		<i>S-080906-BG-WMUA15-003</i>		<i>S-080906-BG-WMUA15-004</i>		<i>S-080906-BG-WMUA15-005</i>		<i>S-080906-BG-WMUA15-006</i>		<i>S-080906-BG-WMUA15-007</i>	
<i>Sample Date:</i>	<i>8/9/2006</i>		<i>8/9/2006</i>		<i>8/9/2006</i>		<i>8/9/2006</i>		<i>8/9/2006</i>		<i>8/9/2006</i>		<i>8/9/2006</i>	
<i>Sample Depth:</i>	<i>45 to 47 ft bgs</i>		<i>55 to 57 ft bgs</i>		<i>65 to 67 ft bgs</i>		<i>75 to 77 ft bgs</i>		<i>85 to 87 ft bgs</i>		<i>95 to 97 ft bgs</i>		<i>105 to 107 ft bgs</i>	
<i>elev_MLLW</i>	<i>-27.08 to -29.08</i>		<i>-37.08 to -39.08</i>		<i>-47.08 to -49.08</i>		<i>-57.08 to -59.08</i>		<i>-67.08 to -69.08</i>		<i>-77.08 to -79.08</i>		<i>-87.08 to -89.08</i>	
<i>elev_NGVD</i>	<i>-33.4 to -35.4</i>		<i>-43.4 to -45.4</i>		<i>-53.4 to -55.4</i>		<i>-63.4 to -65.4</i>		<i>-73.4 to -75.4</i>		<i>-83.4 to -85.4</i>		<i>-93.4 to -95.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>												
<i>Volatile Organic Compounds</i>														
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.63 U	0.64 U	0.64 U	0.64 U	0.62 U	0.61 U	0.61 U	0.60 U	0.60 U	0.62 U	0.62 U	0.62 U
1,1-Dichloroethene	µg/kg	1.13	1 U	1.1 U	1.1 U	1.1 U	1 U	1 U	1 U	0.99 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	µg/kg	1.93	1.1 U	1.1 U	1.1 U	1.1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	21	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Methylene chloride	µg/kg	475	6.0 U	6.1 U	6.1 U	6.1 U	5.9 U	5.8 U	5.8 U	5.8 U	5.8 U	6.4 J	6.4 J	6.4 J
Tetrachloroethene	µg/kg	4.88	2.0 J	0.72 U	0.72 U	0.72 U	0.70 U	0.69 U	0.68 U	0.68 U	0.68 U	0.70 U	0.70 U	0.70 U
trans-1,2-Dichloroethene	µg/kg	3247	7.7	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.8 U
Trichloroethene	µg/kg	30.8	23	0.95 U	0.94 U	0.94 U	0.92 U	0.90 U	0.89 U	0.89 U	0.89 U	0.92 U	0.92 U	0.92 U
Vinyl chloride	µg/kg	0.73	62	880 J	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.2 U	2.2 U	2.2 U
<i>Semi-volatile Organic Compounds</i>														
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	-	-	-
<i>Metals~Total</i>														
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-	-	-
<i>PCBs</i>														
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>														
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-15</i>	<i>WMUA-15</i>	<i>WMUA-15</i>	<i>WMUA-16</i>	<i>WMUA-16</i>	<i>WMUA-16</i>	<i>WMUA-16</i>	<i>WMUA-16</i>	<i>WMUA-16</i>	
<i>Sample ID:</i>		<i>S-080906-BG-WMUA15-008</i>	<i>S-081006-BG-WMUA15-009</i>	<i>S-081006-BG-WMUA15-010</i>	<i>S-WMUA16-002</i>	<i>S-WMUA16-003</i>	<i>S-WMUA16-004</i>	<i>S-WMUA16-005</i>	<i>S-WMUA16-006</i>	<i>S-WMUA16-007</i>	
<i>Sample Date:</i>		<i>8/9/2006</i>	<i>8/10/2006</i>	<i>8/10/2006</i>	<i>6/14/2005</i>	<i>6/14/2005</i>	<i>6/14/2005</i>	<i>6/14/2005</i>	<i>6/14/2005</i>	<i>6/14/2005</i>	
<i>Sample Depth:</i>		<i>115 to 117 ft bgs</i>	<i>125 to 127 ft bgs</i>	<i>135 to 137 ft bgs</i>	<i>9 to 11 ft bgs</i>	<i>13 to 14 ft bgs</i>	<i>18.5 to 20 ft bgs</i>	<i>21 to 23 ft bgs</i>	<i>23 to 25 ft bgs</i>	<i>33.5 to 35 ft bgs</i>	
<i>elev_MLLW</i>		<i>-97.08 to -99.08</i>	<i>-107.08 to -109.08</i>	<i>-117.08 to -119.08</i>	<i>8.92 to 6.92</i>	<i>4.92 to 3.92</i>	<i>-0.58 to -2.08</i>	<i>-3.08 to -5.08</i>	<i>-5.08 to -7.08</i>	<i>-15.58 to -17.08</i>	
<i>elev_NGVD</i>		<i>-103.4 to -105.4</i>	<i>-113.4 to -115.4</i>	<i>-123.4 to -125.4</i>	<i>2.6 to 0.6</i>	<i>-1.4 to -2.4</i>	<i>-6.9 to -8.4</i>	<i>-9.4 to -11.4</i>	<i>-11.4 to -13.4</i>	<i>-21.9 to -23.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>									
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 U	1.7 U	6 U	7 U	7 U	7 U	6 U	7 U
1,1,2-Trichloroethane	µg/kg	15.2	0.61 U	0.62 U	0.64 U	6 U	7 U	7 U	7 U	6 U	7 U
1,1-Dichloroethene	µg/kg	1.13	1 U	1 U	1.1 U	6 U	3.1 J	7 U	7 U	6 U	46 J
Carbon tetrachloride	µg/kg	1.93	1 U	1 U	1.1 U	6 U	7 U	7 U	7 U	6 U	7 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.9 U	1.9 U	6 U	7.6	4.2 J	7 U	7.5 J	7 U
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	1.4 U	1.4 U	6 U	130	60 J	35 J	49 J	25000
Methylene chloride	µg/kg	475	5.9 U	5.9 U	6.1 U	8.0 J	6.4 J	9.9 J	5.3 J	27 J	4.8 J
Tetrachloroethene	µg/kg	4.88	0.69 U	0.70 U	0.72 U	48 J	45000	75000	7.9 J	3.2 J	1.9 J
trans-1,2-Dichloroethene	µg/kg	3247	1.7 U	1.7 U	1.8 U	6 U	7 U	7 U	21 J	5.5 J	220 J
Trichloroethene	µg/kg	30.8	0.91 U	0.92 U	0.95 U	5.7 J	2500	20000	9.1 J	6 U	5.5 J
Vinyl chloride	µg/kg	0.73	2.1 U	2.2 U	2.3 U	6 U	3.6 J	7 U	4700	2400	5400
<i>Semi-volatile Organic Compounds</i>											
Hexachlorobenzene	µg/kg	0.062	-	-	-	420 U	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	420 U	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	1100 U	-	-	-	-	-
<i>Metals~Total</i>											
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-
<i>PCBs</i>											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		WMUA-16	WMUA-16	WMUA-16	WMUA-16	WMUA-16	WMUA-16	WMUA-16	WMUA-16	WMUA-16	WMUA-17	
<i>Sample ID:</i>		S-WMUA16-008	S-WMUA16-JS-009	S-WMUA16-JS-010	S-WMUA16-JS-011	S-WMUA16-JS-012	S-WMUA16-JS-013	S-WMUA16-JS-014	S-WMUA16-JS-015	S-WMUA16-JS-016	S-WMUA17-JS-003	
<i>Sample Date:</i>		6/14/2005	6/15/2005	6/15/2005	6/15/2005	6/15/2005	6/16/2005	6/16/2005	6/16/2005	6/16/2005	6/16/2005	
<i>Sample Depth:</i>		43 to 45 ft bgs	53 to 55 ft bgs	63 to 65 ft bgs	73 to 75 ft bgs	83 to 85 ft bgs	93 to 95 ft bgs	103 to 105 ft bgs	113 to 115 ft bgs	123 to 125 ft bgs	13 to 15 ft bgs	
<i>elev_MLLW</i>		-25.08 to -27.08	-35.08 to -37.08	-45.08 to -47.08	-55.08 to -57.08	-65.08 to -67.08	-75.08 to -77.08	-85.08 to -87.08	-95.08 to -97.08	-105.08 to -107.08	4.92 to 2.92	
<i>elev_NGVD</i>		-31.4 to -33.4	-41.4 to -43.4	-51.4 to -53.4	-61.4 to -63.4	-71.4 to -73.4	-81.4 to -83.4	-91.4 to -93.4	-101.4 to -103.4	-111.4 to -113.4	-1.4 to -3.4	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>										
<i>Volatile Organic Compounds</i>												
1,1,2,2-Tetrachloroethane	µg/kg	4.02	7 U	7 U	7 U	6 U	6 U	7 U	6 U	6.6 J	7 U	6 U
1,1,2-Trichloroethane	µg/kg	15.2	7 U	7 U	7 U	6 U	6 U	7 U	6 U	7.1 J	7 U	6 U
1,1-Dichloroethene	µg/kg	1.13	7 U	16 J	5.1 J	5.3 J	6 U	7 U	6 U	4.7 J	7 U	6 U
Carbon tetrachloride	µg/kg	1.93	7 U	7 U	7 U	6 U	6 U	7 U	6 U	7 U	7 U	6 U
Chloroform (Trichloromethane)	µg/kg	160	4.1 J	10 J	7 U	6 U	6 U	7 U	6 U	7.6 J	7 U	4.7 J
cis-1,2-Dichloroethene	µg/kg	NV	17 J	7400	1300	1400	6.8 J	7 U	6 U	3000	7 U	91
Methylene chloride	µg/kg	475	16 J	9.9 J	4.4 J	8.0 J	4.0 J	11 J	15 J	25 J	6.7 J	18
Tetrachloroethene	µg/kg	4.88	1.3 J	7 U	7 U	6 U	6 U	7 U	6 U	17000	7 U	520
trans-1,2-Dichloroethene	µg/kg	3247	46 J	240 J	28 J	43 J	44 J	7 U	6 U	140 J	7 U	6 U
Trichloroethene	µg/kg	30.8	7 U	7 U	7 U	6 U	6 U	7 U	6 U	2100	7 U	100
Vinyl chloride	µg/kg	0.73	4800	1200	1000	1100	6 U	7 U	6 U	2100	7 U	8.0
<i>Semi-volatile Organic Compounds</i>												
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-	-	420 U
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-	420 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	1100 U
<i>Metals~Total</i>												
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-
<i>PCBs</i>												
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>												
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-17</i>	<i>WMUA-17</i>	<i>WMUA-17</i>	<i>WMUA-17</i>	<i>WMUA-17</i>	<i>WMUA-17</i>	<i>WMUA-17</i>	<i>WMUA-17</i>	<i>WMUA-17</i>	<i>WMUA-17</i>	
<i>Sample ID:</i>		<i>S-WMUA17-JS-004</i>	<i>S-WMUA17-JS-005</i>	<i>S-WMUA17-JS-006</i>	<i>S-WMUA17-JS-007</i>	<i>S-WMUA17-JS-008</i>	<i>S-WMUA17-JS-009</i>	<i>S-WMUA17-JS-010</i>	<i>S-WMUA17-JS-011</i>	<i>S-WMUA17-JS-012</i>	<i>S-WMUA17-JS-013</i>	
<i>Sample Date:</i>		6/20/2005	6/20/2005	6/20/2005	6/20/2005	6/20/2005	6/20/2005	6/20/2005	6/20/2005	6/21/2005	6/21/2005	
<i>Sample Depth:</i>		18 to 20 ft bgs	23 to 25 ft bgs	26 to 28 ft bgs	33 to 35 ft bgs	43 to 45 ft bgs	52 to 55 ft bgs	60 to 62 ft bgs	73 to 75 ft bgs	83 to 85 ft bgs	93 to 95 ft bgs	
<i>elev_MLLW</i>		-0.08 to -2.08	-5.08 to -7.08	-8.08 to -10.08	-15.08 to -17.08	-25.08 to -27.08	-34.08 to -37.08	-42.08 to -44.08	-55.08 to -57.08	-65.08 to -67.08	-75.08 to -77.08	
<i>elev_NGVD</i>		-6.4 to -8.4	-11.4 to -13.4	-14.4 to -16.4	-21.4 to -23.4	-31.4 to -33.4	-40.4 to -43.4	-48.4 to -50.4	-61.4 to -63.4	-71.4 to -73.4	-81.4 to -83.4	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>										
<i>Volatile Organic Compounds</i>												
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6 U	6 UJ	6 U	7 UJ	6 UJ	7 UJ	6 UJ	7 U	6 UJ	6 UJ
1,1,2-Trichloroethane	µg/kg	15.2	6 U	6 U	6 U	7 U	6 U	7 U	7.8 J	7 U	6 U	6 U
1,1-Dichloroethene	µg/kg	1.13	6 U	6 U	2.2 J	2.1 J	1.2 J	7.4 J	17 J	1.0 J	2.1 J	1.7 J
Carbon tetrachloride	µg/kg	1.93	6 U	6 U	6 U	7 U	6 U	7 U	6 U	7 U	6 U	6 U
Chloroform (Trichloromethane)	µg/kg	160	31	21 J	6 U	19 J	20 J	22 J	120 J	120	28 J	15 J
cis-1,2-Dichloroethene	µg/kg	NV	360	370 J	900	310 J	3800	27000	490	7300 J	11000 J	
Methylene chloride	µg/kg	475	280	57 J	5.4 J	50 J	51 J	55 J	66 J	260	74 J	400 J
Tetrachloroethene	µg/kg	4.88	300	3.5 J	1.0 J	3.7 J	2.4 J	2.0 J	4.8 J	36	2.8 J	2.4 J
trans-1,2-Dichloroethene	µg/kg	3247	6.2	26 J	17	19 J	28 J	200 J	240 J	7.9	23 J	31 J
Trichloroethene	µg/kg	30.8	270	3.6 J	6 U	5.3 J	6 U	7 U	4200	220	35 J	4.1 J
Vinyl chloride	µg/kg	0.73	3.0 J	220 J	250 J	300 J	850 J	4200 J	1500 J	27	35 J	6 U
<i>Semi-volatile Organic Compounds</i>												
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-	-
<i>Metals~Total</i>												
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-	-
<i>PCBs</i>												
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-	-
<i>Pesticides</i>												
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-17</i>	<i>WMUA-17</i>	<i>WMUA-18</i>	<i>WMUA-18</i>	<i>WMUA-18</i>	<i>WMUA-18</i>	<i>WMUA-18</i>	<i>WMUA-18</i>	<i>WMUA-18</i>	
<i>Sample ID:</i>		<i>S-WMUA17-JS-014</i>	<i>S-WMUA17-JS-015</i>	<i>S-WMUA18-JS-002</i>	<i>S-WMUA18-JS-003</i>	<i>S-WMUA18-JS-004</i>	<i>S-080406-LH-WMUA18-001</i>	<i>S-WMUA18-JS-005</i>	<i>S-WMUA18-JS-006</i>	<i>S-WMUA18-JS-007</i>	
<i>Sample Date:</i>		6/22/2005	6/22/2005	6/7/2005	6/7/2005	6/7/2005	8/4/2006	6/7/2005	6/7/2005	6/7/2005	
<i>Sample Depth:</i>		103 to 105 ft bgs	113 to 115 ft bgs	11 to 12 ft bgs	13 to 15 ft bgs	13 to 15 ft bgs	13 to 15 ft bgs	18 to 20 ft bgs	22 to 24 ft bgs	26 to 28 ft bgs	
<i>elev_MLLW</i>		-85.08 to -87.08	-95.08 to -97.08	6.92 to 5.92	4.92 to 2.92	4.92 to 2.92	4.92 to 2.92	-0.08 to -2.08	-4.08 to -6.08	-8.08 to -10.08	
<i>elev_NGVD</i>		-91.4 to -93.4	-101.4 to -103.4	0.6 to -0.4	-1.4 to -3.4	-1.4 to -3.4	-1.4 to -3.4	-6.4 to -8.4	-10.4 to -12.4	-14.4 to -16.4	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>									
Volatile Organic Compounds											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6 UJ	7 UJ	6 UJ	R	R	1.6 U	R	6 UJ	6 UJ
1,1,2-Trichloroethane	µg/kg	15.2	6 UJ	7 U	6 U	R	7 UJ	0.34 U	7 U	6 U	6 U
1,1-Dichloroethene	µg/kg	1.13	1.7 J	7 U	6 U	7.1 J	7 UJ	0.95 U	7 U	6 U	6 U
Carbon tetrachloride	µg/kg	1.93	6 UJ	7 U	6 U	R	7 UJ	1 U	7 U	6 U	6 U
Chloroform (Trichloromethane)	µg/kg	160	17000	21	43	3.3 J	80 J	1.8 U	57 J	43	36
cis-1,2-Dichloroethene	µg/kg	NV	520	26	11	1500	2200 J	66	150 J	170	85
Methylene chloride	µg/kg	475	670	89	150	4.2 J	190 J	5.7 U	190 J	130	120
Tetrachloroethene	µg/kg	4.88	86 J	1.7 J	4.3 J	4000 J	24000 J	74	2200 J	3500	5700
trans-1,2-Dichloroethene	µg/kg	3247	9.9 J	7 U	6 U	25 J	5.3 J	1.3 J	5.4 J	6 U	6 U
Trichloroethene	µg/kg	30.8	15000	7 U	4.9 J	3100 J	9200 J	26	260 J	2700	3400
Vinyl chloride	µg/kg	0.73	5.6 J	7 U	6 U	98 J	3.8 J	330 J	3.8 J	21	6.1
Semi-volatile Organic Compounds											
Hexachlorobenzene	µg/kg	0.062	-	-	410 U	-	-	75 UJ	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	410 U	-	-	65 UJ	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	1000 U	-	-	73 U	-	-	-
Metals~Total											
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-
PCBs											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:		WMUA-18	WMUA-18	WMUA-18	WMUA-18	WMUA-18	WMUA-18	WMUA-18	WMUA-18	WMUA-18	
Sample ID:		S-080706-LH-WMUA18-004	S-080706-LH-WMUA18-005	S-WMUA18-JS-008	S-WMUA18-JS-009	S-080406-LH-WMUA18-002	S-WMUA18-JS-010	S-WMUA18-JS-011	S-WMUA18-JS-012	S-WMUA18-JS-013	
Sample Date:		8/7/2006	8/7/2006	6/7/2005	6/8/2005	8/4/2006	6/8/2005	6/8/2005	6/8/2005	6/9/2005	
Sample Depth:		26 to 28 ft bgs	26 to 28 ft bgs	31 to 32 ft bgs	38 to 40 ft bgs	38 to 40 ft bgs	46 to 47 ft bgs	55 to 56 ft bgs	62 to 64 ft bgs	72 to 74 ft bgs	
elev_MLLW		-8.08 to -10.08	-8.08 to -10.08	-13.08 to -14.08	-20.08 to -22.08	-20.08 to -22.08	-28.08 to -29.08	-37.08 to -38.08	-44.08 to -46.08	-54.08 to -56.08	
elev_NGVD		-14.4 to -16.4	-14.4 to -16.4	-19.4 to -20.4	-26.4 to -28.4	-26.4 to -28.4	-34.4 to -35.4	-43.4 to -44.4	-50.4 to -52.4	-60.4 to -62.4	
			(Duplicate)								
Parameters	Units	Cs									
Volatile Organic Compounds											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	38 U	21 J	140	25	6 UJ	6 U	6 U	170 U
1,1,2-Trichloroethane	µg/kg	15.2	1.3 J	8.3 U	6.6 J	3.6 J	11	6 UJ	5.8 J	6 U	170 U
1,1-Dichloroethene	µg/kg	1.13	9.4	24 U	14 J	3.4 J	83	6 UJ	28	19	170 U
Carbon tetrachloride	µg/kg	1.93	1 U	25 U	R	6 U	1.1 U	6 UJ	6 U	6 U	170 U
Chloroform (Trichloromethane)	µg/kg	160	6.2	44 U	150 J	150	190	16 J	330	490	2500
cis-1,2-Dichloroethene	µg/kg	NV	6500	7100	1600	970	5400	36 J	4100	1100	8700
Methylene chloride	µg/kg	475	5.7 U	140 UJ	17 J	12	6.3 U	57 J	6 U	200	640
Tetrachloroethene	µg/kg	4.88	8700 J	40000 J	9700	70000	61000	61 J	39	120	35000
trans-1,2-Dichloroethene	µg/kg	3247	44	100 J	26 J	5.8 J	230	6 UJ	95	50	190
Trichloroethene	µg/kg	30.8	7200	18000	12000	18000	49000	170 J	13000 J	20000 J	83000 J
Vinyl chloride	µg/kg	0.73	560	190 J	250 J	22	3200 J	2.6 J	240 J	82	140 J
Semi-volatile Organic Compounds											
Hexachlorobenzene	µg/kg	0.062	75 U	75 U	-	-	83 U	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	240 J	370 J	-	-	71 U	-	-	-	-
Pentachlorophenol	µg/kg	6.94	73 U	73 U	-	-	80 U	-	-	-	-
Metals~Total											
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-
PCBs											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	WMUA-18	WMUA-18	WMUA-18	WMUA-18	WMUA-18	WMUA-19	WMUA-19	WMUA-19	WMUA-19		
Sample ID:	S-080406-LH-WMUA18-003	S-WMUA18-JS-014	S-WMUA18-JS-015	S-WMUA18-JS-016	S-WMUA18-JS-017	S-WMUA19-JS-002	S-WMUA19-JS-003	S-080306-LH-WMUA19-001	S-WMUA19-JS-004		
Sample Date:	8/4/2006	6/9/2005	6/9/2005	6/10/2005	6/10/2005	6/7/2005	6/7/2005	8/3/2006	6/7/2005		
Sample Depth:	72 to 74 ft bgs	82 to 84 ft bgs	92 to 94 ft bgs	102 to 104 ft bgs	106 to 108 ft bgs	9 to 11 ft bgs	18 to 20 ft bgs	18 to 20 ft bgs	20 to 21 ft bgs		
elev_MLLW	-54.08 to -56.08	-64.08 to -66.08	-74.08 to -76.08	-84.08 to -86.08	-88.08 to -90.08	8.92 to 6.92	-0.08 to -2.08	-0.08 to -2.08	-2.08 to -3.08		
elev_NGVD	-60.4 to -62.4	-70.4 to -72.4	-80.4 to -82.4	-90.4 to -92.4	-94.4 to -96.4	2.6 to 0.6	-6.4 to -8.4	-6.4 to -8.4	-8.4 to -9.4		
Parameters	Units	Cs									
Volatile Organic Compounds											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	7 U	170 U	6 U	7 U	6 U	7 U	1.6 U	6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.34 U	7 U	170 U	3.8 J	7 U	6 U	7 U	0.35 U	6 U
1,1-Dichloroethene	µg/kg	1.13	37	2.0 J	160 J	19	2.0 J	6 U	7 U	17	3.5 J
Carbon tetrachloride	µg/kg	1.93	1 U	7 UJ	170 U	6 U	7 U	6 U	7 U	1 U	6 U
Chloroform (Trichloromethane)	µg/kg	160	1400 J	13 J	380	2300	7 U	28	38	13	31
cis-1,2-Dichloroethene	µg/kg	NV	8000 J	550 J	57000 J	31000	74	6 U	70	1200	170
Methylene chloride	µg/kg	475	1300 J	66 J	10000	7200	5.5 J	110	170	5.9 U	150
Tetrachloroethene	µg/kg	4.88	33000 J	6.3 J	650	9500	8.8	11	43000	12000	350
trans-1,2-Dichloroethene	µg/kg	3247	87	15 J	510	200	7 U	6 U	7 U	32	3.8 J
Trichloroethene	µg/kg	30.8	64000 J	5.4 J	8100	9700	75	5.9 J	22000	9900	570
Vinyl chloride	µg/kg	0.73	300 J	170 J	2300 J	4.9 J	7 U	6 U	4.1 J	140	35
Semi-volatile Organic Compounds											
Hexachlorobenzene	µg/kg	0.062	77 U	-	-	-	-	390 U	-	78 U	-
Hexachlorobutadiene	µg/kg	0.702	1400	-	-	-	-	390 U	-	67 U	-
Pentachlorophenol	µg/kg	6.94	75 U	-	-	-	-	980 U	-	76 U	-
Metals~Total											
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-
PCBs											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-19</i>	<i>WMUA-20</i>	<i>WMUA-20</i>	<i>WMUA-20</i>	<i>WMUA-20</i>	<i>WMUA-20</i>	<i>WMUA-20</i>
<i>Sample ID:</i>		<i>S-WMUA19-JS-005</i>	<i>S-071706-LH-WMUA20-001</i>	<i>S-071706-LH-WMUA20-002</i>	<i>S-071706-LH-WMUA20-003</i>	<i>S-071706-LH-WMUA20-004</i>	<i>S-071706-LH-WMUA20-005</i>	<i>S-071706-LH-WMUA20-006</i>
<i>Sample Date:</i>		<i>6/7/2005</i>	<i>7/17/2006</i>	<i>7/17/2006</i>	<i>7/17/2006</i>	<i>7/17/2006</i>	<i>7/17/2006</i>	<i>7/17/2006</i>
<i>Sample Depth:</i>		<i>24 to 26 ft bgs</i>	<i>4 to 6 ft bgs</i>	<i>7 to 9 ft bgs</i>	<i>15 to 17 ft bgs</i>	<i>24 to 27 ft bgs</i>	<i>24 to 27 ft bgs</i>	<i>32 to 34 ft bgs</i>
<i>elev_MLLW</i>		<i>-6.08 to -8.08</i>	<i>13.92 to 11.92</i>	<i>10.92 to 8.92</i>	<i>2.92 to 0.92</i>	<i>-6.08 to -9.08</i>	<i>-6.08 to -9.08</i>	<i>-14.08 to -16.08</i>
<i>elev_NGVD</i>		<i>-12.4 to -14.4</i>	<i>7.6 to 5.6</i>	<i>4.6 to 2.6</i>	<i>-3.4 to -5.4</i>	<i>-12.4 to -15.4</i>	<i>-12.4 to -15.4</i> (Duplicate)	<i>-20.4 to -22.4</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	R	1.5 U	1.6 U	1.6 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	7 U	0.33 U	0.34 U	0.63 U	0.61 U	0.62 U
1,1-Dichloroethene	µg/kg	1.13	7 U	0.94 U	0.97 U	1 U	4.9 J	3.4 J
Carbon tetrachloride	µg/kg	1.93	7 U	0.99 U	1 U	1.1 U	1 U	1 U
Chloroform (Trichloromethane)	µg/kg	160	42	2.2 J	1.8 U	1.9 U	1.8 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	7 U	1.4 U	24	6100	900	2600
Methylene chloride	µg/kg	475	130	5.7 U	5.8 U	6.0 U	5.8 U	5.9 U
Tetrachloroethene	µg/kg	4.88	8.5 J	1300	3100	63000	9.0	8.4
trans-1,2-Dichloroethene	µg/kg	3247	7 U	0.42 U	0.43 U	7.6	100	84
Trichloroethene	µg/kg	30.8	11	5.8 U	19	27000	46	41
Vinyl chloride	µg/kg	0.73	7 U	2.1 U	2.1 U	2.2 U	1500	1200
								9.7
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	75 U	77 U	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	640	980	-	-	-
Pentachlorophenol	µg/kg	6.94	-	73 U	75 U	-	-	-
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-20</i>	<i>WMUA-20</i>	<i>WMUA-20</i>	<i>WMUA-20</i>	<i>WMUA-20</i>	<i>WMUA-21</i>	<i>WMUA-21</i>
<i>Sample ID:</i>		<i>S-071706-LH-WMUA20-007</i>	<i>S-071706-LH-WMUA20-008</i>	<i>S-071706-LH-WMUA20-009</i>	<i>S-071706-LH-WMUA20-010</i>	<i>S-071706-LH-WMUA20-011</i>	<i>S-071806-LH-WMUA21-002</i>	<i>S-071806-LH-WMUA21-003</i>
<i>Sample Date:</i>		<i>7/17/2006</i>	<i>7/17/2006</i>	<i>7/17/2006</i>	<i>7/17/2006</i>	<i>7/17/2006</i>	<i>7/18/2006</i>	<i>7/18/2006</i>
<i>Sample Depth:</i>		<i>44 to 46 ft bgs</i>	<i>53 to 55 ft bgs</i>	<i>63 to 65 ft bgs</i>	<i>83 to 85 ft bgs</i>	<i>93 to 95 ft bgs</i>	<i>6 to 8 ft bgs</i>	<i>15 to 17 ft bgs</i>
<i>elev_MLLW</i>		<i>-26.08 to -28.08</i>	<i>-35.08 to -37.08</i>	<i>-45.08 to -47.08</i>	<i>-65.08 to -67.08</i>	<i>-75.08 to -77.08</i>	<i>11.92 to 9.92</i>	<i>2.92 to 0.92</i>
<i>elev_NGVD</i>		<i>-32.4 to -34.4</i>	<i>-41.4 to -43.4</i>	<i>-51.4 to -53.4</i>	<i>-71.4 to -73.4</i>	<i>-81.4 to -83.4</i>	<i>5.6 to 3.6</i>	<i>-3.4 to -5.4</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 UJ	1.6 U	1.6 U	1.5 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.63 UJ	0.64 U	0.62 U	0.60 U	0.62 U	0.63 U
1,1-Dichloroethene	µg/kg	1.13	1 U	1 U	1 U	0.98 U	1 U	0.96 U
Carbon tetrachloride	µg/kg	1.93	1.1 UJ	1.1 U	1 U	1 U	1 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 UJ	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	8.3 J	2.8 J	3.3 J	71	2.2 J	8.8
Methylene chloride	µg/kg	475	7.4 J	6.1 U	5.9 U	5.7 U	6.8	13
Tetrachloroethene	µg/kg	4.88	3.7 J	1.6 J	2.0 J	48	0.69 U	7000
trans-1,2-Dichloroethene	µg/kg	3247	1.8 UJ	1.8 U	1.8 U	13	1.7 U	2.4 J
Trichloroethene	µg/kg	30.8	4.5 J	1.8 J	2.3 J	43	0.91 U	45
Vinyl chloride	µg/kg	0.73	2.2 UJ	2.2 U	23	49	2.2 U	2.1 U
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	77 U
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	1100
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	75 U
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-21</i>	<i>WMUA-21</i>	<i>WMUA-21</i>	<i>WMUA-21</i>	<i>WMUA-21</i>	<i>WMUA-21</i>	<i>WMUA-21</i>
<i>Sample ID:</i>		<i>S-071806-LH-WMUA21-004</i>	<i>S-071806-LH-WMUA21-005</i>	<i>S-071806-LH-WMUA21-006</i>	<i>S-071806-LH-WMUA21-007</i>	<i>S-071806-LH-WMUA21-008</i>	<i>S-071806-LH-WMUA21-009</i>	<i>S-071806-LH-WMUA21-010</i>
<i>Sample Date:</i>		<i>7/18/2006</i>	<i>7/18/2006</i>	<i>7/18/2006</i>	<i>7/18/2006</i>	<i>7/18/2006</i>	<i>7/18/2006</i>	<i>7/18/2006</i>
<i>Sample Depth:</i>		<i>24 to 26 ft bgs</i>	<i>31 to 33 ft bgs</i>	<i>41 to 43 ft bgs</i>	<i>51 to 53 ft bgs</i>	<i>61 to 63 ft bgs</i>	<i>68 to 70 ft bgs</i>	<i>84 to 86 ft bgs</i>
<i>elev_MLLW</i>		<i>-6.08 to -8.08</i>	<i>-13.08 to -15.08</i>	<i>-23.08 to -25.08</i>	<i>-33.08 to -35.08</i>	<i>-43.08 to -45.08</i>	<i>-50.08 to -52.08</i>	<i>-66.08 to -68.08</i>
<i>elev_NGVD</i>		<i>-12.4 to -14.4</i>	<i>-19.4 to -21.4</i>	<i>-29.4 to -31.4</i>	<i>-39.4 to -41.4</i>	<i>-49.4 to -51.4</i>	<i>-56.4 to -58.4</i>	<i>-72.4 to -74.4</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.5 U	1.6 U	1.6 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.61 U	0.60 U	0.62 U	0.62 U	0.61 U	0.63 U
1,1-Dichloroethene	µg/kg	1.13	12	0.98 U	1 U	5.8 J	1 U	0.99 U
Carbon tetrachloride	µg/kg	1.93	1 U	0.99 U	1 U	1 U	1 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	1800	3.5 J	21	85	1.4 U	6.2
Methylene chloride	µg/kg	475	14	5.7 U	11	7.5	5.8 U	5.8 U
Tetrachloroethene	µg/kg	4.88	3500	170	1.4 J	15	0.69 U	12
trans-1,2-Dichloroethene	µg/kg	3247	69	1.7 J	3.6 J	10	1.7 U	1.7 U
Trichloroethene	µg/kg	30.8	950	7.4	5.3 J	180	0.90 U	37
Vinyl chloride	µg/kg	0.73	2400	68	11	1300	2.1 U	5.0 J
								940
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	WMUA-21	WMUA-21	WMUA-21	WMUA-21	WMUA-21	WMUA-21	WMUA-21	WMUA-22	
Sample ID:	S-071806-LH-WMUA21-011	S-071806-LH-WMUA21-012	S-071806-LH-WMUA21-013	S-071806-LH-WMUA21-014	S-071806-LH-WMUA21-015	S-071806-LH-WMUA21-016	S-071406-DR-WMUA22-002		
Sample Date:	7/18/2006	7/18/2006	7/18/2006	7/18/2006	7/18/2006	7/18/2006	7/14/2006		
Sample Depth:	93 to 95 ft bgs	106 to 108 ft bgs	113 to 115 ft bgs	123 to 125 ft bgs	133 to 135 ft bgs	143 to 145 ft bgs	4 to 6 ft bgs		
elev_MLLW	-75.08 to -77.08	-88.08 to -90.08	-95.08 to -97.08	-105.08 to -107.08	-115.08 to -117.08	-125.08 to -127.08	13.92 to 11.92		
elev_NGVD	-81.4 to -83.4	-94.4 to -96.4	-101.4 to -103.4	-111.4 to -113.4	-121.4 to -123.4	-131.4 to -133.4	7.6 to 5.6		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.7 U	1.5 U	1.6 U	1.7 U	1.7 U	1.3 U
1,1,2-Trichloroethane	µg/kg	15.2	0.62 U	0.66 U	0.60 U	0.64 U	0.65 U	0.65 U	0.28 U
1,1-Dichloroethene	µg/kg	1.13	2.3 J	10 J	0.98 U	1.1 U	1.1 U	1.1 U	0.80 U
Carbon tetrachloride	µg/kg	1.93	1 U	1.1 U	0.99 U	1.1 U	1.1 U	1.1 U	0.84 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.5 U
cis-1,2-Dichloroethene	µg/kg	NV	46	1400	1.3 U	1.4 U	1.4 U	1.4 U	0.23 U
Methylene chloride	µg/kg	475	6.0 U	6.3 U	5.7 U	6.1 U	6.2 U	6.2 U	4.8 U
Tetrachloroethene	µg/kg	4.88	150	76 J	0.67 U	0.72 U	0.73 U	0.73 U	4.0 J
trans-1,2-Dichloroethene	µg/kg	3247	7.8	69 J	1.7 U	1.8 U	1.8 U	1.8 U	0.36 U
Trichloroethene	µg/kg	30.8	12000	22000	3.4 J	0.94 U	0.96 U	0.96 U	1.6 J
Vinyl chloride	µg/kg	0.73	2.2 U	2.3 U	2.1 U	2.2 U	2.3 U	2.3 U	1.8 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	64 U
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	55 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	62 U
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		WMUA-22	WMUA-22	WMUA-22	WMUA-22	WMUA-22	WMUA-22	WMUA-22
Sample ID:		S-071406-DR-WMUA22-003	S-071406-DR-WMUA22-004	S-071406-DR-WMUA22-005	S-071406-DR-WMUA22-006	S-071406-DR-WMUA22-007	S-071406-DR-WMUA22-008	S-071406-DR-WMUA22-009
Sample Date:		7/14/2006	7/14/2006	7/14/2006	7/14/2006	7/14/2006	7/14/2006	7/14/2006
Sample Depth:		14 to 16 ft bgs	23 to 25 ft bgs	33 to 35 ft bgs	42 to 44 ft bgs	52 to 54 ft bgs	63 to 65 ft bgs	74 to 76 ft bgs
elev_MLLW		3.92 to 1.92	-5.08 to -7.08	-15.08 to -17.08	-24.08 to -26.08	-34.08 to -36.08	-45.08 to -47.08	-56.08 to -58.08
elev_NGVD		-2.4 to -4.4	-11.4 to -13.4	-21.4 to -23.4	-30.4 to -32.4	-40.4 to -42.4	-51.4 to -53.4	-62.4 to -64.4
Parameters	Units	Cs						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 U	1.6 U	1.7 U	1.7 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.60 U	0.60 U	3.0 J	2.8 J	0.65 U	0.62 U
1,1-Dichloroethene	µg/kg	1.13	0.99 U	0.99 U	8.8	26 J	14 J	1 U
Carbon tetrachloride	µg/kg	1.93	1 U	1 U	1.1 U	1.1 U	1.1 U	1 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	5.8 J	130 J	1600	760	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	1.8 J	86	130 J	8000	110 J	1.4 U
Methylene chloride	µg/kg	475	5.8 U	5.8 U	6.0 U	39 J	220 J	6.0 U
Tetrachloroethene	µg/kg	4.88	7.9 J	2.1 J	14 J	7.9 J	4700	0.70 U
trans-1,2-Dichloroethene	µg/kg	3247	1.7 U	3.7 J	22	180 J	15 J	1.8 U
Trichloroethene	µg/kg	30.8	3.2 J	43	320 J	18000	17000	1.1 J
Vinyl chloride	µg/kg	0.73	2.1 U	2.8 J	R	210 J	25 J	50
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
Metals~Total								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
PCBs								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
Pesticides								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUA-22	WMUA-22	WMUA-22	WMUA-22	WMUA-22	WMUA-22	WMUA-22	WMUA-23	
Sample ID:	S-071406-DR-WMUA22-010	S-071406-DR-WMUA22-011	S-071406-DR-WMUA22-012	S-071406-DR-WMUA22-013	S-071406-DR-WMUA22-014	S-071406-DR-WMUA22-015	S-071106-DR-WMUA23-002		
Sample Date:	7/14/2006	7/14/2006	7/14/2006	7/14/2006	7/14/2006	7/14/2006	7/11/2006		
Sample Depth:	82 to 84 ft bgs	90 to 92 ft bgs	103 to 105 ft bgs	112 to 115 ft bgs	122 to 124 ft bgs	132 to 134 ft bgs	6 to 8 ft bgs		
elev_MLLW	-64.08 to -66.08	-72.08 to -74.08	-85.08 to -87.08	-94.08 to -97.08	-104.08 to -106.08	-114.08 to -116.08	11.92 to 9.92		
elev_NGVD	-70.4 to -72.4	-78.4 to -80.4	-91.4 to -93.4	-100.4 to -103.4	-110.4 to -112.4	-120.4 to -122.4	5.6 to 3.6		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.7 U	1.7 U	8.0 U	1.6 U	1.6 U	15 U	1.4 U
1,1,2-Trichloroethane	µg/kg	15.2	0.65 U	0.64 U	3.1 U	0.63 U	0.61 U	5.8 U	0.31 U
1,1-Dichloroethene	µg/kg	1.13	22 J	7.3 J	5.1 U	1 U	1 U	9.6 U	0.88 U
Carbon tetrachloride	µg/kg	1.93	1.1 U	1.1 U	5.2 U	1.1 U	1 U	9.7 U	0.92 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	1.9 U	9.2 U	1.9 U	1.8 U	17 U	1.6 U
cis-1,2-Dichloroethene	µg/kg	NV	16000	5000	6.9 U	18	1.4 U	13 U	0.25 U
Methylene chloride	µg/kg	475	6.2 U	6.2 U	30 U	6.0 U	5.8 U	55 U	5.3 U
Tetrachloroethene	µg/kg	4.88	0.73 U	0.72 U	3.5 U	200	0.68 U	6.5 U	6.6
trans-1,2-Dichloroethene	µg/kg	3247	540	140 J	8.7 U	1.8 U	1.7 U	16 U	0.39 U
Trichloroethene	µg/kg	30.8	5.1 J	0.95 U	4.6 U	2300 J	0.90 U	8.6 U	4.0 J
Vinyl chloride	µg/kg	0.73	1500	140	11 U	2.2 U	2.1 U	20 U	1.9 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	70 U
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	60 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	68 U
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUA-23	WMUA-23	WMUA-23	WMUA-23	WMUA-23	WMUA-23	WMUA-23	
Sample ID:		S-071106-DR-WMUA23-003	S-071106-DR-WMUA23-004	S-071106-DR-WMUA23-005	S-071106-DR-WMUA23-006	S-071106-DR-WMUA23-007	S-071106-DR-WMUA23-008	S-071106-DR-WMUA23-009	
Sample Date:		7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	7/11/2006	
Sample Depth:		13 to 15 ft bgs	19 to 21 ft bgs	23 to 25 ft bgs	33 to 35 ft bgs	43 to 45 ft bgs	53 to 55 ft bgs	63 to 65 ft bgs	
elev_MLLW		4.92 to 2.92	-1.08 to -3.08	-5.08 to -7.08	-15.08 to -17.08	-25.08 to -27.08	-35.08 to -37.08	-45.08 to -47.08	
elev_NGVD		-1.4 to -3.4	-7.4 to -9.4	-11.4 to -13.4	-21.4 to -23.4	-31.4 to -33.4	-41.4 to -43.4	-51.4 to -53.4	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.4 U	1.6 U	1.6 UJ	1.5 U	1.7 U	1.7 U
1,1,2-Trichloroethane	µg/kg	15.2	0.61 U	0.56 U	0.62 U	0.62 UJ	0.58 U	0.66 U	0.64 U
1,1-Dichloroethene	µg/kg	1.13	1 U	0.92 U	1 U	1 UJ	0.96 U	1.1 U	1.1 U
Carbon tetrachloride	µg/kg	1.93	1 U	0.93 U	1 U	1 UJ	0.97 U	1.1 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.7 U	1.8 U	1.9 UJ	1.7 U	2.0 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	6.4	2.5 J	1.4 U	1.9 J	1.4 J	1.5 U	1.4 U
Methylene chloride	µg/kg	475	5.8 U	5.4 J	20	6.0 UJ	22	10	6.1 U
Tetrachloroethene	µg/kg	4.88	0.68 U	0.63 U	0.69 U	5.6 J	0.66 U	0.74 U	0.72 U
trans-1,2-Dichloroethene	µg/kg	3247	2.8 J	1.6 U	1.7 U	7.6 J	2.7 J	1.9 U	1.8 U
Trichloroethene	µg/kg	30.8	17	6.2	0.91 U	21 J	4.0 J	0.98 U	0.95 U
Vinyl chloride	µg/kg	0.73	8.3	31 J	2.2 UJ	2.2 UJ	2.0 U	2.3 U	4.8 J
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-23</i>	<i>WMUA-23</i>	<i>WMUA-23</i>	<i>WMUA-23</i>	<i>WMUA-23</i>	<i>WMUA-23</i>	<i>WMUA-23</i>	
<i>Sample ID:</i>		<i>S-071106-DR-WMUA23-010</i>	<i>S-071106-DR-WMUA23-011</i>	<i>S-071106-DR-WMUA23-012</i>	<i>S-071106-DR-WMUA23-013</i>	<i>S-071106-DR-WMUA23-014</i>	<i>S-071106-DR-WMUA23-015</i>	<i>S-071106-DR-WMUA23-016</i>	
<i>Sample Date:</i>		<i>7/11/2006</i>	<i>7/11/2006</i>	<i>7/11/2006</i>	<i>7/11/2006</i>	<i>7/11/2006</i>	<i>7/11/2006</i>	<i>7/11/2006</i>	
<i>Sample Depth:</i>		<i>73 to 75 ft bgs</i>	<i>83 to 85 ft bgs</i>	<i>89 to 91 ft bgs</i>	<i>100 to 102 ft bgs</i>	<i>114 to 116 ft bgs</i>	<i>123 to 125 ft bgs</i>	<i>133 to 135 ft bgs</i>	
<i>elev_MLLW</i>		<i>-55.08 to -57.08</i>	<i>-65.08 to -67.08</i>	<i>-71.08 to -73.08</i>	<i>-82.08 to -84.08</i>	<i>-96.08 to -98.08</i>	<i>-105.08 to -107.08</i>	<i>-115.08 to -117.08</i>	
<i>elev_NGVD</i>		<i>-61.4 to -63.4</i>	<i>-71.4 to -73.4</i>	<i>-77.4 to -79.4</i>	<i>-88.4 to -90.4</i>	<i>-102.4 to -104.4</i>	<i>-111.4 to -113.4</i>	<i>-121.4 to -123.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 U	1.6 U	1.6 U	1.5 U	1.5 U	1.7 U
1,1,2-Trichloroethane	µg/kg	15.2	0.61 U	0.63 U	0.61 U	0.64 U	0.58 U	0.57 U	0.65 U
1,1-Dichloroethene	µg/kg	1.13	1 U	1 U	1 U	1.1 U	0.96 U	0.94 U	1.1 U
Carbon tetrachloride	µg/kg	1.93	1 U	1.1 U	1 U	1.1 U	0.97 U	0.95 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.7 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	43	1.4 U	1.4 U	1.3 U	1.3 U	1.4 U
Methylene chloride	µg/kg	475	5.8 U	6.0 U	5.8 U	6.1 U	5.5 U	5.4 U	6.2 U
Tetrachloroethene	µg/kg	4.88	0.68 U	0.71 U	0.68 U	0.72 U	0.65 U	0.64 U	0.73 U
trans-1,2-Dichloroethene	µg/kg	3247	1.7 U	3.9 J	1.7 U	1.8 U	1.6 U	1.6 U	1.8 U
Trichloroethene	µg/kg	30.8	1.7 J	0.94 U	0.94 U	0.94 U	0.86 U	0.84 U	0.96 U
Vinyl chloride	µg/kg	0.73	2.1 U	2.2 U	2.1 U	2.2 U	2.0 U	2.0 U	2.3 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-23</i>	<i>WMUA-24</i>	<i>WMUA-24</i>	<i>WMUA-24</i>	<i>WMUA-24</i>	<i>WMUA-24</i>	<i>WMUA-24</i>
<i>Sample ID:</i>		<i>S-071106-DR-WMUA23-017</i>	<i>S-071206-DR-WMUA24-002</i>	<i>S-071206-DR-WMUA24-003</i>	<i>S-071206-DR-WMUA24-004</i>	<i>S-071206-DR-WMUA24-005</i>	<i>S-071206-DR-WMUA24-006</i>	<i>S-071206-DR-WMUA24-007</i>
<i>Sample Date:</i>		<i>7/11/2006</i>	<i>7/12/2006</i>	<i>7/12/2006</i>	<i>7/12/2006</i>	<i>7/12/2006</i>	<i>7/12/2006</i>	<i>7/12/2006</i>
<i>Sample Depth:</i>		<i>143 to 145 ft bgs</i>	<i>5 to 7 ft bgs</i>	<i>14 to 16 ft bgs</i>	<i>23 to 25 ft bgs</i>	<i>33 to 35 ft bgs</i>	<i>43 to 45 ft bgs</i>	<i>52 to 54 ft bgs</i>
<i>elev_MLLW</i>		<i>-125.08 to -127.08</i>	<i>12.92 to 10.92</i>	<i>3.92 to 1.92</i>	<i>-5.08 to -7.08</i>	<i>-15.08 to -17.08</i>	<i>-25.08 to -27.08</i>	<i>-34.08 to -36.08</i>
<i>elev_NGVD</i>		<i>-131.4 to -133.4</i>	<i>6.6 to 4.6</i>	<i>-2.4 to -4.4</i>	<i>-11.4 to -13.4</i>	<i>-21.4 to -23.4</i>	<i>-31.4 to -33.4</i>	<i>-40.4 to -42.4</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.7 U	1.3 U	1.6 U	1.5 U	1.5 U	1.7 U
1,1,2-Trichloroethane	µg/kg	15.2	0.65 U	0.29 U	0.62 U	0.58 U	0.59 U	0.66 U
1,1-Dichloroethene	µg/kg	1.13	1.1 U	0.81 U	1 U	0.96 U	0.98 U	1.1 U
Carbon tetrachloride	µg/kg	1.93	1.1 U	0.85 U	1 U	0.97 U	0.99 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	1.5 U	1.9 U	1.7 U	1.8 U	2.0 U
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	0.24 U	310	1.3 U	2.1 J	1.5 U
Methylene chloride	µg/kg	475	6.2 U	4.9 U	6.0 U	5.6 U	5.7 U	6.3 U
Tetrachloroethene	µg/kg	4.88	0.73 U	7.4	2.4 J	0.66 U	0.67 U	0.74 U
trans-1,2-Dichloroethene	µg/kg	3247	1.8 U	0.36 U	19	1.6 U	2.4 J	1.8 U
Trichloroethene	µg/kg	30.8	0.96 U	13	48	1.2 J	4.8 J	0.97 U
Vinyl chloride	µg/kg	0.73	2.3 U	1.8 U	4.0 J	6.0	2.1 U	2.3 U
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	64 U	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	55 U	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	63 U	-	-	-	-
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-24</i>	<i>WMUA-24</i>	<i>WMUA-24</i>	<i>WMUA-24</i>	<i>WMUA-24</i>	<i>WMUA-24</i>	<i>WMUA-24</i>
<i>Sample ID:</i>		<i>S-071206-DR-WMUA24-008</i>	<i>S-071206-DR-WMUA24-009</i>	<i>S-071206-DR-WMUA24-010</i>	<i>S-071206-DR-WMUA24-011</i>	<i>S-071206-DR-WMUA24-012</i>	<i>S-071206-DR-WMUA24-013</i>	<i>S-071206-DR-WMUA24-014</i>
<i>Sample Date:</i>		<i>7/12/2006</i>	<i>7/12/2006</i>	<i>7/12/2006</i>	<i>7/12/2006</i>	<i>7/12/2006</i>	<i>7/12/2006</i>	<i>7/12/2006</i>
<i>Sample Depth:</i>		<i>63 to 65 ft bgs</i>	<i>73 to 75 ft bgs</i>	<i>83 to 85 ft bgs</i>	<i>93 to 95 ft bgs</i>	<i>103 to 105 ft bgs</i>	<i>113 to 115 ft bgs</i>	<i>123 to 125 ft bgs</i>
<i>elev_MLLW</i>		<i>-45.08 to -47.08</i>	<i>-55.08 to -57.08</i>	<i>-65.08 to -67.08</i>	<i>-75.08 to -77.08</i>	<i>-85.08 to -87.08</i>	<i>-95.08 to -97.08</i>	<i>-105.08 to -107.08</i>
<i>elev_NGVD</i>		<i>-51.4 to -53.4</i>	<i>-61.4 to -63.4</i>	<i>-71.4 to -73.4</i>	<i>-81.4 to -83.4</i>	<i>-91.4 to -93.4</i>	<i>-101.4 to -103.4</i>	<i>-111.4 to -113.4</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	8.1 UJ	8.1 UJ	1.6 U	1.6 UJ	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	3.1 UJ	3.1 UJ	0.63 U	0.63 UJ	0.60 U	0.62 U
1,1-Dichloroethene	µg/kg	1.13	5.2 UJ	5.2 UJ	1 U	1 UJ	0.99 U	1 U
Carbon tetrachloride	µg/kg	1.93	5.2 UJ	5.2 UJ	1 U	1 UJ	1 U	1 U
Chloroform (Trichloromethane)	µg/kg	160	9.3 UJ	9.3 UJ	1.9 U	1.9 UJ	1.8 U	1.8 U
cis-1,2-Dichloroethene	µg/kg	NV	7.0 UJ	7.0 UJ	18	750	1.3 U	1.4 U
Methylene chloride	µg/kg	475	30 UJ	30 UJ	6.0 U	6.0 UJ	5.7 U	5.9 U
Tetrachloroethene	µg/kg	4.88	3.5 UJ	3.5 UJ	0.70 U	2.1 J	0.67 U	0.69 U
trans-1,2-Dichloroethene	µg/kg	3247	8.8 UJ	8.8 UJ	2.7 J	48 J	1.7 U	1.7 U
Trichloroethene	µg/kg	30.8	4.6 UJ	4.6 UJ	6.7 J	9.6 J	0.89 U	0.91 U
Vinyl chloride	µg/kg	0.73	11 UJ	11 UJ	2.2 U	2.2 UJ	2.1 U	2.2 U
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUA-24	WMUA-24	WMUA-25	WMUA-25	WMUA-25	WMUA-25	WMUA-25	WMUA-25	
Sample ID:	S-071206-DR-WMUA24-015	S-071206-DR-WMUA24-016	S-071306-DR-WMUA25-002	S-071306-LH-WMUA25-002 2nd	S-071306-DR-WMUA25-003	S-071306-LH-WMUA25-003	S-071306-DR-WMUA25-004		
Sample Date:	7/12/2006	7/12/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	
Sample Depth:	133 to 135 ft bgs	143 to 145 ft bgs	5 to 7 ft bgs	5 to 7 ft bgs	13 to 15 ft bgs	13 to 15 ft bgs	23 to 25 ft bgs	23 to 25 ft bgs	
elev_MLLW	-115.08 to -117.08	-125.08 to -127.08	12.92 to 10.92	12.92 to 10.92	4.92 to 2.92	4.92 to 2.92	-5.08 to -7.08	-5.08 to -7.08	
elev_NGVD	-121.4 to -123.4	-131.4 to -133.4	6.6 to 4.6	6.6 to 4.6	-1.4 to -3.4	-1.4 to -3.4	-11.4 to -13.4	-11.4 to -13.4	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	8.3 UJ	1.3 U	1.3 U	1.5 U	1.7 U	1.5 U
1,1,2-Trichloroethane	µg/kg	15.2	0.64 U	3.2 UJ	0.29 U	0.29 U	0.59 U	0.66 U	0.58 U
1,1-Dichloroethene	µg/kg	1.13	1.1 U	5.3 UJ	0.81 U	0.81 U	0.98 U	1.6 J	0.96 U
Carbon tetrachloride	µg/kg	1.93	1.1 U	5.4 UJ	0.85 U	0.85 U	0.99 U	1.1 U	0.97 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	9.6 UJ	1.5 U	1.5 U	1.8 U	2.0 U	1.7 U
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	7.2 UJ	0.23 U	0.23 U	3.1 J	4400	1.3 U
Methylene chloride	µg/kg	475	6.7 J	31 UJ	4.9 J	4.9 U	7.3	6.3 U	5.6 U
Tetrachloroethene	µg/kg	4.88	0.72 U	3.6 UJ	13	20	0.67 U	2.8 J	0.66 U
trans-1,2-Dichloroethene	µg/kg	3247	1.8 U	9.1 UJ	0.36 U	0.36 U	1.7 J	34	1.6 U
Trichloroethene	µg/kg	30.8	0.94 U	4.8 UJ	26	42	5.7 J	23	0.86 U
Vinyl chloride	µg/kg	0.73	2.2 U	11 UJ	1.8 U	1.8 U	2.1 U	3.3 J	2.0 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	64 U	64 U	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	55 U	55 U	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	63 U	63 U	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUA-25	WMUA-25	WMUA-25	WMUA-25	WMUA-25	WMUA-25	WMUA-25
Sample ID:	S-071306-LH-WMUA25-004	S-071306-DR-WMUA25-005	S-071306-DR-WMUA25-006	S-071306-DR-WMUA25-007	S-071306-DR-WMUA25-008	S-071306-DR-WMUA25-009	S-071306-DR-WMUA25-010
Sample Date:	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006
Sample Depth:	23 to 25 ft bgs	34 to 36 ft bgs	43 to 45 ft bgs	53 to 55 ft bgs	62 to 64 ft bgs	73 to 75 ft bgs	80 to 82 ft bgs
elev_MLLW	-5.08 to -7.08	-16.08 to -18.08	-25.08 to -27.08	-35.08 to -37.08	-44.08 to -46.08	-55.08 to -57.08	-62.08 to -64.08
elev_NGVD	-11.4 to -13.4	-22.4 to -24.4	-31.4 to -33.4	-41.4 to -43.4	-50.4 to -52.4	-61.4 to -63.4	-68.4 to -70.4
Parameters	Units	Cs					
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.60 U	0.64 U	0.62 U	0.63 U	0.61 U
1,1-Dichloroethene	µg/kg	1.13	0.99 U	1.1 U	1 U	1 U	1 U
Carbon tetrachloride	µg/kg	1.93	1 U	1.1 U	1 U	1.1 U	1 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	3.6 J	2.1 J	1.4 U	1900 J	1.4 U
Methylene chloride	µg/kg	475	5.7 U	6.1 UJ	5.9 UJ	6.0 UJ	5.8 J
Tetrachloroethene	µg/kg	4.88	0.67 U	0.72 U	0.70 U	0.71 U	0.69 U
trans-1,2-Dichloroethene	µg/kg	3247	40	11 J	1.7 U	1.8 U	31 J
Trichloroethene	µg/kg	30.8	5.2 J	1.6 J	0.91 U	0.93 U	0.90 U
Vinyl chloride	µg/kg	0.73	27	2.2 U	2.2 U	2.1 U	2.2 U
Semi-volatile Organic Compounds							
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-
Metals~Total							
Arsenic	µg/kg	146	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-
PCBs							
Total PCBs	µg/kg	0.053	-	-	-	-	-
Pesticides							
4,4'-DDD	µg/kg	0.043	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-25</i>	<i>WMUA-25</i>	<i>WMUA-25</i>	<i>WMUA-25</i>	<i>WMUA-25</i>	<i>WMUA-25</i>	<i>WMUA-26</i>
<i>Sample ID:</i>		<i>S-071306-DR-WMUA25-011</i>	<i>S-071306-DR-WMUA25-012</i>	<i>S-071306-DR-WMUA25-013</i>	<i>S-071306-DR-WMUA25-014</i>	<i>S-071306-DR-WMUA25-015</i>	<i>S-071306-DR-WMUA25-016</i>	<i>S-071306-DR-WMUA26-003</i>
<i>Sample Date:</i>		<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>
<i>Sample Depth:</i>		<i>92 to 94 ft bgs</i>	<i>104 to 106 ft bgs</i>	<i>113 to 115 ft bgs</i>	<i>123 to 125 ft bgs</i>	<i>134 to 136 ft bgs</i>	<i>143 to 145 ft bgs</i>	<i>5 to 7 ft bgs</i>
<i>elev_MLLW</i>		<i>-74.08 to -76.08</i>	<i>-86.08 to -88.08</i>	<i>-95.08 to -97.08</i>	<i>-105.08 to -107.08</i>	<i>-116.08 to -118.08</i>	<i>-125.08 to -127.08</i>	<i>12.92 to 10.92</i>
<i>elev_NGVD</i>		<i>-80.4 to -82.4</i>	<i>-92.4 to -94.4</i>	<i>-101.4 to -103.4</i>	<i>-111.4 to -113.4</i>	<i>-122.4 to -124.4</i>	<i>-131.4 to -133.4</i>	<i>6.6 to 4.6</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.5 U	1.9 U	1.6 U	1.7 U	1.6 U	1.3 U
1,1,2-Trichloroethane	µg/kg	15.2	0.58 U	0.75 U	0.60 U	0.67 U	0.63 U	0.29 U
1,1-Dichloroethene	µg/kg	1.13	0.95 U	1.2 U	0.99 U	1.1 U	1.1 U	0.80 U
Carbon tetrachloride	µg/kg	1.93	0.96 U	1.3 U	1 U	1.1 U	1.1 U	0.85 U
Chloroform (Trichloromethane)	µg/kg	160	1.7 U	2.2 U	1.8 U	2.0 U	1.9 U	1.5 U
cis-1,2-Dichloroethene	µg/kg	NV	1.3 U	1.7 U	1.3 U	1.5 U	1.4 U	2.4 J
Methylene chloride	µg/kg	475	5.5 U	7.1 U	5.7 U	9.8 J	11 J	4.8 U
Tetrachloroethene	µg/kg	4.88	0.65 U	0.84 U	0.68 U	0.75 U	0.71 U	16
trans-1,2-Dichloroethene	µg/kg	3247	1.6 U	2.1 U	1.7 U	1.9 U	1.8 U	0.36 U
Trichloroethene	µg/kg	30.8	0.85 U	1.1 U	0.89 U	0.99 U	0.93 U	12
Vinyl chloride	µg/kg	0.73	2.0 U	2.6 U	2.1 U	2.3 U	2.2 U	1.8 U
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	64 U
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	55 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	62 U
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-26</i>	<i>WMUA-26</i>	<i>WMUA-26</i>	<i>WMUA-26</i>	<i>WMUA-26</i>	<i>WMUA-26</i>	<i>WMUA-26</i>	
<i>Sample ID:</i>		<i>S-071306-DR-WMUA26-004</i>	<i>S-071306-DR-WMUA26-005</i>	<i>S-071306-DR-WMUA26-006</i>	<i>S-071306-DR-WMUA26-007</i>	<i>S-071306-DR-WMUA26-008</i>	<i>S-071306-DR-WMUA26-009</i>	<i>S-071306-DR-WMUA26-010</i>	
<i>Sample Date:</i>		<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	
<i>Sample Depth:</i>		<i>13 to 15 ft bgs</i>	<i>23 to 25 ft bgs</i>	<i>33 to 35 ft bgs</i>	<i>44 to 46 ft bgs</i>	<i>51 to 53 ft bgs</i>	<i>63 to 65 ft bgs</i>	<i>72 to 74 ft bgs</i>	
<i>elev_MLLW</i>		<i>4.92 to 2.92</i>	<i>-5.08 to -7.08</i>	<i>-15.08 to -17.08</i>	<i>-26.08 to -28.08</i>	<i>-33.08 to -35.08</i>	<i>-45.08 to -47.08</i>	<i>-54.08 to -56.08</i>	
<i>elev_NGVD</i>		<i>-1.4 to -3.4</i>	<i>-11.4 to -13.4</i>	<i>-21.4 to -23.4</i>	<i>-32.4 to -34.4</i>	<i>-39.4 to -41.4</i>	<i>-51.4 to -53.4</i>	<i>-60.4 to -62.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.7 U	1.5 U	1.6 U	1.6 U	1.7 U	1.7 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.67 U	0.60 U	0.62 U	0.64 U	0.66 U	0.64 U	0.60 U
1,1-Dichloroethene	µg/kg	1.13	1.1 U	0.98 U	1 U	1.1 U	1.1 U	1.1 U	0.99 U
Carbon tetrachloride	µg/kg	1.93	1.1 U	0.99 U	1 U	1.1 U	1.1 U	1.1 U	1 U
Chloroform (Trichloromethane)	µg/kg	160	2.0 U	1.8 U	1.8 U	1.9 U	2.0 U	1.9 U	1.8 U
cis-1,2-Dichloroethene	µg/kg	NV	100 J	130	3.3 J	77 J	20000	11 J	2.1 J
Methylene chloride	µg/kg	475	6.3 U	5.7 U	5.9 U	6.1 U	6.3 U	6.1 U	5.7 UJ
Tetrachloroethene	µg/kg	4.88	2.5 J	110	2.5 J	15 J	140000	53 J	4.1 J
trans-1,2-Dichloroethene	µg/kg	3247	32 J	10.0	9.5 J	14 J	280 J	1.8 U	1.7 U
Trichloroethene	µg/kg	30.8	9.8 J	130	21 J	24 J	61000	35 J	3.9 J
Vinyl chloride	µg/kg	0.73	2.3 U	110	2.1 U	2.2 U	5.0 J	2.3 U	2.1 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		WMUA-26	WMUA-26	WMUA-26	WMUA-26	WMUA-27	WMUA-27	WMUA-27	
Sample ID:		S-071306-DR-WMUA26-011	S-071306-DR-WMUA26-012	S-071306-DR-WMUA26-013	S-071306-DR-WMUA26-014	S-101106-ILM-WMUA27-001	S-101106-ILM-WMUA27-002	S-101106-ILM-WMUA27-016	
Sample Date:		7/13/2006	7/13/2006	7/13/2006	7/13/2006	10/11/2006	10/11/2006	10/11/2006	
Sample Depth:		83 to 85 ft bgs	93 to 95 ft bgs	103 to 105 ft bgs	103 to 105 ft bgs	13 to 15 ft bgs	23 to 25 ft bgs	23 to 25 ft bgs	
elev_MLLW		-65.08 to -67.08	-75.08 to -77.08	-85.08 to -87.08	-85.08 to -87.08	4.92 to 2.92	-5.08 to -7.08	-5.08 to -7.08	
elev_NGVD		-71.4 to -73.4	-81.4 to -83.4	-91.4 to -93.4	-91.4 to -93.4 (Duplicate)	-1.4 to -3.4	-11.4 to -13.4	-11.4 to -13.4 (Duplicate)	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.5 U	1.7 U	1.7 U	1.4 U	7.8 U	16 U
1,1,2-Trichloroethane	µg/kg	15.2	0.63 U	0.58 U	0.66 U	0.65 U	0.55 U	3.0 U	6.2 U
1,1-Dichloroethene	µg/kg	1.13	1 U	0.96 U	1.1 U	1.1 U	0.90 UJ	5.0 U	10 U
Carbon tetrachloride	µg/kg	1.93	1.1 U	0.97 U	1.1 U	1.1 U	0.91 UJ	5.0 U	10 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	1.7 U	2.0 U	1.9 U	1.6 UJ	9.0 U	19 U
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	1.3 U	1.5 U	1.4 U	5.1 J	3400	1300
Methylene chloride	µg/kg	475	6.0 U	5.6 U	6.3 U	6.2 U	5.2 U	29 U	150
Tetrachloroethene	µg/kg	4.88	0.71 U	0.66 U	0.75 U	0.73 U	54 J	1400	850
trans-1,2-Dichloroethene	µg/kg	3247	1.8 U	1.6 U	1.9 U	1.8 U	1.5 UJ	50	18 J
Trichloroethene	µg/kg	30.8	0.93 U	0.86 U	0.98 U	0.96 U	68 J	2800 J	560 J
Vinyl chloride	µg/kg	0.73	2.2 U	2.0 U	2.3 U	2.3 U	1.9 U	11 UJ	22 UJ
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUA-27	WMUA-27	WMUA-27	WMUA-27	WMUA-27	WMUA-27	WMUA-27
Sample ID:		S-101106-ILM-WMUA27-003	S-101106-ILM-WMUA27-004	S-101106-ILM-WMUA27-005	S-101206-ILM-WMUA27-006	S-101206-ILM-WMUA27-007	S-101206-ILM-WMUA27-008	S-101206-ILM-WMUA27-009
Sample Date:		10/11/2006	10/11/2006	10/11/2006	10/12/2006	10/12/2006	10/12/2006	10/12/2006
Sample Depth:		33 to 35 ft bgs	43 to 45 ft bgs	53 to 55 ft bgs	63 to 65 ft bgs	73 to 75 ft bgs	83 to 85 ft bgs	93 to 95 ft bgs
elev_MLLW		-15.08 to -17.08	-25.08 to -27.08	-35.08 to -37.08	-45.08 to -47.08	-55.08 to -57.08	-65.08 to -67.08	-75.08 to -77.08
elev_NGVD		-21.4 to -23.4	-31.4 to -33.4	-41.4 to -43.4	-51.4 to -53.4	-61.4 to -63.4	-71.4 to -73.4	-81.4 to -83.4
Parameters	Units	Cs						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	8.4 U	8.6 U	8.0 U	1.6 U	1.5 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	3.3 U	3.3 U	3.1 U	0.63 U	0.58 U	0.62 U
1,1-Dichloroethene	µg/kg	1.13	17 J	73	210	59	0.96 U	1.0 U
Carbon tetrachloride	µg/kg	1.93	5.4 U	5.6 U	5.1 U	1.1 U	0.97 U	1.0 U
Chloroform (Trichloromethane)	µg/kg	160	9.7 U	10.0 U	9.2 U	1.9 U	1.7 U	1.8 U
cis-1,2-Dichloroethene	µg/kg	NV	6800	20000	59000 J	28000	1.3 U	1.4 U
Methylene chloride	µg/kg	475	31 U	390	29 U	6.0 U	5.5 U	5.9 U
Tetrachloroethene	µg/kg	4.88	3.7 U	42	3.5 U	0.71 U	0.65 U	34
trans-1,2-Dichloroethene	µg/kg	3247	180	640	880	130 J	1.6 U	1.7 U
Trichloroethene	µg/kg	30.8	6.5 J	75	4.5 U	5.0 J	0.86 U	0.88 U
Vinyl chloride	µg/kg	0.73	64 J	120 J	1800 J	510	2.0 U	2.2 U
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
Metals~Total								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
PCBs								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
Pesticides								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-27</i>	<i>WMUA-27</i>	<i>WMUA-27</i>	<i>WMUA-27</i>	<i>WMUA-27</i>	<i>WMUA-28</i>	<i>WMUA-28</i>	
<i>Sample ID:</i>		<i>S-101206-ILM-WMUA27-010</i>	<i>S-101206-ILM-WMUA27-011</i>	<i>S-101206-ILM-WMUA27-012</i>	<i>S-101206-ILM-WMUA27-013</i>	<i>S-101206-ILM-WMUA27-014</i>	<i>S-101006-ILM-WMUA28-001</i>	<i>S-081106-BG-WMUA28-012</i>	
<i>Sample Date:</i>		<i>10/12/2006</i>	<i>10/12/2006</i>	<i>10/12/2006</i>	<i>10/12/2006</i>	<i>10/12/2006</i>	<i>10/10/2006</i>	<i>8/11/2006</i>	
<i>Sample Depth:</i>		<i>103 to 105 ft bgs</i>	<i>113 to 115 ft bgs</i>	<i>123 to 125 ft bgs</i>	<i>133 to 135 ft bgs</i>	<i>153 to 155 ft bgs</i>	<i>13 to 15 ft bgs</i>	<i>14 to 17 ft bgs</i>	
<i>elev_MLLW</i>		<i>-85.08 to -87.08</i>	<i>-95.08 to -97.08</i>	<i>-105.08 to -107.08</i>	<i>-115.08 to -117.08</i>	<i>-135.08 to -137.08</i>	<i>4.92 to 2.92</i>	<i>3.92 to 0.92</i>	
<i>elev_NGVD</i>		<i>-91.4 to -93.4</i>	<i>-101.4 to -103.4</i>	<i>-111.4 to -113.4</i>	<i>-121.4 to -123.4</i>	<i>-141.4 to -143.4</i>	<i>-1.4 to -3.4</i>	<i>-2.4 to -5.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.5 U	1.7 U	1.6 U	1.7 U	1.6 U	1.3 U
1,1,2-Trichloroethane	µg/kg	15.2	0.60 U	0.59 U	0.64 U	0.61 U	0.65 U	0.63 U	0.29 U
1,1-Dichloroethene	µg/kg	1.13	1.5 J	0.96 U	0.96 U	1.0 U	1.1 U	4.4 J	0.81 U
Carbon tetrachloride	µg/kg	1.93	1.0 U	0.98 U	1.1 U	1.0 U	1.1 U	1.1 U	0.85 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U	1.9 U	1.5 U
cis-1,2-Dichloroethene	µg/kg	NV	470	1.3 U	1.4 U	1.4 U	1.4 U	2600	2.2 J
Methylene chloride	µg/kg	475	5.7 U	5.6 U	6.1 U	5.9 U	6.2 U	6.0 U	4.9 U
Tetrachloroethene	µg/kg	4.88	120	0.66 U	0.72 U	0.69 U	0.73 U	22000	120
trans-1,2-Dichloroethene	µg/kg	3247	25	1.6 U	1.8 U	1.7 U	1.8 U	30	0.36 U
Trichloroethene	µg/kg	30.8	270	0.87 U	0.95 U	0.91 U	0.96 U	5300	7.1
Vinyl chloride	µg/kg	0.73	120	2.0 U	2.3 U	2.1 U	2.3 U	33	1.8 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	64 U
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	55 U
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	62 U
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUA-28	WMUA-28	WMUA-28	WMUA-28	WMUA-28	WMUA-28	WMUA-28	
Sample ID:		S-081106-BG-WMUA28-013	S-081106-BG-WMUA28-014	S-101006-ILM-WMUA28-002	S-081106-BG-WMUA28-015	S-101006-ILM-WMUA28-003	S-101006-ILM-WMUA28-017	S-081106-BG-WMUA28-016	
Sample Date:		8/11/2006	8/11/2006	10/10/2006	8/11/2006	10/10/2006	10/10/2006	8/11/2006	
Sample Depth:		14 to 17 ft bgs	17 to 22 ft bgs	23 to 25 ft bgs	25 to 27 ft bgs	33 to 35 ft bgs	33 to 35 ft bgs	35 to 37 ft bgs	
elev_MLLW		3.92 to 0.92	0.92 to -4.08	-5.08 to -7.08	-7.08 to -9.08	-15.08 to -17.08	-15.08 to -17.08	-17.08 to -19.08	
elev_NGVD		-2.4 to -5.4	-5.4 to -10.4	-11.4 to -13.4	-13.4 to -15.4	-21.4 to -23.4	-21.4 to -23.4	-23.4 to -25.4	
Parameters	Units	Cs							
			(Duplicate)				(Duplicate)		
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.24 UJ	34 U	1.6 U	1.4 U	1.7 U	43 U	89 U
1,1,2-Trichloroethane	µg/kg	15.2	0.48 UJ	25 U	0.61 U	0.55 U	0.66 U	17 U	66 U
1,1-Dichloroethene	µg/kg	1.13	0.79 UJ	37 U	19	2.1 J	46	27 U	120 J
Carbon tetrachloride	µg/kg	1.93	0.80 UJ	12 U	1.0 U	0.92 U	1.1 U	28 U	33 U
Chloroform (Trichloromethane)	µg/kg	160	1.43 UJ	20 U	1.8 U	1.6 U	2.0 U	49 U	52 U
cis-1,2-Dichloroethene	µg/kg	NV	1.07 UJ	4200	3700	9500	31000	33000	23000
Methylene chloride	µg/kg	475	4.58 UJ	660	5.8 U	5.3 U	6.3 U	160 U	110 U
Tetrachloroethene	µg/kg	4.88	44 J	5900	130	11	15	19 U	49 U
trans-1,2-Dichloroethene	µg/kg	3247	1.35 UJ	24 U	48	32	660	710	910
Trichloroethene	µg/kg	30.8	2.2 J	4600	3900	6600	35	33 J	52 U
Vinyl chloride	µg/kg	0.73	1.68 UJ	29 UJ	86	12	1000	1300	1900
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	WMUA-28	WMUA-28	WMUA-28	WMUA-28	WMUA-28	WMUA-28	WMUA-28
Sample ID:	S-101006-ILM-WMUA28-004	S-081106-BG-WMUA28-017	S-101006-ILM-WMUA28-005	S-081106-BG-WMUA28-018	S-081106-BG-WMUA28-019	S-081106-BG-WMUA28-020	S-101106-ILM-WMUA28-006
Sample Date:	10/10/2006	8/11/2006	10/10/2006	8/11/2006	8/11/2006	8/11/2006	10/11/2006
Sample Depth:	43 to 45 ft bgs	45 to 47 ft bgs	53 to 55 ft bgs	55 to 57 ft bgs	65 to 67 ft bgs	75 to 77 ft bgs	83 to 85 ft bgs
elev_MLLW	-25.08 to -27.08	-27.08 to -29.08	-35.08 to -37.08	-37.08 to -39.08	-47.08 to -49.08	-57.08 to -59.08	-65.08 to -67.08
elev_NGVD	-31.4 to -33.4	-33.4 to -35.4	-41.4 to -43.4	-43.4 to -45.4	-53.4 to -55.4	-63.4 to -65.4	-71.4 to -73.4
Parameters	Units	Cs					
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.8 U	1.7 U	7.7 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.69 U	0.65 UJ	3.0 U	0.62 U	0.63 U
1,1-Dichloroethene	µg/kg	1.13	110	54	32	1 U	1 U
Carbon tetrachloride	µg/kg	1.93	1.1 U	1.1 U	4.9 U	1 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	2.1 U	2.0 U	8.8 U	1.8 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	60000	58000	1500	24	8.5
Methylene chloride	µg/kg	475	6.6 U	6.2 U	55	5.9 U	6.0 U
Tetrachloroethene	µg/kg	4.88	0.78 U	5.6 J	85	0.70 U	0.71 U
trans-1,2-Dichloroethene	µg/kg	3247	1800	1500	630	1.7 U	34
Trichloroethene	µg/kg	30.8	4.8 J	7.9	98	0.91 U	0.93 U
Vinyl chloride	µg/kg	0.73	2200 J	3000 J	1400 J	110	10
						38	2.1 U
Semi-volatile Organic Compounds							
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-
Metals~Total							
Arsenic	µg/kg	146	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-
PCBs							
Total PCBs	µg/kg	0.053	-	-	-	-	-
Pesticides							
4,4'-DDD	µg/kg	0.043	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-28</i>	<i>WMUA-28</i>	<i>WMUA-28</i>	<i>WMUA-28</i>	<i>WMUA-28</i>	<i>WMUA-28</i>	<i>WMUA-28</i>
<i>Sample ID:</i>		<i>S-081106-BG-WMUA28-021</i>	<i>S-101106-ILM-WMUA28-007</i>	<i>S-081106-BG-WMUA28-022</i>	<i>S-101106-ILM-WMUA28-008</i>	<i>S-081106-BG-WMUA28-023</i>	<i>S-081106-BG-WMUA28-024</i>	<i>S-101106-ILM-WMUA28-009</i>
<i>Sample Date:</i>		<i>8/11/2006</i>	<i>10/11/2006</i>	<i>8/11/2006</i>	<i>10/11/2006</i>	<i>8/11/2006</i>	<i>8/11/2006</i>	<i>10/11/2006</i>
<i>Sample Depth:</i>		<i>85 to 87 ft bgs</i>	<i>93 to 95 ft bgs</i>	<i>95 to 97 ft bgs</i>	<i>103 to 105 ft bgs</i>	<i>105 to 107 ft bgs</i>	<i>105 to 107 ft bgs</i>	<i>113 to 115 ft bgs</i>
<i>elev_MLLW</i>		<i>-67.08 to -69.08</i>	<i>-75.08 to -77.08</i>	<i>-77.08 to -79.08</i>	<i>-85.08 to -87.08</i>	<i>-87.08 to -89.08</i>	<i>-87.08 to -89.08</i>	<i>-95.08 to -97.08</i>
<i>elev_NGVD</i>		<i>-73.4 to -75.4</i>	<i>-81.4 to -83.4</i>	<i>-83.4 to -85.4</i>	<i>-91.4 to -93.4</i>	<i>-93.4 to -95.4</i>	<i>-93.4 to -95.4</i> <i>(Duplicate)</i>	<i>-101.4 to -103.4</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 UJ	1.6 U	1.6 U	1.5 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.63 U	0.60 UJ	0.62 UJ	0.62 U	0.59 UJ	0.62 U
1,1-Dichloroethene	µg/kg	1.13	1 U	0.99 UJ	1 U	1.0 U	0.98 U	1 U
Carbon tetrachloride	µg/kg	1.93	1 U	1.0 UJ	1 UJ	1.0 U	0.99 UJ	1 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	1.8 UJ	1.8 UJ	1.9 U	1.8 UJ	1.8 U
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	1.3 UJ	6.4	1.4 U	1.5 J	1.4 U
Methylene chloride	µg/kg	475	6.0 U	5.7 U	5.9 UJ	5.9 UJ	5.7 UJ	6.0 UJ
Tetrachloroethene	µg/kg	4.88	0.70 U	0.68 UJ	0.69 U	0.70 U	0.67 U	0.70 U
trans-1,2-Dichloroethene	µg/kg	3247	1.8 U	1.7 UJ	1.7 UJ	1.8 U	1.7 UJ	1.8 UJ
Trichloroethene	µg/kg	30.8	0.93 U	0.89 UJ	0.91 UJ	0.92 U	0.88 UJ	1.7 J
Vinyl chloride	µg/kg	0.73	2.2 U	2.1 UJ	2.2 UJ	2.2 U	2.1 UJ	2.2 UJ
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUA-28	WMUA-28	WMUA-28	WMUA-28	WMUA-29	WMUA-29	WMUA-29	
Sample ID:		S-101106-ILM-WMUA28-010	S-101106-ILM-WMUA28-011	S-101106-ILM-WMUA28-012	S-101106-ILM-WMUA28-013	S-071906-DR-WMUA29-002	S-071906-DR-WMUA29-003	S-071906-DR-WMUA29-004	
Sample Date:		10/11/2006	10/11/2006	10/11/2006	10/11/2006	7/19/2006	7/19/2006	7/19/2006	
Sample Depth:		123 to 125 ft bgs	133 to 135 ft bgs	143 to 145 ft bgs	153 to 155 ft bgs	5 to 7 ft bgs	14 to 16 ft bgs	23 to 25 ft bgs	
elev_MLLW		-105.08 to -107.08	-115.08 to -117.08	-125.08 to -127.08	-135.08 to -137.08	12.92 to 10.92	3.92 to 1.92	-5.08 to -7.08	
elev_NGVD		-111.4 to -113.4	-121.4 to -123.4	-131.4 to -133.4	-141.4 to -143.4	6.6 to 4.6	-2.4 to -4.4	-11.4 to -13.4	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.8 U	1.6 U	1.6 U	1.3 U	1.5 U	1.5 U	
1,1,2-Trichloroethane	µg/kg	15.2	0.68 U	0.62 U	0.64 U	0.28 U	0.58 U	0.59 U	
1,1-Dichloroethene	µg/kg	1.13	1.1 U	1.0 U	1.1 UJ	1.0 UJ	0.98 U	0.98 U	
Carbon tetrachloride	µg/kg	1.93	1.1 U	1.0 U	1.1 UJ	1.0 UJ	0.97 U	0.99 U	
Chloroform (Trichloromethane)	µg/kg	160	2.0 U	1.8 U	1.9 UJ	1.5 U	1.7 U	1.8 U	
cis-1,2-Dichloroethene	µg/kg	NV	7.4	1.4 U	1.4 UJ	1.4 UJ	45	42	
Methylene chloride	µg/kg	475	6.5 UJ	5.9 UJ	6.1 U	4.8 U	5.6 U	5.7 U	
Tetrachloroethene	µg/kg	4.88	80	0.69 U	12 J	0.70 UJ	9.4	18000	11
trans-1,2-Dichloroethene	µg/kg	3247	1.9 U	1.7 U	1.8 UJ	1.8 UJ	0.36 U	1.6 J	6.7
Trichloroethene	µg/kg	30.8	150	0.91 U	14 J	0.93 UJ	2.7 J	2000	2.2 J
Vinyl chloride	µg/kg	0.73	2.4 U	2.2 U	2.2 U	1.8 U	5.5 J	1900	
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	63 U	-	-	
Hexachlorobutadiene	µg/kg	0.702	-	-	-	54 U	-	-	
Pentachlorophenol	µg/kg	6.94	-	-	-	61 U	-	-	
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	
Chromium	µg/kg	714	-	-	-	-	-	-	
Copper	µg/kg	53.5	-	-	-	-	-	-	
Lead	µg/kg	81002	-	-	-	-	-	-	
Mercury	µg/kg	1.31	-	-	-	-	-	-	
Nickel	µg/kg	535	-	-	-	-	-	-	
Thallium	µg/kg	34	-	-	-	-	-	-	
Zinc	µg/kg	5045	-	-	-	-	-	-	
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		WMUA-29	WMUA-29	WMUA-29	WMUA-29	WMUA-29	WMUA-29	WMUA-29	
Sample ID:		S-071906-DR-WMUA29-005	S-071906-DR-WMUA29-006	S-071906-DR-WMUA29-007	S-071906-DR-WMUA29-008	S-071906-DR-WMUA29-009	S-071906-DR-WMUA29-010	S-071906-DR-WMUA29-011	
Sample Date:		7/19/2006	7/19/2006	7/19/2006	7/19/2006	7/19/2006	7/19/2006	7/19/2006	
Sample Depth:		31 to 33 ft bgs	43 to 45 ft bgs	53 to 55 ft bgs	62 to 64 ft bgs	62 to 64 ft bgs	73 to 75 ft bgs	83 to 85 ft bgs	
elev_MLLW		-13.08 to -15.08	-25.08 to -27.08	-35.08 to -37.08	-44.08 to -46.08	-44.08 to -46.08	-55.08 to -57.08	-65.08 to -67.08	
elev_NGVD		-19.4 to -21.4	-31.4 to -33.4	-41.4 to -43.4	-50.4 to -52.4	-50.4 to -52.4 (Duplicate)	-61.4 to -63.4	-71.4 to -73.4	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 U	1.6 U	8.4 U	7.9 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.60 U	0.62 U	0.61 U	3.3 U	3.1 U	0.62 U	0.61 U
1,1-Dichloroethene	µg/kg	1.13	0.99 U	1 U	2.2 J	110	120	3.2 J	1 U
Carbon tetrachloride	µg/kg	1.93	1 U	1 U	1 U	5.4 U	5.1 U	1 U	1 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.9 U	1.8 U	9.7 U	9.1 U	1.8 U	1.8 U
cis-1,2-Dichloroethene	µg/kg	NV	52	6.0 J	200	17000 J	17000 J	230	1.4 U
Methylene chloride	µg/kg	475	5.8 U	6.0 U	5.9 U	31 U	29 U	5.9 U	5.8 U
Tetrachloroethene	µg/kg	4.88	1.6 J	0.70 UJ	0.69 U	3.9 J	3.5 U	0.69 U	0.69 U
trans-1,2-Dichloroethene	µg/kg	3247	14	50	49	740	860	37	1.7 U
Trichloroethene	µg/kg	30.8	3.2 J	0.92 UJ	2.0 J	7.1 J	15 J	0.91 U	0.90 U
Vinyl chloride	µg/kg	0.73	4000	3300	4000	12000 J	12000 J	4600	6.3
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-29</i>	<i>WMUA-29</i>	<i>WMUA-29</i>	<i>WMUA-30</i>	<i>WMUA-30</i>	<i>WMUA-30</i>	<i>WMUA-30</i>	
<i>Sample ID:</i>		<i>S-071906-DR-WMUA29-012</i>	<i>S-071906-DR-WMUA29-013</i>	<i>S-071906-DR-WMUA29-014</i>	<i>S-082106-BG-WMUA30-117</i>	<i>S-082106-BG-WMUA30-118</i>	<i>S-082106-BG-WMUA30-119</i>	<i>S-082106-BG-WMUA30-120</i>	
<i>Sample Date:</i>		<i>7/19/2006</i>	<i>7/19/2006</i>	<i>7/19/2006</i>	<i>8/21/2006</i>	<i>8/21/2006</i>	<i>8/21/2006</i>	<i>8/21/2006</i>	
<i>Sample Depth:</i>		<i>93 to 95 ft bgs</i>	<i>103 to 105 ft bgs</i>	<i>113 to 115 ft bgs</i>	<i>15 to 17 ft bgs</i>	<i>15 to 17 ft bgs</i>	<i>25 to 27 ft bgs</i>	<i>35 to 37 ft bgs</i>	
<i>elev_MLLW</i>		<i>-75.08 to -77.08</i>	<i>-85.08 to -87.08</i>	<i>-95.08 to -97.08</i>	<i>2.92 to 0.92</i>	<i>2.92 to 0.92</i>	<i>-7.08 to -9.08</i>	<i>-17.08 to -19.08</i>	
<i>elev_NGVD</i>		<i>-81.4 to -83.4</i>	<i>-91.4 to -93.4</i>	<i>-101.4 to -103.4</i>	<i>-3.4 to -5.4</i>	<i>(Duplicate)</i>	<i>-13.4 to -15.4</i>	<i>-23.4 to -25.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.7 U	1.7 U	1.6 U	1.3 U	1.3 U	1.4 U	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.64 U	0.65 U	0.60 U	0.28 U	0.28 U	0.32 U	0.61 U
1,1-Dichloroethene	µg/kg	1.13	1.1 U	1.1 U	0.99 U	0.79 U	0.79 U	0.89 U	1 U
Carbon tetrachloride	µg/kg	1.93	1.1 U	1.1 U	1 U	0.83 U	0.83 U	0.94 U	1 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	1.9 U	1.8 U	1.5 U	1.5 U	1.7 U	1.8 U
cis-1,2-Dichloroethene	µg/kg	NV	1.4 U	1.4 U	1.3 U	0.23 U	0.23 U	21	7.9
Methylene chloride	µg/kg	475	6.1 U	6.2 U	5.8 U	4.8 U	4.8 U	5.4 U	6.6
Tetrachloroethene	µg/kg	4.88	0.72 U	0.73 U	0.68 U	12	15	0.63 U	0.69 U
trans-1,2-Dichloroethene	µg/kg	3247	1.8 U	1.8 U	1.7 U	0.35 U	0.35 U	1.8 J	36
Trichloroethene	µg/kg	30.8	0.95 U	0.96 U	0.89 U	2.9 J	3.0 J	1.9 J	0.90 U
Vinyl chloride	µg/kg	0.73	2.2 U	4.1 J	9.9	R	R	34 J	630
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	63 U	63 U	71 U	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	54 U	54 U	61 U	-
Pentachlorophenol	µg/kg	6.94	-	-	-	61 U	61 U	69 U	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-30</i>	<i>WMUA-30</i>	<i>WMUA-30</i>	<i>WMUA-30</i>	<i>WMUA-30</i>	<i>WMUA-30</i>	<i>WMUA-30</i>	
<i>Sample ID:</i>		<i>S-082106-BG-WMUA30-121</i>	<i>S-082106-BG-WMUA30-122</i>	<i>S-082106-BG-WMUA30-123</i>	<i>S-082106-BG-WMUA30-124</i>	<i>S-082106-BG-WMUA30-125</i>	<i>S-082106-BG-WMUA30-126</i>	<i>S-082106-BG-WMUA30-127</i>	
<i>Sample Date:</i>		<i>8/21/2006</i>	<i>8/21/2006</i>	<i>8/21/2006</i>	<i>8/21/2006</i>	<i>8/21/2006</i>	<i>8/21/2006</i>	<i>8/21/2006</i>	
<i>Sample Depth:</i>		<i>45 to 47 ft bgs</i>	<i>55 to 57 ft bgs</i>	<i>65 to 67 ft bgs</i>	<i>75 to 77 ft bgs</i>	<i>85 to 87 ft bgs</i>	<i>95 to 97 ft bgs</i>	<i>105 to 107 ft bgs</i>	
<i>elev_MLLW</i>		<i>-27.08 to -29.08</i>	<i>-37.08 to -39.08</i>	<i>-47.08 to -49.08</i>	<i>-57.08 to -59.08</i>	<i>-67.08 to -69.08</i>	<i>-77.08 to -79.08</i>	<i>-87.08 to -89.08</i>	
<i>elev_NGVD</i>		<i>-33.4 to -35.4</i>	<i>-43.4 to -45.4</i>	<i>-53.4 to -55.4</i>	<i>-63.4 to -65.4</i>	<i>-73.4 to -75.4</i>	<i>-83.4 to -85.4</i>	<i>-93.4 to -95.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 UJ	1.7 UJ	1.6 U	1.6 U	1.5 U	1.7 UJ
1,1,2-Trichloroethane	µg/kg	15.2	0.77 J	20	4.8 J	23	0.63 U	0.57 U	33 J
1,1-Dichloroethene	µg/kg	1.13	1 U	26	180 J	38	1.8 J	5.0 J	24 J
Carbon tetrachloride	µg/kg	1.93	1 U	1 U	1.1 UJ	1 U	1 U	0.95 U	1.1 UJ
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	23	14 J	1100	59	73	12000
cis-1,2-Dichloroethene	µg/kg	NV	98	57000 J	70000	5700	2600	6100	21000 J
Methylene chloride	µg/kg	475	5.9 U	5.9 U	6.8 J	160	6.0 U	62 J	7200
Tetrachloroethene	µg/kg	4.88	0.70 U	7.3	580	26000	180	74	16 J
trans-1,2-Dichloroethene	µg/kg	3247	59	1100	680	120	7.4	27	420 J
Trichloroethene	µg/kg	30.8	0.94 J	19	640	52000	2000	8300	21000
Vinyl chloride	µg/kg	0.73	2800	420	1400	460 J	29 J	12 J	16 J
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		WMUA-30	WMUA-30	WMUA-30	WMUA-30	WMUA-30	WMUA-30	WMUA-30
Sample ID:		S-082106-BG-WMUA30-128	S-082106-BG-WMUA30-129	S-082106-BG-WMUA30-130	S-082106-BG-WMUA30-131	S-082106-BG-WMUA30-132	S-082106-BG-WMUA30-133	S-082106-BG-WMUA30-134
Sample Date:		8/21/2006	8/21/2006	8/21/2006	8/21/2006	8/21/2006	8/21/2006	8/21/2006
Sample Depth:		115 to 117 ft bgs	125 to 127 ft bgs	135 to 137 ft bgs	145 to 147 ft bgs	155 to 157 ft bgs	165 to 167 ft bgs	175 to 177 ft bgs
elev_MLLW		-97.08 to -99.08	-107.08 to -109.08	-117.08 to -119.08	-127.08 to -129.08	-137.08 to -139.08	-147.08 to -149.08	-157.08 to -159.08
elev_NGVD		-103.4 to -105.4	-113.4 to -115.4	-123.4 to -125.4	-133.4 to -135.4	-143.4 to -145.4	-153.4 to -155.4	-163.4 to -165.4
Parameters	Units	Cs						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 U	1.6 U	1.6 U	1.5 U	1.6 UJ
1,1,2-Trichloroethane	µg/kg	15.2	0.63 U	0.62 U	0.61 U	0.64 U	0.63 U	0.58 U
1,1-Dichloroethene	µg/kg	1.13	19	1 U	1 U	1 U	1 U	0.96 U
Carbon tetrachloride	µg/kg	1.93	1 U	1 U	1 U	1.1 U	1.1 U	0.97 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U
cis-1,2-Dichloroethene	µg/kg	NV	670	13	50	1.4 U	2.0 J	1.3 U
Methylene chloride	µg/kg	475	9.3	7.6	5.8 U	6.1 U	6.0 U	5.8 J
Tetrachloroethene	µg/kg	4.88	3.1 J	1800	11000 J	92	73	0.66 U
trans-1,2-Dichloroethene	µg/kg	3247	6.7 J	1.7 U	2.1 J	1.8 U	1.8 U	1.6 U
Trichloroethene	µg/kg	30.8	11000	770	10000 J	3.3 J	8.6	0.86 U
Vinyl chloride	µg/kg	0.73	6.0 J	2.2 U	2.1 U	2.2 U	2.2 U	2.1 UJ
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
Metals~Total								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
PCBs								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
Pesticides								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		WMUA-31	WMUA-31	WMUA-31	WMUA-31	WMUA-31	WMUA-31	WMUA-31
Sample ID:		S-081506-BG-WMUA31-057	S-081506-BG-WMUA31-058	S-081506-BG-WMUA31-059	S-081506-BG-WMUA31-060	S-081506-BG-WMUA31-061	S-081506-BG-WMUA31-062	S-081506-BG-WMUA31-063
Sample Date:		8/15/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006
Sample Depth:		5 to 7 ft bgs	15 to 17 ft bgs	25 to 27 ft bgs	25 to 27 ft bgs	35 to 37 ft bgs	45 to 47 ft bgs	55 to 57 ft bgs
elev_MLLW		12.92 to 10.92	2.92 to 0.92	-7.08 to -9.08	-7.08 to -9.08	-17.08 to -19.08	-27.08 to -29.08	-37.08 to -39.08
elev_NGVD		6.6 to 4.6	-3.4 to -5.4	-13.4 to -15.4	-13.4 to -15.4 (Duplicate)	-23.4 to -25.4	-33.4 to -35.4	-43.4 to -45.4
Parameters	Units	Cs						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.3 U	1.5 U	1.5 U	1.5 U	37 J	19 J
1,1,2-Trichloroethane	µg/kg	15.2	0.29 U	0.33 U	0.57 U	0.58 U	15 J	8.6 J
1,1-Dichloroethene	µg/kg	1.13	0.81 U	0.94 U	0.81 U	2.0 J	8.2 J	33 J
Carbon tetrachloride	µg/kg	1.93	0.85 U	0.99 U	0.95 U	0.96 U	0.97 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.5 U	1.8 U	5.6 J	1.7 U	6.8 J	170 J
cis-1,2-Dichloroethene	µg/kg	NV	1.5 J	16	180 J	480 J	9200 J	3200 J
Methylene chloride	µg/kg	475	4.9 U	5.6 U	7.1 J	5.5 U	11 J	6.2 U
Tetrachloroethene	µg/kg	4.88	0.93 J	3.8 J	9700 J	5200 J	14000 J	770 J
trans-1,2-Dichloroethene	µg/kg	3247	0.36 U	0.72 J	3.3 J	23 J	73 J	530 J
Trichloroethene	µg/kg	30.8	1.2 J	5.7 J	2600	1500 J	24000 J	16000 J
Vinyl chloride	µg/kg	0.73	1.8 U	40	2.0 UJ	96 J	150 J	410 J
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	0.062	64 U	74 U	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	55 U	130 J	-	-	-	-
Pentachlorophenol	µg/kg	6.94	63 U	72 U	-	-	-	-
Metals~Total								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
PCBs								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
Pesticides								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-31</i>	<i>WMUA-31</i>	<i>WMUA-31</i>	<i>WMUA-31</i>	<i>WMUA-31</i>	<i>WMUA-31</i>	<i>WMUA-31</i>
<i>Sample ID:</i>		<i>S-081606-BG-WMUA31-064</i>	<i>S-081606-BG-WMUA31-065</i>	<i>S-081606-BG-WMUA31-066</i>	<i>S-081606-BG-WMUA31-067</i>	<i>S-081606-BG-WMUA31-068</i>	<i>S-081606-BG-WMUA31-069</i>	<i>S-081606-BG-WMUA31-070</i>
<i>Sample Date:</i>		<i>8/16/2006</i>	<i>8/16/2006</i>	<i>8/16/2006</i>	<i>8/16/2006</i>	<i>8/16/2006</i>	<i>8/16/2006</i>	<i>8/16/2006</i>
<i>Sample Depth:</i>		<i>65 to 67 ft bgs</i>	<i>75 to 77 ft bgs</i>	<i>85 to 87 ft bgs</i>	<i>95 to 97 ft bgs</i>	<i>105 to 107 ft bgs</i>	<i>115 to 117 ft bgs</i>	<i>125 to 127 ft bgs</i>
<i>elev_MLLW</i>		<i>-47.08 to -49.08</i>	<i>-57.08 to -59.08</i>	<i>-67.08 to -69.08</i>	<i>-77.08 to -79.08</i>	<i>-87.08 to -89.08</i>	<i>-97.08 to -99.08</i>	<i>-107.08 to -109.08</i>
<i>elev_NGVD</i>		<i>-53.4 to -55.4</i>	<i>-63.4 to -65.4</i>	<i>-73.4 to -75.4</i>	<i>-83.4 to -85.4</i>	<i>-93.4 to -95.4</i>	<i>-103.4 to -105.4</i>	<i>-113.4 to -115.4</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.6 UJ	1.6 U	1.6 U	1.6 U	1.5 U
1,1,2-Trichloroethane	µg/kg	15.2	0.63 U	0.61 UJ	0.61 U	16	0.63 U	0.57 U
1,1-Dichloroethene	µg/kg	1.13	27 J	22 J	5.9 J	33	4.5 J	0.93 U
Carbon tetrachloride	µg/kg	1.93	1.1 U	1 UJ	1 U	1 U	1.1 U	0.95 U
Chloroform (Trichloromethane)	µg/kg	160	1100 J	710	11	17000	3700	6.3
cis-1,2-Dichloroethene	µg/kg	NV	2200 J	190 J	2700	10000	3600	12
Methylene chloride	µg/kg	475	250 J	430 J	5.8 U	6800	2400	15
Tetrachloroethene	µg/kg	4.88	10000	24 J	43	20	140	13
trans-1,2-Dichloroethene	µg/kg	3247	38 J	29 J	100	350 J	48	1.6 U
Trichloroethene	µg/kg	30.8	22000	50000	2000	38000	17000 J	130
Vinyl chloride	µg/kg	0.73	73 J	2.1 U	2.1 U	290 J	11	2.0 U
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
<i>Metals~Total</i>								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
<i>Pesticides</i>								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-31</i>	<i>WMUA-31</i>	<i>WMUA-31</i>	<i>WMUA-31</i>	<i>WMUA-31</i>	<i>WMUA-32</i>	<i>WMUA-32</i>	
<i>Sample ID:</i>		<i>S-081606-BG-WMUA31-071</i>	<i>S-081606-BG-WMUA31-072</i>	<i>S-081606-BG-WMUA31-073</i>	<i>S-081606-BG-WMUA31-074</i>	<i>S-081606-BG-WMUA31-075</i>	<i>S-081706-BG-WMUA32-100</i>	<i>S-081706-BG-WMUA32-101</i>	
<i>Sample Date:</i>		<i>8/16/2006</i>	<i>8/16/2006</i>	<i>8/16/2006</i>	<i>8/16/2006</i>	<i>8/16/2006</i>	<i>8/17/2006</i>	<i>8/17/2006</i>	
<i>Sample Depth:</i>		<i>135 to 137 ft bgs</i>	<i>145 to 147 ft bgs</i>	<i>155 to 157 ft bgs</i>	<i>165 to 167 ft bgs</i>	<i>175 to 177 ft bgs</i>	<i>17 to 20 ft bgs</i>	<i>25 to 27 ft bgs</i>	
<i>elev_MLLW</i>		<i>-117.08 to -119.08</i>	<i>-127.08 to -129.08</i>	<i>-137.08 to -139.08</i>	<i>-147.08 to -149.08</i>	<i>-157.08 to -159.08</i>	<i>0.92 to -2.08</i>	<i>-7.08 to -9.08</i>	
<i>elev_NGVD</i>		<i>-123.4 to -125.4</i>	<i>-133.4 to -135.4</i>	<i>-143.4 to -145.4</i>	<i>-153.4 to -155.4</i>	<i>-163.4 to -165.4</i>	<i>-5.4 to -8.4</i>	<i>-13.4 to -15.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.5 U	1.6 U	1.7 U	1.5 U	43 J	210 J
1,1,2-Trichloroethane	µg/kg	15.2	0.61 U	0.59 U	0.63 U	0.65 U	0.59 U	0.31 U	6.7
1,1-Dichloroethene	µg/kg	1.13	1 U	0.97 U	1 U	1.1 U	0.97 U	1.1 U	0.98 U
Carbon tetrachloride	µg/kg	1.93	1 U	0.98 U	1.1 U	1.1 U	0.98 U	0.93 U	0.99 UJ
Chloroform (Trichloromethane)	µg/kg	160	4.8 J	1.8 U	1.9 U	2.2 J	3.3 J	24 J	210 J
cis-1,2-Dichloroethene	µg/kg	NV	11	2.2 J	1.4 U	1.4 U	4.0 J	1100 J	460 J
Methylene chloride	µg/kg	475	29	5.6 U	6.0 U	6.2 U	9.2	5.3 U	9.0
Tetrachloroethene	µg/kg	4.88	35000 J	4.3 J	1.4 J	2.4 J	0.82 J	42000 J	6400 J
trans-1,2-Dichloroethene	µg/kg	3247	1.7 U	1.7 U	1.8 U	1.8 U	1.6 U	3.1 J	2.2 J
Trichloroethene	µg/kg	30.8	6000	2.4 J	1.6 J	5.7 J	1.8 J	18000 J	4300 J
Vinyl chloride	µg/kg	0.73	2.1 U	2.1 U	2.2 U	2.3 U	2.1 U	1.9 U	2.1 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	70 UJ	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	280 J	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	68 U	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-32</i>	<i>WMUA-32</i>	<i>WMUA-32</i>	<i>WMUA-32</i>	<i>WMUA-32</i>	<i>WMUA-32</i>	<i>WMUA-32</i>	
<i>Sample ID:</i>		<i>S-081706-BG-WMUA32-102</i>	<i>S-081706-BG-WMUA32-103</i>	<i>S-081706-BG-WMUA32-104</i>	<i>S-081706-BG-WMUA32-105</i>	<i>S-081706-BG-WMUA32-106</i>	<i>S-081706-BG-WMUA32-107</i>	<i>S-081706-BG-WMUA32-108</i>	
<i>Sample Date:</i>		<i>8/17/2006</i>	<i>8/17/2006</i>	<i>8/17/2006</i>	<i>8/17/2006</i>	<i>8/17/2006</i>	<i>8/17/2006</i>	<i>8/17/2006</i>	
<i>Sample Depth:</i>		<i>35 to 37 ft bgs</i>	<i>45 to 47 ft bgs</i>	<i>55 to 57 ft bgs</i>	<i>65 to 67 ft bgs</i>	<i>75 to 77 ft bgs</i>	<i>85 to 87 ft bgs</i>	<i>95 to 97 ft bgs</i>	
<i>elev_MLLW</i>		<i>-17.08 to -19.08</i>	<i>-27.08 to -29.08</i>	<i>-37.08 to -39.08</i>	<i>-47.08 to -49.08</i>	<i>-57.08 to -59.08</i>	<i>-67.08 to -69.08</i>	<i>-77.08 to -79.08</i>	
<i>elev_NGVD</i>		<i>-23.4 to -25.4</i>	<i>-33.4 to -35.4</i>	<i>-43.4 to -45.4</i>	<i>-53.4 to -55.4</i>	<i>-63.4 to -65.4</i>	<i>-73.4 to -75.4</i>	<i>-83.4 to -85.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	210 J	13 J	R	1.6 UJ	1.6 U	1.6 U	1.5 U
1,1,2-Trichloroethane	µg/kg	15.2	17	8.0 J	R	0.61 UJ	0.61 U	0.61 U	0.60 U
1,1-Dichloroethene	µg/kg	1.13	110	6.2 J	R	30 J	37 J	27 J	40 J
Carbon tetrachloride	µg/kg	1.93	1 U	1.1 UJ	R	1 UJ	1 U	1 U	1 U
Chloroform (Trichloromethane)	µg/kg	160	190 J	1600 J	4200 J	490 J	70 J	24 J	120 J
cis-1,2-Dichloroethene	µg/kg	NV	320 J	12000 J	140 J	890 J	5700 J	47000 J	3100 J
Methylene chloride	µg/kg	475	16	6.4 UJ	240 J	320 J	1000 J	37 J	760 J
Tetrachloroethene	µg/kg	4.88	3200 J	2000 J	96000 J	26000 J	8300 J	630 J	6.7 J
trans-1,2-Dichloroethene	µg/kg	3247	190	44 J	22 J	33 J	100 J	590 J	530 J
Trichloroethene	µg/kg	30.8	2800 J	41000 J	60000 J	65000 J	72000 J	1800 J	1800 J
Vinyl chloride	µg/kg	0.73	800 J	77 J	R	18 J	9.3 J	12000 J	750 J
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-32</i>	<i>WMUA-32</i>	<i>WMUA-32</i>	<i>WMUA-32</i>	<i>WMUA-32</i>	<i>WMUA-32</i>	<i>WMUA-32</i>	
<i>Sample ID:</i>		<i>S-081706-BG-WMUA32-109</i>	<i>S-081706-BG-WMUA32-110</i>	<i>S-081706-BG-WMUA32-111</i>	<i>S-081706-BG-WMUA32-112</i>	<i>S-081806-BG-WMUA32-113</i>	<i>S-081806-BG-WMUA32-114</i>	<i>S-081806-BG-WMUA32-115</i>	
<i>Sample Date:</i>		<i>8/17/2006</i>	<i>8/17/2006</i>	<i>8/17/2006</i>	<i>8/17/2006</i>	<i>8/18/2006</i>	<i>8/18/2006</i>	<i>8/18/2006</i>	
<i>Sample Depth:</i>		<i>105 to 107 ft bgs</i>	<i>115 to 117 ft bgs</i>	<i>125 to 127 ft bgs</i>	<i>135 to 137 ft bgs</i>	<i>145 to 147 ft bgs</i>	<i>155 to 157 ft bgs</i>	<i>165 to 167 ft bgs</i>	
<i>elev_MLLW</i>		<i>-87.08 to -89.08</i>	<i>-97.08 to -99.08</i>	<i>-107.08 to -109.08</i>	<i>-117.08 to -119.08</i>	<i>-127.08 to -129.08</i>	<i>-137.08 to -139.08</i>	<i>-147.08 to -149.08</i>	
<i>elev_NGVD</i>		<i>-93.4 to -95.4</i>	<i>-103.4 to -105.4</i>	<i>-113.4 to -115.4</i>	<i>-123.4 to -125.4</i>	<i>-133.4 to -135.4</i>	<i>-143.4 to -145.4</i>	<i>-153.4 to -155.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.5 U	1.6 U	1.5 UJ	1.5 U	1.6 U	1.4 U
1,1,2-Trichloroethane	µg/kg	15.2	0.62 U	0.59 U	0.62 U	0.56 UJ	0.56 U	0.63 U	0.53 U
1,1-Dichloroethene	µg/kg	1.13	1 U	0.98 U	1 U	0.93 UJ	0.93 U	1 U	0.87 U
Carbon tetrachloride	µg/kg	1.93	1 U	0.99 U	1 U	0.94 UJ	0.94 U	1.1 U	0.88 U
Chloroform (Trichloromethane)	µg/kg	160	1.9 U	1.8 U	1.8 U	1.7 UJ	1.7 U	1.9 U	1.6 U
cis-1,2-Dichloroethene	µg/kg	NV	88	14	1.4 U	2.1 J	1.3 U	1.4 U	1.4 J
Methylene chloride	µg/kg	475	6.0 U	5.7 U	5.9 U	5.4 UJ	5.4 U	6.0 U	5.1 U
Tetrachloroethene	µg/kg	4.88	6.7 J	1.1 J	0.69 U	0.64 UJ	0.63 U	0.71 U	0.60 U
trans-1,2-Dichloroethene	µg/kg	3247	2.1 J	1.7 U	1.7 U	1.6 UJ	1.6 U	1.8 U	1.5 U
Trichloroethene	µg/kg	30.8	12	2.5 J	0.91 U	1 J	0.83 U	0.94 U	0.87 J
Vinyl chloride	µg/kg	0.73	2.2 U	2.1 U	2.2 U	R	2.0 U	2.2 U	1.9 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-32</i>	<i>WMUA-33</i>	<i>WMUA-33</i>	<i>WMUA-33</i>	<i>WMUA-33</i>	<i>WMUA-33</i>	<i>WMUA-33</i>	
<i>Sample ID:</i>		<i>S-081806-BG-WMUA32-116</i>	<i>S-081506-BG-WMUA33-041</i>	<i>S-081506-BG-WMUA33-042</i>	<i>S-081506-BG-WMUA33-043</i>	<i>S-081506-BG-WMUA33-044</i>	<i>S-081506-BG-WMUA33-045</i>	<i>S-081506-BG-WMUA33-046</i>	
<i>Sample Date:</i>		<i>8/18/2006</i>	<i>8/15/2006</i>	<i>8/15/2006</i>	<i>8/15/2006</i>	<i>8/15/2006</i>	<i>8/15/2006</i>	<i>8/15/2006</i>	
<i>Sample Depth:</i>		<i>175 to 177 ft bgs</i>	<i>15 to 17 ft bgs</i>	<i>25 to 27 ft bgs</i>	<i>25 to 27 ft bgs</i>	<i>35 to 37 ft bgs</i>	<i>45 to 47 ft bgs</i>	<i>55 to 57 ft bgs</i>	
<i>elev_MLLW</i>		<i>-157.08 to -159.08</i>	<i>2.92 to 0.92</i>	<i>-7.08 to -9.08</i>	<i>-7.08 to -9.08</i>	<i>-17.08 to -19.08</i>	<i>-27.08 to -29.08</i>	<i>-37.08 to -39.08</i>	
<i>elev_NGVD</i>		<i>-163.4 to -165.4</i>	<i>-3.4 to -5.4</i>	<i>-13.4 to -15.4</i>	<i>-13.4 to -15.4</i> <i>(Duplicate)</i>	<i>-23.4 to -25.4</i>	<i>-33.4 to -35.4</i>	<i>-43.4 to -45.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.4 UJ	1.5 U	1.5 U	1.6 U	1.6 U	1.5 U	1.6 UJ
1,1,2-Trichloroethane	µg/kg	15.2	0.56 UJ	0.33 U	1.1 J	0.60 U	0.61 U	0.59 U	0.63 UJ
1,1-Dichloroethene	µg/kg	1.13	0.92 UJ	0.93 U	1.3 J	0.99 U	1 U	0.97 U	50 J
Carbon tetrachloride	µg/kg	1.93	0.93 UJ	0.98 U	0.99 U	1 U	1 U	0.98 U	1.1 UJ
Chloroform (Trichloromethane)	µg/kg	160	1.7 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 UJ
cis-1,2-Dichloroethene	µg/kg	NV	1.3 UJ	0.27 U	1400	990	11	82 J	25000
Methylene chloride	µg/kg	475	5.3 UJ	5.6 U	5.7 U	5.8 U	5.8 U	5.6 U	6.0 UJ
Tetrachloroethene	µg/kg	4.88	0.63 UJ	0.66 U	7600	5600	24	120 J	22 J
trans-1,2-Dichloroethene	µg/kg	3247	1.6 UJ	0.42 U	15 J	3.1 J	3.2 J	3.0 J	420 J
Trichloroethene	µg/kg	30.8	0.83 UJ	5.8 J	9400	5600	59	55 J	51 J
Vinyl chloride	µg/kg	0.73	R	2.0 U	6.7 J	2.1 U	7.3	5.3 J	890
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	74 UJ	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	63 UJ	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	72 UJ	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUA-33	WMUA-33	WMUA-33	WMUA-33	WMUA-33	WMUA-33	WMUA-33		
Sample ID:	S-081506-BG-WMUA33-047	S-081506-BG-WMUA33-048	S-081506-BG-WMUA33-049	S-081506-BG-WMUA33-050	S-081506-BG-WMUA33-051	S-081506-BG-WMUA33-052	S-081506-BG-WMUA33-053		
Sample Date:	8/15/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006		
Sample Depth:	65 to 67 ft bgs	75 to 77 ft bgs	85 to 87 ft bgs	95 to 97 ft bgs	105 to 107 ft bgs	115 to 117 ft bgs	125 to 127 ft bgs		
elev_MLLW	-47.08 to -49.08	-57.08 to -59.08	-67.08 to -69.08	-77.08 to -79.08	-87.08 to -89.08	-97.08 to -99.08	-107.08 to -109.08		
elev_NGVD	-53.4 to -55.4	-63.4 to -65.4	-73.4 to -75.4	-83.4 to -85.4	-93.4 to -95.4	-103.4 to -105.4	-113.4 to -115.4		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.4 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.5 UJ	1.5 UJ	1.6 U
1,1,2-Trichloroethane	µg/kg	15.2	0.56 UJ	0.63 U	0.61 U	0.61 U	0.57 U	0.58 U	0.64 UJ
1,1-Dichloroethene	µg/kg	1.13	0.93 UJ	27 J	10 J	1 U	0.93 U	0.95 U	1.1 U
Carbon tetrachloride	µg/kg	1.93	0.94 UJ	1.1 U	1 U	1 U	0.94 U	0.97 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	160	1.7 UJ	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	NV	220	26000	21000	23 J	510	21 J	1.4 UJ
Methylene chloride	µg/kg	475	5.4 UJ	6.0 U	5.8 U	5.8 U	5.4 U	5.5 U	6.1 U
Tetrachloroethene	µg/kg	4.88	22 J	0.71 U	13 J	1.4 J	0.64 UJ	0.65 U	0.72 U
trans-1,2-Dichloroethene	µg/kg	3247	7.5 J	320 J	1700	1.7 U	8.8 J	2.1 J	1.8 U
Trichloroethene	µg/kg	30.8	84 J	35000	5200	5.1 J	4100	64 J	0.94 UJ
Vinyl chloride	µg/kg	0.73	3.5 J	17 J	7.0 J	2.1 U	2.0 U	2.0 U	2.2 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUA-33	WMUA-33	WMUA-33	WMUA-34	WMUA-34	WMUA-34	WMUA-34		
Sample ID:	S-081506-BG-WMUA33-054	S-081506-BG-WMUA33-055	S-081506-BG-WMUA33-056	S-071712-JC-WMUA34-001	S-071712-JC-WMUA34-002	S-071712-JC-WMUA34-003	S-071712-JC-WMUA34-004		
Sample Date:	8/15/2006	8/15/2006	8/15/2006	7/17/2012	7/17/2012	7/17/2012	7/17/2012		
Sample Depth:	135 to 137 ft bgs	145 to 147 ft bgs	165 to 167 ft bgs	15.5 to 15.5 ft BGS	17.5 to 17.5 ft BGS	19.5 to 19.5 ft BGS	29 to 29 ft BGS		
elev_MLLW	-117.08 to -119.08	-127.08 to -129.08	-147.08 to -149.08	3.2 to 3.2	1.2 to 1.2	-0.8 to -0.8	-10.3 to -10.3		
elev_NGVD	-123.4 to -125.4	-133.4 to -135.4	-153.4 to -155.4	-3.1 to -3.1	-5.1 to -5.1	-7.1 to -7.1	-16.6 to -16.6		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1.6 U	1.7 U	1.7 U	71000 U	11000 U	3100 U	1200 U
1,1,2-Trichloroethane	µg/kg	15.2	0.60 UJ	0.65 UJ	0.66 UJ	71000 U	11000 U	3100 U	1200 U
1,1-Dichloroethene	µg/kg	1.13	0.99 U	1.1 U	1.1 U	71000 U	11000 U	3100 U	1200 U
Carbon tetrachloride	µg/kg	1.93	1 U	1.1 U	1.1 U	71000 U	11000 U	3100 U	1200 U
Chloroform (Trichloromethane)	µg/kg	160	1.8 U	1.9 U	2.0 U	71000 U	11000 U	3100 U	1200 U
cis-1,2-Dichloroethene	µg/kg	NV	1.4 UJ	1.4 UJ	1.5 UJ	38000 J	35000	170000	60000
Methylene chloride	µg/kg	475	5.8 U	6.4 J	6.3 U	35000 J	7700 J	1100 J	710 J
Tetrachloroethene	µg/kg	4.88	0.68 U	0.73 U	0.74 U	6400000	150000	29000	500 J
trans-1,2-Dichloroethene	µg/kg	3247	1.7 U	1.8 U	1.8 U	71000 U	11000 U	1400 J	550 J
Trichloroethene	µg/kg	30.8	0.89 UJ	0.96 UJ	0.97 UJ	8400000	520000	210000	5000
Vinyl chloride	µg/kg	0.73	2.1 U	2.3 U	2.3 U	71000 U	11000 U	1800 J	500 J
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUA-34	WMUA-34	WMUA-34	WMUA-34	WMUA-34	WMUA-34	WMUA-34	
Sample ID:		S-071712-JC-WMUA34-005	S-071712-JC-WMUA34-006	S-071812-JC-WMUA34-007	S-071812-JC-WMUA34-008	S-071812-JC-WMUA34-009	S-071812-JC-FD-001	S-071812-JC-WMUA34-010	
Sample Date:		7/17/2012	7/17/2012	7/18/2012	7/18/2012	7/18/2012	7/18/2012	7/18/2012	
Sample Depth:		35.5 to 35.5 ft BGS	41.5 to 41.5 ft BGS	51.5 to 51.5 ft BGS	58.5 to 58.5 ft BGS	62.7 to 62.7 ft BGS	62.7 to 62.7 ft BGS	68.5 to 68.5 ft BGS	
elev_MLLW		-16.8 to -16.8	-22.8 to -22.8	-32.8 to -32.8	-39.8 to -39.8	-44 to -44	-44 to -44	-49.8 to -49.8	
elev_NGVD		-23.1 to -23.1	-29.1 to -29.1	-39.1 to -39.1	-46.1 to -46.1	-50.3 to -50.3	-50.3 to -50.3 (Duplicate)	-56.1 to -56.1	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	180 U	760 U	1600 U	4000 U	6.6 U	190 U	5.0 U
1,1,2-Trichloroethane	µg/kg	15.2	180 U	760 U	1600 U	4000 U	6.6 U	190 U	5.0 U
1,1-Dichloroethene	µg/kg	1.13	180 U	760 U	1600 U	4000 U	6.6 J	190 U	0.66 J
Carbon tetrachloride	µg/kg	1.93	180 U	760 U	1600 U	4000 U	6.6 U	190 U	5.0 U
Chloroform (Trichloromethane)	µg/kg	160	180 U	760 U	1600 U	4000 U	6.6 U	190 U	5.0 U
cis-1,2-Dichloroethene	µg/kg	NV	10000	41000	49000	180000	200 J	990 J	3.3 J
Methylene chloride	µg/kg	475	130 J	460 J	900 J	2300 J	14 U	130 J	9.9 U
Tetrachloroethene	µg/kg	4.88	610	760 U	370 J	870 J	6.6 U	340	5.0 U
trans-1,2-Dichloroethene	µg/kg	3247	110 J	590 J	310 J	1800 J	180 J	730 J	31
Trichloroethene	µg/kg	30.8	510	170 J	650 J	2400 J	1.2 J	350	0.28 J
Vinyl chloride	µg/kg	0.73	180 U	830	1600 U	9400	4300	5500	740
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-34</i>	<i>WMUA-35</i>	<i>WMUA-35</i>	<i>WMUA-35</i>	<i>WMUA-35</i>	<i>WMUA-35</i>	<i>WMUA-35</i>	
<i>Sample ID:</i>		<i>S-071812-JC-WMUA34-011</i>	<i>S-100212-JN-WMUA35-001</i>	<i>S-100212-JN-WMUA35-002</i>	<i>S-100212-JN-WMUA35-003</i>	<i>S-100212-JN-WMUA35-004</i>	<i>S-100212-JN-WMUA35-005</i>	<i>S-100212-JN-WMUA35-006</i>	
<i>Sample Date:</i>		<i>7/18/2012</i>	<i>10/2/2012</i>	<i>10/2/2012</i>	<i>10/2/2012</i>	<i>10/2/2012</i>	<i>10/2/2012</i>	<i>10/2/2012</i>	
<i>Sample Depth:</i>		<i>72 to 72 ft BGS</i>	<i>5 to 5 ft BGS</i>	<i>15 to 15 ft BGS</i>	<i>25 to 25 ft BGS</i>	<i>35 to 35 ft BGS</i>	<i>35 to 35 ft BGS</i>	<i>45 to 45 ft BGS</i>	
<i>elev_MLLW</i>		<i>-53.3 to -53.3</i>	<i>13.28 to 13.28</i>	<i>3.28 to 3.28</i>	<i>-6.72 to -6.72</i>	<i>-16.72 to -16.72</i>	<i>-16.72 to -16.72</i>	<i>-26.72 to -26.72</i>	
<i>elev_NGVD</i>		<i>-59.6 to -59.6</i>	<i>7 to 7</i>	<i>-3 to -3</i>	<i>-13 to -13</i>	<i>-23 to -23</i>	<i>-23 to -23</i>	<i>-33 to -33</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.5 U	5.8 U	5.3 U	4.8 U	5.7 U	5.2 U	390 U
1,1,2-Trichloroethane	µg/kg	15.2	5.5 U	5.8 U	5.3 U	4.8 U	5.7 U	5.2 U	390 U
1,1-Dichloroethene	µg/kg	1.13	5.5 U	5.8 U	5.3 U	4.8 U	5.7 U	5.2 U	390 U
Carbon tetrachloride	µg/kg	1.93	5.5 U	5.8 U	5.3 U	4.8 U	5.7 U	5.2 U	390 U
Chloroform (Trichloromethane)	µg/kg	160	5.5 U	5.8 U	5.3 U	4.8 U	5.7 U	5.2 U	390 U
cis-1,2-Dichloroethene	µg/kg	NV	1.3 J	5.8 U	8.2	3.4 J	91	190	15000
Methylene chloride	µg/kg	475	11 U	12 UJ	11 U	9.6 U	12 U	11 U	99 J
Tetrachloroethene	µg/kg	4.88	5.5 U	1.9 J	1.7 J	0.63 J	2.3 J	5.0 J	390 U
trans-1,2-Dichloroethene	µg/kg	3247	5.5 U	5.8 U	7.2	49	19	24	400
Trichloroethene	µg/kg	30.8	5.5 U	5.8 U	2.0 J	0.54 J	8.7	14	430
Vinyl chloride	µg/kg	0.73	2.6 J	5.8 U	100	94	30	76	1700
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		WMUA-35	WMUA-35	WMUA-35	WMUA-36	WMUA-36	WMUA-36	WMUA-36	
Sample ID:		S-100212-JN-WMUA35-007	S-100212-JN-WMUA35-008	S-100212-JN-WMUA35-009	S-051812-BW-WMUA36-001	S-051812-BW-WMUA36-002	S-051812-BW-WMUA36-003	S-051812-BW-WMUA36-004	
Sample Date:		10/2/2012	10/2/2012	10/2/2012	5/18/2012	5/18/2012	5/18/2012	5/18/2012	
Sample Depth:		55 to 55 ft BGS	64 to 64 ft BGS	75 to 75 ft BGS	10 to 10 ft BGS	13 to 13 ft BGS	22 to 22 ft BGS	26.5 to 26.5 ft BGS	
elev_MLLW		-36.72 to -36.72	-45.72 to -45.72	-56.72 to -56.72	8.96 to 8.96	5.96 to 5.96	-3.04 to -3.04	-7.54 to -7.54	
elev_NGVD		-43 to -43	-52 to -52	-63 to -63	2.6 to 2.6	-0.4 to -0.4	-9.4 to -9.4	-13.9 to -13.9	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	680 U	67 U	6.3 U	67 U	610 U	160 U	67 U
1,1,2-Trichloroethane	µg/kg	15.2	680 U	67 U	6.3 U	67 U	610 U	160 U	67 U
1,1-Dichloroethene	µg/kg	1.13	680 U	39 J	6.3 U	67 U	610 U	70 J	67 U
Carbon tetrachloride	µg/kg	1.93	680 U	67 U	6.3 U	67 U	610 U	160 U	67 U
Chloroform (Trichloromethane)	µg/kg	160	680 U	67 U	6.3 U	67 U	170 J	160 U	67 U
cis-1,2-Dichloroethene	µg/kg	NV	31000	1400	6.3 U	61 J	1000	85000	4100
Methylene chloride	µg/kg	475	150 J	47 J	13 U	270 U	400 J	620 U	270 U
Tetrachloroethene	µg/kg	4.88	680 U	330	0.78 J	1700	580000	230	3900
trans-1,2-Dichloroethene	µg/kg	3247	1800	130	6.3 U	67 U	610 U	710	36 J
Trichloroethene	µg/kg	30.8	680 U	1700	6.3 U	340	56000	520	8000
Vinyl chloride	µg/kg	0.73	8800	72	7.6	67 U	610 U	740	190
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUA-36	WMUA-36	WMUA-36	WMUA-37	WMUA-37	WMUA-37	WMUA-37	
Sample ID:		S-051912-BW-WMUA36-005	S-051912-BW-WMUA36-006	FD-051912-BW-WMUA36-006	S-051912-BW-WMUA37-001	S-051912-BW-WMUA37-002	S-051912-BW-WMUA37-003	S-052012-BW-WMUA37-004	
Sample Date:		5/19/2012	5/19/2012	5/19/2012	5/19/2012	5/19/2012	5/19/2012	5/20/2012	
Sample Depth:		41 to 41 ft BGS	47.5 to 47.5 ft BGS	47.5 to 47.5 ft BGS	10 to 10 ft BGS	12 to 12 ft BGS	21 to 21 ft BGS	28 to 28 ft BGS	
elev_MLLW		-22.04 to -22.04	-28.54 to -28.54	-28.54 to -28.54	8.6 to 8.6	6.6 to 6.6	-2.4 to -2.4	-9.4 to -9.4	
elev_NGVD		-28.4 to -28.4	-34.9 to -34.9	-34.9 to -34.9	2.3 to 2.3	0.3 to 0.3	-8.7 to -8.7	-15.7 to -15.7	
Parameters	Units	Cs	(Duplicate)						
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	89 U	75 U	500 U	5.1 UJ	53 U	62 U	61 U
1,1,2-Trichloroethane	µg/kg	15.2	89 U	75 U	100 U	5.1 U	53 U	62 U	61 U
1,1-Dichloroethene	µg/kg	1.13	53 J	55 J	84 J	5.1 U	53 U	15 J	61 U
Carbon tetrachloride	µg/kg	1.93	89 U	75 U	100 U	5.1 U	53 U	62 U	61 U
Chloroform (Trichloromethane)	µg/kg	160	89 U	75 U	100 U	0.28 J	53 U	62 U	61 U
cis-1,2-Dichloroethene	µg/kg	NV	22000	17000	15000	3.6 J	48 J	7500	5500
Methylene chloride	µg/kg	475	360 U	300 U	400 U	11 U	220 U	250 U	250 U
Tetrachloroethene	µg/kg	4.88	89 U	21 J	100 U	670	4300	22000	720
trans-1,2-Dichloroethene	µg/kg	3247	350 J	430	530	5.1 U	53 U	65	74
Trichloroethene	µg/kg	30.8	39 J	33 J	26 J	28	320	33000	4100
Vinyl chloride	µg/kg	0.73	1700	1200 J	2800 J	5.1 U	53 U	60 J	310
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUA-37	WMUA-37	WMUA-37	WMUA-38	WMUA-38	WMUA-38	WMUA-38	
Sample ID:		S-052012-BW-WMUA37-005	S-052012-BW-WMUA37-006	S-052012-BW-WMUA37-007	S-052012-BW-WMUA38-001	S-052012-BW-WMUA38-002	S-052012-BW-WMUA38-003	FD-052012-BW-WMUA38-003	
Sample Date:		5/20/2012	5/20/2012	5/20/2012	5/20/2012	5/20/2012	5/20/2012	5/20/2012	
Sample Depth:		37 to 37 ft BGS	43.5 to 43.5 ft BGS	49 to 49 ft BGS	10 to 10 ft BGS	12.5 to 12.5 ft BGS	17.5 to 17.5 ft BGS	17.5 to 17.5 ft BGS	
elev_MLLW		-18.4 to -18.4	-24.9 to -24.9	-30.4 to -30.4	8.54 to 8.54	6.04 to 6.04	1.04 to 1.04	1.04 to 1.04	
elev_NGVD		-24.7 to -24.7	-31.2 to -31.2	-36.7 to -36.7	2.2 to 2.2	-0.3 to -0.3	-5.3 to -5.3	-5.3 to -5.3	
Parameters	Units	Cs						(Duplicate)	
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	66 U	5.5 UJ	11 UJ	5.6 U	54 U	180 U	150 U
1,1,2-Trichloroethane	µg/kg	15.2	66 U	5.5 U	11 U	5.6 U	54 U	180 U	150 U
1,1-Dichloroethene	µg/kg	1.13	29 J	0.69 J	11 U	0.42 J	54 U	180 U	150 U
Carbon tetrachloride	µg/kg	1.93	66 U	5.5 U	11 U	0.30 J	54 U	180 U	150 U
Chloroform (Trichloromethane)	µg/kg	160	66 U	5.5 U	11 U	38 J	54 U	180 U	150 U
cis-1,2-Dichloroethene	µg/kg	NV	10000	13	11 U	34 J	54 U	1600	1500
Methylene chloride	µg/kg	475	270 U	11 U	22 U	12 U	220 U	710 U	600 U
Tetrachloroethene	µg/kg	4.88	3900	0.60 J	0.62 J	2700 J	43000	76000	88000
trans-1,2-Dichloroethene	µg/kg	3247	160	1.9 J	11 U	0.51 J	54 U	180 U	54 J
Trichloroethene	µg/kg	30.8	3300	5.5 U	11 U	210 J	240	10000	9100
Vinyl chloride	µg/kg	0.73	520	3.0 J	15	0.77 J	54 U	180 U	150 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUA-38	WMUA-38	WMUA-38	WMUA-38	WMUA-38	WMUA-38	WMUA-38		
Sample ID:	S-052012-BW-WMUA38-004	S-052112-BW-WMUA38-005	S-052112-BW-WMUA38-006	S-052112-BW-WMUA38-007	S-052112-BW-WMUA38-008	S-052112-BW-WMUA38-010	S-052112-BW-WMUA38-009		
Sample Date:	5/20/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012		
Sample Depth:	21 to 21 ft BGS	31.9 to 31.9 ft BGS	35 to 35 ft BGS	38.5 to 38.5 ft BGS	44.5 to 44.5 ft BGS	47.5 to 47.5 ft BGS	49.5 to 49.5 ft BGS		
elev_MLLW	-2.46 to -2.46	-13.36 to -13.36	-16.46 to -16.46	-19.96 to -19.96	-25.96 to -25.96	-28.96 to -28.96	-30.96 to -30.96		
elev_NGVD	-8.8 to -8.8	-19.7 to -19.7	-22.8 to -22.8	-26.3 to -26.3	-32.3 to -32.3	-35.3 to -35.3	-37.3 to -37.3		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	620 U	6.1 U	5.0 U	5.0 U	5.3 U	5.6 U	79 U
1,1,2-Trichloroethane	µg/kg	15.2	620 U	6.1 U	5.0 U	5.0 U	5.3 U	5.6 U	79 U
1,1-Dichloroethene	µg/kg	1.13	620 U	1.0 J	0.47 J	1.1 J	5.3 U	0.36 J	79 U
Carbon tetrachloride	µg/kg	1.93	620 U	6.1 U	5.0 U	5.0 U	5.3 U	5.6 U	79 U
Chloroform (Trichloromethane)	µg/kg	160	620 U	6.1 U	5.0 U	5.0 U	5.3 U	5.6 U	79 U
cis-1,2-Dichloroethene	µg/kg	NV	49000	180	44	150	14 J	11	260 J
Methylene chloride	µg/kg	475	280 J	13 U	9.9 U	3.0 J	11 U	3.4 J	320 U
Tetrachloroethene	µg/kg	4.88	23000	590	21	21	5.3 U	3.3 J	3100
trans-1,2-Dichloroethene	µg/kg	3247	320 J	27	42	46	35 J	1.0 J	19 J
Trichloroethene	µg/kg	30.8	4700	280	27	58	4.1 J	19	1700
Vinyl chloride	µg/kg	0.73	7200	290	230	280	92 J	21	130
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-38</i>	<i>WMUA-39/53C</i>	<i>WMUA-39/53C</i>	<i>WMUA-39/53C</i>	<i>WMUA-39/53C</i>	<i>WMUA-39/53C</i>	<i>WMUA-39/53C</i>	
<i>Sample ID:</i>		<i>FD-052112-BW-WMUA38-009</i>	<i>S-062612-JC-WMUA39-001</i>	<i>S-062612-JC-WMUA39-002</i>	<i>S-062612-JC-WMUA39-003</i>	<i>S-062612-JC-WMUA39-004</i>	<i>S-062612-JC-WMUA39-005</i>	<i>S-062612-JC-WMUA39-007</i>	
<i>Sample Date:</i>		<i>5/21/2012</i>	<i>6/26/2012</i>	<i>6/26/2012</i>	<i>6/26/2012</i>	<i>6/26/2012</i>	<i>6/26/2012</i>	<i>6/26/2012</i>	
<i>Sample Depth:</i>		<i>49.5 to 49.5 ft BGS</i>	<i>8 to 8 ft BGS</i>	<i>16.7 to 16.7 ft BGS</i>	<i>26 to 26 ft BGS</i>	<i>38 to 38 ft BGS</i>	<i>44.2 to 44.2 ft BGS</i>	<i>53.5 to 53.5 ft BGS</i>	
<i>elev_MLLW</i>		<i>-30.96 to -30.96</i>	<i>10.24 to 10.24</i>	<i>1.54 to 1.54</i>	<i>-7.76 to -7.76</i>	<i>-19.76 to -19.76</i>	<i>-25.96 to -25.96</i>	<i>-35.26 to -35.26</i>	
<i>elev_NGVD</i>		<i>-37.3 to -37.3</i>	<i>3.9 to 3.9</i>	<i>-4.8 to -4.8</i>	<i>-14.1 to -14.1</i>	<i>-26.1 to -26.1</i>	<i>-32.3 to -32.3</i>	<i>-41.6 to -41.6</i>	
		<i>(Duplicate)</i>							
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	78 U	5.8 U	5.6 U	5.0 U	1600 U	1300 U	4000 U
1,1,2-Trichloroethane	µg/kg	15.2	78 U	5.8 U	5.6 U	5.0 U	1600 U	1300 U	4000 U
1,1-Dichloroethene	µg/kg	1.13	78 U	5.8 U	3.8 J	1.2 J	1600 U	1300 U	4000 U
Carbon tetrachloride	µg/kg	1.93	78 U	5.8 U	5.6 U	5.0 U	1600 U	1300 U	4000 U
Chloroform (Trichloromethane)	µg/kg	160	78 U	5.8 U	0.35 J	4.5 J	240 J	300 J	1700 J
cis-1,2-Dichloroethene	µg/kg	NV	120 J	5.8 U	1100	260	11000	9700	37000
Methylene chloride	µg/kg	475	320 U	12 U	12 U	10 U	1300 J	1100 J	3500 J
Tetrachloroethene	µg/kg	4.88	3000	11	5.1 J	3500	31000	41000	4000 U
trans-1,2-Dichloroethene	µg/kg	3247	78 U	5.8 U	6.1	3.5 J	1600 U	1300 U	4000 U
Trichloroethene	µg/kg	30.8	1200	7.5	63	1200	67000	52000	150000
Vinyl chloride	µg/kg	0.73	45 J	5.8 U	280	44	660 J	1300	3000 J
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:		WMUA-39/53C	WMUA-39/53C	WMUA-39/53C	WMUA-39/53C	WMUA-39/53C	WMUA-39/53C	WMUA-39/53C	
Sample ID:		S-062612-JC-WMUA39-008	S-062712-JC-WMUA39-010	S-062712-JC-FD-001	S-062712-JC-WMUA39-011	S-062712-JC-WMUA39-013	S-062712-JC-WMUA39-015	S-062712-JC-WMUA39-016	
Sample Date:		6/26/2012	6/27/2012	6/27/2012	6/27/2012	6/27/2012	6/27/2012	6/27/2012	
Sample Depth:		69 to 69 ft BGS	79 to 79 ft BGS	79 to 79 ft BGS	89.5 to 89.5 ft BGS	99 to 99 ft BGS	109 to 109 ft BGS	116.5 to 116.5 ft BGS	
elev_MLLW		-50.76 to -50.76	-60.76 to -60.76	-60.76 to -60.76	-71.26 to -71.26	-80.76 to -80.76	-90.76 to -90.76	-98.26 to -98.26	
elev_NGVD		-57.1 to -57.1	-67.1 to -67.1	-67.1 to -67.1	-77.6 to -77.6	-87.1 to -87.1	-97.1 to -97.1	-104.6 to -104.6	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	670 U	1300 U	1400 U	5.8 U	1800 U	1600 U	65 U
1,1,2-Trichloroethane	µg/kg	15.2	670 U	1300 U	1400 U	5.8 U	1800 U	1600 U	65 U
1,1-Dichloroethene	µg/kg	1.13	170 J	1300 U	1400 U	5.8 U	1800 U	1600 U	18 J
Carbon tetrachloride	µg/kg	1.93	670 U	1300 U	1400 U	5.8 U	1800 U	1600 U	65 U
Chloroform (Trichloromethane)	µg/kg	160	820	1700	1100 J	5.8 U	2200	7700	430
cis-1,2-Dichloroethene	µg/kg	NV	31000	5800 J	2000 J	2.2 J	58000	11000	2700
Methylene chloride	µg/kg	475	550 J	5100 U	5400 U	12 U	8000	8100	380
Tetrachloroethene	µg/kg	4.88	170 J	39000	28000	2.1 J	10000	7600	1000
trans-1,2-Dichloroethene	µg/kg	3247	230 J	1300 U	1400 U	3.1 J	350 J	1600 U	22 J
Trichloroethene	µg/kg	30.8	1400	46000	33000	3.7 J	57000	48000	4200
Vinyl chloride	µg/kg	0.73	14000	430 J	1400 U	580	4500	410 J	540
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	WMUA-39/53C	WMUA-39/53C	WMUA-39/53C	WMUA-39/53C	WMUA-39/53C	WMUA-39/53C	WMUA-39/53C	WMUA-40	
Sample ID:	S-062712-JC-WMUA39-017	S-062812-JC-WMUA39-018	S-062812-JC-WMUA39-019	S-062812-JC-WMUA39-020	S-062812-JC-WMUA39-021	S-062812-JC-WMUA39-022	S-060612-KB-WMUA40-001		
Sample Date:	6/27/2012	6/28/2012	6/28/2012	6/28/2012	6/28/2012	6/28/2012	6/6/2012		
Sample Depth:	127.7 to 127.7 ft BGS	137.5 to 137.5 ft BGS	147.8 to 147.8 ft BGS	159.5 to 159.5 ft BGS	161.5 to 161.5 ft BGS	178 to 178 ft BGS	8.5 to 8.5 ft BGS		
elev_MLLW	-109.46 to -109.46	-119.26 to -119.26	-129.56 to -129.56	-141.26 to -141.26	-143.26 to -143.26	-159.76 to -159.76	10.59 to 10.59		
elev_NGVD	-115.8 to -115.8	-125.6 to -125.6	-135.9 to -135.9	-147.6 to -147.6	-149.6 to -149.6	-166.1 to -166.1	4.3 to 4.3		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.4 U	390 U	6.2 U	4.8 U	5.0 U	6.0 U	0.62 J
1,1,2-Trichloroethane	µg/kg	15.2	5.4 U	390 U	6.2 U	4.8 U	5.0 U	6.0 U	5.3 U
1,1-Dichloroethene	µg/kg	1.13	5.4 U	390 U	6.2 U	4.8 U	5.0 U	6.0 U	5.3 U
Carbon tetrachloride	µg/kg	1.93	5.4 U	390 U	6.2 U	4.8 U	5.0 U	6.0 U	5.3 U
Chloroform (Trichloromethane)	µg/kg	160	0.19 J	260 J	6.2 U	4.8 U	5.0 U	6.0 U	0.55 J
cis-1,2-Dichloroethene	µg/kg	NV	6.4	1800	0.46 J	4.8 U	5.0 U	6.0 U	10
Methylene chloride	µg/kg	475	11 U	420 J	13 U	9.5 U	9.9 U	12 U	11 U
Tetrachloroethene	µg/kg	4.88	140	13000	0.53 J	4.8 U	5.0 U	6.0 U	1300
trans-1,2-Dichloroethene	µg/kg	3247	5.4 U	390 U	6.2 U	4.8 U	5.0 U	6.0 U	5.3 U
Trichloroethene	µg/kg	30.8	100	7000	0.64 J	4.8 U	5.0 U	6.0 U	160
Vinyl chloride	µg/kg	0.73	0.57 J	260 J	6.2 U	4.8 U	5.0 U	6.0 U	5.3 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-40</i>	<i>WMUA-40</i>	<i>WMUA-40</i>	<i>WMUA-40</i>	<i>WMUA-40</i>	<i>WMUA-40</i>	<i>WMUA-40</i>	
<i>Sample ID:</i>		<i>S-060612-KB-WMUA40-003</i>	<i>S-060612-KB-WMUA40-002</i>	<i>S-060612-KB-WMUA40-004</i>	<i>S-060612-KB-WMUA40-005</i>	<i>S-060612-KB-WMUA40-006</i>	<i>S-060612-KB-WMUA40-007</i>	<i>S-060612-KB-WMUA40-008</i>	
<i>Sample Date:</i>		<i>6/6/2012</i>	<i>6/6/2012</i>	<i>6/6/2012</i>	<i>6/6/2012</i>	<i>6/6/2012</i>	<i>6/6/2012</i>	<i>6/6/2012</i>	
<i>Sample Depth:</i>		<i>12 to 12 ft BGS</i>	<i>13.9 to 13.9 ft BGS</i>	<i>16.5 to 16.5 ft BGS</i>	<i>19 to 19 ft BGS</i>	<i>26 to 26 ft BGS</i>	<i>39 to 39 ft BGS</i>	<i>48 to 48 ft BGS</i>	
<i>elev_MLLW</i>		<i>7.09 to 7.09</i>	<i>5.19 to 5.19</i>	<i>2.59 to 2.59</i>	<i>0.09 to 0.09</i>	<i>-6.91 to -6.91</i>	<i>-19.91 to -19.91</i>	<i>-28.91 to -28.91</i>	
<i>elev_NGVD</i>		<i>0.8 to 0.8</i>	<i>-1.1 to -1.1</i>	<i>-3.7 to -3.7</i>	<i>-6.2 to -6.2</i>	<i>-13.2 to -13.2</i>	<i>-26.2 to -26.2</i>	<i>-35.2 to -35.2</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	0.38 J	180 U	71 U	340 U	4.8 U	79 U	5.9 U
1,1,2-Trichloroethane	µg/kg	15.2	5.3 U	180 U	71 U	340 U	4.8 U	79 U	5.9 U
1,1-Dichloroethene	µg/kg	1.13	5.3 U	180 U	71 U	340 U	0.50 J	79 U	1.3 J
Carbon tetrachloride	µg/kg	1.93	5.3 U	180 U	71 U	340 U	4.8 U	79 U	5.9 U
Chloroform (Trichloromethane)	µg/kg	160	2.5 J	180 U	71 U	340 U	0.27 J	79 U	2.1 J
cis-1,2-Dichloroethene	µg/kg	NV	4.4 J	3000	1700	11000	60	66 J	11
Methylene chloride	µg/kg	475	11 U	690 U	290 U	170 J	9.6 U	170 J	12 U
Tetrachloroethene	µg/kg	4.88	580	130000	50000	220000	170	120	18
trans-1,2-Dichloroethene	µg/kg	3247	0.55 J	180 U	71 U	79 J	19	79 U	6.4
Trichloroethene	µg/kg	30.8	52	16000	7300	57000	41	180	71
Vinyl chloride	µg/kg	0.73	1.5 J	28 J	71 U	340 U	260	20 J	90
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUA-40	WMUA-40	WMUA-40	WMUA-41	WMUA-41	WMUA-41	WMUA-41	
Sample ID:		S-060612-KB-WMUA40-009	S-060612-KB-WMUA40-010	S-060612-KB-WMUA40-011	S-061212-KB-WMUA41-001	S-061212-KB-WMUA41-002	S-061212-KB-WMUA41-003	S-061212-KB-WMUA41-004	
Sample Date:		6/6/2012	6/6/2012	6/6/2012	6/12/2012	6/12/2012	6/12/2012	6/12/2012	
Sample Depth:		57.5 to 57.5 ft BGS	67 to 67 ft BGS	75 to 75 ft BGS	9 to 9 ft BGS	10 to 10 ft BGS	13.5 to 13.5 ft BGS	17 to 17 ft BGS	
elev_MLLW		-38.41 to -38.41	-47.91 to -47.91	-55.91 to -55.91	10.67 to 10.67	9.67 to 9.67	6.17 to 6.17	2.67 to 2.67	
elev_NGVD		-44.7 to -44.7	-54.2 to -54.2	-62.2 to -62.2	4.4 to 4.4	3.4 to 3.4	-0.2 to -0.2	-3.6 to -3.6	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.8 U	60 U	5.3 U	1400 U	330 U	4.8 U	37000 U
1,1,2-Trichloroethane	µg/kg	15.2	5.8 U	60 U	5.3 U	1400 U	330 U	4.8 U	37000 U
1,1-Dichloroethene	µg/kg	1.13	5.8 U	60 U	5.3 U	1400 U	330 U	0.39 J	37000 U
Carbon tetrachloride	µg/kg	1.93	5.8 U	60 U	5.3 U	1400 U	330 U	4.8 U	37000 U
Chloroform (Trichloromethane)	µg/kg	160	5.8 U	110	5.3 U	300 J	72 J	5.5	37000 U
cis-1,2-Dichloroethene	µg/kg	NV	5.8 U	150	0.69 J	1400 U	330 U	0.46 J	37000 U
Methylene chloride	µg/kg	475	12 U	61 J	11 U	590 J	140 J	9.6 U	26000 J
Tetrachloroethene	µg/kg	4.88	3.0 J	80	1.4 J	62000	11000	1300	3300000
trans-1,2-Dichloroethene	µg/kg	3247	5.8 U	9.6 J	43	1400 U	330 U	4.8 U	37000 U
Trichloroethene	µg/kg	30.8	0.68 J	3400	4.6 J	1500	330 U	26	77000
Vinyl chloride	µg/kg	0.73	1.0 J	60 U	3700	1400 U	330 U	0.72 J	37000 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUA-41	WMUA-41	WMUA-41	WMUA-41	WMUA-41	WMUA-41	WMUA-41	
Sample ID:		S-061212-KB-WMUA41-005	S-061212-KB-WMUA41-006	S-061212-KB-WMUA41-007	S-061212-KB-WMUA41-008	S-061212-KB-WMUA41-009	S-061312-KB-WMUA41-010	S-061312-KB-FD-001	
Sample Date:		6/12/2012	6/12/2012	6/12/2012	6/12/2012	6/12/2012	6/13/2012	6/13/2012	
Sample Depth:		19.5 to 19.5 ft BGS	24 to 24 ft BGS	28 to 28 ft BGS	33 to 33 ft BGS	41.5 to 41.5 ft BGS	52 to 52 ft BGS	52 to 52 ft BGS	
elev_MLLW		0.17 to 0.17	-4.33 to -4.33	-8.33 to -8.33	-13.33 to -13.33	-21.83 to -21.83	-32.33 to -32.33	-32.33 to -32.33	
elev_NGVD		-6.2 to -6.2	-10.6 to -10.6	-14.6 to -14.6	-19.6 to -19.6	-28.2 to -28.2	-38.6 to -38.6	-38.6 to -38.6 (Duplicate)	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3100 U	610 U	150 U	5.1 U	61 U	5.7 U	5.9 U
1,1,2-Trichloroethane	µg/kg	15.2	3100 U	610 U	150 U	5.1 U	61 U	5.7 U	5.9 U
1,1-Dichloroethene	µg/kg	1.13	3100 U	610 U	150 U	0.53 J	61 U	0.38 J	0.56 J
Carbon tetrachloride	µg/kg	1.93	3100 U	610 U	150 U	5.1 U	61 U	5.7 U	5.9 U
Chloroform (Trichloromethane)	µg/kg	160	3100 U	610 U	150 U	5.1 U	61 U	0.18 J	5.9 U
cis-1,2-Dichloroethene	µg/kg	NV	22000	41000	7900	18	130	3.0 J	4.2 J
Methylene chloride	µg/kg	475	1800 J	380 J	95 J	11 U	29 J	12 U	12 U
Tetrachloroethene	µg/kg	4.88	180000	170 J	3000	17	78	4.5 J	2.2 J
trans-1,2-Dichloroethene	µg/kg	3247	3100 U	180 J	72 J	7.9	40 J	0.81 J	1.4 J
Trichloroethene	µg/kg	30.8	100000	610 U	1700	16	260	0.52 J	0.40 J
Vinyl chloride	µg/kg	0.73	3100 U	2100	1500	130	1700	15	17
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUA-41	WMUA-41	WMUA-41	WMUC-1	WMUC-1	WMUC-1	WMUC-1	WMUC-2	WMUC-2		
Sample ID:	S-061312-KB-WMUA41-011	S-061312-KB-WMUA41-012	S-061312-KB-WMUA41-013	S-WMUC1-6.3-7.3	S-WMUC1-10.3-12.0	S-WMUC1-15-17	S-WMUC1-20.3-22.3	S-WMUC2-7.1-7.7	S-WMUC2-10-12		
Sample Date:	6/13/2012	6/13/2012	6/13/2012	6/9/2004	6/9/2004	6/9/2004	6/9/2004	6/9/2004	6/9/2004		
Sample Depth:	64 to 64 ft BGS	66.5 to 66.5 ft BGS	74 to 74 ft BGS	6.3 to 7.3 ft bgs	10.3 to 12 ft bgs	15 to 17 ft bgs	20.3 to 22.3 ft bgs	7.1 to 7.7 ft bgs	10 to 12 ft bgs		
elev_MLLW	-44.33 to -44.33	-46.83 to -46.83	-54.33 to -54.33	11.62 to 10.62	7.62 to 5.92	2.92 to 0.92	-2.38 to -4.38	10.82 to 10.22	7.92 to 5.92		
elev_NGVD	-50.6 to -50.6	-53.2 to -53.2	-60.6 to -60.6	5.3 to 4.3	1.3 to -0.4	-3.4 to -5.4	-8.7 to -10.7	4.5 to 3.9	1.6 to -0.4		
Parameters	Units	Cs									
Volatile Organic Compounds											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.9 U	5.8 U	72 U	110	0.93 U	0.94 U	4.55 U	71	4.6 J
1,1,2-Trichloroethane	µg/kg	15.2	5.9 U	5.8 U	72 U	0.54 U	0.61 U	0.62 U	3.00 U	2.65 U	0.68 U
1,1-Dichloroethene	µg/kg	1.13	5.9 U	5.8 U	50 J	0.89 U	1.01 U	1.01 U	4.90 U	4.35 U	1.13 U
Carbon tetrachloride	µg/kg	1.93	5.9 U	5.8 U	72 U	0.90 U	1.02 U	1.03 U	5.00 U	4.45 U	1.14 U
Chloroform (Trichloromethane)	µg/kg	160	5.9 U	5.8 U	72 U	1.61 U	1.83 U	1.83 U	8.90 U	7.90 U	2.04 U
cis-1,2-Dichloroethene	µg/kg	NV	5.9 U	1.9 J	4200	6.1	1.37 U	1.37 U	6.65 U	5.3 J	1.52 U
Methylene chloride	µg/kg	475	12 U	12 U	290 U	6.0	5.86 U	5.87 U	2.85 U	5.3 J	6.52 U
Tetrachloroethene	µg/kg	4.88	4.8 J	4.0 J	72 U	15	3.5 J	5.6 J	3.35 U	52	6.8 J
trans-1,2-Dichloroethene	µg/kg	3247	5.9 U	290	490	1.52 U	1.73 U	1.73 U	8.40 U	7.50 U	1.92 U
Trichloroethene	µg/kg	30.8	5.9 U	5.8 U	72 U	81	0.91 U	0.91 U	4.40 U	78	3.7 J
Vinyl chloride	µg/kg	0.73	2100	3500	6900	1.89 U	2.15 U	2.15 U	10.4 U	9.30 U	2.39 U
Semi-volatile Organic Compounds											
Hexachlorobenzene	µg/kg	0.062	-	-	-	339.1 U	77.2 U	77.3 U	75.0 U	333.9 U	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	330.1 U	75.2 U	75.3 U	73.0 U	325.0 U	-
Metals~Total											
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	440	13.3 U	13.3 U	12.9 U	525	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-
PCBs											
Total PCBs	µg/kg	0.053	-	-	-	130	7.0 U	7.1 U	6.8 U	95	-
Pesticides											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	WMUC-2	WMUC-2	WMUG-01	WMUG-01	WMUG-01	WMUG-01	WMUG-01	WMUG-01	
Sample ID:	S-WMUC2-16-18	S-WMUC2-20.5-22.5	S-053112-KB-WMUG01-001	S-053112-KB-WMUG01-002	S-053112-KB-WMUG01-003	S-053112-KB-WMUG01-004	S-053112-KB-WMUG01-005		
Sample Date:	6/9/2004	6/9/2004	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	
Sample Depth:	16 to 18 ft bgs	20.5 to 22.5 ft bgs	8.5 to 8.5 ft BGS	18 to 18 ft BGS	19 to 19 ft BGS	21 to 21 ft BGS	26.3 to 26.3 ft BGS		
elev_MLLW	1.92 to -0.08	-2.58 to -4.58	10.59 to 10.59	1.09 to 1.09	0.09 to 0.09	-1.91 to -1.91	-7.21 to -7.21		
elev_NGVD	-4.4 to -6.4	-8.9 to -10.9	4.3 to 4.3	-5.2 to -5.2	-6.2 to -6.2	-8.2 to -8.2	-13.5 to -13.5		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	0.95 U	0.92 U	3.9 U	140 U	16000 U	180 U	590 U
1,1,2-Trichloroethane	µg/kg	15.2	0.63 U	0.61 U	3.9 U	140 U	16000 U	180 U	590 U
1,1-Dichloroethene	µg/kg	1.13	1.03 U	1.00 U	3.9 U	140 U	16000 U	180 U	590 U
Carbon tetrachloride	µg/kg	1.93	1.05 U	1.01 U	0.32 J	140 U	6100 J	38 J	590 U
Chloroform (Trichloromethane)	µg/kg	160	1.87 U	1.81 U	0.91 J	240	4500 J	110 J	2400
cis-1,2-Dichloroethene	µg/kg	NV	4.4 J	4.2 J	3.9 U	19 J	16000 U	180 U	140 J
Methylene chloride	µg/kg	475	5.99 U	5.78 U	7.8 U	560 U	61000 U	160 J	2400 U
Tetrachloroethene	µg/kg	4.88	130	3.3 J	78	70000	1000000	130000	520000
trans-1,2-Dichloroethene	µg/kg	3247	9.4	4.5 J	3.9 U	140 U	16000 U	180 U	590 U
Trichloroethene	µg/kg	30.8	38	8.1	9.8	3900	120000	4900	170000
Vinyl chloride	µg/kg	0.73	290 J	25 J	0.29 J	30 J	16000 U	180 U	590 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	78.8 U	76.1 U	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	76.7 U	74.1 U	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	13.6 U	13.1 U	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	7.2 U	6.9 U	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>WMUG-01</i>	<i>WMUG-01</i>	<i>WMUG-01</i>	<i>WMUG-01</i>	<i>WMUG-01</i>	<i>WMUG-01</i>	<i>WMUG-01</i>
<i>Sample ID:</i>			<i>S-053112-KB-WMUG01-006</i>	<i>S-053112-KB-WMUG01-007</i>	<i>S-053112-KB-WMUG01-008</i>	<i>S-053112-KB-WMUG01-009</i>	<i>FD-053112-KB-WMUG01-009</i>	<i>S-053112-KB-WMUG01-010</i>	<i>S-053112-KB-WMUG01-011</i>
<i>Sample Date:</i>			<i>5/31/2012</i>	<i>5/31/2012</i>	<i>5/31/2012</i>	<i>5/31/2012</i>	<i>5/31/2012</i>	<i>5/31/2012</i>	<i>5/31/2012</i>
<i>Sample Depth:</i>			<i>34 to 34 ft BGS</i>	<i>37 to 37 ft BGS</i>	<i>44 to 44 ft BGS</i>	<i>47 to 47 ft BGS</i>	<i>47 to 47 ft BGS</i>	<i>57.5 to 57.5 ft BGS</i>	<i>64 to 64 ft BGS</i>
<i>elev_MLLW</i>			<i>-14.91 to -14.91</i>	<i>-17.91 to -17.91</i>	<i>-24.91 to -24.91</i>	<i>-27.91 to -27.91</i>	<i>-27.91 to -27.91</i>	<i>-38.41 to -38.41</i>	<i>-44.91 to -44.91</i>
<i>elev_NGVD</i>			<i>-21.2 to -21.2</i>	<i>-24.2 to -24.2</i>	<i>-31.2 to -31.2</i>	<i>-34.2 to -34.2</i>	<i>-34.2 to -34.2</i>	<i>-44.7 to -44.7</i>	<i>-51.2 to -51.2</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>	<i>(Duplicate)</i>						
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	140 U	330 U	140 U	68 U	74 U	75 U	76 U
1,1,2-Trichloroethane	µg/kg	15.2	140 U	330 U	140 U	68 U	74 U	75 U	76 U
1,1-Dichloroethene	µg/kg	1.13	82 J	91 J	47 J	36 J	44 J	72 J	59 J
Carbon tetrachloride	µg/kg	1.93	140 U	330 U	140 U	68 U	74 U	75 U	76 U
Chloroform (Trichloromethane)	µg/kg	160	1600	180 J	92 J	20 J	26 J	48 J	76 U
cis-1,2-Dichloroethene	µg/kg	NV	160	810	5800	5900	5900	16000	890
Methylene chloride	µg/kg	475	370 J	1400 U	530 U	280 U	300 U	300 U	310 U
Tetrachloroethene	µg/kg	4.88	82000	420000	60000	230	250	110	43000
trans-1,2-Dichloroethene	µg/kg	3247	34 J	52 J	180	270	340	310	90
Trichloroethene	µg/kg	30.8	62000	140000	12000	100	140	140	68000
Vinyl chloride	µg/kg	0.73	21 J	340	21000	18000	21000	17000	44 J
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	WMUG-01	WMUG-02	WMUG-02	WMUG-02	WMUG-02	WMUG-02	WMUG-02	WMUG-02	
Sample ID:	S-060112-KB-WMUG01-012	S-052112-BW-WMUG02-001	S-052112-BW-WMUG02-002	S-052212-BW-WMUG02-003	S-052212-BW-WMUG02-004	S-052212-BW-WMUG02-005	S-052212-BW-WMUG02-006		
Sample Date:	6/1/2012	5/21/2012	5/21/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	
Sample Depth:	73.5 to 73.5 ft BGS	10 to 10 ft BGS	17 to 17 ft BGS	29.2 to 29.2 ft BGS	36 to 36 ft BGS	44 to 44 ft BGS	55 to 55 ft BGS		
elev_MLLW	-54.41 to -54.41	8.64 to 8.64	1.64 to 1.64	-10.56 to -10.56	-17.36 to -17.36	-25.36 to -25.36	-36.36 to -36.36		
elev_NGVD	-60.7 to -60.7	2.3 to 2.3	-4.7 to -4.7	-16.9 to -16.9	-23.7 to -23.7	-31.7 to -31.7	-42.7 to -42.7		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	80 U	5.0 U	1600	69 U	180 U	65 U	66 U
1,1,2-Trichloroethane	µg/kg	15.2	80 U	5.0 U	210 U	69 U	180 U	65 U	66 U
1,1-Dichloroethene	µg/kg	1.13	250	5.0 U	62 J	59 J	91 J	81	52 J
Carbon tetrachloride	µg/kg	1.93	80 U	1.6 J	950	69 U	180 U	65 U	66 U
Chloroform (Trichloromethane)	µg/kg	1.60	80 U	6.0	3400	620	220	81	66 U
cis-1,2-Dichloroethene	µg/kg	NV	5800	0.39 J	54 J	160	250	590	1800
Methylene chloride	µg/kg	475	320 U	10 U	87 J	180 J	200 J	53 J	270 U
Tetrachloroethene	µg/kg	4.88	91	250	91000 J	40000	190000	2100	16000
trans-1,2-Dichloroethene	µg/kg	3247	24 J	5.0 U	210 U	26 J	60 J	130	72
Trichloroethene	µg/kg	30.8	29000	34	27000	41000	100000	8500	27000
Vinyl chloride	µg/kg	0.73	14 J	5.0 U	210 U	69 U	180 U	2000	2200
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		WMUG-02	WMUG-02	WMUG-02	WMUG-03	WMUG-03	WMUG-03	WMUG-03	
<i>Sample ID:</i>		S-052212-BW-WMUG02-007	S-052212-BW-WMUG02-008	S-052212-BW-WMUG02-009	S-052312-BW-WMUG03-001	S-052312-BW-WMUG03-002	S-052312-BW-WMUG03-003	S-052312-BW-WMUG03-004	
<i>Sample Date:</i>		5/22/2012	5/22/2012	5/22/2012	5/23/2012	5/23/2012	5/23/2012	5/23/2012	
<i>Sample Depth:</i>		65 to 65 ft BGS	69.9 to 69.9 ft BGS	75 to 75 ft BGS	9 to 9 ft BGS	16.7 to 16.7 ft BGS	17.7 to 17.7 ft BGS	18.7 to 18.7 ft BGS	
<i>elev_MLLW</i>		-46.36 to -46.36	-51.26 to -51.26	-56.36 to -56.36	9.1 to 9.1	1.4 to 1.4	0.4 to 0.4	-0.6 to -0.6	
<i>elev_NGVD</i>		-52.7 to -52.7	-57.6 to -57.6	-62.7 to -62.7	2.8 to 2.8	-4.9 to -4.9	-5.9 to -5.9	-6.9 to -6.9	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	78 UJ	73 U	72 U	5.6 U	610	27000	15000
1,1,2-Trichloroethane	µg/kg	15.2	78 UJ	73 U	72 U	5.6 U	480 U	940 U	390 U
1,1-Dichloroethene	µg/kg	1.13	78 UJ	130	96	5.6 U	480 U	260 J	390 U
Carbon tetrachloride	µg/kg	1.93	78 UJ	73 U	72 U	1.6 J	160 J	1200	390 U
Chloroform (Trichloromethane)	µg/kg	160	78 UJ	73 U	72 U	33	1300	20000	10000
cis-1,2-Dichloroethene	µg/kg	NV	56 J	52000	28000	1.2 J	190 J	150 J	69 J
Methylene chloride	µg/kg	475	320 UJ	290 U	290 U	12 U	800 J	1100 J	490 J
Tetrachloroethene	µg/kg	4.88	190 J	45 J	29 J	980	420000	1400000	270000
trans-1,2-Dichloroethene	µg/kg	3247	78 UJ	710	310	5.6 U	480 U	940 U	390 U
Trichloroethene	µg/kg	30.8	880 J	77	37 J	110	6600	170000	57000
Vinyl chloride	µg/kg	0.73	78 UJ	17 J	11000	5.6 U	480 U	940 U	390 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUG-03</i>	<i>WMUG-03</i>	<i>WMUG-03</i>	<i>WMUG-03</i>	<i>WMUG-03</i>	<i>WMUG-03</i>	<i>WMUG-03</i>	
<i>Sample ID:</i>		<i>S-052312-BW-WMUG03-005</i>	<i>S-052312-BW-WMUG03-006</i>	<i>S-052312-BW-WMUG03-007</i>	<i>S-053012-KB-WMUG03-008</i>	<i>S-053012-KB-WMUG03-009</i>	<i>S-053012-KB-WMUG03-010</i>	<i>S-053012-KB-WMUG03-011</i>	
<i>Sample Date:</i>		<i>5/23/2012</i>	<i>5/23/2012</i>	<i>5/23/2012</i>	<i>5/30/2012</i>	<i>5/30/2012</i>	<i>5/30/2012</i>	<i>5/30/2012</i>	
<i>Sample Depth:</i>		<i>23 to 23 ft BGS</i>	<i>29.2 to 29.2 ft BGS</i>	<i>29.9 to 29.9 ft BGS</i>	<i>39 to 39 ft BGS</i>	<i>49 to 49 ft BGS</i>	<i>51.5 to 51.5 ft BGS</i>	<i>58 to 58 ft BGS</i>	
<i>elev_MLLW</i>		<i>-4.9 to -4.9</i>	<i>-11.1 to -11.1</i>	<i>-11.8 to -11.8</i>	<i>-20.9 to -20.9</i>	<i>-30.9 to -30.9</i>	<i>-33.4 to -33.4</i>	<i>-39.9 to -39.9</i>	
<i>elev_NGVD</i>		<i>-11.2 to -11.2</i>	<i>-17.4 to -17.4</i>	<i>-18.1 to -18.1</i>	<i>-27.2 to -27.2</i>	<i>-37.2 to -37.2</i>	<i>-39.7 to -39.7</i>	<i>-46.2 to -46.2</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1400	350 U	1100 U	63 U	180 U	74 U	74 U
1,1,2-Trichloroethane	µg/kg	15.2	130 U	350 U	1100 U	63 U	180 U	74 U	74 U
1,1-Dichloroethene	µg/kg	1.13	75 J	350	680 J	63 U	180 U	35 J	98
Carbon tetrachloride	µg/kg	1.93	31 J	350 U	1100 U	63 U	180 U	74 U	74 U
Chloroform (Trichloromethane)	µg/kg	160	2400	3900	4200	14 J	28 J	74 U	74 U
cis-1,2-Dichloroethene	µg/kg	NV	130 U	370	460 J	97	670	560	1200
Methylene chloride	µg/kg	475	130 J	1100 J	1300 J	28 J	82 J	300 U	300 U
Tetrachloroethene	µg/kg	4.88	98000	280000	1800000	14000	97000	49000	13000
trans-1,2-Dichloroethene	µg/kg	3247	130 U	160 J	240 J	63 U	28 J	59 J	32 J
Trichloroethene	µg/kg	30.8	20000 J	320000	1300000	1700	32000	38000	65000
Vinyl chloride	µg/kg	0.73	130 U	350 U	1100 U	330	400	16 J	12 J
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUG-03	WMUG-03	WMUG-04/21C	WMUG-04/21C	WMUG-04/21C	WMUG-04/21C	WMUG-04/21C	WMUG-04/21C
Sample ID:		S-053012-KB-WMUG03-012	S-053012-KB-WMUG03-013	S-061812-MD-21C-001	S-061812-MD-21C-002	S-061812-MD-21C-003	S-061912-MD-21C-004	S-061912-MD-21C-006	S-061912-MD-21C-007
Sample Date:		5/30/2012	5/30/2012	6/18/2012	6/18/2012	6/18/2012	6/19/2012	6/19/2012	6/19/2012
Sample Depth:		68 to 68 ft BGS	72 to 72 ft BGS	15 to 15 ft BGS	25 to 25 ft BGS	34.5 to 34.5 ft BGS	44 to 44 ft BGS	55 to 55 ft BGS	64 to 64 ft BGS
elev_MLLW		-49.9 to -49.9	-53.9 to -53.9	4.25 to 4.25	-5.75 to -5.75	-15.25 to -15.25	-24.75 to -24.75	-35.75 to -35.75	-44.75 to -44.75
elev_NGVD		-56.2 to -56.2	-60.2 to -60.2	-2.1 to -2.1	-12.1 to -12.1	-21.6 to -21.6	-31.1 to -31.1	-42.1 to -42.1	-51.1 to -51.1
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6.8 U	5.5 U	5.0 U	5.6 U	5.9 U	5.6 U	5.6 U
1,1,2-Trichloroethane	µg/kg	15.2	6.8 U	5.5 U	5.0 U	5.6 U	5.9 U	5.6 U	5.6 U
1,1-Dichloroethene	µg/kg	1.13	5.2 J	5.5 U	0.77 J	3.2 J	5.9 U	5.6 U	5.6 U
Carbon tetrachloride	µg/kg	1.93	6.8 U	5.5 U	5.0 U	5.6 U	5.9 U	5.6 U	5.6 U
Chloroform (Trichloromethane)	µg/kg	160	6.8 U	5.5 U	0.42 J	0.49 J	5.9 U	5.6 U	5.6 U
cis-1,2-Dichloroethene	µg/kg	NV	2400	4.3 J	14	870	1.2 J	2.3 J	5.6 U
Methylene chloride	µg/kg	475	14 U	11 U	9.9 U	12 U	12 U	12 U	12 U
Tetrachloroethene	µg/kg	4.88	1.6 J	20	2.7 J	140	1.9 J	0.70 J	1.1 J
trans-1,2-Dichloroethene	µg/kg	3247	17	2.7 J	4.7 J	7.6	1.6 J	1.8 J	5.6 U
Trichloroethene	µg/kg	30.8	0.59 J	11	55	1900	6.0	4.0 J	1.8 J
Vinyl chloride	µg/kg	0.73	2300	200	66	230	39	0.81 J	0.40 J
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	WMUG-04/21C	WMUG-04/21C	WMUG-04/21C	WMUG-04/21C	WMUG-04/21C	WMUG-04/21C	WMUG-04/21C	WMUG-04/21C	WMUG-04/21C
Sample ID:	S-061912-MD-21C-009	S-061912-MD-21C-010	S-061912-MD-21C-011	S-061912-MD-21C-012	S-061912-MD-21C-013	S-061912-MD-FD-001	S-062012-MD-21C-014	S-062012-MD-21C-015	
Sample Date:	6/19/2012	6/19/2012	6/19/2012	6/19/2012	6/19/2012	6/19/2012	6/20/2012	6/20/2012	
Sample Depth:	73 to 73 ft BGS	85 to 85 ft BGS	95 to 95 ft BGS	105 to 105 ft BGS	108.5 to 108.5 ft BGS	108.5 to 108.5 ft BGS	115 to 115 ft BGS	125 to 125 ft BGS	
elev_MLLW	-53.75 to -53.75	-65.75 to -65.75	-75.75 to -75.75	-85.75 to -85.75	-89.25 to -89.25	-89.25 to -89.25	-95.75 to -95.75	-105.75 to -105.75	
elev_NGVD	-60.1 to -60.1	-72.1 to -72.1	-82.1 to -82.1	-92.1 to -92.1	-95.6 to -95.6	-95.6 to -95.6	-102.1 to -102.1	-112.1 to -112.1	
							(Duplicate)		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.1 U	5.5 U	5.1 U	5.8 U	5.7 U	5.7 U	4.8 U
1,1,2-Trichloroethane	µg/kg	15.2	5.1 U	5.5 U	5.1 U	5.8 U	5.7 U	5.7 U	4.8 U
1,1-Dichloroethene	µg/kg	1.13	5.1 U	5.5 U	5.1 U	5.8 U	5.7 U	5.7 U	4.8 U
Carbon tetrachloride	µg/kg	1.93	5.1 U	5.5 U	5.1 U	5.8 U	5.7 U	5.7 U	4.8 U
Chloroform (Trichloromethane)	µg/kg	160	3.1 J	5.5 U	0.17 J	5.8 U	5.7 U	5.7 U	4.8 U
cis-1,2-Dichloroethene	µg/kg	NV	0.59 J	0.82 J	2.4 J	5.8 U	5.7 U	5.7 U	4.8 U
Methylene chloride	µg/kg	475	11 U	11 U	11 U	12 U	12 U	12 U	9.5 U
Tetrachloroethene	µg/kg	4.88	1.5 J	2.3 J	2.7 J	5.8 U	5.7 U	5.7 U	4.8 U
trans-1,2-Dichloroethene	µg/kg	3247	5.1 U	5.5 U	5.1 U	5.8 U	5.7 U	5.7 U	4.8 U
Trichloroethene	µg/kg	30.8	1.3 J	6.4	5.2	5.8 U	5.7 U	5.7 U	4.8 U
Vinyl chloride	µg/kg	0.73	4.4 J	0.79 J	0.68 J	5.8 U	5.7 U	5.7 U	4.8 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUG-04/21C</i>	<i>WMUG-04/21C</i>	<i>WMUG-04/21C</i>	<i>WMUG-04/21C</i>	<i>WMUG-04/21C</i>	<i>WMUG-05</i>	<i>WMUG-05</i>	<i>WMUG-05</i>	
<i>Sample ID:</i>		<i>S-062012-MD-21C-017</i>	<i>S-062012-MD-21C-018</i>	<i>S-062012-MD-21C-019</i>	<i>S-062012-MD-21C-020</i>	<i>S-062112-MD-21C-021</i>	<i>S-060212-KB-WMUG05-001</i>	<i>S-060212-KB-WMUG05-002</i>	<i>S-060212-KB-WMUG05-003</i>	
<i>Sample Date:</i>		<i>6/20/2012</i>	<i>6/20/2012</i>	<i>6/20/2012</i>	<i>6/20/2012</i>	<i>6/21/2012</i>	<i>6/2/2012</i>	<i>6/2/2012</i>	<i>6/2/2012</i>	
<i>Sample Depth:</i>		<i>135 to 135 ft BGS</i>	<i>145 to 145 ft BGS</i>	<i>155 to 155 ft BGS</i>	<i>165 to 165 ft BGS</i>	<i>174 to 174 ft BGS</i>	<i>6.5 to 6.5 ft BGS</i>	<i>17.5 to 17.5 ft BGS</i>	<i>28 to 28 ft BGS</i>	
<i>elev_MLLW</i>		<i>-115.75 to -115.75</i>	<i>-125.75 to -125.75</i>	<i>-135.75 to -135.75</i>	<i>-145.75 to -145.75</i>	<i>-154.75 to -154.75</i>	<i>12.22 to 12.22</i>	<i>1.22 to 1.22</i>	<i>-9.28 to -9.28</i>	
<i>elev_NGVD</i>		<i>-122.1 to -122.1</i>	<i>-132.1 to -132.1</i>	<i>-142.1 to -142.1</i>	<i>-152.1 to -152.1</i>	<i>-161.1 to -161.1</i>	<i>5.9 to 5.9</i>	<i>-5.1 to -5.1</i>	<i>-15.6 to -15.6</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6.5 U	5.3 U	5.6 U	5.4 U	5.3 U	5.3 U	89 U	69 U
1,1,2-Trichloroethane	µg/kg	15.2	6.5 U	5.3 U	5.6 U	5.4 U	5.3 U	5.3 U	89 U	69 U
1,1-Dichloroethene	µg/kg	1.13	6.5 U	5.3 U	5.6 U	5.4 U	5.3 U	5.3 U	89 U	65 J
Carbon tetrachloride	µg/kg	1.93	6.5 U	5.3 U	5.6 U	5.4 U	5.3 U	5.3 U	89 U	69 U
Chloroform (Trichloromethane)	µg/kg	160	6.5 U	0.42 J	5.6 U	5.4 U	5.3 U	0.52 J	25 J	12 J
cis-1,2-Dichloroethene	µg/kg	NV	6.5 U	0.39 J	5.6 U	5.4 U	5.3 U	0.60 J	120	3600
Methylene chloride	µg/kg	475	13 U	11 U	12 U	11 U	11 U	11 U	360 U	280 U
Tetrachloroethene	µg/kg	4.88	6.5 U	0.71 J	5.6 U	5.4 U	5.3 U	100	23000	39000
trans-1,2-Dichloroethene	µg/kg	3247	6.5 U	5.3 U	5.6 U	5.4 U	5.3 U	5.3 U	120	36 J
Trichloroethene	µg/kg	30.8	6.5 U	0.98 J	5.6 U	5.4 U	5.3 U	30	7400	90000
Vinyl chloride	µg/kg	0.73	6.5 U	0.96 J	5.6 U	5.4 U	5.3 U	0.33 J	1900	320
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		WMUG-05	WMUG-05	WMUG-05	WMUG-05	WMUG-05	WMUG-05	WMUG-05	
Sample ID:		S-060212-KB-WMUG05-004	S-060312-KB-WMUG05-005	S-060312-KB-WMUG05-006	S-060312-KB-WMUG05-007	S-060312-KB-WMUG05-008	S-060312-KB-WMUG05-009	S-060312-KB-WMUG05-010	
Sample Date:		6/2/2012	6/3/2012	6/3/2012	6/3/2012	6/3/2012	6/3/2012	6/3/2012	
Sample Depth:		33 to 33 ft BGS	42 to 42 ft BGS	46 to 46 ft BGS	53.5 to 53.5 ft BGS	57.5 to 57.5 ft BGS	62.5 to 62.5 ft BGS	75 to 75 ft BGS	
elev_MLLW		-14.28 to -14.28	-23.28 to -23.28	-27.28 to -27.28	-34.78 to -34.78	-38.78 to -38.78	-43.78 to -43.78	-56.28 to -56.28	
elev_NGVD		-20.6 to -20.6	-29.6 to -29.6	-33.6 to -33.6	-41.1 to -41.1	-45.1 to -45.1	-50.1 to -50.1	-62.6 to -62.6	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	76 U	84 U	96 U	71 U	73 U	79 U	72 U
1,1,2-Trichloroethane	µg/kg	15.2	76 U	84 U	96 U	71 U	73 U	79 U	72 U
1,1-Dichloroethene	µg/kg	1.13	59 J	32 J	96 U	71 U	210	170 J	96
Carbon tetrachloride	µg/kg	1.93	76 U	84 U	96 U	71 U	73 U	79 U	72 U
Chloroform (Trichloromethane)	µg/kg	160	95	84 U	96 U	13 J	73 U	79 U	72 U
cis-1,2-Dichloroethene	µg/kg	NV	630	9500	17 J	14 J	41000	6500 J	2700
Methylene chloride	µg/kg	475	200 J	340 U	390 U	290 U	300 U	320 U	290 U
Tetrachloroethene	µg/kg	4.88	38000	30000	96 U	91	63 J	15000 J	72 U
trans-1,2-Dichloroethene	µg/kg	3247	32 J	37 J	230	100	200	120 J	72 U
Trichloroethene	µg/kg	30.8	64000	44000	96 U	44 J	2900	72000 J	5700
Vinyl chloride	µg/kg	0.73	27 J	210	27000	21000	15000	790 J	72 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUG-06	WMUG-06	WMUG-06	WMUG-06	WMUG-06	WMUG-06	WMUG-06		
Sample ID:	S-060112-KB-WMUG06-001	S-060112-KB-WMUG06-002	S-060112-KB-WMUG06-003	S-060112-KB-WMUG06-004	S-060112-KB-WMUG06-005	S-060112-KB-WMUG06-006	S-060212-KB-WMUG06-007		
Sample Date:	6/1/2012	6/1/2012	6/1/2012	6/1/2012	6/1/2012	6/1/2012	6/2/2012		
Sample Depth:	7 to 7 ft BGS	16 to 16 ft BGS	18 to 18 ft BGS	20 to 20 ft BGS	21.5 to 21.5 ft BGS	38 to 38 ft BGS	42.5 to 42.5 ft BGS		
elev_MLLW	11.25 to 11.25	2.25 to 2.25	0.25 to 0.25	-1.75 to -1.75	-3.25 to -3.25	-19.75 to -19.75	-24.25 to -24.25		
elev_NGVD	4.9 to 4.9	-4.1 to -4.1	-6.1 to -6.1	-8.1 to -8.1	-9.6 to -9.6	-26.1 to -26.1	-30.6 to -30.6		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.3 U	1300	1300	1500	420	63 U	440 U
1,1,2-Trichloroethane	µg/kg	15.2	5.3 U	830 U	73 U	880 U	280 U	63 U	440 U
1,1-Dichloroethene	µg/kg	1.13	5.3 U	180 J	68 J	250 J	67 J	30 J	1000
Carbon tetrachloride	µg/kg	1.93	0.53 J	2900	400	880 U	55 J	63 U	440 U
Chloroform (Trichloromethane)	µg/kg	160	2.3 J	1000	880	560 J	190 J	210	2200
cis-1,2-Dichloroethene	µg/kg	NV	0.48 J	2200	370	1400	340	4300	260000
Methylene chloride	µg/kg	475	11 U	640 J	300 U	630 J	310 J	250 U	240 J
Tetrachloroethene	µg/kg	4.88	280	1200000	190000	400000	190000	190	29000 J
trans-1,2-Dichloroethene	µg/kg	3247	5.3 U	830 U	23 J	880 U	280 U	130	2300
Trichloroethene	µg/kg	30.8	36	250000	200000	830000	240000	3500	430000
Vinyl chloride	µg/kg	0.73	5.3 U	1600	180	3600	830	7000	49000
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUG-06</i>	<i>WMUG-06</i>	<i>WMUG-06</i>	<i>WMUG-06</i>	<i>WMUG-07</i>	<i>WMUG-07</i>	<i>WMUG-07</i>	
<i>Sample ID:</i>		<i>S-060212-KB-WMUG06-008</i>	<i>S-060212-KB-WMUG06-009</i>	<i>S-060212-KB-WMUG06-010</i>	<i>S-060212-KB-WMUG06-011</i>	<i>S-060312-KB-WMUG07-001</i>	<i>S-060312-KB-WMUG07-002</i>	<i>S-060412-KB-WMUG07-003</i>	
<i>Sample Date:</i>		<i>6/2/2012</i>	<i>6/2/2012</i>	<i>6/2/2012</i>	<i>6/2/2012</i>	<i>6/3/2012</i>	<i>6/3/2012</i>	<i>6/4/2012</i>	
<i>Sample Depth:</i>		<i>48.5 to 48.5 ft BGS</i>	<i>56 to 56 ft BGS</i>	<i>66 to 66 ft BGS</i>	<i>74.5 to 74.5 ft BGS</i>	<i>7.5 to 7.5 ft BGS</i>	<i>17.5 to 17.5 ft BGS</i>	<i>27 to 27 ft BGS</i>	
<i>elev_MLLW</i>		<i>-30.25 to -30.25</i>	<i>-37.75 to -37.75</i>	<i>-47.75 to -47.75</i>	<i>-56.25 to -56.25</i>	<i>10.99 to 10.99</i>	<i>0.99 to 0.99</i>	<i>-8.51 to -8.51</i>	
<i>elev_NGVD</i>		<i>-36.6 to -36.6</i>	<i>-44.1 to -44.1</i>	<i>-54.1 to -54.1</i>	<i>-62.6 to -62.6</i>	<i>4.7 to 4.7</i>	<i>-5.3 to -5.3</i>	<i>-14.8 to -14.8</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	130 U	71 U	5.7 U	4.9 U	5.4 U	78 U	69 U
1,1,2-Trichloroethane	µg/kg	15.2	130 U	71 U	5.7 U	4.9 U	5.4 U	31 J	69 U
1,1-Dichloroethene	µg/kg	1.13	29 J	75	53	6.1	5.4 U	78 U	130
Carbon tetrachloride	µg/kg	1.93	130 U	71 U	5.7 U	4.9 U	5.4 U	78 U	69 U
Chloroform (Trichloromethane)	µg/kg	160	130 U	71 U	5.7 U	4.9 U	2.5 J	78 U	63 J
cis-1,2-Dichloroethene	µg/kg	NV	1700	850	270	160	1.3 J	16 J	23000
Methylene chloride	µg/kg	475	490 U	290 U	36 U	9.8 U	11 U	320 U	280 U
Tetrachloroethene	µg/kg	4.88	56000	14000	2.6 J	1.9 J	180	740 J	46000
trans-1,2-Dichloroethene	µg/kg	3247	29 J	240	6.0	3.1 J	5.4 U	16 J	91
Trichloroethene	µg/kg	30.8	40000	52000	190	190	52	190 J	56000
Vinyl chloride	µg/kg	0.73	1300	38 J	5.1 J	0.87 J	5.4 U	190 J	880
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>WMUG-07</i>	<i>WMUG-07</i>	<i>WMUG-07</i>	<i>WMUG-07</i>	<i>WMUG-07</i>	<i>WMUG-07</i>	<i>WMUG-07</i>
<i>Sample ID:</i>			<i>S-060412-KB-WMUG07-004</i>	<i>S-060412-KB-WMUG07-005</i>	<i>FD-060412-KB-WMUG07-005</i>	<i>S-060412-KB-WMUG07-006</i>	<i>S-060412-KB-WMUG07-007</i>	<i>S-060412-KB-WMUG07-008</i>	<i>S-060412-KB-WMUG07-009</i>
<i>Sample Date:</i>			<i>6/4/2012</i>	<i>6/4/2012</i>	<i>6/4/2012</i>	<i>6/4/2012</i>	<i>6/4/2012</i>	<i>6/4/2012</i>	<i>6/4/2012</i>
<i>Sample Depth:</i>			<i>32 to 32 ft BGS</i>	<i>39.5 to 39.5 ft BGS</i>	<i>39.5 to 39.5 ft BGS</i>	<i>43.5 to 43.5 ft BGS</i>	<i>48 to 48 ft BGS</i>	<i>54.5 to 54.5 ft BGS</i>	<i>58 to 58 ft BGS</i>
<i>elev_MLLW</i>			<i>-13.51 to -13.51</i>	<i>-21.01 to -21.01</i>	<i>-21.01 to -21.01</i>	<i>-25.01 to -25.01</i>	<i>-29.51 to -29.51</i>	<i>-36.01 to -36.01</i>	<i>-39.51 to -39.51</i>
<i>elev_NGVD</i>			<i>-19.8 to -19.8</i>	<i>-27.3 to -27.3</i>	<i>-27.3 to -27.3</i>	<i>-31.3 to -31.3</i>	<i>-35.8 to -35.8</i>	<i>-42.3 to -42.3</i>	<i>-45.8 to -45.8</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>			<i>(Duplicate)</i>				
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	130 U	65 U	60 U	270 U	73 U	190 U	140 U
1,1,2-Trichloroethane	µg/kg	15.2	130 U	65 U	60 U	270 U	73 U	190 U	140 U
1,1-Dichloroethene	µg/kg	1.13	130 U	34 J	12 J	110 J	73 U	250	330
Carbon tetrachloride	µg/kg	1.93	130 U	65 U	60 U	270 U	73 U	190 U	140 U
Chloroform (Trichloromethane)	µg/kg	160	1500	700 J	250 J	65 J	73 U	260	140 U
cis-1,2-Dichloroethene	µg/kg	NV	1100	760 J	400 J	41000 J	73 U	150000	82000
Methylene chloride	µg/kg	475	390 J	280	240 U	1100 U	300 U	740 U	550 U
Tetrachloroethene	µg/kg	4.88	130000	26000	20000	180000 J	73 U	410	22000
trans-1,2-Dichloroethene	µg/kg	3247	130 U	65 U	60 U	140 J	120	570	260
Trichloroethene	µg/kg	30.8	100000	22000 J	11000 J	92000 J	73 U	190	72000
Vinyl chloride	µg/kg	0.73	130 U	610 J	200 J	16000 J	18000	4400	5300
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	WMUG-07	WMUG-07	WMUG-08	WMUG-08	WMUG-08	WMUG-08	WMUG-08	WMUG-08	
Sample ID:	S-060412-KB-WMUG07-010	S-060412-KB-WMUG07-011	S-070112-JC-WMUG08-001	S-070112-JC-WMUG08-002	S-070112-JC-WMUG08-003	S-070112-JC-WMUG08-004	S-070112-JC-WMUG08-005		
Sample Date:	6/4/2012	6/4/2012	7/1/2012	7/1/2012	7/1/2012	7/1/2012	7/1/2012	7/1/2012	
Sample Depth:	62 to 62 ft BGS	75 to 75 ft BGS	6 to 6 ft BGS	16.3 to 16.3 ft BGS	18 to 18 ft BGS	23.5 to 23.5 ft BGS	38 to 38 ft BGS		
elev_MLLW	-43.51 to -43.51	-56.51 to -56.51	11.97 to 11.97	1.67 to 1.67	-0.03 to -0.03	-5.53 to -5.53	-20.03 to -20.03		
elev_NGVD	-49.8 to -49.8	-62.8 to -62.8	5.6 to 5.6	-4.6 to -4.6	-6.4 to -6.4	-11.8 to -11.8	-26.4 to -26.4		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	75 U	170 U	5.4 U	0.73 J	3700 U	5900 U	5.2 U
1,1,2-Trichloroethane	µg/kg	15.2	75 U	170 U	5.4 U	6.5 U	3700 U	5900 U	5.2 U
1,1-Dichloroethene	µg/kg	1.13	120	86 J	5.4 U	6.5 U	3700 U	5900 U	5.2 U
Carbon tetrachloride	µg/kg	1.93	75 U	170 U	5.4 U	6.5 U	3700 U	5900 U	5.2 U
Chloroform (Trichloromethane)	µg/kg	160	75 U	170 U	0.27 J	1.9 J	3700 U	5900 U	2.8 J
cis-1,2-Dichloroethene	µg/kg	NV	4800	2300	5.4 U	3.2 J	730 J	3500 J	4.7 J
Methylene chloride	µg/kg	475	300 U	670 U	11 U	13 U	1500 J	2500 J	11 U
Tetrachloroethene	µg/kg	4.88	40000	16000	24	14	160000	240000	30
trans-1,2-Dichloroethene	µg/kg	3247	89	240	5.4 U	33	3700 U	5900 U	0.73 J
Trichloroethene	µg/kg	30.8	85000	91000	3.8 J	19	7800	57000	20
Vinyl chloride	µg/kg	0.73	99	170 U	4.7 J	1600	2600 J	8300	5.7
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>WMUG-08</i>	<i>WMUG-08</i>	<i>WMUG-08</i>	<i>WMUG-08</i>	<i>WMUG-08</i>	<i>WMUG-08</i>	<i>WMUG-08</i>
<i>Sample ID:</i>			<i>S-070112-JC-WMUG08-006</i>	<i>S-070112-JC-WMUG08-007</i>	<i>S-070112-JC-WMUG08-008</i>	<i>S-070112-JC-WMUG08-010</i>	<i>S-070112-JC-WMUG08-011</i>	<i>S-070112-JC-WMUG08-012</i>	<i>S-070112-JC-WMUG08-013</i>
<i>Sample Date:</i>			<i>7/1/2012</i>	<i>7/1/2012</i>	<i>7/1/2012</i>	<i>7/1/2012</i>	<i>7/1/2012</i>	<i>7/1/2012</i>	<i>7/1/2012</i>
<i>Sample Depth:</i>			<i>41 to 41 ft BGS</i>	<i>53 to 53 ft BGS</i>	<i>59.5 to 59.5 ft BGS</i>	<i>61.5 to 61.5 ft BGS</i>	<i>69 to 69 ft BGS</i>	<i>79 to 79 ft BGS</i>	<i>81.5 to 81.5 ft BGS</i>
<i>elev_MLLW</i>			<i>-23.03 to -23.03</i>	<i>-35.03 to -35.03</i>	<i>-41.53 to -41.53</i>	<i>-43.53 to -43.53</i>	<i>-51.03 to -51.03</i>	<i>-61.03 to -61.03</i>	<i>-63.53 to -63.53</i>
<i>elev_NGVD</i>			<i>-29.4 to -29.4</i>	<i>-41.4 to -41.4</i>	<i>-47.8 to -47.8</i>	<i>-49.8 to -49.8</i>	<i>-57.4 to -57.4</i>	<i>-67.4 to -67.4</i>	<i>-69.8 to -69.8</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.7 U	160 U	720 U	710 U	1400 U	620 U	420 U
1,1,2-Trichloroethane	µg/kg	15.2	5.7 U	160 U	260 J	710 U	1400 U	620 U	420 U
1,1-Dichloroethene	µg/kg	1.13	5.7 U	29 J	720 U	710 U	1400 U	620 U	420 U
Carbon tetrachloride	µg/kg	1.93	5.7 U	160 U	720 U	710 U	1400 U	620 U	420 U
Chloroform (Trichloromethane)	µg/kg	160	3.0 J	160 U	720 U	710 U	1400 U	620 U	420 U
cis-1,2-Dichloroethene	µg/kg	NV	3.1 J	7700	35000	26000	11000	270 J	420 U
Methylene chloride	µg/kg	475	12 U	640 U	400 J	380 J	680 J	290 J	180 J
Tetrachloroethene	µg/kg	4.88	8.7	7300	4700	20000	3000	620 U	420 U
trans-1,2-Dichloroethene	µg/kg	3247	1.6 J	61 J	720 U	710 U	780 J	370 J	250 J
Trichloroethene	µg/kg	30.8	9.1	470	2500	16000	57000	620 U	420 U
Vinyl chloride	µg/kg	0.73	190	4700	1300	2100	1100 J	14000	13000
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUG-08	WMUG-08	WMUG-08	WMUG-08	WMUG-08	WMUG-08	WMUG-08
Sample ID:		S-070112-JC-WMUG08-014	S-070112-JC-WMUG08-015	S-070212-JC-WMUG08-016	S-070212-JC-WMUG08-017	S-070212-JC-FD-001	S-070212-JC-WMUG08-018	S-070212-JC-WMUG08-019
Sample Date:		7/1/2012	7/1/2012	7/2/2012	7/2/2012	7/2/2012	7/2/2012	7/2/2012
Sample Depth:		89.5 to 89.5 ft BGS	94 to 94 ft BGS	97 to 97 ft BGS	109.5 to 109.5 ft BGS	109.5 to 109.5 ft BGS	119 to 119 ft BGS	128.5 to 128.5 ft BGS
elev_MLLW		-71.53 to -71.53	-76.03 to -76.03	-79.03 to -79.03	-91.53 to -91.53	-91.53 to -91.53	-101.03 to -101.03	-110.53 to -110.53
elev_NGVD		-77.8 to -77.8	-82.4 to -82.4	-85.4 to -85.4	-97.8 to -97.8	(Duplicate)	-107.4 to -107.4	-116.8 to -116.8
Parameters	Units	Cs						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	810 U	670 U	140 U	5.2 U	5.2 U	5.2 U
1,1,2-Trichloroethane	µg/kg	15.2	810 U	670 U	140 U	5.2 U	5.2 U	5.2 U
1,1-Dichloroethene	µg/kg	1.13	810 U	670 U	140 U	5.2 U	5.2 U	5.2 U
Carbon tetrachloride	µg/kg	1.93	810 U	670 U	140 U	5.2 U	5.2 U	5.2 U
Chloroform (Trichloromethane)	µg/kg	160	810 U	670 U	140 U	1.0 J	0.26 J	5.2 U
cis-1,2-Dichloroethene	µg/kg	NV	4600	1400	4600	5.4	3.1 J	5.2 U
Methylene chloride	µg/kg	475	310 J	450 J	550 U	11 U	11 U	11 U
Tetrachloroethene	µg/kg	4.88	810 U	670 U	140 U	0.48 J	5.2 U	5.2 U
trans-1,2-Dichloroethene	µg/kg	3247	640 J	390 J	140 U	0.36 J	5.2 U	5.2 U
Trichloroethene	µg/kg	30.8	810 U	670 U	140 U	2.2 J	0.66 J	5.2 U
Vinyl chloride	µg/kg	0.73	22000	15000	410	21 J	5.6 J	5.2 U
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
Metals~Total								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
PCBs								
Total PCBs	µg/kg	0.053	-	-	-	-	-	-
Pesticides								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>WMUG-08</i>		<i>WMUG-08</i>		<i>WMUG-08</i>		<i>WMUG-08</i>		<i>WMUG-08</i>		<i>WMUG-08</i>		<i>WMUG-09</i>	
<i>Sample ID:</i>			<i>S-070212-JC-WMUG08-020</i>		<i>S-070212-JC-WMUG08-021</i>		<i>S-070312-JC-WMUG08-025</i>		<i>S-070312-JC-WMUG08-026</i>		<i>S-070312-JC-WMUG08-027</i>		<i>S-070312-JC-WMUG08-028</i>		<i>S-060412-KB-WMUG09-001</i>	
<i>Sample Date:</i>			<i>7/2/2012</i>		<i>7/2/2012</i>		<i>7/3/2012</i>		<i>7/3/2012</i>		<i>7/3/2012</i>		<i>7/3/2012</i>		<i>6/4/2012</i>	
<i>Sample Depth:</i>			<i>139 to 139 ft BGS</i>		<i>141 to 141 ft BGS</i>		<i>148 to 148 ft BGS</i>		<i>156 to 156 ft BGS</i>		<i>167 to 167 ft BGS</i>		<i>171 to 171 ft BGS</i>		<i>8.5 to 8.5 ft BGS</i>	
<i>elev_MLLW</i>			<i>-121.03 to -121.03</i>		<i>-123.03 to -123.03</i>		<i>-130.03 to -130.03</i>		<i>-138.03 to -138.03</i>		<i>-149.03 to -149.03</i>		<i>-153.03 to -153.03</i>		<i>9.56 to 9.56</i>	
<i>elev_NGVD</i>			<i>-127.4 to -127.4</i>		<i>-129.4 to -129.4</i>		<i>-136.4 to -136.4</i>		<i>-144.4 to -144.4</i>		<i>-155.4 to -155.4</i>		<i>-159.4 to -159.4</i>		<i>3.2 to 3.2</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>														
<i>Volatile Organic Compounds</i>																
1,1,2,2-Tetrachloroethane	µg/kg	4.02	4.9 U	5.7 U	5.8 U	4.5 U	5.3 U	4.9 U	61 U							
1,1,2-Trichloroethane	µg/kg	15.2	4.9 U	5.7 U	5.8 U	4.5 U	5.3 U	4.9 U	61 U							
1,1-Dichloroethene	µg/kg	1.13	4.9 U	5.7 U	5.8 U	4.9 U	5.3 U	4.9 U	61 U							
Carbon tetrachloride	µg/kg	1.93	4.9 U	5.7 U	5.8 U	4.5 U	5.3 U	4.9 U	61 U							
Chloroform (Trichloromethane)	µg/kg	160	4.9 U	5.7 U	5.8 U	2.7 J	5.3 U	2.9 J	61 U							
cis-1,2-Dichloroethene	µg/kg	NV	0.34 J	5.7 U	5.8 U	0.76 J	5.3 U	0.37 J	61 U							
Methylene chloride	µg/kg	475	9.8 U	12 U	12 U	8.9 U	11 U	9.7 U	250 U							
Tetrachloroethene	µg/kg	4.88	4.9 U	5.7 U	5.8 U	0.83 J	5.3 U	0.47 J	4500							
trans-1,2-Dichloroethene	µg/kg	3247	4.9 U	5.7 U	5.8 U	4.5 U	5.3 U	4.9 U	61 U							
Trichloroethene	µg/kg	30.8	0.34 J	5.7 U	5.8 U	1.3 J	5.3 U	0.44 J	62							
Vinyl chloride	µg/kg	0.73	0.49 J	5.7 U	5.8 U	0.58 J	5.3 U	0.28 J	61 U							
<i>Semi-volatile Organic Compounds</i>																
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-							
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-							
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-							
<i>Metals~Total</i>																
Arsenic	µg/kg	146	-	-	-	-	-	-	-							
Chromium	µg/kg	714	-	-	-	-	-	-	-							
Copper	µg/kg	53.5	-	-	-	-	-	-	-							
Lead	µg/kg	81002	-	-	-	-	-	-	-							
Mercury	µg/kg	1.31	-	-	-	-	-	-	-							
Nickel	µg/kg	535	-	-	-	-	-	-	-							
Thallium	µg/kg	34	-	-	-	-	-	-	-							
Zinc	µg/kg	5045	-	-	-	-	-	-	-							
<i>PCBs</i>																
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-							
<i>Pesticides</i>																
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-							
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-							
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-							

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUG-09</i>	<i>WMUG-09</i>	<i>WMUG-09</i>	<i>WMUG-09</i>	<i>WMUG-09</i>	<i>WMUG-09</i>	<i>WMUG-09</i>	
<i>Sample ID:</i>		<i>S-060412-KB-WMUG09-002</i>	<i>S-060412-KB-WMUG09-003</i>	<i>S-060512-KB-WMUG09-004</i>	<i>S-060512-KB-WMUG09-005</i>	<i>S-060512-KB-WMUG09-006</i>	<i>S-060512-KB-WMUG09-007</i>	<i>S-060512-KB-WMUG09-008</i>	
<i>Sample Date:</i>		<i>6/4/2012</i>	<i>6/4/2012</i>	<i>6/5/2012</i>	<i>6/5/2012</i>	<i>6/5/2012</i>	<i>6/5/2012</i>	<i>6/5/2012</i>	
<i>Sample Depth:</i>		<i>16.3 to 16.3 ft BGS</i>	<i>18 to 18 ft BGS</i>	<i>24.5 to 24.5 ft BGS</i>	<i>26.3 to 26.3 ft BGS</i>	<i>37 to 37 ft BGS</i>	<i>44.5 to 44.5 ft BGS</i>	<i>47.5 to 47.5 ft BGS</i>	
<i>elev_MLLW</i>		<i>1.76 to 1.76</i>	<i>0.06 to 0.06</i>	<i>-6.44 to -6.44</i>	<i>-8.24 to -8.24</i>	<i>-18.94 to -18.94</i>	<i>-26.44 to -26.44</i>	<i>-29.44 to -29.44</i>	
<i>elev_NGVD</i>		<i>-4.6 to -4.6</i>	<i>-6.3 to -6.3</i>	<i>-12.8 to -12.8</i>	<i>-14.6 to -14.6</i>	<i>-25.3 to -25.3</i>	<i>-32.8 to -32.8</i>	<i>-35.8 to -35.8</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	140 U	150 J	64 U	64 U	67 U	280 U	130 U
1,1,2-Trichloroethane	µg/kg	15.2	140 U	330 U	64 U	64 U	67 U	280 U	130 U
1,1-Dichloroethene	µg/kg	1.13	140 U	210 J	16 J	19 J	67 J	77 J	52 J
Carbon tetrachloride	µg/kg	1.93	140 U	330 U	64 U	64 U	67 U	280 U	130 U
Chloroform (Trichloromethane)	µg/kg	160	71 J	390	64 U	64 U	660	490	140
cis-1,2-Dichloroethene	µg/kg	NV	1500	84000	1500	7300	1100	15000	1700
Methylene chloride	µg/kg	475	530 U	1300 U	260 U	260 U	210 J	510 J	520 U
Tetrachloroethene	µg/kg	4.88	140000	160000	3000	7600	28000	220000	61000
trans-1,2-Dichloroethene	µg/kg	3247	140 U	310 J	39 J	39 J	27 J	77 J	36 J
Trichloroethene	µg/kg	30.8	5400	110000	720	3700	50000	200000	58000
Vinyl chloride	µg/kg	0.73	220	310 J	2300	1000	320	170 J	400
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUG-09</i>	<i>WMUG-09</i>	<i>WMUG-09</i>	<i>WMUG-10</i>	<i>WMUG-10</i>	<i>WMUG-10</i>	<i>WMUG-10</i>	
<i>Sample ID:</i>		<i>S-060512-KB-WMUG09-009</i>	<i>S-060512-KB-WMUG09-010</i>	<i>S-060512-KB-WMUG09-011</i>	<i>S-071212-JC-WMUG10-001</i>	<i>S-071212-JC-WMUG10-002</i>	<i>S-071212-JC-WMUG10-003</i>	<i>S-071212-JC-WMUG10-004</i>	
<i>Sample Date:</i>		<i>6/5/2012</i>	<i>6/5/2012</i>	<i>6/5/2012</i>	<i>7/12/2012</i>	<i>7/12/2012</i>	<i>7/12/2012</i>	<i>7/12/2012</i>	
<i>Sample Depth:</i>		<i>57.5 to 57.5 ft BGS</i>	<i>69 to 69 ft BGS</i>	<i>74.5 to 74.5 ft BGS</i>	<i>7 to 7 ft BGS</i>	<i>15.5 to 15.5 ft BGS</i>	<i>16.5 to 16.5 ft BGS</i>	<i>19 to 19 ft BGS</i>	
<i>elev_MLLW</i>		<i>-39.44 to -39.44</i>	<i>-50.94 to -50.94</i>	<i>-56.44 to -56.44</i>	<i>11.25 to 11.25</i>	<i>2.75 to 2.75</i>	<i>1.75 to 1.75</i>	<i>-0.75 to -0.75</i>	
<i>elev_NGVD</i>		<i>-45.8 to -45.8</i>	<i>-57.3 to -57.3</i>	<i>-62.8 to -62.8</i>	<i>4.9 to 4.9</i>	<i>-3.6 to -3.6</i>	<i>-4.6 to -4.6</i>	<i>-7.1 to -7.1</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	160 U	180 U	200 U	5.1 U	350 U	1400 U	670000
1,1,2-Trichloroethane	µg/kg	15.2	160 U	180 U	200 U	5.1 U	350 U	1400 U	80000 U
1,1-Dichloroethene	µg/kg	1.13	48 J	120 J	690	5.1 U	350 U	1400 U	80000 U
Carbon tetrachloride	µg/kg	1.93	160 U	180 U	200 U	5.1 U	350 U	1400 U	510000
Chloroform (Trichloromethane)	µg/kg	160	160 U	180 U	200 U	0.72 J	350 U	1400 U	19000 J
cis-1,2-Dichloroethene	µg/kg	NV	7400	6800	56000	5.1 U	350 U	1400 U	80000 U
Methylene chloride	µg/kg	475	610 U	500 J	200 J	11 U	190 J	730 J	59000 J
Tetrachloroethene	µg/kg	4.88	75000	19000	88 J	110	63000	120000	3200000
trans-1,2-Dichloroethene	µg/kg	3247	39 J	78 J	21000	5.1 U	350 U	1400 U	80000 U
Trichloroethene	µg/kg	30.8	64000	120000	7400	12	51000	160000	5800000
Vinyl chloride	µg/kg	0.73	250	110 J	2400	5.1 U	350 U	310 J	80000 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUG-10</i>	<i>WMUG-10</i>	<i>WMUG-10</i>	<i>WMUG-10</i>	<i>WMUG-10</i>	<i>WMUG-10</i>	<i>WMUG-10</i>	
<i>Sample ID:</i>		<i>S-071212-JC-WMUG10-006</i>	<i>S-071212-JC-WMUG10-007</i>	<i>S-071212-JC-FD-001</i>	<i>S-071212-JC-WMUG10-008</i>	<i>S-071212-JC-WMUG10-009</i>	<i>S-071212-JC-WMUG10-010</i>	<i>S-071212-JC-WMUG10-011</i>	
<i>Sample Date:</i>		<i>7/12/2012</i>	<i>7/12/2012</i>	<i>7/12/2012</i>	<i>7/12/2012</i>	<i>7/12/2012</i>	<i>7/12/2012</i>	<i>7/12/2012</i>	
<i>Sample Depth:</i>		<i>21 to 21 ft BGS</i>	<i>27 to 27 ft BGS</i>	<i>27 to 27 ft BGS</i>	<i>34.7 to 34.7 ft BGS</i>	<i>37.5 to 37.5 ft BGS</i>	<i>42.4 to 42.4 ft BGS</i>	<i>49.8 to 49.8 ft BGS</i>	
<i>elev_MLLW</i>		<i>-2.75 to -2.75</i>	<i>-8.75 to -8.75</i>	<i>-8.75 to -8.75</i>	<i>-16.45 to -16.45</i>	<i>-19.25 to -19.25</i>	<i>-24.15 to -24.15</i>	<i>-31.55 to -31.55</i>	
<i>elev_NGVD</i>		<i>-9.1 to -9.1</i>	<i>-15.1 to -15.1</i>	<i>-15.1 to -15.1</i>	<i>-22.8 to -22.8</i>	<i>-25.6 to -25.6</i>	<i>-30.5 to -30.5</i>	<i>-37.9 to -37.9</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	3200 U	730 U	710 U	5.5 U	R	5.9 U	4.9 U
1,1,2-Trichloroethane	µg/kg	15.2	3200 U	730 U	710 U	5.5 U	5.6 U	5.9 U	4.9 U
1,1-Dichloroethene	µg/kg	1.13	3200 U	730 U	710 U	1.2 J	0.73 J	5.9 U	4.9 U
Carbon tetrachloride	µg/kg	1.93	3200 U	730 U	710 U	5.5 U	5.6 U	5.9 U	4.9 U
Chloroform (Trichloromethane)	µg/kg	160	1400 J	730 U	710 U	5.5 U	5.6 U	5.9 U	4.9 U
cis-1,2-Dichloroethene	µg/kg	NV	3200 U	1100	1400	220	120	23	0.31 J
Methylene chloride	µg/kg	475	2000 J	290 J	330 J	11 U	12 U	12 U	9.7 U
Tetrachloroethene	µg/kg	4.88	98000	370 J	1000	41	0.81 J	1.2 J	0.97 J
trans-1,2-Dichloroethene	µg/kg	3247	3200 U	170 J	240 J	0.34 J	5.6 U	0.62 J	1.9 J
Trichloroethene	µg/kg	30.8	470000	31000	47000	150	15 J	4.4 J	2.9 J
Vinyl chloride	µg/kg	0.73	3200 U	730 U	710 U	120	320	55	72
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUG-11	WMUG-11	WMUG-11	WMUG-11	WMUG-11	WMUG-11	WMUG-11	WMUG-12	
Sample ID:	S-071312-JC-WMUG11-001	S-071312-JC-WMUG11-002	S-071412-JC-WMUG11-003	S-071412-JC-WMUG11-004	S-071412-JC-WMUG11-005	S-071412-JC-FD-001	S-081712-JC-WMUG12-001		
Sample Date:	7/13/2012	7/13/2012	7/14/2012	7/14/2012	7/14/2012	7/14/2012	8/17/2012		
Sample Depth:	7 to 7 ft BGS	19.8 to 19.8 ft BGS	27.5 to 27.5 ft BGS	32 to 32 ft BGS	49 to 49 ft BGS	49 to 49 ft BGS	6 to 6 ft BGS		
elev_MLLW	11.74 to 11.74	-1.06 to -1.06	-8.76 to -8.76	-13.26 to -13.26	-30.26 to -30.26	-30.26 to -30.26	12.36 to 12.36		
elev_NGVD	5.4 to 5.4	-7.4 to -7.4	-15.1 to -15.1	-19.6 to -19.6	-36.6 to -36.6	(Duplicate)	6 to 6		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.4 U	6700 U	620 U	4.8 U	5.4 U	5.5 U	1200 U
1,1,2-Trichloroethane	µg/kg	15.2	5.4 U	6700 U	620 U	4.8 U	5.4 U	5.5 U	1200 U
1,1-Dichloroethene	µg/kg	1.13	5.4 U	6700 U	620 U	1.2 J	5.4 U	5.5 U	1200 U
Carbon tetrachloride	µg/kg	1.93	5.4 U	6700 U	620 U	4.8 U	5.4 U	5.5 U	1200 U
Chloroform (Trichloromethane)	µg/kg	160	3.7 J	2900 J	260 J	6.0	5.4 U	5.5 U	1200 U
cis-1,2-Dichloroethene	µg/kg	NV	5.4 U	6700 U	400 J	95	10	13	1200 U
Methylene chloride	µg/kg	475	11 U	2900 J	450 J	9.6 U	11 U	11 U	300 J
Tetrachloroethene	µg/kg	4.88	55	230000	48000	2300	0.55 J	0.99 J	58000
trans-1,2-Dichloroethene	µg/kg	3247	5.4 U	6700 U	120 J	0.94 J	3.2 J	4.4 J	1200 U
Trichloroethene	µg/kg	30.8	4.7 J	55000	60000	100 J	0.63 J	1.0 J	1200 U
Vinyl chloride	µg/kg	0.73	5.4 U	6700 U	160 J	110	2500	900	1200 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUG-12	WMUG-12	WMUG-12	WMUG-12	WMUG-12	WMUG-12	WMUG-12		
Sample ID:	S-081712-JC-WMUG12-002	S-081712-JC-WMUG12-003	S-081712-JC-WMUG12-004	S-081712-JC-WMUG12-005	S-081712-JC-WMUG12-006	S-081712-JC-WMUG12-007	S-081712-JC-WMUG12-008		
Sample Date:	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012		
Sample Depth:	12.5 to 12.5 ft BGS	17.5 to 17.5 ft BGS	18.7 to 18.7 ft BGS	22 to 22 ft BGS	27.5 to 27.5 ft BGS	33.5 to 33.5 ft BGS	43 to 43 ft BGS		
elev_MLLW	5.86 to 5.86	0.86 to 0.86	-0.34 to -0.34	-3.64 to -3.64	-9.14 to -9.14	-15.14 to -15.14	-24.64 to -24.64		
elev_NGVD	-0.5 to -0.5	-5.5 to -5.5	-6.7 to -6.7	-10 to -10	-15.5 to -15.5	-21.5 to -21.5	-31 to -31		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	50000 U	1900	1700	8700 J	620 U	870 U	3700 U
1,1,2-Trichloroethane	µg/kg	15.2	50000 U	1500 U	1200 U	13000 U	620 U	870 U	3700 U
1,1-Dichloroethene	µg/kg	1.13	50000 U	1500 U	1200 U	2800 J	620 U	870 U	3700 U
Carbon tetrachloride	µg/kg	1.93	17000 J	7900	900 J	13000 U	620 U	870 U	3700 U
Chloroform (Trichloromethane)	µg/kg	160	50000 U	2700	3400	7400 J	180 J	2100	5200
cis-1,2-Dichloroethene	µg/kg	NV	50000 U	1500 U	1200 U	19000	3900	1400	950 J
Methylene chloride	µg/kg	475	19000 J	5900 U	380 J	5600 J	240 J	430 J	1500 J
Tetrachloroethene	µg/kg	4.88	5700000	450000	480000	2600000	210000	52000	300000
trans-1,2-Dichloroethene	µg/kg	3247	50000 U	1500 U	1200 U	13000 U	620 U	870 U	3700 U
Trichloroethene	µg/kg	30.8	25000 J	89000	140000	1600000	22000	98000	200000
Vinyl chloride	µg/kg	0.73	50000 U	1500 U	1200 U	2100 J	3700	1300	3700 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	WMUG-12	WMUG-12	WMUG-13	WMUG-13	WMUG-13	WMUG-13	WMUG-13		
Sample ID:	S-081712-JC-FD-001	S-081712-JC-WMUG12-009	S-090412-KB-WMUG13-001	S-090412-KB-WMUG13-002	S-090412-KB-WMUG13-003	S-090412-KB-WMUG13-004	S-090512-KB-WMUG13-005		
Sample Date:	8/17/2012	8/17/2012	9/4/2012	9/4/2012	9/4/2012	9/4/2012	9/5/2012		
Sample Depth:	43 to 43 ft BGS	49.5 to 49.5 ft BGS	9 to 9 ft BGS	18 to 18 ft BGS	28.5 to 28.5 ft BGS	37.8 to 37.8 ft BGS	48.5 to 48.5 ft BGS		
elev_MLLW	-24.64 to -24.64	-31.14 to -31.14	7.94 to 7.94	-1.06 to -1.06	-11.56 to -11.56	-20.86 to -20.86	-31.56 to -31.56		
elev_NGVD	-31 to -31	-37.5 to -37.5	1.6 to 1.6	-7.4 to -7.4	-17.9 to -17.9	-27.2 to -27.2	-37.9 to -37.9		
Parameters	Units	Cs	(Duplicate)						
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	400 U	3700 U	5.5 U	340 U	4.7 U	5.5 U	6.1 U
1,1,2-Trichloroethane	µg/kg	15.2	400 U	3700 U	5.5 U	340 U	4.7 U	5.5 U	6.1 U
1,1-Dichloroethene	µg/kg	1.13	400 U	3700 U	5.5 U	190 J	4.7 U	5.5 U	6.1 U
Carbon tetrachloride	µg/kg	1.93	400 U	3700 U	5.5 U	340 U	4.7 U	5.5 U	6.1 U
Chloroform (Trichloromethane)	µg/kg	160	4500	4600	5.5 U	340 U	4.7 U	5.5 U	0.23 J
cis-1,2-Dichloroethene	µg/kg	NV	610	510 J	5.5 U	4700	22	23	6.1 U
Methylene chloride	µg/kg	475	410 J	2000 J	11 U	1400 U	9.4 U	11 U	13 U
Tetrachloroethene	µg/kg	4.88	270000	150000	0.85 J	340 U	1.2 J	2.6 J	4.0 J
trans-1,2-Dichloroethene	µg/kg	3247	400 U	3700 U	5.5 U	340 U	4.7 U	14	6.1 U
Trichloroethene	µg/kg	30.8	160000	200000	0.55 J	40000	22	50	4.2 J
Vinyl chloride	µg/kg	0.73	400 U	3700 U	0.37 J	440	5.3	5.5 U	0.35 J
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUG-14	WMUG-14	WMUG-14	WMUG-14	WMUG-14	WMUG-14	WMUG-14	
Sample ID:		S-092412-KB-WMUG14-001	S-092412-KB-WMUG14-002	S-092412-KB-WMUG14-003	S-092412-KB-WMUG14-004	S-092412-KB-WMUG14-005	S-092412-KB-WMUG14-006	S-092412-KB-FD001	
Sample Date:		9/24/2012	9/24/2012	9/24/2012	9/24/2012	9/24/2012	9/24/2012	9/24/2012	
Sample Depth:		9.5 to 9.5 ft BGS	16.5 to 16.5 ft BGS	23 to 23 ft BGS	25.5 to 25.5 ft BGS	29.5 to 29.5 ft BGS	38 to 38 ft BGS	38 to 38 ft BGS	
elev_MLLW		7.81 to 7.81	0.81 to 0.81	-5.69 to -5.69	-8.19 to -8.19	-12.19 to -12.19	-20.69 to -20.69	-20.69 to -20.69	
elev_NGVD		1.5 to 1.5	-5.5 to -5.5	-12 to -12	-14.5 to -14.5	-18.5 to -18.5	-27 to -27	-27 to -27 (Duplicate)	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.5 U	6.1 U	5.7 U	5.7 U	5.0 U	5.2 U	5.7 U
1,1,2-Trichloroethane	µg/kg	15.2	5.5 U	6.1 U	5.7 U	5.7 U	5.0 U	5.2 U	5.7 U
1,1-Dichloroethene	µg/kg	1.13	5.5 U	3.5 J	1.1 J	5.7 U	5.0 U	0.28 J	5.7 U
Carbon tetrachloride	µg/kg	1.93	5.5 U	6.1 U	5.7 U	5.7 U	5.0 U	5.2 U	5.7 U
Chloroform (Trichloromethane)	µg/kg	160	2.3 J	0.14 J	5.7 U	5.7 U	5.0 U	5.2 U	5.7 U
cis-1,2-Dichloroethene	µg/kg	NV	0.24 J	1100	62 J	70 J	4.2 J	63 J	30 J
Methylene chloride	µg/kg	475	11 UJ	13 UJ	12 UJ	12 UJ	10 UJ	11 UJ	12 UJ
Tetrachloroethene	µg/kg	4.88	23 J	1.5 J	1.3 J	2.0 J	0.91 J	1.1 J	2.3 J
trans-1,2-Dichloroethene	µg/kg	3247	5.5 U	3.6 J	1.2 J	5.7 U	1.2 J	5.2 U	5.7 U
Trichloroethene	µg/kg	30.8	3.7 J	4.3 J	24 J	1.6 J	0.73 J	0.92 J	1.7 J
Vinyl chloride	µg/kg	0.73	5.5 U	300	9.7 J	4.4 J	92 J	4.9 J	1.2 J
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUG-14</i>	<i>WMUG-14</i>	<i>WMUH-1</i>	<i>WMUH-1</i>	<i>WMUH-1</i>	<i>WMUH-1</i>	<i>WMUH-1</i>	<i>WMUH-2</i>	<i>WMUH-2</i>	
<i>Sample ID:</i>		<i>S-092412-KB-WMUG14-007</i>	<i>S-092412-KB-WMUG14-008</i>	<i>S-WMUH1-4.4-6.4</i>	<i>S-WMUH1-9.5-11.5</i>	<i>S-WMUH1-14.5-16.5</i>	<i>S-WMUH1-19.0-19.5</i>	<i>S-WMUH1-19.5-21.5</i>	<i>S-WMUH2-6.8-7.8</i>	<i>S-WMUH2-10.0-12.0</i>	
<i>Sample Date:</i>		<i>9/24/2012</i>	<i>9/24/2012</i>	<i>6/8/2004</i>	<i>6/8/2004</i>	<i>6/8/2004</i>	<i>6/8/2004</i>	<i>6/8/2004</i>	<i>6/8/2004</i>	<i>6/8/2004</i>	
<i>Sample Depth:</i>		<i>41.5 to 41.5 ft BGS</i>	<i>48.5 to 48.5 ft BGS</i>	<i>4.4 to 6.4 ft bgs</i>	<i>9.5 to 11.5 ft bgs</i>	<i>14.5 to 16.5 ft bgs</i>	<i>19 to 19.5 ft bgs</i>	<i>19.5 to 21.5 ft bgs</i>	<i>6.8 to 7.8 ft bgs</i>	<i>10 to 12 ft bgs</i>	
<i>elev_MLLW</i>		<i>-24.19 to -24.19</i>	<i>-31.19 to -31.19</i>	<i>13.52 to 11.52</i>	<i>8.42 to 6.42</i>	<i>3.42 to 1.42</i>	<i>-1.08 to -1.58</i>	<i>-1.58 to -3.58</i>	<i>11.12 to 10.12</i>	<i>7.92 to 5.92</i>	
<i>elev_NGVD</i>		<i>-30.5 to -30.5</i>	<i>-37.5 to -37.5</i>	<i>7.2 to 5.2</i>	<i>2.1 to 0.1</i>	<i>-2.9 to -4.9</i>	<i>-7.4 to -7.9</i>	<i>-7.9 to -9.9</i>	<i>4.8 to 3.8</i>	<i>1.6 to -0.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>									
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.8 U	5.8 U	0.83 U	0.82 UJ	0.87 U	0.93 UJ	4.35 U	3.90 U	R
1,1,2-Trichloroethane	µg/kg	15.2	5.8 U	5.8 U	0.54 U	0.54 UJ	0.57 U	0.61 U	2.85 U	2.55 U	R
1,1-Dichloroethene	µg/kg	1.13	0.46 J	5.8 U	0.89 U	0.89 UJ	6.9	8.9 J	4.70 U	4.20 U	19 J
Carbon tetrachloride	µg/kg	1.93	5.8 U	5.8 U	0.90 U	0.90 UJ	0.96 U	1.02 U	4.80 U	4.25 U	R
Chloroform (Trichloromethane)	µg/kg	160	5.8 U	5.8 U	1.62 U	1.61 UJ	1.71 U	1.81 U	8.55 U	7.65 U	R
cis-1,2-Dichloroethene	µg/kg	NV	15	4.3 J	20	13 J	3700	13000	22	9.5	14000
Methylene chloride	µg/kg	475	12 U	12 UJ	5.18 U	4.3 J	5.48 U	4.2 J	27.4 U	24.4 U	14 J
Tetrachloroethene	µg/kg	4.88	0.99 J	1.2 J	25000	1300	39000	2700000	62	130	4200
trans-1,2-Dichloroethene	µg/kg	3247	0.48 J	5.8 U	1.53 U	1.52 UJ	23	46 J	8.05 U	7.20 U	95 J
Trichloroethene	µg/kg	30.8	1.8 J	0.61 J	16000	57 J	2600	19000	4.25 U	20	48000
Vinyl chloride	µg/kg	0.73	5.8 U	5.8 U	1.90 U	1.89 UJ	130 J	120 J	10 U	8.95 U	3200 J
<i>Semi-volatile Organic Compounds</i>											
Hexachlorobenzene	µg/kg	0.062	-	-	682.1 U	677.5 U	72.1 U	-	72.0 U	64.4 U	87.1 U
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	664.0 U	659.6 U	70.2 U	-	70.1 U	62.6 U	84.8 U
<i>Metals~Total</i>											
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	11.8 U	11.7 U	276	-	12.4 U	11.1 U	15.0 U
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-
<i>PCBs</i>											
Total PCBs	µg/kg	0.053	-	-	88	160	6.6 U	-	6.6 U	5.9 U	100
<i>Pesticides</i>											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		WMUH-2	WMUH-2	WMUH-2	WMUH-3	WMUH-3	WMUH-3	WMUH-3	WMUL-01	WMUL-01	
Sample ID:		S-WMUH2-16.0-17.8	S-WMUH2-19.0-20.0	S-WMUH2-20.8-22.8	S-WMUH3-6.3-7.3	S-WMUH3-10.3-12.0	S-WMUH3-15.0-17.0	S-WMUH3-20.3-22.3	S-060712-NE-WMUL01-001	S-060712-NE-WMUL01-002	
Sample Date:		6/8/2004	6/8/2004	6/8/2004	6/9/2004	6/9/2004	6/9/2004	6/9/2004	6/7/2012	6/7/2012	
Sample Depth:		16 to 17.8 ft bgs	19 to 20 ft bgs	20.8 to 22.8 ft bgs	6.3 to 7.3 ft bgs	10.3 to 12 ft bgs	15 to 17 ft bgs	20.3 to 22.3 ft bgs	1.5 to 2.5 ft BGS	5 to 6 ft BGS	
elev_MLLW		1.92 to 0.12	-1.08 to -2.08	-2.88 to -4.88	11.62 to 10.62	7.62 to 5.92	2.92 to 0.92	-2.38 to -4.38	16.68 to 15.68	13.18 to 12.18	
elev_NGVD		-4.4 to -6.2	-7.4 to -8.4	-9.2 to -11.2	5.3 to 4.3	1.3 to -0.4	-3.4 to -5.4	-8.7 to -10.7	10.4 to 9.4	6.9 to 5.9	
Parameters	Units	Cs									
Volatile Organic Compounds											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.05 U	5.30 U	4.5 UJ	0.78 U	0.92 U	4.55 U	0.91 U	5.8 U	5.5 U
1,1,2-Trichloroethane	µg/kg	15.2	3.30 U	3.50 U	2.95 U	0.52 U	0.60 U	3.00 U	0.60 U	5.8 U	5.5 U
1,1-Dichloroethene	µg/kg	1.13	4.45 U	5.70 U	4.85 U	0.85 U	0.99 U	4.90 U	0.98 U	5.8 U	5.5 U
Carbon tetrachloride	µg/kg	1.93	5.55 U	5.80 U	4.95 U	0.86 U	1.01 U	4.95 U	0.99 U	5.8 U	5.5 U
Chloroform (Trichloromethane)	µg/kg	160	9.90 U	10.4 U	8.80 UJ	1.53 U	1.80 U	8.90 U	1.77 U	5.8 U	5.5 U
cis-1,2-Dichloroethene	µg/kg	NV	26	17	18 J	1.15 U	1.35 U	6.65 U	16	5.8 U	0.35 J
Methylene chloride	µg/kg	475	31.6 U	33.2 U	28.2 U	4.91 U	5.77 U	28.4 U	5.6 J	12 U	11 U
Tetrachloroethene	µg/kg	4.88	130	33	25 J	11	3.3 J	3.35 U	3.8 J	9.4	27
trans-1,2-Dichloroethene	µg/kg	3247	9.35 U	9.80 U	8.30 UJ	1.45 U	1.70 U	8.40 U	1.67 U	5.8 U	5.5 U
Trichloroethene	µg/kg	30.8	4.90 U	5.15 U	4.40 U	0.76 U	0.89 U	5.7 J	0.88 U	8.7	31
Vinyl chloride	µg/kg	0.73	11.6 U	12.2 U	10.4 U	1.80 U	2.12 U	10.4 U	2.08 U	5.8 U	5.5 U
Semi-volatile Organic Compounds											
Hexachlorobenzene	µg/kg	0.062	83.4 U	437.0 U	74.4 U	323.5 U	75.9 U	74.9 U	74.8 U	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	81.2 U	425.4 U	72.4 U	314.9 U	73.9 U	72.9 U	72.8 U	-	-
Metals~Total											
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	1520	1100
Mercury	µg/kg	1.31	14.4 U	15.1 U	12.8 U	11.2 U	13.1 U	12.9 U	12.9 U	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-
PCBs											
Total PCBs	µg/kg	0.053	29	41	6.8 U	5.9 U	6.9 U	6.8 U	6.8 U	-	-
Pesticides											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUL-01</i>	<i>WMUL-01</i>	<i>WMUL-01</i>	<i>WMUL-01</i>	<i>WMUL-02</i>	<i>WMUL-02</i>	<i>WMUL-02</i>	
<i>Sample ID:</i>		<i>S-060712-NE-WMUL01-003</i>	<i>S-060712-NE-WMUL01-004</i>	<i>S-060712-NE-WMUL01-005</i>	<i>S-060712-NE-WMUL01-006</i>	<i>S-061212-MD-WMUL02-001</i>	<i>S-061212-MD-WMUL02-002</i>	<i>S-061212-MD-FD-001</i>	
<i>Sample Date:</i>		<i>6/7/2012</i>	<i>6/7/2012</i>	<i>6/7/2012</i>	<i>6/7/2012</i>	<i>6/12/2012</i>	<i>6/12/2012</i>	<i>6/12/2012</i>	
<i>Sample Depth:</i>		<i>10 to 11 ft BGS</i>	<i>15 to 16 ft BGS</i>	<i>20 to 21 ft BGS</i>	<i>24 to 25 ft BGS</i>	<i>2 to 2 ft BGS</i>	<i>5 to 5 ft BGS</i>	<i>5 to 5 ft BGS</i>	
<i>elev_MLLW</i>		<i>8.18 to 7.18</i>	<i>3.18 to 2.18</i>	<i>-1.82 to -2.82</i>	<i>-5.82 to -6.82</i>	<i>16.21 to 16.21</i>	<i>13.21 to 13.21</i>	<i>13.21 to 13.21</i>	
<i>elev_NGVD</i>		<i>1.9 to 0.9</i>	<i>-3.1 to -4.1</i>	<i>-8.1 to -9.1</i>	<i>-12.1 to -13.1</i>	<i>9.9 to 9.9</i>	<i>6.9 to 6.9</i>	<i>6.9 to 6.9</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						<i>(Duplicate)</i>	
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.7 U	5.7 U	4.9 U	6.0 U	5.9 U	5.4 U	5.7 U
1,1,2-Trichloroethane	µg/kg	15.2	5.7 U	5.7 U	4.9 U	6.0 U	5.9 U	5.4 U	5.7 U
1,1-Dichloroethene	µg/kg	1.13	5.7 U	5.7 U	4.9 U	6.0 U	5.9 U	5.4 U	5.7 U
Carbon tetrachloride	µg/kg	1.93	5.7 U	5.7 U	4.9 U	6.0 U	5.9 U	5.4 U	5.7 U
Chloroform (Trichloromethane)	µg/kg	160	5.7 U	5.7 U	4.9 U	6.0 U	5.9 U	5.4 U	5.7 U
cis-1,2-Dichloroethene	µg/kg	NV	5.7 U	12	4.9 U	6.0 U	5.9 U	5.4 U	5.7 U
Methylene chloride	µg/kg	475	12 U	12 U	9.8 U	12 U	12 U	11 U	12 U
Tetrachloroethene	µg/kg	4.88	22	1.6 J	1.1 J	1.0 J	19	18	16
trans-1,2-Dichloroethene	µg/kg	3247	5.7 U	5.7 U	4.9 U	6.0 U	5.9 U	5.4 U	5.7 U
Trichloroethene	µg/kg	30.8	22	0.61 J	4.9 U	6.0 U	12	10	7.6
Vinyl chloride	µg/kg	0.73	5.7 U	0.35 J	4.9 U	0.43 J	5.9 U	5.4 U	5.7 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	1110	2650	1630	1180	11500	2000 J	12200 J
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		WMUL-02	WMUL-02	WMUL-02	WMUL-02	WMUM-01	WMUM-01	WMUM-01	
Sample ID:		S-061212-MD-WMUL02-003	S-061212-MD-WMUL02-004	S-061212-MD-WMUL02-005	S-061212-MD-WMUL02-006	S-061312-SP-WMUM01-001	S-061312-SP-WMUM01-002	S-061312-SP-WMUM01-003	
Sample Date:		6/12/2012	6/12/2012	6/12/2012	6/12/2012	6/13/2012	6/13/2012	6/13/2012	
Sample Depth:		10 to 10 ft BGS	15 to 15 ft BGS	20 to 20 ft BGS	25 to 25 ft BGS	2 to 2 ft BGS	5 to 5 ft BGS	10 to 10 ft BGS	
elev_MLLW		8.21 to 8.21	3.21 to 3.21	-1.79 to -1.79	-6.79 to -6.79	16.06 to 16.06	13.06 to 13.06	8.06 to 8.06	
elev_NGVD		1.9 to 1.9	-3.1 to -3.1	-8.1 to -8.1	-13.1 to -13.1	9.7 to 9.7	6.7 to 6.7	1.7 to 1.7	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.5 U	6.0 U	4.7 U	5.6 U	5.6 U	5.3 U	5.9 U
1,1,2-Trichloroethane	µg/kg	15.2	5.5 U	6.0 U	4.7 U	5.6 U	5.6 U	5.3 U	5.9 U
1,1-Dichloroethene	µg/kg	1.13	5.5 U	6.0 U	4.7 U	5.6 U	5.6 U	5.3 U	5.9 U
Carbon tetrachloride	µg/kg	1.93	5.5 U	6.0 U	4.7 U	5.6 U	5.6 U	5.3 U	5.9 U
Chloroform (Trichloromethane)	µg/kg	160	5.5 U	6.0 U	4.7 U	5.6 U	1.3 J	3.0 J	5.9 U
cis-1,2-Dichloroethene	µg/kg	NV	5.5 U	2.3 J	0.61 J	31	5.6 U	5.3 U	5.9 U
Methylene chloride	µg/kg	475	11 U	12 U	9.3 U	12 U	12 U	11 U	12 U
Tetrachloroethene	µg/kg	4.88	29	1.9 J	2.9 J	5.6 U	17	21	4.6 J
trans-1,2-Dichloroethene	µg/kg	3247	5.5 U	0.33 J	4.7 U	5.6 U	5.6 U	5.3 U	5.9 U
Trichloroethene	µg/kg	30.8	15	0.71 J	0.28 J	5.6 U	1.3 J	1.5 J	0.49 J
Vinyl chloride	µg/kg	0.73	5.5 U	6.0 U	4.7 U	1.3 J	5.6 U	5.3 U	5.9 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	2680	2920 J	1410 J	919 J	100000 J	132000 J	197000 J
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUM-01	WMUM-01	WMUM-01	WMUM-02	WMUM-02	WMUM-02	WMUM-02			
Sample ID:	S-061312-SP-WMUM01-004	S-061312-SP-WMUM01-005	S-061312-SP-WMUM01-006	S-061412-SP-WMUM02-001	S-061412-SP-FD-001	S-061412-SP-WMUM02-002	S-061412-SP-WMUM02-003			
Sample Date:	6/13/2012	6/13/2012	6/13/2012	6/14/2012	6/14/2012	6/14/2012	6/14/2012			
Sample Depth:	15 to 15 ft BGS	20 to 20 ft BGS	25 to 25 ft BGS	2 to 2 ft BGS	2 to 2 ft BGS	5 to 5 ft BGS	10 to 10 ft BGS			
elev_MLLW	3.06 to 3.06	-1.94 to -1.94	-6.94 to -6.94	16.18 to 16.18	16.18 to 16.18	13.18 to 13.18	8.18 to 8.18			
elev_NGVD	-3.3 to -3.3	-8.3 to -8.3	-13.3 to -13.3	9.9 to 9.9	(Duplicate)	6.9 to 6.9	1.9 to 1.9			
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	6.2 U	5.8 U	5.8 U	6.0 U	5.6 U	6.0 U	5.6 U	5.6 U
1,1,2-Trichloroethane	µg/kg	15.2	6.2 U	5.8 U	5.8 U	6.0 U	5.6 U	6.0 U	6.0 U	5.6 U
1,1-Dichloroethene	µg/kg	1.13	6.2 U	5.8 U	5.8 U	6.0 U	5.6 U	6.0 U	6.0 U	5.6 U
Carbon tetrachloride	µg/kg	1.93	6.2 U	5.8 U	5.8 U	6.0 U	5.6 U	6.0 U	6.0 U	5.6 U
Chloroform (Trichloromethane)	µg/kg	160	6.2 U	5.8 U	5.8 U	0.26 J	0.25 J	6.0 U	6.0 U	5.6 U
cis-1,2-Dichloroethene	µg/kg	NV	6.2 U	5.8 U	5.8 U	6.0 U	5.6 U	6.0 U	6.0 U	0.59 J
Methylene chloride	µg/kg	475	2.9 J	2.5 J	2.5 J	3.4 J	2.8 J	3.1 J	3.1 J	2.6 J
Tetrachloroethene	µg/kg	4.88	0.77 J	2.5 J	3.0 J	16	11	7.5	7.5	5.6 U
trans-1,2-Dichloroethene	µg/kg	3247	6.2 U	5.8 U	5.8 U	6.0 U	5.6 U	6.0 U	6.0 U	5.6 U
Trichloroethene	µg/kg	30.8	6.2 U	5.8 U	5.8 U	0.45 J	5.6 U	0.38 J	0.38 J	0.34 J
Vinyl chloride	µg/kg	0.73	6.2 U	5.8 U	5.8 U	6.0 U	5.6 U	6.0 U	6.0 U	5.6 U
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	2330 J	1200 J	2500 J	35000 J	30200 J	74200 J	74200 J	119000 J
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUM-02	WMUM-02	WMUM-02	WMUR-01	WMUR-01	WMUR-01	WMUR-01	
Sample ID:		S-061412-SP-WMUM02-004	S-061412-SP-WMUM02-005	S-061412-SP-WMUM02-006	S-061512-KB-WMUR01-001	S-061512-KB-WMUR01-002	S-061512-KB-WMUR01-003	S-061512-KB-WMUR01-004	
Sample Date:		6/14/2012	6/14/2012	6/14/2012	6/15/2012	6/15/2012	6/15/2012	6/15/2012	
Sample Depth:		15 to 15 ft BGS	20 to 20 ft BGS	25 to 25 ft BGS	9 to 9 ft BGS	14.5 to 14.5 ft BGS	16 to 16 ft BGS	19.5 to 19.5 ft BGS	
elev_MLLW		3.18 to 3.18	-1.82 to -1.82	-6.82 to -6.82	9.15 to 9.15	3.65 to 3.65	2.15 to 2.15	-1.35 to -1.35	
elev_NGVD		-3.1 to -3.1	-8.1 to -8.1	-13.1 to -13.1	2.8 to 2.8	-2.7 to -2.7	-4.2 to -4.2	-7.7 to -7.7	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	7.0 U	5.3 U	5.7 U	290	7000 U	37000 U	18000 J
1,1,2-Trichloroethane	µg/kg	15.2	7.0 U	5.3 U	5.7 U	60 U	7000 U	37000 U	32000 U
1,1-Dichloroethene	µg/kg	1.13	7.0 U	5.3 U	5.7 U	60 U	7000 U	37000 U	32000 U
Carbon tetrachloride	µg/kg	1.93	7.0 U	5.3 U	5.7 U	60 U	7000 U	37000 U	32000 U
Chloroform (Trichloromethane)	µg/kg	160	7.0 U	5.3 U	5.7 U	11 J	7000 U	37000 U	32000 U
cis-1,2-Dichloroethene	µg/kg	NV	7.0 U	5.3 U	5.7 U	60 U	7000 U	37000 U	32000 U
Methylene chloride	µg/kg	475	14 U	11 U	12 U	25 J	2200 J	15000 J	12000 J
Tetrachloroethene	µg/kg	4.88	7.6	7.8	4.0 J	6500	340000	3100000	2000000
trans-1,2-Dichloroethene	µg/kg	3247	7.0 U	5.3 U	5.7 U	60 U	7000 U	37000 U	32000 U
Trichloroethene	µg/kg	30.8	1.4 J	4.1 J	0.44 J	210	7000 U	88000	1200000
Vinyl chloride	µg/kg	0.73	7.0 U	5.3 U	5.7 U	60 U	7000 U	37000 U	32000 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	2720	1190	1650	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUR-01	WMUR-01	WMUR-01	WMUR-01	WMUR-01	WMUR-01	WMUR-01	
Sample ID:		S-061512-KB-WMUR01-005	S-061512-KB-WMUR01-006	S-061512-KB-WMUR01-007	S-061512-KB-WMUR01-008	S-061512-KB-WMUR01-009	S-061512-KB-WMUR01-010	S-061612-KB-WMUR01-011	
Sample Date:		6/15/2012	6/15/2012	6/15/2012	6/15/2012	6/15/2012	6/15/2012	6/16/2012	
Sample Depth:		22 to 22 ft BGS	24 to 24 ft BGS	28 to 28 ft BGS	29.5 to 29.5 ft BGS	31.5 to 31.5 ft BGS	34 to 34 ft BGS	44.5 to 44.5 ft BGS	
elev_MLLW		-3.85 to -3.85	-5.85 to -5.85	-9.85 to -9.85	-11.35 to -11.35	-13.35 to -13.35	-15.85 to -15.85	-26.35 to -26.35	
elev_NGVD		-10.2 to -10.2	-12.2 to -12.2	-16.2 to -16.2	-17.7 to -17.7	-19.7 to -19.7	-22.2 to -22.2	-32.7 to -32.7	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	16000 U	3300 U	6100 U	1400 U	1100 U	660 U	1.4 J
1,1,2-Trichloroethane	µg/kg	15.2	16000 U	3300 U	6100 U	1400 U	1100 U	660 U	1.8 J
1,1-Dichloroethene	µg/kg	1.13	16000 U	3300 U	6100 U	1400 U	1100 U	660 U	3.3 J
Carbon tetrachloride	µg/kg	1.93	16000 U	3300 U	6100 U	1400 U	1100 U	660 U	5.8 U
Chloroform (Trichloromethane)	µg/kg	160	16000 U	3300 U	6100 U	1400 U	1100 U	660 U	7.4
cis-1,2-Dichloroethene	µg/kg	NV	16000 U	3300 U	1900 J	710 J	1100	3100	2400 J
Methylene chloride	µg/kg	475	10000 J	1900 J	2200 J	530 J	770 J	220 J	12 U
Tetrachloroethene	µg/kg	4.88	810000	210000	310000	47000	100000	21000	55 J
trans-1,2-Dichloroethene	µg/kg	3247	16000 U	3300 U	6100 U	1400 U	1100 U	660 U	13
Trichloroethene	µg/kg	30.8	98000	21000	110000	11000	33000	38000	250
Vinyl chloride	µg/kg	0.73	16000 U	520 J	6100 U	1400 U	1100 U	220 J	280
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUR-01	WMUR-01	WMUR-01	WMUR-01	WMUR-01	WMUR-01	WMUR-01	
Sample ID:		S-061612-KB-FD-003	S-061612-KB-WMUR01-012	S-061612-KB-WMUR01-013	S-061612-KB-WMUR01-014	S-061612-KB-WMUR01-015	S-061612-KB-WMUR01-016	S-061612-KB-WMUR01-017	
Sample Date:		6/16/2012	6/16/2012	6/16/2012	6/16/2012	6/16/2012	6/16/2012	6/16/2012	
Sample Depth:		44.5 to 44.5 ft BGS	53.5 to 53.5 ft BGS	63 to 63 ft BGS	74 to 74 ft BGS	84 to 84 ft BGS	93 to 93 ft BGS	99.5 to 99.5 ft BGS	
elev_MLLW		-26.35 to -26.35	-35.35 to -35.35	-44.85 to -44.85	-55.85 to -55.85	-65.85 to -65.85	-74.85 to -74.85	-81.35 to -81.35	
elev_NGVD		-32.7 to -32.7	-41.7 to -41.7	-51.2 to -51.2	-62.2 to -62.2	-72.2 to -72.2	-81.2 to -81.2	-87.7 to -87.7	
		(Duplicate)							
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	700 U	65 U	380 U	1400 U	1600 U	380 U	7000 U
1,1,2-Trichloroethane	µg/kg	15.2	700 U	65 U	380 U	1400 U	1600 U	380 U	7000 U
1,1-Dichloroethene	µg/kg	1.13	700 U	32 J	380 U	1400 U	1600 U	110 J	1900 J
Carbon tetrachloride	µg/kg	1.93	700 U	65 U	380 U	1400 U	1600 U	380 U	7000 U
Chloroform (Trichloromethane)	µg/kg	1.60	700 U	31 J	380 U	1400 U	1600 U	380 U	1100 J
cis-1,2-Dichloroethene	µg/kg	NV	14000 J	9000	420	10000	3200	23000	300000
Methylene chloride	µg/kg	475	240 J	260 U	250 J	840 J	1100 J	250 J	5000 J
Tetrachloroethene	µg/kg	4.88	19000 J	560	2600	59000	18000	380 U	5600000
trans-1,2-Dichloroethene	µg/kg	3247	700 U	88	180 J	1400 U	1600 U	2400	2400 J
Trichloroethene	µg/kg	30.8	32000	280	200 J	31000	79000	190 J	2500000
Vinyl chloride	µg/kg	0.73	390 J	3300	16000	2400	650 J	90 J	18000
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUR-01	WMUR-01	WMUR-01	WMUR-01	WMUR-01	WMUR-02	WMUR-02	
Sample ID:		S-061612-KB-WMUR01-018	S-061612-KB-WMUR01-019	S-061612-KB-WMUR01-020	S-061612-KB-WMUR01-021	S-061612-KB-FD-004	S-061312-KB-WMUR02-001	S-061312-KB-WMUR02-002	
Sample Date:		6/16/2012	6/16/2012	6/16/2012	6/16/2012	6/16/2012	6/13/2012	6/13/2012	
Sample Depth:		103 to 103 ft BGS	104.7 to 104.7 ft BGS	108.5 to 108.5 ft BGS	119.5 to 119.5 ft BGS	119.5 to 119.5 ft BGS	14.5 to 14.5 ft BGS	15.7 to 15.7 ft BGS	
elev_MLLW		-84.85 to -84.85	-86.55 to -86.55	-90.35 to -90.35	-101.35 to -101.35	-101.35 to -101.35	3.47 to 3.47	2.27 to 2.27	
elev_NGVD		-91.2 to -91.2	-92.9 to -92.9	-96.7 to -96.7	-107.7 to -107.7	-107.7 to -107.7	-2.8 to -2.8	-4 to -4	
Parameters	Units	Cs				(Duplicate)			
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	380 U	3600 U	140 U	5.2 U	4.9 U	180 U	67 U
1,1,2-Trichloroethane	µg/kg	15.2	380 U	3600 U	140 U	5.2 U	4.9 U	180 U	67 U
1,1-Dichloroethene	µg/kg	1.13	710	700 J	140 U	5.2 U	4.9 U	180 U	13 J
Carbon tetrachloride	µg/kg	1.93	380 U	3600 U	140 U	5.2 U	4.9 U	180 U	67 U
Chloroform (Trichloromethane)	µg/kg	160	720	630 J	140 U	5.2 U	4.9 U	180 U	67 U
cis-1,2-Dichloroethene	µg/kg	NV	290000	200000	3900	1.0 J	1.1 J	130 J	220
Methylene chloride	µg/kg	475	2300	2300 J	170 J	11 U	9.8 U	91 J	28 J
Tetrachloroethene	µg/kg	4.88	280000	9100	4600	2.1 J	3.2 J	120000	62000
trans-1,2-Dichloroethene	µg/kg	3247	1200	910 J	140 U	5.2 U	4.9 U	180 U	67 U
Trichloroethene	µg/kg	30.8	160000	3900	7200	1.2 J	1.2 J	1400	1100
Vinyl chloride	µg/kg	0.73	7300	16000	23 J	0.76 J	4.9 U	330	770
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUR-02</i>	<i>WMUR-02</i>	<i>WMUR-02</i>	<i>WMUR-02</i>	<i>WMUR-02</i>	<i>WMUR-02</i>	<i>WMUR-02</i>	
<i>Sample ID:</i>		<i>S-061312-KB-WMUR02-003</i>	<i>S-061312-KB-WMUR02-004</i>	<i>S-061312-KB-WMUR02-005</i>	<i>S-061412-KB-WMUR02-006</i>	<i>S-061412-KB-WMUR02-007</i>	<i>S-061412-KB-WMUR02-008</i>	<i>S-061412-KB-FD-001</i>	
<i>Sample Date:</i>		<i>6/13/2012</i>	<i>6/13/2012</i>	<i>6/13/2012</i>	<i>6/14/2012</i>	<i>6/14/2012</i>	<i>6/14/2012</i>	<i>6/14/2012</i>	
<i>Sample Depth:</i>		<i>18 to 18 ft BGS</i>	<i>24 to 24 ft BGS</i>	<i>32.5 to 32.5 ft BGS</i>	<i>43 to 43 ft BGS</i>	<i>52 to 52 ft BGS</i>	<i>64 to 64 ft BGS</i>	<i>64 to 64 ft BGS</i>	
<i>elev_MLLW</i>		<i>-0.03 to -0.03</i>	<i>-6.03 to -6.03</i>	<i>-14.53 to -14.53</i>	<i>-25.03 to -25.03</i>	<i>-34.03 to -34.03</i>	<i>-46.03 to -46.03</i>	<i>-46.03 to -46.03</i>	
<i>elev_NGVD</i>		<i>-6.4 to -6.4</i>	<i>-12.4 to -12.4</i>	<i>-20.8 to -20.8</i>	<i>-31.4 to -31.4</i>	<i>-40.4 to -40.4</i>	<i>-52.4 to -52.4</i>	<i>-52.4 to -52.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>						<i>(Duplicate)</i>	
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	67 U	1200 U	4.7 U	25 J	5.4 U	4.8 U	4.9 U
1,1,2-Trichloroethane	µg/kg	15.2	67 U	1200 U	4.7 U	63 U	5.4 U	4.8 U	4.9 U
1,1-Dichloroethene	µg/kg	1.13	67 U	1200 U	0.57 J	63 U	5.4 U	0.43 J	4.9 U
Carbon tetrachloride	µg/kg	1.93	67 U	1200 U	4.7 U	63 U	5.4 U	4.8 U	4.9 U
Chloroform (Trichloromethane)	µg/kg	160	67 U	280 J	0.42 J	16 J	5.4 U	1.2 J	0.57 J
cis-1,2-Dichloroethene	µg/kg	NV	12 J	1200 U	99	160	2.2 J	11	4.1 J
Methylene chloride	µg/kg	475	270 U	1400 J	9.3 U	28 J	11 U	9.6 U	9.8 U
Tetrachloroethene	µg/kg	4.88	6900	47000	270	3700	4.7 J	5.8	0.82 J
trans-1,2-Dichloroethene	µg/kg	3247	67 U	1200 U	0.95 J	63 U	5.4 U	28	19
Trichloroethene	µg/kg	30.8	160	1500	110	1100	2.3 J	17	6.0
Vinyl chloride	µg/kg	0.73	16 J	260 J	190	63 U	5.4 U	430	900
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>WMUR-02</i>	<i>WMUR-02</i>	<i>WMUR-02</i>	<i>WMUR-02</i>	<i>WMUR-02</i>	<i>WMUR-02</i>	<i>WMUR-02</i>
<i>Sample ID:</i>			<i>S-061412-KB-WMUR02-009</i>	<i>S-061412-KB-WMUR02-010</i>	<i>S-061412-KB-WMUR02-011</i>	<i>S-061412-KB-WMUR02-012</i>	<i>S-061412-KB-FD-002</i>	<i>S-061412-KB-WMUR02-013</i>	<i>S-061412-KB-WMUR02-014</i>
<i>Sample Date:</i>			<i>6/14/2012</i>	<i>6/14/2012</i>	<i>6/14/2012</i>	<i>6/14/2012</i>	<i>6/14/2012</i>	<i>6/14/2012</i>	<i>6/14/2012</i>
<i>Sample Depth:</i>			<i>66 to 66 ft BGS</i>	<i>76.5 to 76.5 ft BGS</i>	<i>87 to 87 ft BGS</i>	<i>99.5 to 99.5 ft BGS</i>	<i>99.5 to 99.5 ft BGS</i>	<i>105.5 to 105.5 ft BGS</i>	<i>117 to 117 ft BGS</i>
<i>elev_MLLW</i>			<i>-48.03 to -48.03</i>	<i>-58.53 to -58.53</i>	<i>-69.03 to -69.03</i>	<i>-81.53 to -81.53</i>	<i>-81.53 to -81.53</i>	<i>-87.53 to -87.53</i>	<i>-99.03 to -99.03</i>
<i>elev_NGVD</i>			<i>-54.4 to -54.4</i>	<i>-64.8 to -64.8</i>	<i>-75.4 to -75.4</i>	<i>-87.8 to -87.8</i>	<i>-87.8 to -87.8</i>	<i>-93.8 to -93.8</i>	<i>-105.4 to -105.4</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>	<i>(Duplicate)</i>						
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	190 U	360 U	710 U	670 U	660 U	190 U	6.0 U
1,1,2-Trichloroethane	µg/kg	15.2	190 U	360 U	710 U	670 U	660 U	190 U	6.0 U
1,1-Dichloroethene	µg/kg	1.13	190 U	360 U	150 J	150 J	160 J	48 J	6.0 U
Carbon tetrachloride	µg/kg	1.93	190 U	360 U	710 U	670 U	660 U	190 U	6.0 U
Chloroform (Trichloromethane)	µg/kg	160	190 U	360 U	180 J	330 J	370 J	190 U	0.24 J
cis-1,2-Dichloroethene	µg/kg	NV	190 U	19000	54000	42000	48000	12000	1.1 J
Methylene chloride	µg/kg	475	230 J	430 J	660 J	550 J	630 J	150 J	12 U
Tetrachloroethene	µg/kg	4.88	1100	1700	710 U	670 U	660 U	650	2.7 J
trans-1,2-Dichloroethene	µg/kg	3247	120 J	57 J	420 U	270 J	290 J	71 J	6.0 U
Trichloroethene	µg/kg	30.8	720	290 J	180 J	7900	6700	4300	0.49 J
Vinyl chloride	µg/kg	0.73	9200	4700	3500	2600	3500	310	1.4 J
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUR-03</i>	<i>WMUR-03</i>	<i>WMUR-03</i>	<i>WMUR-03</i>	<i>WMUR-03</i>	<i>WMUR-03</i>	<i>WMUR-03</i>	
<i>Sample ID:</i>		<i>S-061712-KB-WMUR03-001</i>	<i>S-061712-KB-WMUR03-002</i>	<i>S-061712-KB-WMUR03-003</i>	<i>S-061712-KB-WMUR03-004</i>	<i>S-061712-KB-FD-005</i>	<i>S-061812-KB-WMUR03-005</i>	<i>S-061812-KB-WMUR03-006</i>	
<i>Sample Date:</i>		<i>6/17/2012</i>	<i>6/17/2012</i>	<i>6/17/2012</i>	<i>6/17/2012</i>	<i>6/17/2012</i>	<i>6/18/2012</i>	<i>6/18/2012</i>	
<i>Sample Depth:</i>		<i>9.5 to 9.5 ft BGS</i>	<i>14.5 to 14.5 ft BGS</i>	<i>26.5 to 26.5 ft BGS</i>	<i>36 to 36 ft BGS</i>	<i>36 to 36 ft BGS</i>	<i>49.5 to 49.5 ft BGS</i>	<i>54.5 to 54.5 ft BGS</i>	
<i>elev_MLLW</i>		<i>6.6 to 6.6</i>	<i>1.6 to 1.6</i>	<i>-10.4 to -10.4</i>	<i>-19.9 to -19.9</i>	<i>-19.9 to -19.9</i>	<i>-33.4 to -33.4</i>	<i>-38.4 to -38.4</i>	
<i>elev_NGVD</i>		<i>0.3 to 0.3</i>	<i>-4.7 to -4.7</i>	<i>-16.7 to -16.7</i>	<i>-26.2 to -26.2</i>	<i>-26.2 to -26.2</i>	<i>-39.7 to -39.7</i>	<i>-44.7 to -44.7</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	660 U	220 J	660 U	5.1 U	0.92 J	690 U	780 U
1,1,2-Trichloroethane	µg/kg	15.2	660 U	590 U	660 U	5.1 U	5.6 U	690 U	780 U
1,1-Dichloroethene	µg/kg	1.13	660 U	590 U	660 U	5.1 U	5.6 U	120 J	140 J
Carbon tetrachloride	µg/kg	1.93	660 U	590 U	660 U	5.1 U	5.6 U	690 U	780 U
Chloroform (Trichloromethane)	µg/kg	160	660 U	590 U	660 U	0.52 J	1.2 J	300 J	190 J
cis-1,2-Dichloroethene	µg/kg	NV	660 U	590 U	660 U	7.6	27	52000	81000
Methylene chloride	µg/kg	475	460 J	420 J	410 J	11 U	12 U	520 J	560 J
Tetrachloroethene	µg/kg	4.88	42000	44000	43000	2.5 J	71	17000	3600
trans-1,2-Dichloroethene	µg/kg	3247	660 U	590 U	660 U	0.95 J	1.2 J	480 J	450 J
Trichloroethene	µg/kg	30.8	1000	850	1300	6.6	47	20000	810
Vinyl chloride	µg/kg	0.73	660 U	590 U	660 U	3.9 J	3.7 J	6400	27000
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUR-03	WMUR-03	WMUR-03	WMUR-03	WMUR-03	WMUR-03	WMUR-03	
Sample ID:		S-061812-KB-WMUR03-007	S-061812-KB-WMUR03-008	S-061812-KB-WMUR03-009	S-061812-KB-WMUR03-010	S-061812-KB-WMUR03-011	S-061812-KB-FD-006	S-061812-KB-WMUR03-012	
Sample Date:		6/18/2012	6/18/2012	6/18/2012	6/18/2012	6/18/2012	6/18/2012	6/18/2012	
Sample Depth:		63.5 to 63.5 ft BGS	72 to 72 ft BGS	83.5 to 83.5 ft BGS	94.5 to 94.5 ft BGS	103 to 103 ft BGS	103 to 103 ft BGS	109.8 to 109.8 ft BGS	
elev_MLLW		-47.4 to -47.4	-55.9 to -55.9	-67.4 to -67.4	-78.4 to -78.4	-86.9 to -86.9	-86.9 to -86.9	-93.7 to -93.7	
elev_NGVD		-53.7 to -53.7	-62.2 to -62.2	-73.7 to -73.7	-84.7 to -84.7	-93.2 to -93.2	(Duplicate)	-100 to -100	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	4.9 U	68 U	380 U	340 U	380 U	380 U	33000 U
1,1,2-Trichloroethane	µg/kg	15.2	4.9 U	68 U	380 U	340 U	380 U	380 U	33000 U
1,1-Dichloroethene	µg/kg	1.13	2.1 J	68 U	380 U	80 J	89 J	110 J	9100 J
Carbon tetrachloride	µg/kg	1.93	4.9 U	68 U	380 U	340 U	380 U	380 U	33000 U
Chloroform (Trichloromethane)	µg/kg	160	10	11 J	380 U	60 J	60 J	160 J	33000 U
cis-1,2-Dichloroethene	µg/kg	NV	410	51 J	600	22000	23000	25000	460000
Methylene chloride	µg/kg	475	9.7 U	280 U	1500 U	1400 U	1500 U	300 J	21000 J
Tetrachloroethene	µg/kg	4.88	390	6400	240 J	240 J	380 U	380 U	7400000
trans-1,2-Dichloroethene	µg/kg	3247	8.4	160	250 J	600	190 J	340 J	11000 J
Trichloroethene	µg/kg	30.8	140	570	560	120 J	380 U	83 J	11000000
Vinyl chloride	µg/kg	0.73	210	1600	17000	2400	4200	4300	7800 J
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUR-03</i>	<i>WMUR-03</i>	<i>WMUR-03</i>	<i>WMUR-04</i>	<i>WMUR-04</i>	<i>WMUR-04</i>	<i>WMUR-04</i>	
<i>Sample ID:</i>		<i>S-061812-KB-WMUR03-013</i>	<i>S-061812-KB-WMUR03-014</i>	<i>S-061812-KB-WMUR03-015</i>	<i>S-061912-KB-WMUR04-001</i>	<i>S-061912-KB-WMUR04-002</i>	<i>S-061912-KB-WMUR04-003</i>	<i>S-061912-KB-WMUR04-004</i>	
<i>Sample Date:</i>		<i>6/18/2012</i>	<i>6/18/2012</i>	<i>6/18/2012</i>	<i>6/19/2012</i>	<i>6/19/2012</i>	<i>6/19/2012</i>	<i>6/19/2012</i>	
<i>Sample Depth:</i>		<i>113 to 113 ft BGS</i>	<i>116 to 116 ft BGS</i>	<i>119.5 to 119.5 ft BGS</i>	<i>9 to 9 ft BGS</i>	<i>15.5 to 15.5 ft BGS</i>	<i>19 to 19 ft BGS</i>	<i>29 to 29 ft BGS</i>	
<i>elev_MLLW</i>		<i>-96.9 to -96.9</i>	<i>-99.9 to -99.9</i>	<i>-103.4 to -103.4</i>	<i>7.68 to 7.68</i>	<i>1.18 to 1.18</i>	<i>-2.32 to -2.32</i>	<i>-12.32 to -12.32</i>	
<i>elev_NGVD</i>		<i>-103.2 to -103.2</i>	<i>-106.2 to -106.2</i>	<i>-109.7 to -109.7</i>	<i>1.4 to 1.4</i>	<i>-5.1 to -5.1</i>	<i>-8.6 to -8.6</i>	<i>-18.6 to -18.6</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	33000 U	330 U	72 U	1.5 J	3200 U	3300 U	1400 U
1,1,2-Trichloroethane	µg/kg	15.2	33000 U	330 U	72 U	5.4 U	3200 U	3300 U	1400 U
1,1-Dichloroethene	µg/kg	1.13	33000 U	330 U	72 U	5.4 U	3200 U	3300 U	1400 U
Carbon tetrachloride	µg/kg	1.93	33000 U	330 U	72 U	0.36 J	3200 U	3300 U	1400 U
Chloroform (Trichloromethane)	µg/kg	160	33000 U	330 U	72 U	0.35 J	3200 U	3300 U	1400 U
cis-1,2-Dichloroethene	µg/kg	NV	9000 J	330 U	42 J	0.60 J	3200 U	3300 U	6100
Methylene chloride	µg/kg	475	22000 J	240 J	290 U	11 U	2400 J	2400 J	1200 J
Tetrachloroethene	µg/kg	4.88	8800000	12000	4300	2400	140000	200000	56000
trans-1,2-Dichloroethene	µg/kg	3247	33000 U	330 U	72 U	5.4 U	3200 U	3300 U	1400 U
Trichloroethene	µg/kg	30.8	3600000	410	4600	30	12000	11000	16000
Vinyl chloride	µg/kg	0.73	33000 U	330 U	72 U	0.43 J	3200 U	3300 U	1400 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:		WMUR-04	WMUR-04	WMUR-04	WMUR-04	WMUR-04	WMUR-04	WMUR-04	
Sample ID:		S-061912-KB-WMUR04-005	S-061912-KB-WMUR04-006	S-061912-KB-WMUR04-007	S-062012-KB-WMUR04-008	S-062012-KB-WMUR04-009	S-062012-KB-WMUR04-010	S-062012-KB-WMUR04-011	
Sample Date:		6/19/2012	6/19/2012	6/19/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012	
Sample Depth:		38.9 to 38.9 ft BGS	47.5 to 47.5 ft BGS	57 to 57 ft BGS	67.5 to 67.5 ft BGS	74.8 to 74.8 ft BGS	78.5 to 78.5 ft BGS	89.3 to 89.3 ft BGS	
elev_MLLW		-22.22 to -22.22	-30.82 to -30.82	-40.32 to -40.32	-50.82 to -50.82	-58.12 to -58.12	-61.82 to -61.82	-72.62 to -72.62	
elev_NGVD		-28.5 to -28.5	-37.1 to -37.1	-46.6 to -46.6	-57.1 to -57.1	-64.4 to -64.4	-68.1 to -68.1	-78.9 to -78.9	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	110000	67 U	3700 U	5.8 U	320 U	1700 U	2000 U
1,1,2-Trichloroethane	µg/kg	15.2	41000 U	28 J	3700 U	5.8 U	320 U	1700 U	2000 U
1,1-Dichloroethene	µg/kg	1.13	41000 U	52 J	3700 U	5.8 U	56 J	1700 U	2000 U
Carbon tetrachloride	µg/kg	1.93	41000 U	67 U	3700 U	5.8 U	320 U	1700 U	2000 U
Chloroform (Trichloromethane)	µg/kg	160	7300 J	60 J	3700 U	5.8 U	320 U	1700 U	2000 U
cis-1,2-Dichloroethene	µg/kg	NV	110000	25000	140000	2.2 J	8600	4100	8400
Methylene chloride	µg/kg	475	36000 J	270 U	3000 J	12 U	320 J	1700 J	2600 J
Tetrachloroethene	µg/kg	4.88	560000	2100	250000	0.82 J	4900	64000	4200
trans-1,2-Dichloroethene	µg/kg	3247	41000 U	170	660 J	5.8 U	160 J	1700 U	350 J
Trichloroethene	µg/kg	30.8	1700000	7400	150000	3.4 J	2600	61000	130000
Vinyl chloride	µg/kg	0.73	41000 U	1200	9700	4.6 J	11000	1100 J	2100
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUR-04	WMUR-04	WMUR-04	WMUR-04	WMUR-04	WMUR-05/83C	WMUR-05/83C	WMUR-05/83C		
Sample ID:	S-062012-KB-WMUR04-012	S-062012-KB-WMUR04-013	S-062012-KB-WMUR04-014	S-062012-KB-WMUR04-015	S-062012-KB-FD-007	S-060612-DD-83C-001	S-060612-DD-83C-003	S-060612-DD-83C-002		
Sample Date:	6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/6/2012	6/6/2012	6/6/2012		
Sample Depth:	99.5 to 99.5 ft BGS	109.5 to 109.5 ft BGS	112 to 112 ft BGS	117.5 to 117.5 ft BGS	117.5 to 117.5 ft BGS	14 to 14 ft BGS	21.2 to 21.2 ft BGS	23 to 23 ft BGS		
elev_MLLW	-82.82 to -82.82	-92.82 to -92.82	-95.32 to -95.32	-100.82 to -100.82	-100.82 to -100.82	3.78 to 3.78	-3.42 to -3.42	-5.22 to -5.22		
elev_NGVD	-89.1 to -89.1	-99.1 to -99.1	-101.6 to -101.6	-107.1 to -107.1	-107.1 to -107.1	-2.5 to -2.5	-9.7 to -9.7	-11.5 to -11.5		
Parameters	Units	Cs	(Duplicate)							
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	700 U	70000 U	320 U	1300 U	690 U	5.3 U	6.1 U	270
1,1,2-Trichloroethane	µg/kg	15.2	700 U	70000 U	320 U	1300 U	690 U	5.3 U	6.1 U	85 U
1,1-Dichloroethene	µg/kg	1.13	150 J	70000 U	320 U	1300 U	690 U	5.3 U	6.1 U	15 J
Carbon tetrachloride	µg/kg	1.93	700 U	70000 U	320 U	1300 U	690 U	5.3 U	6.1 U	85 U
Chloroform (Trichloromethane)	µg/kg	160	700 U	70000 U	320 U	1300 U	690 U	0.21 J	6.1 U	85 U
cis-1,2-Dichloroethene	µg/kg	NV	25000	26000 J	1300	11000	8500	19	8.2	16000
Methylene chloride	µg/kg	475	670 J	57000 J	1300 U	1000 J	600 J	11 U	13 U	110 J
Tetrachloroethene	µg/kg	4.88	200 J	5900000	1800	38000	27000	8000	1.7 J	93000
trans-1,2-Dichloroethene	µg/kg	3247	940	70000 U	320 U	1300 U	690 U	5.3 U	0.81 J	160
Trichloroethene	µg/kg	30.8	170 J	5000000	8000	20000	17000	55	2.6 J	100000
Vinyl chloride	µg/kg	0.73	25000	70000 U	320 U	710 J	1400	5.3 U	27	22 J
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	WMUR-05/83C	WMUR-05/83C	WMUR-05/83C	WMUR-05/83C	WMUR-05/83C	WMUR-05/83C	WMUR-05/83C	WMUR-05/83C	WMUR-05/83C	
Sample ID:	FD-060612-DD-83C-002	S-060612-DD-83C-005	S-060612-DD-83C-004	S-060612-DD-83C-006	S-060712-DD-83C-007	S-060712-DD-83C-008	S-060712-DD-83C-009	S-060712-DD-83C-010		
Sample Date:	6/6/2012	6/6/2012	6/6/2012	6/6/2012	6/7/2012	6/7/2012	6/7/2012	6/7/2012	6/7/2012	
Sample Depth:	23 to 23 ft BGS	23.5 to 23.5 ft BGS	24 to 24 ft BGS	42.5 to 42.5 ft BGS	54.5 to 54.5 ft BGS	63 to 63 ft BGS	73.5 to 73.5 ft BGS	80.5 to 80.5 ft BGS		
elev_MLLW	-5.22 to -5.22	-5.72 to -5.72	-6.22 to -6.22	-24.72 to -24.72	-36.72 to -36.72	-45.22 to -45.22	-55.72 to -55.72	-62.72 to -62.72		
elev_NGVD	-11.5 to -11.5	-12 to -12	-12.5 to -12.5	-31 to -31	-43 to -43	-51.5 to -51.5	-62 to -62	-69 to -69		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	160	5.6 U	73 U	5.3 U	4.3 U	5.5 U	5.6 U	70 U
1,1,2-Trichloroethane	µg/kg	15.2	82 U	5.6 U	73 U	5.3 U	4.3 U	5.5 U	5.6 U	70 U
1,1-Dichloroethene	µg/kg	1.13	31 J	5.6 U	73	5.3 U	4.3 U	5.5 U	5.6 U	38 J
Carbon tetrachloride	µg/kg	1.93	82 U	5.6 U	73 U	5.3 U	4.3 U	5.5 U	5.6 U	70 U
Chloroform (Trichloromethane)	µg/kg	160	82 U	5.6 U	73 U	2.7 J	3.8 J	0.54 J	0.42 J	70 U
cis-1,2-Dichloroethene	µg/kg	NV	18000	0.55 J	24000	5.7	5.7	2.4 J	3.2 J	5600
Methylene chloride	µg/kg	475	75 J	12 U	52 J	11 U	8.6 U	11 U	12 U	280 U
Tetrachloroethene	µg/kg	4.88	77000	1.9 J	120000	11	62	1.6 J	12	18000
trans-1,2-Dichloroethene	µg/kg	3247	210	5.6 U	520	0.69 J	0.37 J	0.50 J	19	29 J
Trichloroethene	µg/kg	30.8	93000	2.7 J	190000	48	47	6.1	3.5 J	24000
Vinyl chloride	µg/kg	0.73	220 J	5.6 U	660	5.3 U	0.25 J	0.94 J	3600	2500
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUR-05/83C	WMUR-05/83C	WMUR-05/83C	WMUR-05/83C	WMUR-05/83C	WMUR-05/83C	WMUR-05/83C	WMUR-05/83C	WMUR-05/83C	WMUR-05/83C	
Sample ID:	S-060712-DD-83C-012	S-060712-DD-83C-011	S-060712-DD-83C-013	S-060812-DD-83C-014	S-060812-DD-83C-015	S-060812-DD-83C-016	S-061412-AK-83C-017	S-061412-AK-FD-001	S-061412-AK-83C-018	S-061412-AK-83C-019	
Sample Date:	6/7/2012	6/7/2012	6/7/2012	6/8/2012	6/8/2012	6/8/2012	6/14/2012	6/14/2012	6/14/2012	6/14/2012	
Sample Depth:	89 to 89 ft BGS	91 to 91 ft BGS	103.5 to 103.5 ft BGS	114.5 to 114.5 ft BGS	119 to 119 ft BGS	133 to 133 ft BGS	142 to 142 ft BGS	142 to 142 ft BGS	142 to 142 ft BGS	152 to 152 ft BGS	
elev_MLLW	-71.22 to -71.22	-73.22 to -73.22	-85.72 to -85.72	-96.72 to -96.72	-101.22 to -101.22	-115.22 to -115.22	-124.22 to -124.22	-124.22 to -124.22	-124.22 to -124.22	-134.22 to -134.22	
elev_NGVD	-77.5 to -77.5	-79.5 to -79.5	-92 to -92	-103 to -103	-107.5 to -107.5	-121.5 to -121.5	-130.5 to -130.5	-130.5 to -130.5	-130.5 to -130.5	-140.5 to -140.5	
Parameters	Units	Cs									
Volatile Organic Compounds											
1,1,2,2-Tetrachloroethane	µg/kg	4.02	690 U	180 U	68 U	5.0 U	1600 U	5.5 U	5.3 U	70 U	5.7 U
1,1,2-Trichloroethane	µg/kg	15.2	690 U	180 U	68 U	5.0 U	1600 U	5.5 U	5.3 U	70 U	5.7 U
1,1-Dichloroethene	µg/kg	1.13	810	510	290	7.2	2700	1.0 J	2.0 J	70 U	5.7 U
Carbon tetrachloride	µg/kg	1.93	690 U	180 U	68 U	5.0 U	1600 U	5.5 U	5.3 U	70 U	5.7 U
Chloroform (Trichloromethane)	µg/kg	160	220 J	180 U	68 U	5.0 U	460 J	5.5 U	0.31 J	70 U	5.7 U
cis-1,2-Dichloroethene	µg/kg	NV	68000	25000	20000	18	9600	23	1500 J	3200 J	0.59 J
Methylene chloride	µg/kg	475	340 J	700 U	270 U	10 U	730 J	11 U	11 U	280 U	12 U
Tetrachloroethene	µg/kg	4.88	840000	110000	2700	5000	560000	790	26 J	70 UJ	2.9 J
trans-1,2-Dichloroethene	µg/kg	3247	690 J	440	75	42	730 J	0.98 J	13	11 J	5.7 U
Trichloroethene	µg/kg	30.8	89000	18000	34000	5200	120000	980	18 J	70 U	5.7 U
Vinyl chloride	µg/kg	0.73	11000	19000	3000	1.3 J	1600 U	0.69 J	120 J	150	5.7 U
Semi-volatile Organic Compounds											
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-	-
Metals~Total											
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-	-
PCBs											
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	WMUR-05/83C	WMUR-06/94C	WMUR-06/94C	WMUR-06/94C	WMUR-06/94C	WMUR-06/94C	WMUR-06/94C	WMUR-06/94C	WMUR-06/94C	
Sample ID:	S-061412-AK-83C-019	S-052112-DRD-94C-001	S-052112-DRD-94C-002	S-052112-DRD-94C-003	S-052112-DRD-94C-004	S-052112-DRD-94C-005	S-052112-DRD-94C-006	S-052112-DRD-94C-007		
Sample Date:	6/14/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012	5/21/2012		
Sample Depth:	162 to 162 ft BGS	5 to 5 ft BGS	15 to 15 ft BGS	25 to 25 ft BGS	35 to 35 ft BGS	45 to 45 ft BGS	55 to 55 ft BGS	65 to 65 ft BGS		
elev_MLLW	-144.22 to -144.22	12.61 to 12.61	2.61 to 2.61	-7.39 to -7.39	-17.39 to -17.39	-27.39 to -27.39	-37.39 to -37.39	-47.39 to -47.39		
elev_NGVD	-150.5 to -150.5	6.3 to 6.3	-3.7 to -3.7	-13.7 to -13.7	-23.7 to -23.7	-33.7 to -33.7	-43.7 to -43.7	-53.7 to -53.7		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.3 U	5.6 U	5.5 U	5.6 U	5.8 U	5.1 U	5.6 U	6.1 U
1,1,2-Trichloroethane	µg/kg	15.2	5.3 U	5.6 U	5.5 U	5.6 U	5.8 U	5.1 U	5.6 U	6.1 U
1,1-Dichloroethene	µg/kg	1.13	5.3 U	5.6 U	5.5 U	5.6 U	5.8 U	5.1 U	1.0 J	0.35 J
Carbon tetrachloride	µg/kg	1.93	5.3 U	5.6 U	5.5 U	5.6 U	5.8 U	5.1 U	5.6 U	6.1 U
Chloroform (Trichloromethane)	µg/kg	160	5.3 U	5.6 U	5.5 U	5.6 U	5.8 U	5.1 U	5.6 U	6.1 U
cis-1,2-Dichloroethene	µg/kg	NV	5.3 U	5.6 U	3.4 J	3.1 J	5.8 U	0.20 J	7.8	4.1 J
Methylene chloride	µg/kg	475	11 U	12 U	11 U	12 U	12 U	11 U	12 U	13 U
Tetrachloroethene	µg/kg	4.88	2.8 J	0.95 J	0.73 J	0.87 J	0.82 J	0.63 J	5.6 U	0.84 J
trans-1,2-Dichloroethene	µg/kg	3247	5.3 U	5.6 U	2.2 J	5.6 U	5.8 U	5.1 U	0.79 J	0.72 J
Trichloroethene	µg/kg	30.8	5.3 U	0.51 J	0.73 J	0.46 J	5.8 U	0.46 J	0.80 J	0.76 J
Vinyl chloride	µg/kg	0.73	5.3 U	5.6 U	5.5 U	5.6 U	5.8 U	5.1 U	0.88 J	1.0 J
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUR-06/94C	WMUR-06/94C	WMUR-06/94C	WMUR-06/94C	WMUR-06/94C	WMUR-06/94C	WMUR-06/94C	WMUR-06/94C	WMUR-06/94C	
Sample ID:	S-052212-DRD-94C-008	FD-052212-DRD-94C-008	S-052212-DRD-94C-009	S-052212-DRD-94C-010	S-052212-DRD-94C-011	S-052212-DRD-94C-012	S-052212-DRD-94C-013	S-052212-DRD-94C-015		
Sample Date:	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012	5/22/2012		
Sample Depth:	75 to 75 ft BGS	75 to 75 ft BGS	85 to 85 ft BGS	95 to 95 ft BGS	103.5 to 103.5 ft BGS	113 to 113 ft BGS	121.5 to 121.5 ft BGS	127.01 to 127.01 ft BGS		
elev_MLLW	-57.39 to -57.39	-57.39 to -57.39	-67.39 to -67.39	-77.39 to -77.39	-85.89 to -85.89	-95.39 to -95.39	-103.89 to -103.89	-109.4 to -109.4		
elev_NGVD	-63.7 to -63.7	-63.7 to -63.7	-73.7 to -73.7	-83.7 to -83.7	-92.2 to -92.2	-101.7 to -101.7	-110.2 to -110.2	-115.7 to -115.7		
Parameters	Units	Cs								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.2 U	5.3 U	5.0 U	66 U	66 U	69 U	56 U	170 U
1,1,2-Trichloroethane	µg/kg	15.2	5.2 U	5.3 U	5.0 U	80	66 U	29 J	56 U	170 U
1,1-Dichloroethene	µg/kg	1.13	5.2 U	0.43 J	5.0 U	68	160	110	250	790
Carbon tetrachloride	µg/kg	1.93	5.2 U	5.3 U	5.0 U	66 U	66 U	69 U	56 U	170 U
Chloroform (Trichloromethane)	µg/kg	160	0.23 J	0.35 J	5.0 U	860	860	270	79	170 U
cis-1,2-Dichloroethene	µg/kg	NV	4.3 J	12	1.2 J	26000	51000	36000	32000	7600
Methylene chloride	µg/kg	475	11 U	11 U	9.9 U	77 J	29 J	29 J	52 J	650 U
Tetrachloroethene	µg/kg	4.88	2.0 J	5.2 J	1.3 J	30 J	3600	68 J	2000	8300
trans-1,2-Dichloroethene	µg/kg	3247	0.80 J	1.3 J	0.28 J	560	770	280	520	250
Trichloroethene	µg/kg	30.8	11	29	0.57 J	1300	35000	12000	9400	130000
Vinyl chloride	µg/kg	0.73	0.28 J	0.31 J	5.0 U	1600	3400	1700	3500	52 J
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
Metals~Total										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
PCBs										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUR-06/94C</i>	<i>WMUR-06/94C</i>	<i>WMUR-06/94C</i>	<i>WMUR-06/94C</i>	<i>WMUR-06/94C</i>	<i>WMUR-06/94C</i>	<i>WMUR-06/94C</i>	<i>WMUR-06/94C</i>	
<i>Sample ID:</i>		<i>S-052212-DRD-94C-014</i>	<i>S-052312-DRD-94C-017</i>	<i>S-052312-DRD-94C-016</i>	<i>S-052312-DRD-94C-018</i>	<i>S-052312-DRD-94C-019</i>	<i>S-052312-DRD-94C-021</i>	<i>S-052312-DRD-94C-022</i>	<i>S-052312-DRD-94C-023</i>	
<i>Sample Date:</i>		<i>5/22/2012</i>	<i>5/23/2012</i>	<i>5/23/2012</i>	<i>5/23/2012</i>	<i>5/23/2012</i>	<i>5/23/2012</i>	<i>5/23/2012</i>	<i>5/23/2012</i>	
<i>Sample Depth:</i>		<i>127.8 to 127.8 ft BGS</i>	<i>136.6 to 136.6 ft BGS</i>	<i>137.5 to 137.5 ft BGS</i>	<i>138.6 to 138.6 ft BGS</i>	<i>142.5 to 142.5 ft BGS</i>	<i>151 to 151 ft BGS</i>	<i>164.3 to 164.3 ft BGS</i>	<i>171.7 to 171.7 ft BGS</i>	
<i>elev_MLLW</i>		<i>-110.19 to -110.19</i>	<i>-118.99 to -118.99</i>	<i>-119.89 to -119.89</i>	<i>-120.99 to -120.99</i>	<i>-124.89 to -124.89</i>	<i>-133.39 to -133.39</i>	<i>-146.69 to -146.69</i>	<i>-154.09 to -154.09</i>	
<i>elev_NGVD</i>		<i>-116.5 to -116.5</i>	<i>-125.3 to -125.3</i>	<i>-126.2 to -126.2</i>	<i>-127.3 to -127.3</i>	<i>-131.2 to -131.2</i>	<i>-139.7 to -139.7</i>	<i>-153 to -153</i>	<i>-160.4 to -160.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>								
<i>Volatile Organic Compounds</i>										
1,1,2,2-Tetrachloroethane	µg/kg	4.02	140 U	150 U	130000 U	720 U	690 U	72 U	5.3 U	4.2 U
1,1,2-Trichloroethane	µg/kg	15.2	140 U	150 U	130000 U	720 U	690 U	72 U	5.3 U	4.2 U
1,1-Dichloroethene	µg/kg	1.13	470	430	690000	5400	1300	240	5.3 U	0.42 J
Carbon tetrachloride	µg/kg	1.93	140 U	150 U	130000 U	720 U	690 U	72 U	5.3 U	4.2 U
Chloroform (Trichloromethane)	µg/kg	160	140 U	150 U	130000 U	720 U	690 U	72 U	5.3 U	4.2 U
cis-1,2-Dichloroethene	µg/kg	NV	5100	2200	580000	9600	16000	9500	5.3 U	0.44 J
Methylene chloride	µg/kg	475	530 U	590 U	61000 J	390 J	220 J	60 J	11 U	8.3 U
Tetrachloroethene	µg/kg	4.88	6500	37000	12000000	730000	210000	190000	0.95 J	1.0 J
trans-1,2-Dichloroethene	µg/kg	3247	170	140 J	140000	1400	420 J	320	5.3 U	4.2 U
Trichloroethene	µg/kg	30.8	100000	120000	53000000	540000	490000	310000	1.9 J	5.4 J
Vinyl chloride	µg/kg	0.73	24 J	150 U	130000 U	720 U	690 U	72 U	5.3 U	4.2 U
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-	-
<i>Metals~Total</i>										
Arsenic	µg/kg	146	-	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-	-
<i>PCBs</i>										
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-	-
<i>Pesticides</i>										
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUR-07	WMUR-07	WMUR-07	WMUR-07	WMUR-07	WMUR-07	WMUR-07	
Sample ID:		S-081412-JC-WMUR07-001	S-081412-JC-WMUR07-002	S-081412-JC-WMUR07-003	S-081512-JC-WMUR07-004	S-081512-JC-WMUR07-005	S-081512-JC-WMUR07-006	S-081512-JC-WMUR07-007	
Sample Date:		8/14/2012	8/14/2012	8/14/2012	8/15/2012	8/15/2012	8/15/2012	8/15/2012	
Sample Depth:		18.5 to 18.5 ft BGS	29.5 to 29.5 ft BGS	39 to 39 ft BGS	47 to 47 ft BGS	54 to 54 ft BGS	64 to 64 ft BGS	73 to 73 ft BGS	
elev_MLLW		-1.32 to -1.32	-12.32 to -12.32	-21.82 to -21.82	-29.82 to -29.82	-36.82 to -36.82	-46.82 to -46.82	-55.82 to -55.82	
elev_NGVD		-7.6 to -7.6	-18.6 to -18.6	-28.1 to -28.1	-36.1 to -36.1	-43.1 to -43.1	-53.1 to -53.1	-62.1 to -62.1	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.2 U	5.0 U	5.1 U	5.6 U	5.5 U	5.4 U	370 U
1,1,2-Trichloroethane	µg/kg	15.2	5.2 U	5.0 U	5.1 U	5.6 U	5.5 U	5.4 U	370 U
1,1-Dichloroethene	µg/kg	1.13	5.2 U	5.0 U	5.1 U	5.6 U	5.5 U	5.4 U	370 U
Carbon tetrachloride	µg/kg	1.93	5.2 U	5.0 U	5.1 U	5.6 U	5.5 U	5.4 U	370 U
Chloroform (Trichloromethane)	µg/kg	160	0.31 J	5.0 U	5.1 U	5.6 U	0.29 J	5.4 U	370 U
cis-1,2-Dichloroethene	µg/kg	NV	2.2 J	0.51 J	0.18 J	0.32 J	0.90 J	0.53 J	140 J
Methylene chloride	µg/kg	475	11 U	9.9 U	11 U	12 U	11 U	11 U	1500 U
Tetrachloroethene	µg/kg	4.88	1.7 J	0.87 J	0.47 J	0.29 J	0.41 J	2.0 J	74 J
trans-1,2-Dichloroethene	µg/kg	3247	2.5 J	1.2 J	5.1 U	5.6 U	5.5 U	1.2 J	88 J
Trichloroethene	µg/kg	30.8	6.3	1.8 J	1.8 J	0.55 J	2.6 J	3.3 J	370 U
Vinyl chloride	µg/kg	0.73	8.1	1.8 J	0.98 J	1.5 J	2.1 J	3.4 J	16000
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUR-07</i>	<i>WMUR-07</i>	<i>WMUR-07</i>	<i>WMUR-07</i>	<i>WMUR-07</i>	<i>WMUR-07</i>	<i>WMUR-07</i>	
<i>Sample ID:</i>		<i>S-081512-JC-WMUR07-008</i>	<i>S-081512-JC-WMUR07-009</i>	<i>S-081512-JC-FD-001</i>	<i>S-081512-JC-WMUR07-010</i>	<i>S-081512-JC-WMUR07-011</i>	<i>S-081612-JC-WMUR07-012</i>	<i>S-081612-JC-WMUR07-013</i>	
<i>Sample Date:</i>		<i>8/15/2012</i>	<i>8/15/2012</i>	<i>8/15/2012</i>	<i>8/15/2012</i>	<i>8/15/2012</i>	<i>8/16/2012</i>	<i>8/16/2012</i>	
<i>Sample Depth:</i>		<i>86.5 to 86.5 ft BGS</i>	<i>91.5 to 91.5 ft BGS</i>	<i>91.5 to 91.5 ft BGS</i>	<i>98 to 98 ft BGS</i>	<i>107 to 107 ft BGS</i>	<i>111.5 to 111.5 ft BGS</i>	<i>118.8 to 118.8 ft BGS</i>	
<i>elev_MLLW</i>		<i>-69.32 to -69.32</i>	<i>-74.32 to -74.32</i>	<i>-74.32 to -74.32</i>	<i>-80.82 to -80.82</i>	<i>-89.82 to -89.82</i>	<i>-94.32 to -94.32</i>	<i>-101.62 to -101.62</i>	
<i>elev_NGVD</i>		<i>-75.6 to -75.6</i>	<i>-80.6 to -80.6</i>	<i>-80.6 to -80.6</i>	<i>-87.1 to -87.1</i>	<i>-96.1 to -96.1</i>	<i>-100.6 to -100.6</i>	<i>-107.9 to -107.9</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	370 U	350 U	360 U	15000 U	56 U	R	1400 U
1,1,2-Trichloroethane	µg/kg	15.2	370 U	350 U	360 U	15000 U	56 U	5.6 UJ	1400 U
1,1-Dichloroethene	µg/kg	1.13	220 J	140 J	110 J	15000 U	56 U	0.33 J	240 J
Carbon tetrachloride	µg/kg	1.93	370 U	350 U	360 U	15000 U	56 U	5.6 UJ	1400 U
Chloroform (Trichloromethane)	µg/kg	160	370 U	350 U	360 U	15000 U	56 U	5.6 UJ	1400 U
cis-1,2-Dichloroethene	µg/kg	NV	28000	23000	21000	14000 J	370	0.41 J	430 J
Methylene chloride	µg/kg	475	1500 U	1400 U	1500 U	59000 U	23 J	12 UJ	350 J
Tetrachloroethene	µg/kg	4.88	380	350 U	360 U	4300000	1300	270 J	43000
trans-1,2-Dichloroethene	µg/kg	3247	380	210 J	210 J	15000 U	11 J	0.28 J	530 J
Trichloroethene	µg/kg	30.8	230 J	480	350 J	190000	700	60 J	140000
Vinyl chloride	µg/kg	0.73	26000	11000	17000	11000 J	110	5.6 UJ	1400 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>WMUR-07</i>	<i>WMUR-07</i>	<i>WMUR-07</i>	<i>WMUR-07</i>	<i>WMUR-07</i>	<i>WMUR-07</i>	<i>WMUR-08</i>
<i>Sample ID:</i>			<i>S-081612-JC-WMUR07-014</i>	<i>S-081612-JC-WMUR07-015</i>	<i>S-081612-JC-WMUR07-017</i>	<i>S-081612-JC-WMUR07-016</i>	<i>S-081612-JC-WMUR07-018</i>	<i>S-081612-JC-WMUR07-019</i>	<i>S-081412-KB-WMUR08-001</i>
<i>Sample Date:</i>			<i>8/16/2012</i>	<i>8/16/2012</i>	<i>8/16/2012</i>	<i>8/16/2012</i>	<i>8/16/2012</i>	<i>8/16/2012</i>	<i>8/14/2012</i>
<i>Sample Depth:</i>			<i>119.9 to 119.9 ft BGS</i>	<i>121 to 121 ft BGS</i>	<i>122.5 to 122.5 ft BGS</i>	<i>123 to 123 ft BGS</i>	<i>124 to 124 ft BGS</i>	<i>126 to 126 ft BGS</i>	<i>26.5 to 26.5 ft BGS</i>
<i>elev_MLLW</i>			<i>-102.72 to -102.72</i>	<i>-103.82 to -103.82</i>	<i>-105.32 to -105.32</i>	<i>-105.82 to -105.82</i>	<i>-106.82 to -106.82</i>	<i>-108.82 to -108.82</i>	<i>-9.35 to -9.35</i>
<i>elev_NGVD</i>			<i>-109 to -109</i>	<i>-110.1 to -110.1</i>	<i>-111.6 to -111.6</i>	<i>-112.1 to -112.1</i>	<i>-113.1 to -113.1</i>	<i>-115.1 to -115.1</i>	<i>-15.7 to -15.7</i>
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	40000 U	6100 U	670 U	3200 U	1700 U	64 U	180 U
1,1,2-Trichloroethane	µg/kg	15.2	40000 U	6100 U	670 U	3200 U	1700 U	64 U	180 U
1,1-Dichloroethene	µg/kg	1.13	40000 U	6100 U	670 U	3200 U	1700 U	13 J	53 J
Carbon tetrachloride	µg/kg	1.93	40000 U	6100 U	670 U	3200 U	1700 U	64 U	180 U
Chloroform (Trichloromethane)	µg/kg	160	40000 U	6100 U	670 U	3200 U	1700 U	64 U	330
cis-1,2-Dichloroethene	µg/kg	NV	8600 J	6100 U	470 J	760 J	1100 J	83	14000
Methylene chloride	µg/kg	475	13000 J	2200 J	240 J	820 J	480 J	84 J	710 U
Tetrachloroethene	µg/kg	4.88	15000000	530000	71000	320000	120000	11000	7500
trans-1,2-Dichloroethene	µg/kg	3247	7900 J	6100 U	670 U	3200 U	260 J	64 U	70 J
Trichloroethene	µg/kg	30.8	1700000	270000	140000	330000	250000	8800	19000
Vinyl chloride	µg/kg	0.73	40000 U	6100 U	670 U	3200 U	1700 U	64 U	890
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUR-08	WMUR-08	WMUR-08	WMUR-08	WMUR-08	WMUR-08	WMUR-08	WMUR-08	
Sample ID:	S-081412-KB-WMUR08-002	S-081412-KB-WMUR08-003	S-081412-KB-WMUR08-004	S-081412-KB-WMUR08-005	S-081412-KB-WMUR08-006	S-081512-KB-WMUR08-007	S-081512-KB-WMUR08-008		
Sample Date:	8/14/2012	8/14/2012	8/14/2012	8/14/2012	8/14/2012	8/15/2012	8/15/2012		
Sample Depth:	44 to 44 ft BGS	53 to 53 ft BGS	68.5 to 68.5 ft BGS	71 to 71 ft BGS	79 to 79 ft BGS	80.5 to 80.5 ft BGS	94.5 to 94.5 ft BGS		
elev_MLLW	-26.85 to -26.85	-35.85 to -35.85	-51.35 to -51.35	-53.85 to -53.85	-61.85 to -61.85	-63.35 to -63.35	-77.35 to -77.35		
elev_NGVD	-33.2 to -33.2	-42.2 to -42.2	-57.7 to -57.7	-60.2 to -60.2	-68.2 to -68.2	-69.7 to -69.7	-83.7 to -83.7		
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.7 U	190 U	470 U	170 U	5.1 U	5.6 U	5.2 U
1,1,2-Trichloroethane	µg/kg	15.2	5.7 U	190 U	470 U	170 U	5.1 U	5.6 U	5.2 U
1,1-Dichloroethene	µg/kg	1.13	0.34 J	190 U	250 J	170 U	5.1 U	5.6 U	5.2 U
Carbon tetrachloride	µg/kg	1.93	5.7 U	190 U	470 U	170 U	5.1 U	5.6 U	5.2 U
Chloroform (Trichloromethane)	µg/kg	160	0.47 J	190 U	470 U	170 U	5.1 U	5.6 U	5.2 U
cis-1,2-Dichloroethene	µg/kg	NV	2.4 J	16000	62000	100 J	5.1 U	13	2.8 J
Methylene chloride	µg/kg	475	12 U	740 U	1900 U	680 U	11 U	12 U	11 U
Tetrachloroethene	µg/kg	4.88	13	2900	470 U	170 U	0.37 J	12	2.0 J
trans-1,2-Dichloroethene	µg/kg	3247	0.82 J	48 J	510	61 J	5.1 U	1.3 J	5.2 U
Trichloroethene	µg/kg	30.8	19	530	480	170 U	0.37 J	11	3.3 J
Vinyl chloride	µg/kg	0.73	6.9	2800	36000	16000	700	250	2.0 J
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUR-08	WMUR-08	WMUR-08	WMUR-08	WMUR-09	WMUR-09	WMUR-09	
Sample ID:		S-081512-KB-WMUR08-009	S-081512-KB-WMUR08-010	S-081512-KB-FD001	S-081512-KB-WMUR08-011	S-090512-KB-WMUR09-001	S-090512-KB-WMUR09-002	S-090512-KB-WMUR09-003	
Sample Date:		8/15/2012	8/15/2012	8/15/2012	8/15/2012	9/5/2012	9/5/2012	9/5/2012	
Sample Depth:		109.9 to 109.9 ft BGS	118.2 to 118.2 ft BGS	118.2 to 118.2 ft BGS	125 to 125 ft BGS	9 to 9 ft BGS	10 to 10 ft BGS	12 to 12 ft BGS	
elev_MLLW		-92.75 to -92.75	-101.05 to -101.05	-101.05 to -101.05	-107.85 to -107.85	9.2 to 9.2	8.2 to 8.2	6.2 to 6.2	
elev_NGVD		-99.1 to -99.1	-107.4 to -107.4	-107.4 to -107.4	-114.2 to -114.2	2.9 to 2.9	1.9 to 1.9	-0.1 to -0.1	
Parameters	Units	Cs		(Duplicate)					
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	34000 U	640 U	640 U	87 U	94 U	180 U	710 U
1,1,2-Trichloroethane	µg/kg	15.2	34000 U	640 U	640 U	87 U	94 U	180 U	710 U
1,1-Dichloroethene	µg/kg	1.13	18000 J	640 U	640 U	87 U	94 U	180 U	710 U
Carbon tetrachloride	µg/kg	1.93	34000 U	640 U	640 U	87 U	94 U	180 U	710 U
Chloroform (Trichloromethane)	µg/kg	160	34000 U	640 U	640 U	87 U	94 U	180 U	710 U
cis-1,2-Dichloroethene	µg/kg	NV	34000 U	850	680	87 U	94 U	180 U	710 U
Methylene chloride	µg/kg	475	140000 U	2600 U	2600 U	33 J	380 U	710 U	2900 U
Tetrachloroethene	µg/kg	4.88	15000000	5700 J	21000 J	26 J	6000	13000	86000
trans-1,2-Dichloroethene	µg/kg	3247	250000	140 J	190 J	87 U	94 U	180 U	710 U
Trichloroethene	µg/kg	30.8	7200000	78000	76000	87 U	28 J	56 J	300 J
Vinyl chloride	µg/kg	0.73	34000 U	640 U	640 U	87 U	94 U	180 U	710 U
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUR-09</i>	<i>WMUR-09</i>	<i>WMUR-09</i>	<i>WMUR-09</i>	<i>WMUR-09</i>	<i>WMUR-09</i>	<i>WMUR-09</i>	
<i>Sample ID:</i>		<i>S-090512-KB-WMUR09-004</i>	<i>S-090512-KB-WMUR09-005</i>	<i>S-090512-KB-WMUR09-006</i>	<i>S-090512-KB-WMUR09-007</i>	<i>S-090612-KB-WMUR09-008</i>	<i>S-090612-KB-WMUR09-009</i>	<i>S-090612-KB-WMUR09-010</i>	
<i>Sample Date:</i>		<i>9/5/2012</i>	<i>9/5/2012</i>	<i>9/5/2012</i>	<i>9/5/2012</i>	<i>9/6/2012</i>	<i>9/6/2012</i>	<i>9/6/2012</i>	
<i>Sample Depth:</i>		<i>13 to 13 ft BGS</i>	<i>19.5 to 19.5 ft BGS</i>	<i>21.5 to 21.5 ft BGS</i>	<i>24.7 to 24.7 ft BGS</i>	<i>29.5 to 29.5 ft BGS</i>	<i>31 to 31 ft BGS</i>	<i>34 to 34 ft BGS</i>	
<i>elev_MLLW</i>		<i>5.2 to 5.2</i>	<i>-1.3 to -1.3</i>	<i>-3.3 to -3.3</i>	<i>-6.5 to -6.5</i>	<i>-11.3 to -11.3</i>	<i>-12.8 to -12.8</i>	<i>-15.8 to -15.8</i>	
<i>elev_NGVD</i>		<i>-1.1 to -1.1</i>	<i>-7.6 to -7.6</i>	<i>-9.6 to -9.6</i>	<i>-12.8 to -12.8</i>	<i>-17.6 to -17.6</i>	<i>-19.1 to -19.1</i>	<i>-22.1 to -22.1</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	400 U	11000	7900	3000 U	6300 U	330 U	290 U
1,1,2-Trichloroethane	µg/kg	15.2	400 U	7100 U	6400 U	3000 U	6300 U	330 U	290 U
1,1-Dichloroethene	µg/kg	1.13	400 U	7100 U	6400 U	3000 U	6300 U	90 J	290 U
Carbon tetrachloride	µg/kg	1.93	400 U	7100 U	6400 U	3000 U	6300 U	330 U	290 U
Chloroform (Trichloromethane)	µg/kg	160	400 U	1100 J	1000 J	3000 U	6300 U	330 U	92 J
cis-1,2-Dichloroethene	µg/kg	NV	400 U	1300 J	1300 J	3000 U	1900 J	14000	4700
Methylene chloride	µg/kg	475	1600 U	29000 U	26000 U	12000 U	26000 U	1300 U	1200 U
Tetrachloroethene	µg/kg	4.88	65000	960000	530000	180000	400000	50000	6900
trans-1,2-Dichloroethene	µg/kg	3247	400 U	7100 U	6400 U	3000 U	6300 U	150 J	290 U
Trichloroethene	µg/kg	30.8	200 J	450000	690000	13000	390000	75000	21000
Vinyl chloride	µg/kg	0.73	400 U	7100 U	6400 U	3000 U	6300 U	290 J	290 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUR-09	WMUR-09	WMUR-09	WMUR-09	WMUR-09	WMUR-09	WMUR-09	
Sample ID:		S-090612-KB-WMUR09-011	S-090612-KB-WMUR09-012	S-090612-KB-FD001	S-090612-KB-WMUR09-013	S-090612-KB-WMUR09-014	S-090612-KB-WMUR09-015	S-090612-KB-WMUR09-016	
Sample Date:		9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012	9/6/2012	
Sample Depth:		44.5 to 44.5 ft BGS	53.5 to 53.5 ft BGS	53.5 to 53.5 ft BGS	62 to 62 ft BGS	72 to 72 ft BGS	84 to 84 ft BGS	86 to 86 ft BGS	
elev_MLLW		-26.3 to -26.3	-35.3 to -35.3	-35.3 to -35.3	-43.8 to -43.8	-53.8 to -53.8	-65.8 to -65.8	-67.8 to -67.8	
elev_NGVD		-32.6 to -32.6	-41.6 to -41.6	-41.6 to -41.6	-50.1 to -50.1	-60.1 to -60.1	-72.1 to -72.1	-74.1 to -74.1	
Parameters	Units	Cs	(Duplicate)						
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	330 U	67 U	340 U	190 U	1300 U	1800 U	280 U
1,1,2-Trichloroethane	µg/kg	15.2	330 U	67 U	340 U	190 U	1300 U	1800 U	280 U
1,1-Dichloroethene	µg/kg	1.13	130 J	41 J	150 J	110 J	1300 U	1800 U	280 U
Carbon tetrachloride	µg/kg	1.93	330 U	67 U	340 U	190 U	1300 U	1800 U	280 U
Chloroform (Trichloromethane)	µg/kg	160	190 J	250 J	540 J	1300	1300 U	1800 U	280 U
cis-1,2-Dichloroethene	µg/kg	NV	31000	5100 J	13000 J	4900	5800	3000	1200
Methylene chloride	µg/kg	475	1300 U	270 U	1400 U	750 U	5200 U	7200 U	1200 U
Tetrachloroethene	µg/kg	4.88	330 U	180 J	700 J	2200	110000	230000	13000
trans-1,2-Dichloroethene	µg/kg	3247	160 J	31 J	99 J	380	1300 U	1800 U	280 U
Trichloroethene	µg/kg	30.8	13000	7700 J	17000 J	5800	88000	200000	9600
Vinyl chloride	µg/kg	0.73	1700	680 J	4000 J	19000	720 J	1800 U	110 J
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUR-09</i>	<i>WMUR-09</i>	<i>WMUR-09</i>	<i>WMUR-09</i>	<i>WMUR-09</i>	<i>WMUR-09</i>	<i>WMUR-09</i>	
<i>Sample ID:</i>		<i>S-090612-KB-WMUR09-017</i>	<i>S-090612-KB-WMUR09-018</i>	<i>S-090612-KB-WMUR09-019</i>	<i>S-090612-KB-WMUR09-020</i>	<i>S-090612-KB-WMUR09-021</i>	<i>S-090712-KB-WMUR09-022</i>	<i>S-090712-KB-WMUR09-023</i>	
<i>Sample Date:</i>		<i>9/6/2012</i>	<i>9/6/2012</i>	<i>9/6/2012</i>	<i>9/6/2012</i>	<i>9/6/2012</i>	<i>9/7/2012</i>	<i>9/7/2012</i>	
<i>Sample Depth:</i>		<i>87.5 to 87.5 ft BGS</i>	<i>88.5 to 88.5 ft BGS</i>	<i>91.5 to 91.5 ft BGS</i>	<i>94 to 94 ft BGS</i>	<i>96.5 to 96.5 ft BGS</i>	<i>106.5 to 106.5 ft BGS</i>	<i>115.5 to 115.5 ft BGS</i>	
<i>elev_MLLW</i>		<i>-69.3 to -69.3</i>	<i>-70.3 to -70.3</i>	<i>-73.3 to -73.3</i>	<i>-75.8 to -75.8</i>	<i>-78.3 to -78.3</i>	<i>-88.3 to -88.3</i>	<i>-97.3 to -97.3</i>	
<i>elev_NGVD</i>		<i>-75.6 to -75.6</i>	<i>-76.6 to -76.6</i>	<i>-79.6 to -79.6</i>	<i>-82.1 to -82.1</i>	<i>-84.6 to -84.6</i>	<i>-94.6 to -94.6</i>	<i>-103.6 to -103.6</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	19000 U	7300 U	23000 U	72000 U	6600 U	400 U	5.3 U
1,1,2-Trichloroethane	µg/kg	15.2	19000 U	7300 U	23000 U	72000 U	6600 U	400 U	5.3 U
1,1-Dichloroethene	µg/kg	1.13	19000 U	7300 U	23000 U	72000 U	6600 U	200 J	5.3 U
Carbon tetrachloride	µg/kg	1.93	19000 U	7300 U	23000 U	72000 U	6600 U	400 U	5.3 U
Chloroform (Trichloromethane)	µg/kg	160	19000 U	2000 J	43000	1100000	41000	400 U	5.3 U
cis-1,2-Dichloroethene	µg/kg	NV	4700 J	3200 J	9100 J	39000 J	2600 J	17000	5.3 U
Methylene chloride	µg/kg	475	73000 U	30000 U	92000 U	290000 U	27000 U	12000	11 U
Tetrachloroethene	µg/kg	4.88	810000	140000	540000	7700000	200000	8000	5.3 U
trans-1,2-Dichloroethene	µg/kg	3247	19000 U	7300 U	23000 U	72000 U	6600 U	320 J	5.3 U
Trichloroethene	µg/kg	30.8	600000	360000	1100000	12000000	300000	27000	5.3 U
Vinyl chloride	µg/kg	0.73	19000 U	7300 U	23000 U	72000 U	6600 U	400 U	5.3 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUR-09	WMUR-10	WMUR-10	WMUR-10	WMUR-10	WMUR-10	WMUR-10	WMUR-10
Sample ID:		S-090712-KB-WMUR09-024	S-091012-KB-WMUR10-001	S-091012-KB-WMUR10-002	S-091012-KB-WMUR10-003	S-091012-KB-WMUR10-004	S-091012-KB-WMUR10-005	S-091012-KB-WMUR10-006	
Sample Date:		9/7/2012	9/10/2012	9/10/2012	9/10/2012	9/10/2012	9/10/2012	9/10/2012	9/10/2012
Sample Depth:		124.5 to 124.5 ft BGS	9 to 9 ft BGS	17.6 to 17.6 ft BGS	29.5 to 29.5 ft BGS	38.5 to 38.5 ft BGS	49 to 49 ft BGS	58 to 58 ft BGS	
elev_MLLW		-106.3 to -106.3	7.71 to 7.71	-0.89 to -0.89	-12.79 to -12.79	-21.79 to -21.79	-32.29 to -32.29	-41.29 to -41.29	
elev_NGVD		-112.6 to -112.6	1.4 to 1.4	-7.2 to -7.2	-19.1 to -19.1	-28.1 to -28.1	-38.6 to -38.6	-47.6 to -47.6	
Parameters	Units	Cs							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.6 U	1.9 J	5.2 U	4.9 U	5.1 U	5.5 U	5.0 U
1,1,2-Trichloroethane	µg/kg	15.2	5.6 U	5.6 U	5.2 U	4.9 U	5.1 U	5.5 U	5.0 U
1,1-Dichloroethene	µg/kg	1.13	5.6 U	5.6 U	1.3 J	4.9 U	5.1 U	5.5 U	5.0 U
Carbon tetrachloride	µg/kg	1.93	5.6 U	5.6 U	5.2 U	4.9 U	5.1 U	5.5 U	5.0 U
Chloroform (Trichloromethane)	µg/kg	160	5.6 U	5.6 U	5.2 U	4.9 U	5.1 U	5.5 U	5.0 U
cis-1,2-Dichloroethene	µg/kg	NV	5.6 U	1.1 J	74	0.32 J	0.56 J	0.90 J	1.9 J
Methylene chloride	µg/kg	475	12 U	12 U	11 U	9.8 U	11 U	11 U	10 U
Tetrachloroethene	µg/kg	4.88	5.6 U	110	0.71 J	0.41 J	0.53 J	1.2 J	0.38 J
trans-1,2-Dichloroethene	µg/kg	3247	5.6 U	5.6 U	30	4.9 U	5.1 U	5.5 U	5.0 U
Trichloroethene	µg/kg	30.8	5.6 U	12	2.7 J	0.25 J	0.71 J	2.1 J	1.0 J
Vinyl chloride	µg/kg	0.73	5.6 U	5.6 U	1.8 J	0.26 J	0.52 J	0.58 J	0.42 J
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUR-10</i>	<i>WMUR-10</i>	<i>WMUR-10</i>	<i>WMUR-10</i>	<i>WMUR-10</i>	<i>WMUR-10</i>	<i>WMUR-10</i>	
<i>Sample ID:</i>		<i>S-091012-KB-WMUR10-007</i>	<i>S-091012-KB-WMUR10-008</i>	<i>S-091112-KB-WMUR10-009</i>	<i>S-091112-KB-FD001</i>	<i>S-091112-KB-WMUR10-010</i>	<i>S-091112-KB-WMUR10-011</i>	<i>S-091112-KB-WMUR10-012</i>	
<i>Sample Date:</i>		<i>9/10/2012</i>	<i>9/10/2012</i>	<i>9/11/2012</i>	<i>9/11/2012</i>	<i>9/11/2012</i>	<i>9/11/2012</i>	<i>9/11/2012</i>	
<i>Sample Depth:</i>		<i>68.5 to 68.5 ft BGS</i>	<i>79 to 79 ft BGS</i>	<i>89 to 89 ft BGS</i>	<i>89 to 89 ft BGS</i>	<i>99.5 to 99.5 ft BGS</i>	<i>103 to 103 ft BGS</i>	<i>104.5 to 104.5 ft BGS</i>	
<i>elev_MLLW</i>		<i>-51.79 to -51.79</i>	<i>-62.29 to -62.29</i>	<i>-72.29 to -72.29</i>	<i>-72.29 to -72.29</i>	<i>-82.79 to -82.79</i>	<i>-86.29 to -86.29</i>	<i>-87.79 to -87.79</i>	
<i>elev_NGVD</i>		<i>-58.1 to -58.1</i>	<i>-68.6 to -68.6</i>	<i>-78.6 to -78.6</i>	<i>-78.6 to -78.6</i> (Duplicate)	<i>-89.1 to -89.1</i>	<i>-92.6 to -92.6</i>	<i>-94.1 to -94.1</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	5.1 U	5.2 U	720 U	700 U	730 U	780 U	180 U
1,1,2-Trichloroethane	µg/kg	15.2	5.1 U	15	720 U	700 U	730 U	780 U	180 U
1,1-Dichloroethene	µg/kg	1.13	5.1 U	20	720 U	700 U	730 U	780 U	120 J
Carbon tetrachloride	µg/kg	1.93	5.1 U	5.2 U	720 U	700 U	730 U	780 U	180 U
Chloroform (Trichloromethane)	µg/kg	160	5.1 U	1600	430 J	1500	730 U	780 U	180 U
cis-1,2-Dichloroethene	µg/kg	NV	1.9 J	20000	28000	23000	11000	35000	14000
Methylene chloride	µg/kg	475	11 U	20	210 J	2800 U	330 J	280 J	700 U
Tetrachloroethene	µg/kg	4.88	2.3 J	11	720 U	1000	730 U	780 U	180 U
trans-1,2-Dichloroethene	µg/kg	3247	5.1 U	160	700 J	480 J	460 J	470 J	270
Trichloroethene	µg/kg	30.8	3.1 J	6300	890 J	2500 J	350 J	560 J	240
Vinyl chloride	µg/kg	0.73	0.45 J	2600	5700 J	3200 J	23000	2300	13000
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUR-10</i>	<i>WMUR-10</i>	<i>WMUR-10</i>	<i>WMUR-10</i>	<i>WMUR-10</i>	<i>WMUR-10</i>	<i>WMUR-10</i>	
<i>Sample ID:</i>		<i>S-091112-KB-WMUR10-013</i>	<i>S-091112-KB-WMUR10-014</i>	<i>S-091112-KB-WMUR10-015</i>	<i>S-091112-KB-WMUR10-016</i>	<i>S-091112-KB-WMUR10-017</i>	<i>S-091112-KB-WMUR10-018</i>	<i>S-091112-KB-WMUR10-019</i>	
<i>Sample Date:</i>		<i>9/11/2012</i>	<i>9/11/2012</i>	<i>9/11/2012</i>	<i>9/11/2012</i>	<i>9/11/2012</i>	<i>9/11/2012</i>	<i>9/11/2012</i>	
<i>Sample Depth:</i>		<i>107.9 to 107.9 ft BGS</i>	<i>118 to 118 ft BGS</i>	<i>118.7 to 118.7 ft BGS</i>	<i>121.5 to 121.5 ft BGS</i>	<i>125 to 125 ft BGS</i>	<i>127 to 127 ft BGS</i>	<i>133.5 to 133.5 ft BGS</i>	
<i>elev_MLLW</i>		<i>-91.19 to -91.19</i>	<i>-101.29 to -101.29</i>	<i>-101.99 to -101.99</i>	<i>-104.79 to -104.79</i>	<i>-108.29 to -108.29</i>	<i>-110.29 to -110.29</i>	<i>-116.79 to -116.79</i>	
<i>elev_NGVD</i>		<i>-97.5 to -97.5</i>	<i>-107.6 to -107.6</i>	<i>-108.3 to -108.3</i>	<i>-111.1 to -111.1</i>	<i>-114.6 to -114.6</i>	<i>-116.6 to -116.6</i>	<i>-123.1 to -123.1</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	4.02	330 U	670 U	1900 U	7400 U	6900 U	3400 U	3300 U
1,1,2-Trichloroethane	µg/kg	15.2	330 U	670 U	1900 U	7400 U	5300 J	3400 U	3300 U
1,1-Dichloroethene	µg/kg	1.13	170 J	320 J	1900 U	1600 J	1400 J	3400 U	3300 U
Carbon tetrachloride	µg/kg	1.93	330 U	670 U	1900 U	7400 U	6900 U	3400 U	3300 U
Chloroform (Trichloromethane)	µg/kg	160	100 J	670 U	1900 U	7400 U	6900 U	3400 U	3300 U
cis-1,2-Dichloroethene	µg/kg	NV	30000	38000	25000	6200 J	4100 J	3300 J	1700 J
Methylene chloride	µg/kg	475	96 J	200 J	630 J	2800 J	2700 J	1400 J	1300 J
Tetrachloroethene	µg/kg	4.88	330 U	560 J	91000	31000	170000	370000	88000
trans-1,2-Dichloroethene	µg/kg	3247	380	360 J	1900 U	7400 U	6900 U	3400 U	3300 U
Trichloroethene	µg/kg	30.8	3500	330 J	3100	210000	280000	300000	130000
Vinyl chloride	µg/kg	0.73	8500	6600	1400 J	7400 U	6900 U	740 J	3300 U
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/kg	146	-	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	0.053	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-	-

SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		WMUR-10	WMUR-10	WMUR-10	WMUR-10	WMUR-10	WW-A1R	WW-A1R
Sample ID:		S-091112-KB-WMUR10-020	S-091212-KB-WMUR10-021	S-091212-KB-WMUR10-022	S-091212-KB-WMUR10-023	S-091212-KB-WMUR10-024	S-082112-MD-WW-AIR-002	S-082112-MD-WW-AIR-003
Sample Date:		9/11/2012	9/12/2012	9/12/2012	9/12/2012	9/12/2012	8/21/2012	8/21/2012
Sample Depth:		136.5 to 136.5 ft BGS	144 to 144 ft BGS	146.3 to 146.3 ft BGS	148 to 148 ft BGS	154.5 to 154.5 ft BGS	4 to 6 ft BGS	8 to 8 ft BGS
elev_MLLW		-119.79 to -119.79	-127.29 to -127.29	-129.59 to -129.59	-131.29 to -131.29	-137.79 to -137.79	-38.18 to -40.18	-42.18 to -42.18
elev_NGVD		-126.1 to -126.1	-133.6 to -133.6	-135.9 to -135.9	-137.6 to -137.6	-144.1 to -144.1	-44.5 to -46.5	-48.5 to -48.5
Parameters	Units	Cs						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/kg	4.02	680000 U	640 U	15000 U	2000 U	350 U	-
1,1,2-Trichloroethane	µg/kg	15.2	680000 U	640 U	15000 U	2000 U	350 U	-
1,1-Dichloroethene	µg/kg	1.13	180000 J	140 J	15000 U	2000 U	63 J	-
Carbon tetrachloride	µg/kg	1.93	680000 U	640 U	15000 U	2000 U	350 U	-
Chloroform (Trichloromethane)	µg/kg	160	680000 U	640 U	15000 U	2000 U	350 U	-
cis-1,2-Dichloroethene	µg/kg	NV	530000 J	6800	180000	170000	34000	-
Methylene chloride	µg/kg	475	2700000 U	220 J	6900 J	620 J	140 J	-
Tetrachloroethene	µg/kg	4.88	6100000	4000	1800000	1200 J	220 J	-
trans-1,2-Dichloroethene	µg/kg	3247	680000 U	170 J	15000 U	580 J	140 J	-
Trichloroethene	µg/kg	30.8	4900000	74000	300000	700 J	170 J	-
Vinyl chloride	µg/kg	0.73	680000 U	640 U	15000 U	2000 U	350 U	-
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-	-
Metals~Total								
Arsenic	µg/kg	146	-	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-	-
PCBs								
Total PCBs	µg/kg	0.053	-	-	-	-	11	6.0 U
Pesticides								
4,4'-DDD	µg/kg	0.043	-	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-	-

TABLE 4.15

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WW-A1R</i>	<i>WW-A1R</i>	<i>WW-B4</i>	<i>WW-B4</i>	<i>WW-B4</i>	
<i>Sample ID:</i>		<i>S-082212-MD-WW-AIR-006</i>	<i>S-082212-MD-WW-AIR-007</i>	<i>SE-050206-WW-B4-DR-002</i>	<i>SE-050206-WW-B4-DR-003</i>	<i>SE-050206-WW-B4-DR-004</i>	
<i>Sample Date:</i>		<i>8/22/2012</i>	<i>8/22/2012</i>	<i>5/2/2006</i>	<i>5/2/2006</i>	<i>5/2/2006</i>	
<i>Sample Depth:</i>		<i>42 to 42 ft BGS</i>	<i>49.5 to 49.5 ft BGS</i>	<i>80 to 82 ft bml</i>	<i>85 to 87 ft bml</i>	<i>90 to 92 ft bml</i>	
<i>elev_MLLW</i>		<i>-76.18 to -76.18</i>	<i>-83.68 to -83.68</i>	<i>-75.8 to -77.8</i>	<i>-80.8 to -82.8</i>	<i>-85.8 to -87.8</i>	
<i>elev_NGVD</i>		<i>-82.5 to -82.5</i>	<i>-90 to -90</i>	<i>-82.1 to -84.1</i>	<i>-87.1 to -89.1</i>	<i>-92.1 to -94.1</i>	
<i>Parameters</i>	<i>Units</i>	<i>Cs</i>					
<i>Volatile Organic Compounds</i>							
1,1,2,2-Tetrachloroethane	µg/kg	4.02	1600 U	330 U	6.0 U	6.2 U	6.4 U
1,1,2-Trichloroethane	µg/kg	15.2	1600 U	330 U	5.5 U	5.7 U	5.9 U
1,1-Dichloroethene	µg/kg	1.13	700 J	98 J	5.1 U	5.3 U	5.4 U
Carbon tetrachloride	µg/kg	1.93	1600 U	330 U	3.0 U	3.1 U	3.2 U
Chloroform (Trichloromethane)	µg/kg	160	760 J	120 J	2.6 U	2.7 U	2.8 U
cis-1,2-Dichloroethene	µg/kg	NV	160000	26000	4.0 U	4.1 U	4.2 U
Methylene chloride	µg/kg	475	940 J	230 J	2.8 U	2.9 U	3.0 U
Tetrachloroethene	µg/kg	4.88	1600 U	330 U	4.3 U	4.4 U	4.6 U
trans-1,2-Dichloroethene	µg/kg	3247	5600	560	3.3 U	3.4 U	3.5 U
Trichloroethene	µg/kg	30.8	83000	11000	4.0 U	4.1 U	4.2 U
Vinyl chloride	µg/kg	0.73	5900	2100	4.8 U	5.0 U	5.1 U
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/kg	0.062	-	-	-	-	-
Hexachlorobutadiene	µg/kg	0.702	-	-	-	-	-
Pentachlorophenol	µg/kg	6.94	-	-	-	-	-
<i>Metals~Total</i>							
Arsenic	µg/kg	146	-	-	-	-	-
Chromium	µg/kg	714	-	-	-	-	-
Copper	µg/kg	53.5	-	-	-	-	-
Lead	µg/kg	81002	-	-	-	-	-
Mercury	µg/kg	1.31	-	-	-	-	-
Nickel	µg/kg	535	-	-	-	-	-
Thallium	µg/kg	34	-	-	-	-	-
Zinc	µg/kg	5045	-	-	-	-	-
<i>PCBs</i>							
Total PCBs	µg/kg	0.053	-	-	-	-	-
<i>Pesticides</i>							
4,4'-DDD	µg/kg	0.043	-	-	-	-	-
4,4'-DDE	µg/kg	0.058	-	-	-	-	-
4,4'-DDT	µg/kg	0.455	-	-	-	-	-

**SATURATED SOIL ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Notes:

- ⁽¹⁾ Site COCs per Tables 3.1 and 3.2 of the Statement of Work (January 2005). Additional non-COC analytical results are presented in the eDAT located in Appendix F.
- ⁽²⁾ Soil Criteria Protective of Groundwater per Table 4.8.
- BGS Below ground surface.
- MLLW Mean lower low water.
- NGVD National geodetic vertical datum.
- Cu Unsaturated Soil Concentration Protective of Groundwater.
- Cs Saturated Soil Concentration Protective of Groundwater.
- COCs Constituents of concern.
- µg/kg Micrograms per kilogram.
- NV No cleanup level has been established for this parameter.
- * Cleanup Level established at a concentration equal to the practical quantitation limit for that chemical in accordance the WAC 173-340-700 (6)(d). Value may decrease with improvements in analytical methods.
- 500** Concentration exceeds the Soil Criteria.
- Not analyzed.
- U Not detected at associated concentration.
- J Estimated concentration.
- D3 Diluted three times.

TABLE 4.16
NATURE AND EXTENT OF CONTAMINATION IN SATURATED SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

	Soil Screening Criteria, C _s ⁽¹⁾	Estimated Areal Extent	Maximum Vertical Extent ⁽²⁾		Maximum Concentration			Summary of Exceedance Factors ⁽³⁾					Total Number of Samples Analyzed	
			Elevation (feet NGVD)	Location	Conc. (µg/kg)	EF	Location	>1 to 10	>10 to 100	>100 to 1000	> 1000 to 10,000	>10,000		Total
Volatiles														
1,1,2,2-Tetrachloroethane	4.02	2.9	-108.4	5106-5	670,000	166,667	WMUG-10	15	13	15	8	3	54	2,042
1,1,2-Trichloroethane	15.2	7.7	-128.3	Pier 25-2	67,000	4,408	SB-B-Deep	40	7	3	2	0	52	2,042
1,1-Dichloroethene	1.13	19.2	-153.1	HYD-2	690,000	610,620	WMUR-06/94C	157	207	130	22	4	520	2,063
Carbon tetrachloride	1.93	0.9	-30.2	NL-14	510,000	264,249	WMUG-10	9	9	5	4	1	28	2,050
Chloroform	160	5.3	-128.3	Pier 25-2	1,100,000	6,875	WMUR-09	95	39	6	1	0	141	2,050
Methylene chloride	475	0.3	-137.6	WMUR-10	61,000	128	WMUR-06/94C	98	26	3	0	0	127	2,071
Tetrachloroethene	4.88	21.3	-157.6	HYD-1	120,000,000	24,590,164	WMUR-06/94C	232	184	163	154	163	896	2,223
cis-1,2-Dichloroethene	NV	--	--	--	150,000	--	WMUR-06/94C	--	--	--	--	--	--	1,998
trans-1,2-Dichloroethene	3247	0.5	-136.4	EXT-9-Deep	250,000	77	WMUR-08	11	2	0	0	0	13	1,998
Trichloroethene	30.8	15.4	-170.1	Pier 25-13	58,000,000	1,883,117	WMUG-10	205	145	186	191	13	740	2,219
Vinyl chloride	0.73	20.4	-153.1	HYD-2	56,500	77,397	5106-3	109	152	204	249	85	799	2,043
Summary of VOCs			-170.1	Pier 25-13		33,802,817	WMUR-06/94C	971	784	715	631	269	3,370	22,799
Semi-Volatiles														
Hexachlorobenzene	0.062	6.5	-115.8	EA-1	210,000	3,387,097	PT-15	13	30	34	48	15	140	695
Hexachlorobutadiene	0.702	0.9	-85.8	PT-15A	160,000	227,920	PT-17	36	39	57	42	9	183	676
Pentachlorophenol	6.94	0.9	-30.3	NL-16	1,100	159	NL-16	5	12	2	0	0	19	519
Summary of SVOCs			-115.8	EA-1		2,957,746	PT-15	54	81	93	90	24	342	1,890
Pesticides														
4,4'-DDD	0.043	1.0	-30.3	NL-16	210	4,884	BH-11-96	0	1	2	3	0	6	70
4,4'-DDE	0.058	0.7	-30.3	NL-16	75	1,298	NL-13	0	1	11	1	0	13	70
4,4'-DDT	0.455	--	4.4	BH-12-96	11	24	BH-12-96	0	1	0	0	0	1	70
Summary of Pesticides			-30.3	NL-16		4,884	BH-11-96	0	3	13	4	0	20	210
PCBs														
Total PCBs	0.053	0.012	-105.82	EA-1	166,545	3,142,359	PT-15A	3	5	10	35	31	84	401
Dioxins/ Furans														
Dioxin-Furan (TEC of 2,3,7,8 tcdd)	0.0001189	--	-110.82	PT-15A	2.371	6,586	NL-28	--	--	--	--	--	--	49
Metals														
Arsenic	146	15.7	-139.3	EA-2	268,000	1,836	NL-8	204	137	29	2	0	372	396
Chromium, total	714	15.7	-149.3	EA-3	1,200,000	1,681	BH-15-96	92	290	12	1	0	395	396
Copper	53.5	15.7	-149.3	EA-3	2,160,000	40,374	NL-11	0	6	343	40	6	395	396
Lead	81,002	4.0	-33.1	NL-23	37,500,000	463	NL-13	34	27	7	0	0	68	432
Mercury	1.31	6.5	-134.3	EA-2	116,000	88,550	OXY-1	92	48	36	3	2	181	438
Nickel	535	15.7	-149.3	EA-3	962,000	1,798	NL-9	16	342	33	4	0	395	396
Thallium	34	5.5	-135.8	EA-1	226	6.6	EA-2	129	0	0	0	0	129	371
Zinc	5,045	15.7	-149.3	EA-3	3,400,000	674	EA-2	326	50	8	0	0	384	396
Summary of Metals			-149.3	EA-3		88,550	OXY-1	893	900	468	50	8	2,319	3,221

Notes:

(1) C_s per Table 4.6.(2) Greatest depth of concentrations exceeding the C_s for the parameter.(3) Exceedance factor calculated as the concentration divided by the C_s for the parameter.

µg/kg Microgram per Kilogram.

sf Square Feet.

NGVD National Geodetic Vertical Datum.

NV No established C_s.

NA Not Applicable.

PCB Polychlorinated Biphenyl.

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	1-25	1-45	1-100R	2-25	2-50	2-100	3-25
<i>Sample ID:</i>	GW-050106-TS-1-25	GW-041306-TS-1-45	GW-041806-TS-1-100R	GW-041706-TS-2-25	GW-042406-LH-2-50	GW-042406-LH-2-100	WG-082812-JN-3-25-001
<i>Sample Date:</i>	5/1/2006	4/13/2006	4/18/2006	4/17/2006	4/24/2006	4/24/2006	8/28/2012
<i>Sample Depth:</i>	25 ft bgs	45 ft bgs	100 ft bgs	25 ft bgs	50 ft bgs	100 ft bgs	25 ft BGS
<i>elev_MLLW</i>	-7.49	-27.47	-82.08	-7.29	-32.32	-82.35	-6.05
<i>elev_NGVD</i>	-13.8	-33.8	-88.4	-13.6	-38.6	-88.7	-12.4

Parameters **Units CSI WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	7.2	8.1 U	81 U	0.081 U	0.081 U	0.081 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.10 J	8.2 U	82 U	0.082 U	0.082 U	0.082 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.20 J	8.6 U	86 U	0.086 U	0.086 U	0.086 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.082 U	8.2 U	82 U	0.082 U	0.082 U	0.082 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	8.5	7.0 U	70 U	0.070 U	0.070 U	0.24 J	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	24	15 J	760 J	1.0	0.95 J	0.062 U	0.96
Methylene chloride	µg/L	1600	0.31 U	31 U	310 U	0.31 U	0.31 U	0.31 U	2.0 U
Tetrachloroethene	µg/L	8.85	13	21 J	8600	0.066 U	0.066 U	0.20 J	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	2.2	21 J	170 J	0.091 U	0.091 U	0.091 U	0.11 J
Trichloroethene	µg/L	81	13 J	28 J	32000	0.50 J	0.10 J	0.14 J	0.10 J
Vinyl chloride	µg/L	2.4	23	4500	940 J	0.14 U	0.14 U	0.14 U	0.48 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>4-25R</i>	<i>4-45R</i>	<i>4-83R</i>	<i>4-115R</i>	<i>4-175R</i>	<i>5-25</i>	<i>5-50</i>
<i>Sample ID:</i>	<i>GW-041906-TS-4-25R</i>	<i>4-45R-0204</i>	<i>GW-040406-TR-4-83R</i>	<i>GW-041906-TS-4-115R</i>	<i>GW-040406-TR-4-175R</i>	<i>WG-080812-LP-5-25-004</i>	<i>WG-080812-LP-5-50-005</i>
<i>Sample Date:</i>	<i>4/19/2006</i>	<i>2/9/2004</i>	<i>4/4/2006</i>	<i>4/19/2006</i>	<i>4/4/2006</i>	<i>8/8/2012</i>	<i>8/8/2012</i>
<i>Sample Depth:</i>	<i>25 ft bgs</i>	<i>45 ft bgs</i>	<i>83 ft bgs</i>	<i>115 ft bgs</i>	<i>175 ft bgs</i>	<i>25 ft BGS</i>	<i>50 ft BGS</i>
<i>elev_MLLW</i>	<i>-6.53</i>	<i>-26.61</i>	<i>-64.63</i>	<i>-96.63</i>	<i>-156.53</i>	<i>-7.03</i>	<i>-32.02</i>
<i>elev_NGVD</i>	<i>-12.8</i>	<i>-32.9</i>	<i>-71</i>	<i>-103</i>	<i>-162.8</i>	<i>-13.4</i>	<i>-38.3</i>

Parameters *Units CSI WG*

VOAs

1,1,2-Tetrachloroethane	µg/L	11	16 U	250 U	410 U	0.41 U	0.081 U	0.50 U	2.5 U
1,1,2-Trichloroethane	µg/L	42	16 U	250 U	410 U	0.41 U	0.082 U	0.50 U	2.5 U
1,1-Dichloroethene	µg/L	3.2	69 J	250 U	430 U	0.47 J	0.087 J	0.11 J	2.5 U
Carbon tetrachloride	µg/L	4.4	16 U	250 U	410 U	0.41 U	0.082 U	0.50 U	2.5 U
Chloroform (Trichloromethane)	µg/L	470	90 J	250 U	350 U	0.35 U	0.070 U	0.50 U	2.5 U
cis-1,2-Dichloroethene	µg/L	16.00	3700	3800	15000	63	6.0	0.55	20
Methylene chloride	µg/L	1600	62 U	250 J	1500 U	1.5 U	0.31 U	2.0 U	10 U
Tetrachloroethene	µg/L	8.85	8400	12000	20000	6.9	0.39 J	1.3	2.5 U
trans-1,2-Dichloroethene	µg/L	10000	49 J	250 U	460 U	0.46 U	0.55 J	0.50 U	2.5 U
Trichloroethene	µg/L	81	8600	27000	140000	24	5.0	0.69	2.5 U
Vinyl chloride	µg/L	2.4	5800	1700	2200 J	4.6 J	1.3	0.50 U	45

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	5-75		5-75		5-100		6A-24.5		6A-50		6A-100	
<i>Sample ID:</i>	WG-082412-JN-5-75-006		WG-082412-JN-FD07-304		WG-080812-AMK-5-100-007		6A-24.5-0304		WG-080812-JN-6A-50-009		WG-080812-JN-6A-100-010	
<i>Sample Date:</i>	8/24/2012		8/24/2012		8/8/2012		3/23/2004		8/8/2012		8/8/2012	
<i>Sample Depth:</i>	75 ft BGS		75 ft BGS		100 ft BGS		24.5 ft bgs		50 ft BGS		100 ft BGS	
<i>elev_MLLW</i>	-56.97		-56.97		-81.99		-6.19		-31.46		-81.57	
<i>elev_NGVD</i>	-63.3		-63.3		-88.3		-12.5		-37.8		-87.9	
<i>Parameters</i>	<i>Units</i>		<i>CSI</i>		<i>WG</i>							
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	0.50 U	0.50 U	5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	0.50 U	0.50 U	5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	0.50 U	0.50 U	5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	0.50 U	0.50 U	5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	2.4	2.4	0.50 U	0.50 U	5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	0.070 J	0.50 U	0.50 U	0.50 U	5 U	0.48 J	0.50 U	0.48 J	0.50 U	0.50 U
Methylene chloride	µg/L	1600	0.22 J	0.18 J	2.0 U	2.0 U	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	0.50 U	0.50 U	0.50 U	0.50 U	21	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	0.50 U	0.50 U	0.50 U	4.1 J	0.36 J	0.36 J	0.36 J	0.50 U	0.50 U
Trichloroethene	µg/L	81	0.50 U	0.50 U	0.50 U	0.50 U	9.2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	0.50 U	0.50 U	0.50 U	0.50 U	9.1	0.52	0.52	0.52	0.50 U	0.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	7-25	7-100	7-181	8-23	8-54	8-99R
Sample ID:	WG-080812-AMK-7-25-011	WG-080812-AMK-7-100-012	WG-080812-LP-7-181-013	WG-081112-JN-8-23-014	GW-021208-TG-8-54	GW-050106-TS-8-99R
Sample Date:	8/8/2012	8/8/2012	8/8/2012	8/11/2012	12/2/2008	5/1/2006
Sample Depth:	25 ft BGS	100 ft BGS	181 ft BGS	23 ft BGS	54 ft bgs	99 ft bgs
elev_MLLW	-5.73	-80.85	-161.7	-4.87	-35.71	-80.82
elev_NGVD	-12	-87.2	-168	-11.2	-42	-87.1

Parameters **Units CSI WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	1300 U	0.50 U	0.50 U	0.50 U	2.0 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	1300 U	0.50 U	0.50 U	0.50 U	2.0 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	200 J	0.50 U	0.50 U	0.50 U	2.0 U	0.086 U
Carbon tetrachloride	µg/L	4.4	1300 U	0.50 U	0.50 U	0.50 U	1.2 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	1300 U	0.50 U	0.50 U	0.50 U	2.0 U	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	130000	0.30 J	0.50 U	0.32 J	2.0 U	0.062 U
Methylene chloride	µg/L	1600	5000 U	2.0 U	2.0 U	2.0 U	2.0 U	0.31 U
Tetrachloroethene	µg/L	8.85	1300 U	0.50 U	0.50 U	0.50 U	2.0 U	0.066 U
trans-1,2-Dichloroethene	µg/L	10000	1000 J	0.50 U	0.50 U	0.50 U	5.8	0.091 U
Trichloroethene	µg/L	81	600 J	0.50 U	0.50 U	0.11 J	2.0 U	0.073 J
Vinyl chloride	µg/L	2.4	16000	0.50 U	0.50 U	0.50 U	2.0 U	0.14 U

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	9-25	9-50	9-100	10-24	10-50	10-100	
Sample ID:	WG-080812-AMK-9-25-015	WG-080712-AMK-9-50-016	WG-080712-AMK-9-100-017	WG-082112-AMK-10-24-503	WG-082012-TS-10-50-601	WG-082012-TS-10-100-602	
Sample Date:	8/8/2012	8/7/2012	8/7/2012	8/21/2012	8/20/2012	8/20/2012	
Sample Depth:	25 ft BGS	50 ft BGS	100 ft BGS	24 ft BGS	50 ft BGS	100 ft BGS	
elev_MLLW	-6.73	-31.53	-81.57	-7.78	-33.58	-83.38	
elev_NGVD	-13	-37.8	-87.9	-14.1	-39.9	-89.7	
Parameters	Units CSI WG						
VOAs							
1,1,2,2-Tetrachloroethane	µg/L 11	0.50 U	0.50 U	0.50 U	2500 U	10 U	2500 U
1,1,2-Trichloroethane	µg/L 42	0.50 U	0.50 U	0.50 U	2500 U	10 U	2500 U
1,1-Dichloroethene	µg/L 3.2	0.50 U	0.50 U	0.50 U	2500 U	10 U	2500 U
Carbon tetrachloride	µg/L 4.4	0.50 U	0.50 U	0.50 U	2500 U	10 U	2500 U
Chloroform (Trichloromethane)	µg/L 470	0.50 U	0.50 U	0.50 U	2500 U	10 U	2500 U
cis-1,2-Dichloroethene	µg/L 16.00	0.35 J	0.50 U	0.30 J	2500 U	14	1600 J
Methylene chloride	µg/L 1600	2.0 U	2.0 U	2.0 U	2100 J	4.0 J	1100 J
Tetrachloroethene	µg/L 8.85	0.50 U	0.50 U	0.50 U	170000	10 U	2500 U
trans-1,2-Dichloroethene	µg/L 10000	0.50 U	0.50 U	0.15 J	2500 U	2.2 J	3900
Trichloroethene	µg/L 81	0.50 U	0.50 U	0.20 J	5600	10 U	2500 U
Vinyl chloride	µg/L 2.4	1.2	1.2	0.27 J	2500 U	280	51000

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		11-25	11-45	11-45	11-75	11-100	11-183	
<i>Sample ID:</i>		<i>WG-080612-JN-11-25-018</i>	<i>WG-080712-ALK-11-45-019</i>	<i>WG-080712-ALK-FD01-298</i>	<i>WG-080712-JN-11-75-020</i>	<i>WG-080712-ALK-11-100-021</i>	<i>WG-080712-JN-11-183-022</i>	
<i>Sample Date:</i>		<i>8/6/2012</i>	<i>8/7/2012</i>	<i>8/7/2012</i>	<i>8/7/2012</i>	<i>8/7/2012</i>	<i>8/7/2012</i>	
<i>Sample Depth:</i>		<i>25 ft BGS</i>	<i>45 ft BGS</i>	<i>45 ft BGS</i>	<i>75 ft BGS</i>	<i>100 ft BGS</i>	<i>183 ft BGS</i>	
<i>elev_MLLW</i>		<i>-6.36</i>	<i>-26.44</i>	<i>-26.44</i>	<i>-56.43</i>	<i>-81.36</i>	<i>-164.33</i>	
<i>elev_NGVD</i>		<i>-12.7</i>	<i>-32.8</i>	<i>-32.8</i>	<i>-62.8</i>	<i>-87.7</i>	<i>-170.6</i>	
				<i>(Duplicate)</i>				
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
VOAs								
1,1,2-Tetrachloroethane	µg/L	11	25 U	2.5 U	2.5 U	130 U	1300 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	25 U	2.5 U	2.5 U	130 U	1300 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	25 U	2.5 U	2.5 U	130 U	1300 U	0.50 U
Carbon tetrachloride	µg/L	4.4	25 U	2.5 U	2.5 U	130 U	1300 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	25 U	2.5 U	2.5 U	53 J	4200	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	140	82	82	1700	82000	5.5
Methylene chloride	µg/L	1600	16 J	10 U	10 U	500 U	5000 U	2.0 U
Tetrachloroethene	µg/L	8.85	25 U	2.5 U	2.5 U	130 U	3200	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	13 J	0.95 J	1.1 J	65 J	480 J	3.6
Trichloroethene	µg/L	81	8.5 J	0.80 J	0.75 J	28 J	55000	0.20 J
Vinyl chloride	µg/L	2.4	1100	26	26	5200	43000	10

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>		12-25	12-45	12-45	12-75	12-100	12-160	
<i>Sample ID:</i>		WG-082412-AMK-12-25-023	GW-031208-MM-12-45	GW-031208-MM-FD02	WG-082412-LP-12-75-024	WG-082412-AMK-12-100-025	WG-082412-LP-12-160-026	
<i>Sample Date:</i>		8/24/2012	12/3/2008	12/3/2008	8/24/2012	8/24/2012	8/24/2012	
<i>Sample Depth:</i>		25 ft BGS	45 ft bgs	45 ft bgs	75 ft BGS	100 ft BGS	160 ft BGS	
<i>elev_MLLW</i>		-8.23	-28.25	-28.25	-58.16	-84.46	-143.04	
<i>elev_NGVD</i>		-14.6	-34.6	-34.6	-64.5	-90.8	-149.4	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	2.0 U	2.0 U	0.50 U	250 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	2.0 U	2.0 U	0.50 U	250 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	2.0 U	2.0 U	0.50 U	250 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	1.2 U	1.2 U	0.50 U	250 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	2.0 U	2.0 U	2.0	250 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	0.69	2.0 U	2.0 U	0.50 U	250 U	0.50 U
Methylene chloride	µg/L	1600	2.0 U	2.0 U	2.0 U	2.0 U	95 J	2.0 U
Tetrachloroethene	µg/L	8.85	0.50 U	2.0 U	2.0 U	0.50 U	250 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	2.0 U	2.0 U	0.50 U	90 J	0.50 U
Trichloroethene	µg/L	81	0.50 U	2.0 U	2.0 U	0.50 U	250 U	0.50 U
Vinyl chloride	µg/L	2.4	0.50 U	2.0 U	2.0 U	13	6200	0.50 U

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	12A-25	12A-50	13-49	14-25R	14-50R	15-25R
<i>Sample ID:</i>	WG-082112-AMK-12A-25-027	WG-082112-AMK-12A-50-028	GW-042606-TS-13-49	WG-081312-TS-14-25R-029	WG-081312-TS-14-50R-030	GW-041106-TR-15-25R
<i>Sample Date:</i>	8/21/2012	8/21/2012	4/26/2006	8/13/2012	8/13/2012	4/11/2006
<i>Sample Depth:</i>	25 ft BGS	50 ft BGS	49 ft bgs	25 ft BGS	50 ft BGS	25 ft bgs
<i>elev_MLLW</i>	-6.1	-30.88	-31.2	-7.39	-32.25	-7.83
<i>elev_NGVD</i>	-12.4	-37.2	-37.5	-13.7	-38.6	-14.2

Parameters *Units CSI WG*

VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	41 U	25 U	130 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	41 U	25 U	130 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	43 U	25 U	38 J	0.49 J
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	41 U	25 U	130 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	0.50 U	35 U	25 U	130 U	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	0.54	0.50 U	82 J	310	7400	9.2
Methylene chloride	µg/L	1600	2.0 U	2.0 U	150 U	10 J	43 J	0.31 U
Tetrachloroethene	µg/L	8.85	0.50 U	11	33 U	25 U	130 U	0.10 J
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	0.50 U	46 U	25 U	130 U	9.1
Trichloroethene	µg/L	81	0.50 U	0.40 J	28 U	25 U	130 U	2.3
Vinyl chloride	µg/L	2.4	9.1	0.50 U	18000	1100	1200	56

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		15-50R	15-120	16-25	16-50	17-24	17-50R	
<i>Sample ID:</i>		WG-081312-PR-15-50R-31	WG-081512-TS-15-120-032	GW-040406-TR-16-25	GW-040406-TR-16-50	GW-040706-TS-17-24	GW-040406-TR-17-50R	
<i>Sample Date:</i>		8/13/2012	8/15/2012	4/4/2006	4/4/2006	4/7/2006	4/4/2006	
<i>Sample Depth:</i>		50 ft BGS	120 ft BGS	25 ft bgs	50 ft bgs	24 ft bgs	50 ft bgs	
<i>elev_MLLW</i>		-32.77	-102.43	-6.93	-31.86	-6.36	-32.32	
<i>elev_NGVD</i>		-39.1	-108.8	-13.2	-38.2	-12.7	-38.6	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	5.0 U	5.0 U	0.081 U	0.081 U	0.081 U	0.81 U
1,1,2-Trichloroethane	µg/L	42	5.0 U	5.0 U	0.082 U	0.082 U	0.082 U	0.82 U
1,1-Dichloroethene	µg/L	3.2	5.0 U	5.0 U	0.086 U	0.086 U	0.086 U	0.86 U
Carbon tetrachloride	µg/L	4.4	5.0 U	5.0 U	0.082 U	0.082 U	0.082 U	0.82 U
Chloroform (Trichloromethane)	µg/L	470	5.0 U	5.0 U	0.070 U	0.070 U	0.070 U	0.70 U
cis-1,2-Dichloroethene	µg/L	16.00	5.0 U	5.0 U	0.78 J	0.22 J	0.76 J	0.62 U
Methylene chloride	µg/L	1600	1.7 J	20 U	0.31 U	0.31 U	1.4	3.1 U
Tetrachloroethene	µg/L	8.85	5.0 U	5.0 U	0.12 J	0.066 U	0.44 J	0.66 U
trans-1,2-Dichloroethene	µg/L	10000	5.0 U	5.0 U	0.091 U	0.091 U	0.091 U	0.91 U
Trichloroethene	µg/L	81	5.0 U	3.6 J	0.48 J	0.082 J	0.45 J	0.55 U
Vinyl chloride	µg/L	2.4	1.2 J	5.0 U	0.14 U	0.14 U	0.15 J	1.4 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	17C-25		17C-25		17C-50		17C-75		17C-100	
<i>Sample ID:</i>	WG-080612-AMK-17C-25-033		WG-080612-AMK-FD02-299		WG-080612-ALK-17C-50-034		WG-080612-AMK-17C-75-035		WG-080712-AMK-17C-100-036	
<i>Sample Date:</i>	8/6/2012		8/6/2012		8/6/2012		8/6/2012		8/7/2012	
<i>Sample Depth:</i>	25 ft BGS		25 ft BGS		50 ft BGS		75 ft BGS		100 ft BGS	
<i>elev_MLLW</i>	-7.01		-7.01		-32.01		-57.01		-82.01	
<i>elev_NGVD</i>	-13.3		-13.3		-38.3		-63.3		-88.3	
<i>Parameters</i>	<i>Units CSI WG</i>									
VOAs										
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.080 J	0.50 U	2.0	1.1	0.59	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	0.68	0.58	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	1600	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	0.19 J	0.14 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	0.39 J	0.31 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	81	0.75	0.64	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	0.12 J	0.11 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	17C-130		17C-160		18-25		18-50R		19-25		19-50R	
<i>Sample ID:</i>	WG-080612-ALK-17C-130-037		WG-080712-AMK-17C-160-038		WG-081312-JN-18-25-039		WG-081512-TS-18-50R-040		GW-051208-MM-19-25		GW-040606-TR-19-50R	
<i>Sample Date:</i>	8/6/2012		8/7/2012		8/13/2012		8/15/2012		12/5/2008		4/6/2006	
<i>Sample Depth:</i>	130 ft BGS		160 ft BGS		25 ft BGS		50 ft BGS		25 ft bgs		50 ft bgs	
<i>elev_MLLW</i>	-112.01		-142.01		-6.74		-31.75		-7.42		-32.59	
<i>elev_NGVD</i>	-118.3		-148.3		-13.1		-38.1		-13.7		-38.9	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	5.0 U	0.50 U	2.5 U	5.0 U	2.0 U	1.6 U				
1,1,2-Trichloroethane	µg/L	42	5.0 U	0.50 U	2.5 U	5.0 U	2.0 U	1.6 U				
1,1-Dichloroethene	µg/L	3.2	5.0 U	0.50 U	2.5 U	5.0 U	2.0 U	1.7 U				
Carbon tetrachloride	µg/L	4.4	5.0 U	0.50 U	2.5 U	5.0 U	1.2 U	1.6 U				
Chloroform (Trichloromethane)	µg/L	470	1.8 J	3.0	2.5 U	5.0 U	2.0	1.4 U				
cis-1,2-Dichloroethene	µg/L	16.00	5.0 U	0.50 U	0.60 J	1.5 J	2.0 U	540				
Methylene chloride	µg/L	1600	6.4 J	2.0 U	1.1 J	20 U	9.5	6.2 U				
Tetrachloroethene	µg/L	8.85	5.0 U	0.50 U	2.5 U	5.0 U	2.8	1.3 U				
trans-1,2-Dichloroethene	µg/L	10000	5.0 U	0.50 U	2.5 U	5.0 U	2.0 U	1.8 U				
Trichloroethene	µg/L	81	5.0 U	0.50 U	2.5 U	5.0 U	0.68 J	3.3 J				
Vinyl chloride	µg/L	2.4	5.0 U	0.50 U	2.5 U	0.80 J	2.0 U	180				

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>		21-25R	21-48	21-48	21C-25	21C-50	21C-50	
<i>Sample ID:</i>		GW-041906-TS-21-25R	GW-050106-TS-21-48	GW-050106-TS-21-50	WG-072512-AMK-21C-25-041	WG-072512-AMK-21C-50-042	WG-072512-AMK-FD317-314	
<i>Sample Date:</i>		4/19/2006	5/1/2006	5/1/2006	7/25/2012	7/25/2012	7/25/2012	
<i>Sample Depth:</i>		25 ft bgs	48 ft bgs	48 ft bgs	25 ft BGS	50 ft BGS	50 ft BGS	
<i>elev_MLLW</i>		-5.65	-28.87	-28.87	-5.75	-30.75	-30.75	
<i>elev_NGVD</i>		-12	-35.2	-35.2	-12.1	-37.1	-37.1	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>			<i>WG</i>		<i>(Duplicate)</i>	
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	810 U	0.081 U	0.081 U	1.0 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	820 U	0.082 U	0.082 U	1.0 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	860 U	0.086 U	0.086 U	0.30 J	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	820 U	0.082 U	0.082 U	1.0 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	700 U	0.27 J	0.29 J	0.82 J	4.8	4.6
cis-1,2-Dichloroethene	µg/L	16.00	620 U	1.4	1.4	56	6.0	6.1
Methylene chloride	µg/L	1600	3100 U	0.31 U	0.31 U	1.8 J	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	100000	0.066 U	0.066 U	4.4	2.6	2.6
trans-1,2-Dichloroethene	µg/L	10000	910 U	3.9	4.0	5.6	0.75	0.86
Trichloroethene	µg/L	81	39000	3.0	2.7	25	7.2	7.4
Vinyl chloride	µg/L	2.4	1400 U	7.5	7.1	70	31	34

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	21C-75		21C-100		21C-130		21C-160		22-25R		22-50	
<i>Sample ID:</i>	WG-072512-AMK-21C-75-043		WG-072512-AMK-21C-100-044		WG-072512-AMK-21C-130-045		WG-072512-AMK-21C-160-046		22-25R-0205		WG-081712-TS-22-50-048	
<i>Sample Date:</i>	7/25/2012		7/25/2012		7/25/2012		7/25/2012		2/18/2005		8/17/2012	
<i>Sample Depth:</i>	75 ft BGS		100 ft BGS		130 ft BGS		160 ft BGS		25 ft bgs		50 ft BGS	
<i>elev_MLLW</i>	-55.75		-80.75		-110.75		-140.75		-6.89		-31.57	
<i>elev_NGVD</i>	-62.1		-87.1		-117.1		-147.1		-13.2		-37.9	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	5 U	100 U			
1,1,2-Trichloroethane	µg/L	42	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	5 U	100 U			
1,1-Dichloroethene	µg/L	3.2	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	5 U	100 U			
Carbon tetrachloride	µg/L	4.4	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	5 U	100 U			
Chloroform (Trichloromethane)	µg/L	470	1.2	4.6 J	4.1	5.1	5 U	100 U				
cis-1,2-Dichloroethene	µg/L	16.00	0.41 J	4.0 J	0.94	0.58	5 U			800		
Methylene chloride	µg/L	1600	2.0 U	7.9 J	2.0 U	2.0 U	5 U			68 J		
Tetrachloroethene	µg/L	8.85	0.50 U	5.0 U	0.19 J	0.50 U	5 U			2100		
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	5.0 U	0.50 U	0.50 U	5 U			100 U		
Trichloroethene	µg/L	81	0.31 J	5.0 U	0.81	0.23 J	5 U			4700		
Vinyl chloride	µg/L	2.4	38	2.3 J	1.1	0.89		10		58 J		

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	22-70	23-25R	23-50	24-15	24-35	24-50	
<i>Sample ID:</i>	GW-041306-TS-22-70	WG-081712-TS-23-25R-049	GW-041006-TS-23-50	WG-081512-AMK-24-15-502	WG-081512-AMK-24-35-501	WG-081512-AMK-24-50-500	
<i>Sample Date:</i>	4/13/2006	8/17/2012	4/10/2006	8/15/2012	8/15/2012	8/15/2012	
<i>Sample Depth:</i>	70 ft bgs	25 ft BGS	50 ft bgs	15 ft BGS	35 ft BGS	50 ft BGS	
<i>elev_MLLW</i>	-52.31	-6.45	-30.62	3.19	-16.5	-31.59	
<i>elev_NGVD</i>	-58.6	-12.8	-36.9	-3.1	-22.8	-37.9	
<i>Parameters</i>	<i>Units CSI WG</i>						
VOAs							
1,1,2,2-Tetrachloroethane	µg/L 11	0.41 U	2.5 U	0.081 U	0.50 U	50 U	1300 U
1,1,2-Trichloroethane	µg/L 42	0.41 U	2.5 U	0.082 U	0.50 U	50 U	1300 U
1,1-Dichloroethene	µg/L 3.2	0.43 U	2.5 U	0.086 U	0.50 U	50 U	1300 U
Carbon tetrachloride	µg/L 4.4	0.41 U	2.5 U	0.082 U	0.50 U	50 U	1300 U
Chloroform (Trichloromethane)	µg/L 470	0.35 U	2.5 U	0.070 U	0.28 J	50 U	1300 U
cis-1,2-Dichloroethene	µg/L 16.00	1.9 J	1.1 J	1.4	9.7	3400	45000
Methylene chloride	µg/L 1600	1.5 U	1.5 J	0.31 U	2.0 U	200 U	600 J
Tetrachloroethene	µg/L 8.85	1.0 J	2.5 U	0.35 J	4.9	50 U	380 J
trans-1,2-Dichloroethene	µg/L 10000	1.1 J	2.5 U	0.25 J	0.47 J	61	850 J
Trichloroethene	µg/L 81	6.3	2.5 U	11	7.3	50 U	2400
Vinyl chloride	µg/L 2.4	90	2.5 U	3.7	17	410	3300

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>25-25</i>	<i>25-25</i>	<i>25-50</i>	<i>25A-25</i>	<i>25A-50</i>	<i>28-15</i>	<i>29-14</i>	<i>30-15</i>		
<i>Sample ID:</i>	<i>GW-041306-TR-25-25</i>	<i>GW-041306-TR-FD</i>	<i>GW-041306-TR-25-50</i>	<i>GW-041006-TR-25A-25</i>	<i>GW-050106-TV-25A-50</i>	<i>28-15-0304</i>	<i>29-14-0304</i>	<i>30-15-0304</i>		
<i>Sample Date:</i>	<i>4/13/2006</i>	<i>4/13/2006</i>	<i>4/13/2006</i>	<i>4/10/2006</i>	<i>5/1/2006</i>	<i>3/23/2004</i>	<i>3/23/2004</i>	<i>3/17/2004</i>		
<i>Sample Depth:</i>	<i>25 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>14 ft bgs</i>	<i>15 ft bgs</i>		
<i>elev_MLLW</i>	<i>-7.37</i>	<i>-7.37</i>	<i>-32.01</i>	<i>-5.78</i>	<i>-30.88</i>	<i>3.33</i>	<i>4.3</i>	<i>3.29</i>		
<i>elev_NGVD</i>	<i>-13.7</i>	<i>-13.7</i>	<i>-38.3</i>	<i>-12.1</i>	<i>-37.2</i>	<i>-3</i>	<i>-2</i>	<i>-3</i>		
<i>Parameters</i>	<i>Units CSI WG</i>									
VOAs										
1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	3.2	0.086 U	0.086 U	0.086 U	0.86 J	0.086 U	5 U	5 U	5 U
Carbon tetrachloride	µg/L	4.4	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	5 U	5 U	5 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	16	3.6 J	3.9 J
cis-1,2-Dichloroethene	µg/L	16.00	1.4	1.3	0.062 U	9.6	0.064 J	5 U	5 U	5 U
Methylene chloride	µg/L	1600	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	5 U	5 U	5 U
Tetrachloroethene	µg/L	8.85	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	5 U	2.7 J	5.0
trans-1,2-Dichloroethene	µg/L	10000	0.091 U	0.091 U	0.091 U	5.3	0.091 U	5 U	5 U	5 U
Trichloroethene	µg/L	81	0.055 U	0.055 U	0.055 U	3.6	0.055 U	5 U	5 U	5 U
Vinyl chloride	µg/L	2.4	0.14 U	0.14 U	0.14 U	9.1	0.22 J	5 U	5 U	5 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>		32-50R	32-100	34-25	34-25R	34-50	34-50R	
<i>Sample ID:</i>		WG-082412-JN-32-50R-051	GW-050106-TS-32-100	GW-081208-MM-34-25	WG-082012-AMK-34-25R-052	GW-041006-TR-34-50	WG-082012-AMK-34-50R-053	
<i>Sample Date:</i>		8/24/2012	5/1/2006	12/8/2008	8/20/2012	4/10/2006	8/20/2012	
<i>Sample Depth:</i>		50 ft BGS	100 ft bgs	25 ft bgs	25 ft BGS	50 ft bgs	50 ft BGS	
<i>elev_MLLW</i>		-31.44	-81.38	-6.88	-6.86	-31.88	-31.85	
<i>elev_NGVD</i>		-37.8	-87.7	-13.2	-13.2	-38.2	-38.2	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
VOAs								
1,1,2-Tetrachloroethane	µg/L	11	130 U	0.081 U	2.0 U	25 U	8.1 U	13 U
1,1,2-Trichloroethane	µg/L	42	130 U	0.082 U	2.0 U	25 U	8.2 U	13 U
1,1-Dichloroethene	µg/L	3.2	130 U	0.086 U	2.0 U	15 J	8.6 U	13 U
Carbon tetrachloride	µg/L	4.4	130 U	0.082 U	1.2 U	25 U	8.2 U	13 U
Chloroform (Trichloromethane)	µg/L	470	130 U	0.070 U	2.0 U	25 U	7.0 U	13 U
cis-1,2-Dichloroethene	µg/L	16.00	760	1.3	130	840	570	23
Methylene chloride	µg/L	1600	43 J	0.31 U	2.0 U	11 J	31 U	4.5 J
Tetrachloroethene	µg/L	8.85	130 U	0.066 U	2.0 U	25 U	6.6 U	13 U
trans-1,2-Dichloroethene	µg/L	10000	90 J	1.7	39	290	220	36
Trichloroethene	µg/L	81	130 U	0.18 J	1.3 J	25 U	5.5 U	13 U
Vinyl chloride	µg/L	2.4	3500	44	13	56	1400	290

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>34-75</i>	<i>34-100</i>	<i>34C-100</i>	<i>34C-130</i>	<i>34C-160</i>	
<i>Sample ID:</i>		<i>WG-082012-AMK-34-75-054</i>	<i>GW-051208-MM-34-100</i>	<i>WG-082112-AMK-34C-100-055</i>	<i>WG-082012-AMK-34C-130-056</i>	<i>WG-082012-AMK-34C-160-057</i>	
<i>Sample Date:</i>		<i>8/20/2012</i>	<i>12/5/2008</i>	<i>8/21/2012</i>	<i>8/20/2012</i>	<i>8/20/2012</i>	
<i>Sample Depth:</i>		<i>75 ft BGS</i>	<i>100 ft bgs</i>	<i>100 ft BGS</i>	<i>130 ft BGS</i>	<i>160 ft BGS</i>	
<i>elev_MLLW</i>		<i>-56.81</i>	<i>-81.68</i>	<i>-81.88</i>	<i>-111.88</i>	<i>-141.88</i>	
<i>elev_NGVD</i>		<i>-63.1</i>	<i>-88</i>	<i>-88.2</i>	<i>-118.2</i>	<i>-148.2</i>	
Parameters	Units	CSI	WG				
VOAs							
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	2.0 U	0.22 J	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	1.2 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.18 J	0.29 J	0.56	0.55	0.93
cis-1,2-Dichloroethene	µg/L	16.00	0.81	0.71 J	12	8.4	6.6
Methylene chloride	µg/L	1600	2.0 U	8.7	0.14 J	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	0.12 J	2.0 U	0.79	1.2	0.52
Trichloroethene	µg/L	81	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	6.3	2.0 U	20	10	3.5

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>		35-25	35-25	35-50	35-100	35-100R	36-25
<i>Sample ID:</i>		WG-081512-JN-35-25-058	WG-081512-JN-FD04-301	GW-151208-MM-35-50	GW-042706-TV-35-100	WG-081512-JN-35-100R-059	WG-080112-AK-36-25-060
<i>Sample Date:</i>		8/15/2012	8/15/2012	12/15/2008	4/27/2006	8/15/2012	8/1/2012
<i>Sample Depth:</i>		25 ft BGS	25 ft BGS	50 ft bgs	100 ft bgs	100 ft BGS	25 ft BGS
<i>elev_MLLW</i>		-6.79	-6.79	-31.84	-81.75	-81.7	-7.66
<i>elev_NGVD</i>		-13.1	-13.1	-38.2	-88.1	-88	-14
			<i>(Duplicate)</i>				
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
VOAs							
1,1,2,2-Tetrachloroethane	µg/L	11	5.0 U	5.0 U	2.0 U	0.081 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	5.0 U	5.0 U	2.0 U	0.082 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	4.3 J	2.8 J	2.0 U	0.086 U	0.50 U
Carbon tetrachloride	µg/L	4.4	5.0 U	5.0 U	2.0 U	0.082 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	5.0 U	5.0 U	1.2 U	0.070 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	190	190	1.0 J	0.20 J	0.10 J
Methylene chloride	µg/L	1600	20 U	20 U	2.0 U	0.31 U	2.0 U
Tetrachloroethene	µg/L	8.85	5.0 U	5.0 U	2.0 U	0.066 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	150	150	2.0 U	0.091 U	0.50 U
Trichloroethene	µg/L	81	5.0 U	5.0 U	2.0 U	0.21 J	0.50 U
Vinyl chloride	µg/L	2.4	23	23	1.5 J	0.14 U	0.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>36-50</i>	<i>36-100R</i>	<i>38-55</i>	<i>40-25</i>	<i>40-50</i>	<i>40-75</i>
<i>Sample ID:</i>	WG-080112-AK-36-50-061	WG-080112-AK-36-100R-062	38-55-0304	WG-082112-PR-40-25-063	WG-082112-PR-40-50-064	WG-082112-PR-40-75-065
<i>Sample Date:</i>	8/1/2012	8/1/2012	3/17/2004	8/21/2012	8/21/2012	8/21/2012
<i>Sample Depth:</i>	50 ft BGS	100 ft BGS	55 ft bgs	25 ft BGS	50 ft BGS	75 ft BGS
<i>elev_MLLW</i>	-32.6	-82.61	-36.15	-6.28	-31.22	-56.19
<i>elev_NGVD</i>	-38.9	-88.9	-42.5	-12.6	-37.5	-62.5
<i>Parameters</i>	<i>Units CSI WG</i>					
VOAs						
1,1,2,2-Tetrachloroethane	µg/L 11	0.50 U	0.50 U	5 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L 42	0.50 U	0.50 U	5 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L 3.2	0.50 U	0.16 J	5 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L 4.4	0.50 U	0.50 U	5 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L 470	0.50 U	0.50 U	5 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L 16.00	0.24 J	21	5 U	0.11 J	0.50 U
Methylene chloride	µg/L 1600	2.0 U	2.0 U	5 U	2.0 U	2.0 U
Tetrachloroethene	µg/L 8.85	0.50 U	0.50 U	5 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L 10000	0.50 U	2.7	5 U	0.50 U	0.50 U
Trichloroethene	µg/L 81	0.50 U	0.45 J	5 U	0.50 U	0.50 U
Vinyl chloride	µg/L 2.4	0.50 U	0.50 U	5 U	0.10 J	0.50 U

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>40-100R</i>	<i>40A-25</i>	<i>40A-50</i>	<i>40A-100</i>	<i>41-50</i>	<i>41-100</i>	
<i>Sample ID:</i>	<i>WG-082112-PR-40-100R-066</i>	<i>GW-031208-TG-40A-25</i>	<i>GW-031208-TG-40A-50</i>	<i>GW-031208-TG-40A-100</i>	<i>GW-041506-TR-41-50</i>	<i>GW-081208-MM-41-100</i>	
<i>Sample Date:</i>	<i>8/21/2012</i>	<i>12/3/2008</i>	<i>12/3/2008</i>	<i>12/3/2008</i>	<i>4/15/2006</i>	<i>12/8/2008</i>	
<i>Sample Depth:</i>	<i>100 ft BGS</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>	
<i>elev_MLLW</i>	<i>-81.06</i>	<i>-5.58</i>	<i>-30.48</i>	<i>-80.55</i>	<i>-32.84</i>	<i>-82.84</i>	
<i>elev_NGVD</i>	<i>-87.4</i>	<i>-11.9</i>	<i>-36.8</i>	<i>-86.9</i>	<i>-39.2</i>	<i>-89.2</i>	
Parameters	Units CSI WG						
VOAs							
1,1,2,2-Tetrachloroethane	µg/L 11	100 U	2.0 U	2.0 U	2.0 U	0.081 U	2.0 U
1,1,2-Trichloroethane	µg/L 42	100 U	2.0 U	2.0 U	2.0 U	0.082 U	2.0 U
1,1-Dichloroethene	µg/L 3.2	100 U	2.0 U	2.0 U	0.92 J	0.086 U	2.0 U
Carbon tetrachloride	µg/L 4.4	100 U	1.2 U	1.2 U	1.2 U	0.082 U	1.2 U
Chloroform (Trichloromethane)	µg/L 470	100 U	2.0 U	2.0 U	2.0 U	0.070 U	0.19 J
cis-1,2-Dichloroethene	µg/L 16.00	5000	2.4	0.89 J	210	0.062 U	2.0 U
Methylene chloride	µg/L 1600	76 J	2.0 U	2.0 U	2.0 U	0.31 U	2.0 U
Tetrachloroethene	µg/L 8.85	100 U	2.0 U	2.0 U	2.0 U	0.066 U	2.0 U
trans-1,2-Dichloroethene	µg/L 10000	190	2.0 U	2.0 U	66	0.091 U	2.0 U
Trichloroethene	µg/L 81	100 U	2.0 U	2.0 U	2.0 U	0.055 U	2.0 U
Vinyl chloride	µg/L 2.4	970	2.1	2.0 U	4800	0.14 U	2.0 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	41-138	41C-25	41C-50	41C-75	41C-100	41C-130
<i>Sample ID:</i>	GW-042206-TR-41-138	WG-071612-BW-41C-25-067	WG-071612-BW-41C-50-068	WG-071612-BW-41C-75-069	WG-071612-BW-41C-100-500	WG-082912-JN-41C-130-071
<i>Sample Date:</i>	4/22/2006	7/16/2012	7/16/2012	7/16/2012	7/16/2012	8/29/2012
<i>Sample Depth:</i>	138 ft bgs	25 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS	130 ft BGS
<i>elev_MLLW</i>	-120.89	-8.39	-33.39	-58.39	-83.39	-113.39
<i>elev_NGVD</i>	-127.2	-14.7	-39.7	-64.7	-89.7	-119.7

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	1.6 U	0.50 U	0.50 U	0.50 U	0.50 U	130 U
1,1,2-Trichloroethane	µg/L	42	1.6 U	0.50 U	0.50 U	0.50 U	0.50 U	130 U
1,1-Dichloroethene	µg/L	3.2	1.7 U	0.50 U	0.50 U	0.50 U	0.50 U	130 U
Carbon tetrachloride	µg/L	4.4	1.6 U	0.50 U	0.50 U	0.50 U	0.50 U	130 U
Chloroform (Trichloromethane)	µg/L	470	1.4 U	0.50 U	0.87	2.0	0.86	130 U
cis-1,2-Dichloroethene	µg/L	16.00	190	0.11 J	0.15 J	0.15 J	0.080 J	290
Methylene chloride	µg/L	1600	6.2 U	2.0 U	2.0 U	2.0 U	2.0 U	40 J
Tetrachloroethene	µg/L	8.85	1.3 U	0.50 U	0.50 U	0.50 U	0.50 U	130 U
trans-1,2-Dichloroethene	µg/L	10000	10 J	0.50 U	0.50 U	0.50 U	0.50 U	130 U
Trichloroethene	µg/L	81	1.1 U	0.50 U	0.50 U	0.50 U	0.50 U	130 U
Vinyl chloride	µg/L	2.4	820	0.50 U	8.3	10	4.6	8000

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>41C-130</i>	<i>41C-160</i>	<i>42-25</i>	<i>42-50</i>	<i>43-25</i>	<i>43-50</i>	
<i>Sample ID:</i>	<i>WG-082912-JN-FD06-303</i>	<i>WG-071712-BW-41C-160-072</i>	<i>WG-081012-LP-42-25-074</i>	<i>WG-081012-LP-42-50-075</i>	<i>GW-040506-TR-43-25</i>	<i>WG-082812-ALK-43-50-076</i>	
<i>Sample Date:</i>	<i>8/29/2012</i>	<i>7/17/2012</i>	<i>8/10/2012</i>	<i>8/10/2012</i>	<i>4/5/2006</i>	<i>8/28/2012</i>	
<i>Sample Depth:</i>	<i>130 ft BGS</i>	<i>160 ft BGS</i>	<i>25 ft BGS</i>	<i>50 ft BGS</i>	<i>25 ft bgs</i>	<i>50 ft BGS</i>	
<i>elev_MLLW</i>	<i>-113.39</i>	<i>-143.39</i>	<i>-6.78</i>	<i>-31.78</i>	<i>-6.48</i>	<i>-32.14</i>	
<i>elev_NGVD</i>	<i>-119.7</i>	<i>-149.7</i>	<i>-13.1</i>	<i>-38.1</i>	<i>-12.8</i>	<i>-38.5</i>	
	<i>(Duplicate)</i>						
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
VOAs							
1,1,2,2-Tetrachloroethane	µg/L	11	130 U	0.50 U	0.50 U	0.081 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	130 U	0.50 U	0.50 U	0.082 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	130 U	0.50 U	0.50 U	0.086 U	0.50 U
Carbon tetrachloride	µg/L	4.4	130 U	0.50 U	0.50 U	0.082 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	130 U	0.59	0.50 U	0.070 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	270	0.14 J	0.49 J	2.1	0.24 J
Methylene chloride	µg/L	1600	38 J	0.14 J	2.0 U	0.31 U	2.0 U
Tetrachloroethene	µg/L	8.85	130 U	0.50 U	0.50 U	0.066 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	130 U	0.50 U	0.50 U	0.091 U	0.50 U
Trichloroethene	µg/L	81	130 U	0.13 J	0.50 U	0.055 U	0.21 J
Vinyl chloride	µg/L	2.4	7100	0.74	0.50 U	3.8	0.50 U

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	44-25	44-50	45-50	45-100	46-50	46-100	
Sample ID:	WG-081012-ALK-44-25-077	WG-081112-JN-44-50-078	WG-081012-JN-45-50-079	WG-081012-JN-45-100-080	GW-041206-TR-46-50	GW-041206-TR-46-100	
Sample Date:	8/10/2012	8/11/2012	8/10/2012	8/10/2012	4/12/2006	4/12/2006	
Sample Depth:	25 ft BGS	50 ft BGS	50 ft BGS	100 ft BGS	50 ft bgs	100 ft bgs	
elev_MLLW	-6.92	-31.92	-32.63	-82.51	-31.88	-80.38	
elev_NGVD	-13.2	-38.2	-39	-88.8	-38.2	-86.7	
Parameters	Units CSI WG						
VOAs							
1,1,2,2-Tetrachloroethane	µg/L 11	0.50 U	0.50 U	0.50 U	0.50 U	0.081 U	0.081 U
1,1,2-Trichloroethane	µg/L 42	0.50 U	0.50 U	0.50 U	0.50 U	0.082 U	0.082 U
1,1-Dichloroethene	µg/L 3.2	0.50 U	0.50 U	0.50 U	0.50 U	0.086 U	0.095 J
Carbon tetrachloride	µg/L 4.4	0.50 U	0.50 U	0.50 U	0.50 U	0.082 U	0.082 U
Chloroform (Trichloromethane)	µg/L 470	0.50 U	0.50 U	0.50 U	0.50 U	0.070 U	0.68 J
cis-1,2-Dichloroethene	µg/L 16.00	0.15 J	0.090 J	0.12 J	0.50 U	0.099 J	31
Methylene chloride	µg/L 1600	2.0 U	2.0 U	2.0 U	2.0 U	0.31 U	0.31 U
Tetrachloroethene	µg/L 8.85	0.50 U	0.50 U	0.50 U	0.50 U	0.066 U	0.066 U
trans-1,2-Dichloroethene	µg/L 10000	0.50 U	0.50 U	1.1	0.50 U	0.48 J	1.4
Trichloroethene	µg/L 81	0.50 U	0.50 U	0.50 U	0.50 U	0.055 U	6.3
Vinyl chloride	µg/L 2.4	0.50 U	0.50 U	0.53	0.50 U	2.8	8.3

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	46C-25		46C-50		46C-75		46C-100		46C-130	
<i>Sample ID:</i>	WG-082212-AMK-46C-25-081		WG-082212-AMK-46C-50-082		WG-082212-AMK-46C-75-083		WG-082212-AMK-46C-100-084		WG-082212-AMK-46C-130-085	
<i>Sample Date:</i>	8/22/2012		8/22/2012		8/22/2012		8/22/2012		8/22/2012	
<i>Sample Depth:</i>	25 ft BGS		50 ft BGS		75 ft BGS		100 ft BGS		130 ft BGS	
<i>elev_MLLW</i>	-6.91		-31.91		-56.91		-81.91		-111.91	
<i>elev_NGVD</i>	-13.2		-38.2		-63.2		-88.2		-118.2	
<i>Parameters</i>	<i>Units CSI WG</i>									
VOAs										
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.28 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	3.6	1.9	3.0	2.1	3.4	3.4	3.4	3.4
cis-1,2-Dichloroethene	µg/L	16.00	1.4	0.45 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	1600	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	0.17 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.14 J
trans-1,2-Dichloroethene	µg/L	10000	0.27 J	1.3	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	81	0.28 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	0.23 J	0.39 J	0.50 U	0.50 U	0.95	0.50 U	0.50 U	0.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		46C-160	48-15	49-15	50-15	51-15	52-15	
<i>Sample ID:</i>		WG-082212-AMK-46C-160-086	WG-081012-ALK-48-15-087	WG-081112-ALK-49-15-088	WG-081112-ALK-50-15-089	51-15-0304	WG-082412-PR-52-15-090	
<i>Sample Date:</i>		8/22/2012	8/10/2012	8/11/2012	8/11/2012	3/17/2004	8/24/2012	
<i>Sample Depth:</i>		160 ft BGS	15 ft BGS	15 ft BGS	15 ft BGS	15 ft bgs	15 ft BGS	
<i>elev_MLLW</i>		-141.91	2.82	3.92	2.52	3.12	3.22	
<i>elev_NGVD</i>		-148.2	-3.5	-2.4	-3.8	-3.2	-3.1	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	0.50 U	0.50 U	5 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	0.50 U	0.50 U	5 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	0.50 U	0.50 U	5 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	0.50 U	0.50 U	5 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	2.4	0.50 U	0.29 J	0.50 U	4.7 J	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	0.50 U	0.20 J	0.77	0.33 J	5 U	1.3
Methylene chloride	µg/L	1600	2.0 U	2.0 U	2.0 U	2.0 U	5 U	2.0 U
Tetrachloroethene	µg/L	8.85	0.21 J	16	2.2	12	12	11
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	0.080 J	0.50 U	0.11 J	5 U	0.090 J
Trichloroethene	µg/L	81	0.50 U	3.7	0.96	4.7	3.6 J	12
Vinyl chloride	µg/L	2.4	0.50 U	0.50 U	0.18 J	0.50 U	5 U	0.50 U

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	52-15		53-25		53-50		53-100		53C-25		53C-50	
Sample ID:	WG-082412-PR-FD11-308		GW-050106-TR-53-25		GW-042706-TV-53-50		GW-041706-TR-53-100		WG-072412-AK-53C-25-091		WG-072412-AK-53C-50-092	
Sample Date:	8/24/2012		5/1/2006		4/27/2006		4/17/2006		7/24/2012		7/24/2012	
Sample Depth:	15 ft BGS		25 ft bgs		50 ft bgs		100 ft bgs		25 ft BGS		50 ft BGS	
elev_MLLW	3.22		-6.79		-31.72		-81.72		-6.52		-31.52	
elev_NGVD	-3.1		-13.1		-38		-88		-12.8		-37.8	
Parameters	Units CSI WG											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	41 U	81 U	0.081 U	50 U	1000 U				
1,1,2-Trichloroethane	µg/L	42	0.50 U	41 U	82 U	0.082 U	50 U	1000 U				
1,1-Dichloroethene	µg/L	3.2	0.50 U	49 J	86 U	0.086 U	9.0 J	240 J				
Carbon tetrachloride	µg/L	4.4	0.50 U	41 U	82 U	0.082 U	50 U	1000 U				
Chloroform (Trichloromethane)	µg/L	470	0.50 U	35 U	70 U	0.070 U	50 U	620 J				
cis-1,2-Dichloroethene	µg/L	16.00	1.3	12000	1300	2.5	2200	20000				
Methylene chloride	µg/L	1600	2.0 U	150 U	310 U	0.31 U	20 J	460 J				
Tetrachloroethene	µg/L	8.85	11	310 J	16000	20	23 J	6600				
trans-1,2-Dichloroethene	µg/L	10000	0.090 J	58 J	91 U	0.091 U	23 J	240 J				
Trichloroethene	µg/L	81	12	2800	2200	3.9	140	44000				
Vinyl chloride	µg/L	2.4	0.50 U	3800	140 U	0.14 U	670	3900				

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	53C-75	53C-100	53C-130	53C-160	55-25	55-50
<i>Sample ID:</i>	WG-072412-AK-53C-75-093	WG-072412-PR-53C-100-094	WG-072412-PR-53C-130-095	WG-072412-PR-53C-160-096	WG-082412-PR-55-25-097	WG-082412-PR-55-50-098
<i>Sample Date:</i>	7/24/2012	7/24/2012	7/24/2012	7/24/2012	8/24/2012	8/24/2012
<i>Sample Depth:</i>	75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS
<i>elev_MLLW</i>	-56.52	-81.52	-111.52	-141.52	-6.37	-31.79
<i>elev_NGVD</i>	-62.8	-87.8	-117.8	-147.8	-12.7	-38.1

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	500 U	500 U	50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	500 U	500 U	50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	90 J	500 U	50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	500 U	500 U	50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	690	2800	15 J	5.8	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	23000	21000	360	7.7	1.1	0.50 U
Methylene chloride	µg/L	1600	630 J	8500	78 J	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	1000	400 J	1700	7.1	3.2	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	130 J	90 J	50 U	0.080 J	0.28 J	0.24 J
Trichloroethene	µg/L	81	5000	3700	1300	12	5.8	0.50 U
Vinyl chloride	µg/L	2.4	22000	4900	64	1.5	0.12 J	0.23 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>55-100</i>	<i>56-50</i>	<i>57-50</i>	<i>59-25</i>	<i>59-50</i>	<i>60-25</i>	<i>60-50</i>
<i>Sample ID:</i>	<i>GW-051208-TG-55-100</i>	<i>GW-040606-TS-56-50</i>	<i>GW-040606-TR-57-50</i>	<i>GW-041206-TS-59-25</i>	<i>GW-041206-TS-59-50</i>	<i>GW-041106-TR-60-25</i>	<i>WG-081512-TS-60-50-099</i>
<i>Sample Date:</i>	<i>12/5/2008</i>	<i>4/6/2006</i>	<i>4/6/2006</i>	<i>4/12/2006</i>	<i>4/12/2006</i>	<i>4/11/2006</i>	<i>8/15/2012</i>
<i>Sample Depth:</i>	<i>100 ft bgs</i>	<i>50 ft bgs</i>	<i>50 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft BGS</i>
<i>elev_MLLW</i>	<i>-81.91</i>	<i>-32.15</i>	<i>-32.05</i>	<i>-7.32</i>	<i>-32.45</i>	<i>-7.73</i>	<i>-32.55</i>
<i>elev_NGVD</i>	<i>-88.2</i>	<i>-38.5</i>	<i>-38.4</i>	<i>-13.6</i>	<i>-38.8</i>	<i>-14</i>	<i>-38.9</i>

Parameters *Units* *CSI* *WG*

<i>VOAs</i>									
1,1,2,2-Tetrachloroethane	µg/L	11	2.0 U	0.081 U	0.081 U	41 U	41 U	0.081 U	5.0 U
1,1,2-Trichloroethane	µg/L	42	2.0 U	0.082 U	0.082 U	41 U	41 U	0.082 U	5.0 U
1,1-Dichloroethene	µg/L	3.2	2.0 U	0.086 U	0.086 U	63 J	89 J	0.086 U	5.0 U
Carbon tetrachloride	µg/L	4.4	1.2 U	0.082 U	0.082 U	41 U	41 U	0.082 U	5.0 U
Chloroform (Trichloromethane)	µg/L	470	0.32 J	0.070 U	0.070 U	35 U	35 U	0.070 U	5.0 U
cis-1,2-Dichloroethene	µg/L	16.00	2.0 U	0.062 U	0.35 J	20000	33000	1.4	1.6 J
Methylene chloride	µg/L	1600	9.2	0.31 U	0.31 U	150 U	150 U	0.31 U	20 U
Tetrachloroethene	µg/L	8.85	2.0 U	0.066 U	0.15 J	8900	220 J	1.4	5.0 U
trans-1,2-Dichloroethene	µg/L	10000	2.0 U	0.091 U	0.15 J	100 J	180 J	0.10 J	5.0 U
Trichloroethene	µg/L	81	2.0 U	0.055 U	0.38 J	12000	6600	1.9	5.0 U
Vinyl chloride	µg/L	2.4	2.0 U	0.14 U	0.14 U	8000	10000	0.51 J	13

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		61-25	61-50	61-100	61C-25	61C-50	61C-75
<i>Sample ID:</i>		GW-041208-TG-61-25	GW-041208-TG-61-50	GW-041208-TG-61-100	WG-071712-BW-61C-25-100	WG-071712-BW-61C-50-101	WG-071712-BW-61C-75-102
<i>Sample Date:</i>		12/4/2008	12/4/2008	12/4/2008	7/17/2012	7/17/2012	7/17/2012
<i>Sample Depth:</i>		25 ft bgs	50 ft bgs	100 ft bgs	25 ft BGS	50 ft BGS	75 ft BGS
<i>elev_MLLW</i>		-7.35	-32.39	-82.34	-7.81	-32.81	-57.81
<i>elev_NGVD</i>		-13.7	-38.7	-88.7	-14.1	-39.1	-64.1
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
VOAs							
1,1,2,2-Tetrachloroethane	µg/L	11	2.0 U	2.0 U	2.0 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	2.0 U	2.0 U	2.0 U	0.50 U	0.17 J
1,1-Dichloroethene	µg/L	3.2	2.0 U	2.0 U	2.0 U	0.51	0.22 J
Carbon tetrachloride	µg/L	4.4	2.0 U	2.0 U	1.2 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	2.0 U	2.0 U	2.0 U	0.30 J	2.2
cis-1,2-Dichloroethene	µg/L	16.00	2.0 U	2.0 U	2.4	2.3	30
Methylene chloride	µg/L	1600	2.0 U	2.6	2.0 U	0.15 J	3.2
Tetrachloroethene	µg/L	8.85	2.0 U	2.0 U	2.0 U	0.56	1.9
trans-1,2-Dichloroethene	µg/L	10000	2.0 U	2.0 U	24	0.24 J	3.5
Trichloroethene	µg/L	81	2.0 U	2.0 U	2.0 U	5.9	34
Vinyl chloride	µg/L	2.4	2.0 U	2.0 U	290	1.1	23
							35

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	61C-100	61C-100	61C-130	61C-160	64-25	64-100
<i>Sample ID:</i>	WG-071712-BW-61C-100-103	WG-071712-BW-FD05-302	WG-071712-BW-61C-130-104	WG-071712-BW-61C-160-105	GW-041208-TG-64-25	WG-072612-AMK-64-100-106
<i>Sample Date:</i>	7/17/2012	7/17/2012	7/17/2012	7/17/2012	12/4/2008	7/26/2012
<i>Sample Depth:</i>	100 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS	25 ft bgs	100 ft BGS
<i>elev_MLLW</i>	-82.81	-82.81	-112.81	-142.81	-7.77	-82.91
<i>elev_NGVD</i>	-89.1	-89.1	-119.1	-149.1	-14.1	-89.2

(Duplicate)

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	25 U	25 U	500 U	250 U	2.0 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	25 U	25 U	340 J	250 U	2.0 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	25 U	25 U	500 U	360	2.0 U	0.50 U
Carbon tetrachloride	µg/L	4.4	25 U	25 U	500 U	250 U	2.0 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	190	190	39000	770	2.0 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	620	590	20000	6500	1.1 J	1.2
Methylene chloride	µg/L	1600	170	160	19000	750 J	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	25 U	25 U	150 J	2100	2.0 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	140	130	850	730	2.0 U	0.17 J
Trichloroethene	µg/L	81	220	230	14000	31000	2.0 U	0.50 U
Vinyl chloride	µg/L	2.4	2300	2100	460 J	440	2.0 U	0.12 J

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		64-170	65-15	65-25	65-50	65-100	65-130
<i>Sample ID:</i>		WG-072612-AMK-64-170-107	GW-65-15-TR-0704	WG-081212-ALK-65-25-108	WG-081212-ALK-65-50-109	WG-081212-JN-65-100-110	WG-081212-JN-65-130-111
<i>Sample Date:</i>		7/26/2012	7/18/2004	8/12/2012	8/12/2012	8/12/2012	8/12/2012
<i>Sample Depth:</i>		170 ft BGS	15 ft bgs	25 ft BGS	50 ft BGS	100 ft BGS	130 ft BGS
<i>elev_MLLW</i>		-152.65	2.79	-7.23	-32.22	-82.12	-111.91
<i>elev_NGVD</i>		-159	-3.5	-13.6	-38.5	-88.4	-118.2
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
VOAs							
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.27 U	0.50 U	5.0 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.20 U	0.50 U	5.0 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.30 U	0.50 U	5.0 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.10 U	0.50 U	5.0 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	0.16 U	0.17 J	5.0 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	0.32 J	53	1.9	110	0.50 U
Methylene chloride	µg/L	1600	2.0 U	0.35 U	2.0 U	1.7 J	2.0 U
Tetrachloroethene	µg/L	8.85	0.50 U	18	0.18 J	5.0 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	4.9	0.19 U	1.8	2.1 J	0.50 U
Trichloroethene	µg/L	81	0.11 J	53	0.96	30	0.50 U
Vinyl chloride	µg/L	2.4	0.41 J	24	3.4	1.4 J	0.50 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	66-15		66-25		66-50		67-25		67-50		67-50		68-25	
<i>Sample ID:</i>	GW-66-15-TR-0704		GW-66-25-TR-0704		GW-66-50-TR-0704		WG-072612-AMK-67-25-112		WG-072612-AMK-67-50-113		WG-072612-AMK-FD08-305		GW-041706-TS-68-25	
<i>Sample Date:</i>	7/10/2004		7/10/2004		7/10/2004		7/26/2012		7/26/2012		7/26/2012		4/17/2006	
<i>Sample Depth:</i>	15 ft bgs		25 ft bgs		50 ft bgs		25 ft BGS		50 ft BGS		50 ft BGS		25 ft bgs	
<i>elev_MLLW</i>	3.07		-6.88		-31.88		-7.34		-32.24		-32.24		-7.33	
<i>elev_NGVD</i>	-3.2		-13.2		-38.2		-13.7		-38.6		-38.6		-13.6	
<i>Parameters</i>	<i>Units CSI WG</i>													
VOAs														
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.086 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	2.5	0.85	0.85	0.85	0.85	0.85	0.85	0.59 J
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.31 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.28 J	0.16 J	0.16 J	0.16 J	0.16 J	0.16 J	0.16 J	0.097 J
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.091 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.63	0.11 J	0.11 J	0.11 J	0.11 J	0.11 J	0.11 J	0.34 J
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.25 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.14 U

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		68-50	69-25	69-50	70-25	70-50	70-50	
<i>Sample ID:</i>		GW-041106-TS-68-50	WG-072712-AMK-69-25-114	GW-041106-TS-69-50	WG-082612-AMK-70-25-115	GW-041506-TS-70-50	GW-041506-TS-FD2	
<i>Sample Date:</i>		4/11/2006	7/27/2012	4/11/2006	8/26/2012	4/15/2006	4/15/2006	
<i>Sample Depth:</i>		50 ft bgs	25 ft BGS	50 ft bgs	25 ft BGS	50 ft bgs	50 ft bgs	
<i>elev_MLLW</i>		-32.35	-8.29	-33.28	-8.17	-33.18	-33.18	
<i>elev_NGVD</i>		-38.7	-14.6	-39.6	-14.5	-39.5	-39.5	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.50 U	0.41 U	0.50 U	0.081 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.50 U	0.41 U	0.50 U	0.082 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	0.086 U	0.12 J	0.43 U	0.50 U	0.086 U	0.086 U
Carbon tetrachloride	µg/L	4.4	0.082 U	0.50 U	0.41 U	0.50 U	0.082 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	0.50 U	0.35 U	0.50 U	0.070 U	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	70	4.5	38	0.37 J	0.062 U	0.062 U
Methylene chloride	µg/L	1600	0.31 U	2.0 U	1.5 U	2.0 U	0.31 U	0.31 U
Tetrachloroethene	µg/L	8.85	0.066 U	0.50 U	0.33 U	0.50 U	0.066 U	0.066 U
trans-1,2-Dichloroethene	µg/L	10000	0.57 J	0.50 U	0.46 U	0.15 J	0.091 U	0.091 U
Trichloroethene	µg/L	81	7.0	0.10 J	0.28 U	0.50 U	0.091 J	0.10 J
Vinyl chloride	µg/L	2.4	1.3	0.50 U	11	0.50 U	0.14 U	0.14 U

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		71-25	71-50	72-25	72-50	73-25	73-50	
<i>Sample ID:</i>		WG-072712-AMK-71-25-116	WG-072712-AMK-71-50-117	GW-041506-TS-72-25	GW-041208-TG-72-50	GW-042106-TS-73-25	GW-042106-TS-73-50	
<i>Sample Date:</i>		7/27/2012	7/27/2012	4/15/2006	12/4/2008	4/21/2006	4/21/2006	
<i>Sample Depth:</i>		25 ft BGS	50 ft BGS	25 ft bgs	50 ft bgs	25 ft bgs	50 ft bgs	
<i>elev_MLLW</i>		-7.86	-32.98	-8.4	-33.51	-8.18	-33.29	
<i>elev_NGVD</i>		-14.2	-39.3	-14.7	-39.8	-14.5	-39.6	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	0.081 U	2.0 U	0.81 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	0.082 U	2.0 U	0.82 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	0.086 U	2.0 U	0.86 U	0.086 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	0.082 U	1.2 U	0.82 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	0.50 U	0.070 U	0.39 J	1.1 J	0.12 J
cis-1,2-Dichloroethene	µg/L	16.00	0.12 J	0.50 U	0.37 J	0.63 J	98	0.98 J
Methylene chloride	µg/L	1600	2.0 U	2.0 U	0.31 U	2.0 U	3.1 U	0.31 U
Tetrachloroethene	µg/L	8.85	0.50 U	0.50 U	0.066 U	0.15 J	0.66 U	0.29 J
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	0.080 J	0.12 J	2.0 U	3.7 J	0.15 J
Trichloroethene	µg/L	81	0.50 U	0.50 U	0.25 J	0.66 J	3.0 J	1.4
Vinyl chloride	µg/L	2.4	0.50 U	0.50 U	0.14 U	2.0 U	310	0.14 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	74-50	74-75	74-100	74-130	75-50	75-75
<i>Sample ID:</i>	WG-082012-PR-74-50-118	WG-082012-PR-74-75-119	WG-082012-PR-74-100-120	GW-082306-ILM-74-130	WG-080912-ALK-75-50-122	WG-080912-ALK-75-75-123
<i>Sample Date:</i>	8/20/2012	8/20/2012	8/20/2012	8/23/2006	8/9/2012	8/9/2012
<i>Sample Depth:</i>	50 ft BGS	75 ft BGS	100 ft BGS	130 ft bgs	50 ft BGS	75 ft BGS
<i>elev_MLLW</i>	-31.94	-56.94	-81.94	-111.9	-31.54	-56.45
<i>elev_NGVD</i>	-38.3	-63.3	-88.3	-118.2	-37.9	-62.8

Parameters *Units CSI WG*

VOAs

Parameter	Unit	74-50	74-75	74-100	74-130	75-50	75-75	
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	0.50 U	20	2.5 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	0.34 J	310 J	2.5 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	0.33 J	94	2.5 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	0.50 U	0.10 U	2.5 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	0.50 U	0.39 J	8900	2.5 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	0.50 U	0.50 U	3.6	29000	2.5 U	0.50 U
Methylene chloride	µg/L	1600	2.0 U	2.0 U	2.0 U	9500	10 U	2.0 U
Tetrachloroethene	µg/L	8.85	0.50 U	0.50 U	0.50 U	240 J	2.5 U	0.18 J
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	0.50 U	1.4	1000	2.5 U	0.50 U
Trichloroethene	µg/L	81	0.50 U	0.50 U	2.7	44000	2.5 U	0.11 J
Vinyl chloride	µg/L	2.4	0.50 U	0.50 U	0.55	2700	2.5 U	0.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		75-100	75-130	76-100	77-100	77-140	77C-25	
<i>Sample ID:</i>		WG-080912-JN-75-100-124	WG-080912-JN-75-130-125	GW-051208-TG-76-100	GW-031208-TG-77-100	GW-042506-TS-77-140	WG-071612-DJT-77C-25-126	
<i>Sample Date:</i>		8/9/2012	8/9/2012	12/5/2008	12/3/2008	4/25/2006	7/16/2012	
<i>Sample Depth:</i>		100 ft BGS	130 ft BGS	100 ft bgs	100 ft bgs	140 ft bgs	25 ft BGS	
<i>elev_MLLW</i>		-81.47	-111.38	-82.49	-85.17	-124.9	-8.9	
<i>elev_NGVD</i>		-87.8	-117.7	-88.8	-91.5	-131.2	-15.2	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	2.0 U	2.0 U	0.41 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	2.0 U	2.0 U	0.41 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	2.0 U	2.0 U	0.95 J	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	1.2 U	1.2 U	0.41 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	0.50 U	0.30 J	2.0 U	0.35 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	0.50 U	0.50 U	2.0 U	7.9	130	3.4
Methylene chloride	µg/L	1600	2.0 U	2.0 U	8.9	2.0 U	1.5 U	2.0 U
Tetrachloroethene	µg/L	8.85	0.50 U	0.50 U	2.0 U	2.0 U	0.33 U	0.64
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	0.50 U	2.0 U	2.0 U	15	0.26 J
Trichloroethene	µg/L	81	0.50 U	0.50 U	2.0 U	2.0 U	51	2.3
Vinyl chloride	µg/L	2.4	0.50 U	0.50 U	2.0 U	2.7	150	0.21 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	77C-50	77C-75	77C-100	77C-130	77C-160
<i>Sample ID:</i>	WG-071612-DJT-77C-50-127	WG-071612-DJT-77C-75-128	WG-071612-DJT-77C-100-129	WG-071612-DJT-77C-130-130	WG-071612-DJT-77C-160-131
<i>Sample Date:</i>	7/16/2012	7/16/2012	7/16/2012	7/16/2012	7/16/2012
<i>Sample Depth:</i>	50 ft BGS	75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS
<i>elev_MLLW</i>	-33.9	-58.9	-83.9	-113.9	-143.9
<i>elev_NGVD</i>	-40.2	-65.2	-90.2	-120.2	-150.2

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	1.9 J	1.7 J	39	250 U	8300 J
1,1,2-Trichloroethane	µg/L	42	5.0 U	1.1 J	7.2 J	250 U	2500 U
1,1-Dichloroethene	µg/L	3.2	1.6 J	2.5 U	10 U	250 U	1300 J
Carbon tetrachloride	µg/L	4.4	5.0 U	2.5 U	10 U	250 U	2500 U
Chloroform (Trichloromethane)	µg/L	470	14	5.6	24	80 J	10000 J
cis-1,2-Dichloroethene	µg/L	16.00	240	150	570	18000	43000
Methylene chloride	µg/L	1600	20 U	10 U	62	1000 U	10000 U
Tetrachloroethene	µg/L	8.85	15	13	19	70 J	6100
trans-1,2-Dichloroethene	µg/L	10000	16	7.8	10	390	5800 J
Trichloroethene	µg/L	81	190	78	130	700	170000 J
Vinyl chloride	µg/L	2.4	120	91	26	14000	2500 J

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>		77C-160	78-25	78-50	78C-25	78C-50	78C-75
<i>Sample ID:</i>		WG-071612-DJT-FD09-306	GW-042506-TS-78-25	GW-042506-TS-78-50	WG-071912-SP-78C-25-132	WG-071912-SP-78C-50-133	WG-071912-SP-78C-75-134
<i>Sample Date:</i>		7/16/2012	4/25/2006	4/25/2006	7/19/2012	7/19/2012	7/19/2012
<i>Sample Depth:</i>		160 ft BGS	25 ft bgs	50 ft bgs	25 ft BGS	50 ft BGS	75 ft BGS
<i>elev_MLLW</i>		-143.9	-8.39	-33.39	-7.2	-32.2	-57.2
<i>elev_NGVD</i>		-150.2	-14.7	-39.7	-13.5	-38.5	-63.5
		(Duplicate)					
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
VOAs							
1,1,2,2-Tetrachloroethane	µg/L 11	5800 J	410 U	0.081 U	0.50 U	0.50 U	5.0 U
1,1,2-Trichloroethane	µg/L 42	1300 U	410 U	0.082 U	0.50 U	0.50 U	5.0 U
1,1-Dichloroethene	µg/L 3.2	1300 J	590 J	0.086 U	0.50 U	0.50 U	5.0 U
Carbon tetrachloride	µg/L 4.4	1300 U	410 U	0.082 U	0.50 U	0.50 U	5.0 U
Chloroform (Trichloromethane)	µg/L 470	7400 J	4400 J	0.070 U	0.50 U	0.34 J	1.0 J
cis-1,2-Dichloroethene	µg/L 16.00	36000	140000	2.0	1.5	0.65	4.8 J
Methylene chloride	µg/L 1600	5000 U	9500	0.31 U	2.0 U	2.0 U	3.1 J
Tetrachloroethene	µg/L 8.85	5200	330 U	0.11 J	0.50 U	0.50 U	5.0 U
trans-1,2-Dichloroethene	µg/L 10000	4600 J	7600	0.94 J	0.50 U	0.19 J	5.0 U
Trichloroethene	µg/L 81	130000 J	13000 J	0.10 J	0.50 U	0.50 U	5.0 U
Vinyl chloride	µg/L 2.4	2100	20000	4.0	2.4	1.4	310

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		78C-100	78C-130	78C-160	80-25	81-50
<i>Sample ID:</i>		WG-071912-SP-78C-100-135	WG-071912-SP-78C-130-136	WG-071912-SP-78C-160-137	WG-072712-AMK-80-25-138	WG-081412-AMK-81-50-139
<i>Sample Date:</i>		7/19/2012	7/19/2012	7/19/2012	7/27/2012	8/14/2012
<i>Sample Depth:</i>		100 ft BGS	130 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS
<i>elev_MLLW</i>		-82.2	-112.2	-142.2	-7.42	-32.02
<i>elev_NGVD</i>		-88.5	-118.5	-148.5	-13.7	-38.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
VOAs						
1,1,2,2-Tetrachloroethane	µg/L	11	250 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	250 U	0.50 U	0.50 U	0.50 UJ
1,1-Dichloroethene	µg/L	3.2	250 U	0.50 U	0.50 U	0.50 UJ
Carbon tetrachloride	µg/L	4.4	250 U	0.50 U	0.50 U	0.50 UJ
Chloroform (Trichloromethane)	µg/L	470	250 U	0.40 J	0.44 J	0.50 UJ
cis-1,2-Dichloroethene	µg/L	16.00	940	2.3	0.31 J	0.50 UJ
Methylene chloride	µg/L	1600	130 J	0.23 J	2.0 U	2.0 UJ
Tetrachloroethene	µg/L	8.85	250 U	0.50 U	0.50 U	0.50 UJ
trans-1,2-Dichloroethene	µg/L	10000	95 J	0.52	0.14 J	0.50 UJ
Trichloroethene	µg/L	81	250 U	0.50 U	0.50 U	0.50 UJ
Vinyl chloride	µg/L	2.4	14000	67	16	0.50 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	82-100	83C-25	83C-50	83C-75	83C-100	
<i>Sample ID:</i>	WG-072912-PR-82-100-140	WG-072512-AK-83C-25-141	WG-072512-AK-83C-50-142	WG-072512-AK-83C-75-143	WG-072512-AK-83C-100-144	
<i>Sample Date:</i>	7/29/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	
<i>Sample Depth:</i>	100 ft BGS	25 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS	
<i>elev_MLLW</i>	-83.5	-7.22	-32.22	-57.22	-82.22	
<i>elev_NGVD</i>	-89.8	-13.5	-38.5	-63.5	-88.5	
<i>Parameters</i>	<i>Units CSI WG</i>					
VOAs						
1,1,2,2-Tetrachloroethane	µg/L 11	2.5 U	5.0 U	50 U	100 U	500 U
1,1,2-Trichloroethane	µg/L 42	2.5 U	5.0 U	50 U	100 U	500 U
1,1-Dichloroethene	µg/L 3.2	2.5 U	5.0 U	9.0 J	100 U	260 J
Carbon tetrachloride	µg/L 4.4	2.5 U	5.0 U	50 U	100 U	500 U
Chloroform (Trichloromethane)	µg/L 470	2.5 U	1.0 J	50 U	24 J	500 U
cis-1,2-Dichloroethene	µg/L 16.00	2.5 U	280	1800 J	2700	23000
Methylene chloride	µg/L 1600	0.95 J	2.7 J	18 J	120 J	590 J
Tetrachloroethene	µg/L 8.85	2.5 U	110	2700 J	770	5200
trans-1,2-Dichloroethene	µg/L 10000	2.5 U	0.90 J	50 U	100 U	120 J
Trichloroethene	µg/L 81	2.5 U	58	520	620	37000
Vinyl chloride	µg/L 2.4	2.5 U	4.0 J	310	4000	22000

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	83C-130	83C-160	84C-25	84C-50	84C-75
<i>Sample ID:</i>	WG-072512-AK-83C-130-145	WG-072512-AK-83C-160-146	WG-071812-DJT-84C-25-147	WG-071812-DJT-84C-50-148	WG-071812-DJT-84C-75-149
<i>Sample Date:</i>	7/25/2012	7/25/2012	7/18/2012	7/18/2012	7/18/2012
<i>Sample Depth:</i>	130 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS	75 ft BGS
<i>elev_MLLW</i>	-112.22	-142.22	-7.56	-32.56	-57.56
<i>elev_NGVD</i>	-118.5	-148.5	-13.9	-38.9	-63.9

Parameters **Units CSI WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L 11	130 U	25 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L 42	130 U	25 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L 3.2	23 J	6.0 J	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L 4.4	130 U	25 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L 470	130 U	4.0 J	0.080 J	0.18 J	0.50
cis-1,2-Dichloroethene	µg/L 16.00	1100	700	0.21 J	0.50 U	0.50 U
Methylene chloride	µg/L 1600	170 J	37 J	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L 8.85	1300	660	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L 10000	50 J	6.5 J	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L 81	6800	1300	0.50 U	0.50 U	0.50 U
Vinyl chloride	µg/L 2.4	150	100	0.29 J	0.50 U	0.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>84C-75</i>	<i>84C-100</i>	<i>84C-130</i>	<i>84C-160</i>	<i>85C-25</i>
<i>Sample ID:</i>		<i>WG-071812-DJT-FD10-307</i>	<i>WG-071812-DJT-84C-100-150</i>	<i>WG-071812-DJT-84C-130-151</i>	<i>WG-071812-DJT-84C-160-152</i>	<i>WG-072012-DJT-85C-25-153</i>
<i>Sample Date:</i>		<i>7/18/2012</i>	<i>7/18/2012</i>	<i>7/18/2012</i>	<i>7/18/2012</i>	<i>7/20/2012</i>
<i>Sample Depth:</i>		<i>75 ft BGS</i>	<i>100 ft BGS</i>	<i>130 ft BGS</i>	<i>160 ft BGS</i>	<i>25 ft BGS</i>
<i>elev_MLLW</i>		<i>-57.56</i>	<i>-82.56</i>	<i>-112.56</i>	<i>-142.56</i>	<i>-6.67</i>
<i>elev_NGVD</i>		<i>-63.9</i>	<i>-88.9</i>	<i>-118.9</i>	<i>-148.9</i>	<i>-13</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
VOAs						
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.50	0.14 J	0.29 J	0.32 J
cis-1,2-Dichloroethene	µg/L	16.00	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	1600	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	0.50 U	0.50 U	0.50 U	0.59
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	81	0.50 U	0.50 U	0.50 U	0.67
Vinyl chloride	µg/L	2.4	0.50 U	0.50 U	0.50 U	0.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>85C-50</i>		<i>85C-75</i>		<i>85C-100</i>		<i>85C-130</i>		<i>85C-160</i>	
<i>Sample ID:</i>	<i>WG-072012-DJT-85C-50-154</i>		<i>WG-072012-DJT-85C-75-155</i>		<i>WG-072012-DJT-85C-100-156</i>		<i>WG-072012-DJT-85C-130-157</i>		<i>WG-072012-DJT-85C-160-158</i>	
<i>Sample Date:</i>	<i>7/20/2012</i>		<i>7/20/2012</i>		<i>7/20/2012</i>		<i>7/20/2012</i>		<i>7/20/2012</i>	
<i>Sample Depth:</i>	<i>50 ft BGS</i>		<i>75 ft BGS</i>		<i>100 ft BGS</i>		<i>130 ft BGS</i>		<i>160 ft BGS</i>	
<i>elev_MLLW</i>	<i>-31.67</i>		<i>-56.67</i>		<i>-81.67</i>		<i>-111.67</i>		<i>-141.67</i>	
<i>elev_NGVD</i>	<i>-38</i>		<i>-63</i>		<i>-88</i>		<i>-118</i>		<i>-148</i>	
<i>Parameters</i>	<i>Units CSI WG</i>									
<i>VOAs</i>										
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	1600	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	81	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	86C-25		86C-50		86C-75		86C-100		86C-130	
<i>Sample ID:</i>	WG-072412-MD-86C-25-159		WG-072412-MD-86C-50-160		WG-072512-MD-86C-75-161		WG-072512-MD-86C-100-170		WG-072512-MD-86C-130-162	
<i>Sample Date:</i>	7/24/2012		7/24/2012		7/25/2012		7/25/2012		7/25/2012	
<i>Sample Depth:</i>	25 ft BGS		50 ft BGS		75 ft BGS		100 ft BGS		130 ft BGS	
<i>elev_MLLW</i>	-7.88		-32.88		-57.88		-82.88		-112.88	
<i>elev_NGVD</i>	-14.2		-39.2		-64.2		-89.2		-119.2	
<i>Parameters</i>	<i>Units CSI WG</i>									
VOAs										
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	5.0 U	0.31 J	0.44 J	0.19 J			
cis-1,2-Dichloroethene	µg/L	16.00	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	1600	2.0 U	3.4 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	81	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	86C-160		87C-25		87C-50		87C-75		87C-100	
<i>Sample ID:</i>	WG-072512-MD-86C-160-163		WG-072412-MD-87C-25-164		WG-072412-MD-87C-50-165		WG-072412-MD-87C-75-166		WG-072412-MD-87C-100-167	
<i>Sample Date:</i>	7/25/2012		7/24/2012		7/24/2012		7/24/2012		7/24/2012	
<i>Sample Depth:</i>	160 ft BGS		25 ft BGS		50 ft BGS		75 ft BGS		100 ft BGS	
<i>elev_MLLW</i>	-142.88		-6.37		-31.37		-56.37		-81.37	
<i>elev_NGVD</i>	-149.2		-12.7		-37.7		-62.7		-87.7	
<i>Parameters</i>	<i>Units CSI WG</i>									
VOAs										
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.24 J	0.50 U	0.55 J	0.50 U	0.50	0.50	0.23 J	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	0.50 U	0.50 U	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	1600	2.0 U	2.0 U	1.1 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	0.50 U	0.50 U	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	0.50 U	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	81	0.50 U	0.50 U	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	0.50 U	0.50 U	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>87C-130</i>		<i>87C-160</i>		<i>88C-25</i>		<i>88C-50</i>		<i>88C-75</i>	
<i>Sample ID:</i>	<i>WG-072412-MD-87C-130-168</i>		<i>WG-072412-MD-87C-160-170</i>		<i>WG-081612-TS-88C-25-171</i>		<i>WG-081612-TS-88C-50-172</i>		<i>WG-081612-TS-88C-75-173</i>	
<i>Sample Date:</i>	<i>7/24/2012</i>		<i>7/24/2012</i>		<i>8/16/2012</i>		<i>8/16/2012</i>		<i>8/16/2012</i>	
<i>Sample Depth:</i>	<i>130 ft BGS</i>		<i>160 ft BGS</i>		<i>25 ft BGS</i>		<i>50 ft BGS</i>		<i>75 ft BGS</i>	
<i>elev_MLLW</i>	<i>-111.37</i>		<i>-141.37</i>		<i>-7.87</i>		<i>-32.87</i>		<i>-57.87</i>	
<i>elev_NGVD</i>	<i>-117.7</i>		<i>-147.7</i>		<i>-14.2</i>		<i>-39.2</i>		<i>-64.2</i>	
<i>Parameters</i>	<i>Units CSI WG</i>									
<i>VOAs</i>										
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.32 J	0.44 J	0.14 J	0.91	1.0			
cis-1,2-Dichloroethene	µg/L	16.00	0.50 U	0.50 U	0.15 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	1600	2.0 U	2.0 U	0.11 J	0.59 J	0.34 J			
Tetrachloroethene	µg/L	8.85	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	81	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	88C-100	88C-130	88C-160	89C-25	89C-50	89C-75	
<i>Sample ID:</i>	WG-081612-TS-88C-100-174	WG-081612-TS-88C-130-175	WG-081612-TS-88C-160-176	WG-082212-PR-89-25-177	WG-082212-PR-89-50-178	WG-082312-PR-89-75-179	
<i>Sample Date:</i>	8/16/2012	8/16/2012	8/16/2012	8/22/2012	8/22/2012	8/23/2012	
<i>Sample Depth:</i>	100 ft BGS	130 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS	75 ft BGS	
<i>elev_MLLW</i>	-82.87	-112.87	-142.87	-5.87	-30.95	-56.08	
<i>elev_NGVD</i>	-89.2	-119.2	-149.2	-12.2	-37.3	-62.4	
<i>Parameters</i>	<i>Units CSI WG</i>						
VOAs							
1,1,2,2-Tetrachloroethane	µg/L 11	0.50 U	0.50 U	0.50 U	25 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L 42	0.50 U	0.50 U	0.50 U	25 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L 3.2	0.50 U	0.50 U	0.50 U	7.5 J	0.090 J	0.50 U
Carbon tetrachloride	µg/L 4.4	0.50 U	0.50 U	0.50 U	25 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L 470	0.19 J	1.1	0.76	25 U	1.8	0.090 J
cis-1,2-Dichloroethene	µg/L 16.00	0.50 U	0.50 U	0.50 U	1200	1.1	0.30 J
Methylene chloride	µg/L 1600	2.0 U	0.58 J	0.40 J	100 U	2.0 U	2.0 U
Tetrachloroethene	µg/L 8.85	0.50 U	0.50 U	0.50 U	25 U	0.25 J	0.50 U
trans-1,2-Dichloroethene	µg/L 10000	0.50 U	0.50 U	0.50 U	310	30	0.14 J
Trichloroethene	µg/L 81	0.50 U	0.50 U	0.50 U	12 J	2.0	0.50 U
Vinyl chloride	µg/L 2.4	0.50 U	0.50 U	0.50 U	660	0.93	0.50 U

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	89C-100		89C-130		90C-25		90C-50		90C-50		90C-75	
<i>Sample ID:</i>	WG-082412-AK-89C-100-180		WG-082412-AK-89C-130-181		WG-072312-AK-90C-25-183		WG-072312-AK-90C-50-184		WG-072312-AK-FD15-312		GW-092513-NH-90C-75	
<i>Sample Date:</i>	8/24/2012		8/24/2012		7/23/2012		7/23/2012		7/23/2012		9/25/2013	
<i>Sample Depth:</i>	100 ft BGS		130 ft BGS		25 ft BGS		50 ft BGS		50 ft BGS			
<i>elev_MLLW</i>	-81.01		-111.01		-7.03		-32.03		-32.03			
<i>elev_NGVD</i>	-87.3		-117.3		-13.4		-38.4		-38.4			
	<i>(Duplicate)</i>											
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	50 U	13 U	13 U	13 U	25 U			
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	50 U	13 U	13 U	13 U	25 U			
1,1-Dichloroethene	µg/L	3.2	0.27 J	0.50 U	10 J	13 U	13 U	13 U	11 J			
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	50 U	13 U	13 U	13 U	25 U			
Chloroform (Trichloromethane)	µg/L	470	1.1	1.2	50 U	5.0 J	5.0 J	5.0 J	25 U			
cis-1,2-Dichloroethene	µg/L	16.00	54	1.1	170	250	280	17000				
Methylene chloride	µg/L	1600	2.0 U	2.0 U	30 J	10 J	7.5 J	9.0 J				
Tetrachloroethene	µg/L	8.85	8.4	0.50 U	40 J	170	170	25 U				
trans-1,2-Dichloroethene	µg/L	10000	1.2	0.50 U	40 J	7.0 J	6.5 J	40				
Trichloroethene	µg/L	81	1.9	0.50 U	120	160	180	7.0 J				
Vinyl chloride	µg/L	2.4	10	0.50 U	3200	700	670	23000				

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	90C-100		90C-130		90C-160		91C-25		91C-50	
<i>Sample ID:</i>	WG-072312-AK-90C-100-186		WG-072312-DJT-90C-130-187		WG-072312-PR-90C-160-188		WG-071812-BW-91C-25-189		WG-071812-BW-91C-50-190	
<i>Sample Date:</i>	7/23/2012		7/23/2012		7/23/2012		7/18/2012		7/18/2012	
<i>Sample Depth:</i>	100 ft BGS		130 ft BGS		160 ft BGS		25 ft BGS		50 ft BGS	
<i>elev_MLLW</i>	-82.03		-112.03		-142.03		-7.53		-32.53	
<i>elev_NGVD</i>	-88.4		-118.4		-148.4		-13.8		-38.8	
Parameters	Units CSI WG									
VOAs										
1,1,2,2-Tetrachloroethane	µg/L	11	25 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 UJ
1,1,2-Trichloroethane	µg/L	42	25 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 UJ
1,1-Dichloroethene	µg/L	3.2	25 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 UJ
Carbon tetrachloride	µg/L	4.4	25 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 UJ
Chloroform (Trichloromethane)	µg/L	470	25 U	0.80 J	2.6	0.080 J	0.080 J	1.1 J	1.1 J	1.1 J
cis-1,2-Dichloroethene	µg/L	16.00	770	5.6	0.69	0.50 U	0.50 U	0.50 UJ	0.50 UJ	0.50 UJ
Methylene chloride	µg/L	1600	11 J	3.1 J	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 UJ	2.0 UJ
Tetrachloroethene	µg/L	8.85	5.0 J	5.0 U	0.21 J	0.50 U	0.50 U	0.50 UJ	0.50 UJ	0.50 UJ
trans-1,2-Dichloroethene	µg/L	10000	25 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 UJ	0.50 UJ
Trichloroethene	µg/L	81	17 J	2.3 J	0.67	0.50 U	0.50 U	0.50 UJ	0.50 UJ	0.50 UJ
Vinyl chloride	µg/L	2.4	380	7.4	2.4	0.40 J	0.40 J	1.1 J	1.1 J	1.1 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		91C-75	91C-100	91C-130	91C-160	92C-25
<i>Sample ID:</i>		WG-071812-BW-91C-75-191	WG-071812-BW-91C-100-192	WG-071812-BW-91C-130-193	WG-071812-BW-91C-160-194	WG-071812-AK-92C-25-196
<i>Sample Date:</i>		7/18/2012	7/18/2012	7/18/2012	7/18/2012	7/18/2012
<i>Sample Depth:</i>		75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS	25 ft BGS
<i>elev_MLLW</i>		-57.53	-82.53	-112.53	-142.53	-8
<i>elev_NGVD</i>		-63.8	-88.8	-118.8	-148.8	-14.3
Parameters	Units	CSI	WG			
VOAs						
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.68 J	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 UJ	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 UJ	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 UJ	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	2.2	1.9 J	1.5	4.0
cis-1,2-Dichloroethene	µg/L	16.00	0.18 J	0.21 J	3.4	2.5
Methylene chloride	µg/L	1600	2.0 U	2.0 UJ	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	0.50 U	0.50 UJ	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	0.50 UJ	0.13 J	0.15 J
Trichloroethene	µg/L	81	0.16 J	0.16 J	0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	1.6	1.2 J	30	38

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		92C-50	92C-75	92C-100	92C-130	92C-160
<i>Sample ID:</i>		WG-071812-AK-92C-50-197	WG-071812-AK-92C-75-198	WG-071812-AK-92C-100-199	WG-071812-AK-92C-130-200	WG-071812-AK-92C-160-201
<i>Sample Date:</i>		7/18/2012	7/18/2012	7/18/2012	7/18/2012	7/18/2012
<i>Sample Depth:</i>		50 ft BGS	75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS
<i>elev_MLLW</i>		-33	-58	-83	-113	-143
<i>elev_NGVD</i>		-39.3	-64.3	-89.3	-119.3	-149.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
VOAs						
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.49 J	0.32 J	0.69	0.63
cis-1,2-Dichloroethene	µg/L	16.00	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	1600	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	81	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	0.50 U	0.50 U	0.50 U	0.50 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>93C-25</i>		<i>93C-50</i>		<i>93C-50</i>		<i>93C-75</i>		<i>93C-100</i>	
<i>Sample ID:</i>	<i>WG-071712-DJT-93C-25-202</i>		<i>WG-071712-DJT-93C-50-203</i>		<i>WG-071712-DJT-FD14-311</i>		<i>WG-071712-DJT-93C-75-204</i>		<i>WG-071712-DJT-93C-100-205</i>	
<i>Sample Date:</i>	<i>7/17/2012</i>		<i>7/17/2012</i>		<i>7/17/2012</i>		<i>7/17/2012</i>		<i>7/17/2012</i>	
<i>Sample Depth:</i>	<i>25 ft BGS</i>		<i>50 ft BGS</i>		<i>50 ft BGS</i>		<i>75 ft BGS</i>		<i>100 ft BGS</i>	
<i>elev_MLLW</i>	<i>-7.56</i>		<i>-32.56</i>		<i>-32.56</i>		<i>-57.56</i>		<i>-82.56</i>	
<i>elev_NGVD</i>	<i>-13.9</i>		<i>-38.9</i>		<i>-38.9</i>		<i>-63.9</i>		<i>-88.9</i>	
<i>Parameters</i>	<i>Units</i>		<i>CSI</i>		<i>WG</i>					
VOAs										
1,1,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	0.16 J	0.17 J	0.17 J	0.080 J	0.080 J	0.17 J	0.17 J
cis-1,2-Dichloroethene	µg/L	16.00	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	1600	2.0 U	0.17 J	0.18 J	0.18 J	0.16 J	0.16 J	0.28 J	0.28 J
Tetrachloroethene	µg/L	8.85	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	81	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

Sample Location:	93C-130	93C-160	94C-25	94C-50	94C-75	94C-100
Sample ID:	WG-071712-DJT-93C-130-206	WG-071712-DJT-93C-160-207	WG-072412-DJT-94C-25-209	WG-072412-DJT-94C-50-210	GW-092413-NH-94C-75	GW-092413-NH-94C-100
Sample Date:	7/17/2012	7/17/2012	7/24/2012	7/24/2012	9/24/2013	9/24/2013
Sample Depth:	130 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS		
elev_MLLW	-112.56	-142.56	-7.39	-32.39		
elev_NGVD	-118.9	-148.9	-13.7	-38.7		

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	0.50 U	2.5 U	0.50 U	100 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	0.50 U	2.5 U	1.0	160
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	0.50 U	1.5 J	16	210
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	0.50 U	2.5 U	0.50 U	100 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	0.090 J	0.50 U	1.5 J	3.4	90 J
cis-1,2-Dichloroethene	µg/L	16.00	0.50 U	0.50 U	7.7	47	3300	68000
Methylene chloride	µg/L	1600	0.27 J	2.0 U	2.0 U	1.4 J	0.18 J	30 J
Tetrachloroethene	µg/L	8.85	0.50 U	0.50 U	0.43 J	65	11	5000
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	0.50 U	0.85	2.2 J	65	680
Trichloroethene	µg/L	81	0.50 U	0.50 U	1.2	150	20	2500
Vinyl chloride	µg/L	2.4	0.50 U	0.50 U	0.11 J	33	3500	49000

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>94C-130</i>	<i>94C-160</i>	<i>95-15</i>	<i>95C-25</i>	<i>95C-50</i>	<i>95C-75</i>
<i>Sample ID:</i>	<i>GW-092413-NH-94C-130</i>	<i>WG-072412-DJT-94C-160-214</i>	<i>WG-082512-PR-95-15-215</i>	<i>WG-071912-DJT-95C-25-216</i>	<i>WG-071912-DJT-95C-50-217</i>	<i>WG-071912-DJT-95C-75-218</i>
<i>Sample Date:</i>	<i>9/24/2013</i>	<i>7/24/2012</i>	<i>8/25/2012</i>	<i>7/19/2012</i>	<i>7/19/2012</i>	<i>7/19/2012</i>
<i>Sample Depth:</i>		<i>160 ft BGS</i>	<i>15 ft BGS</i>	<i>25 ft BGS</i>	<i>50 ft BGS</i>	<i>75 ft BGS</i>
<i>elev_MLLW</i>		<i>-142.39</i>	<i>2.22</i>	<i>-7.78</i>	<i>-32.78</i>	<i>-57.78</i>
<i>elev_NGVD</i>		<i>-148.7</i>	<i>-4.1</i>	<i>-14.1</i>	<i>-39.1</i>	<i>-64.1</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	25 U	13 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	25 U	13 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	49	5.0 J	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	25 U	13 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	11 J	13 U	0.50 U	0.18 J	0.16 J	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	12000	120	0.30 J	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	1600	12 J	5.3 J	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	84	220	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	46	4.5 J	0.59	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	81	1400	750	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	2700	12 J	0.54	0.50 U	0.50 U	0.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	95C-100	95C-130	95C-160	5106-1	5106-1	5106-1
Sample ID:	WG-071912-DJT-95C-100-219	WG-071912-DJT-95C-130-220	WG-071912-DJT-95C-160-221	GW-092705-5106-1-001	GW-092705-5106-1-002	GW-092705-5106-1-003
Sample Date:	7/19/2012	7/19/2012	7/19/2012	9/27/2005	9/27/2005	9/27/2005
Sample Depth:	100 ft BGS	130 ft BGS	160 ft BGS	6 to 9 ft bml	10 to 13 ft bml	15 to 18 ft bml
elev_MLLW	-82.78	-112.78	-142.78	-48.3 to -51.3	-52.3 to -55.3	-57.3 to -60.3
elev_NGVD	-89.1	-119.1	-149.1	-54.6 to -57.6	-58.6 to -61.6	-63.6 to -66.6

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	0.50 U	100 U	340 UJ	340 UJ
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	0.50 U	450 U	314 U	314 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	0.50 U	1470 J	1410 J	1030 J
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	0.50 U	750 U	485 U	485 U
Chloroform (Trichloromethane)	µg/L	470	0.27 J	0.35 J	0.16 J	200 UJ	7230	4200 J
cis-1,2-Dichloroethene	µg/L	16.00	0.50 U	0.50 U	0.50 U	132000 J	204000	227000
Methylene chloride	µg/L	1600	2.0 U	2.0 U	2.0 U	450 UJ	376 U	376 U
Tetrachloroethene	µg/L	8.85	0.50 U	0.50 U	0.50 U	150 U	289 U	289 U
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	0.50 U	0.50 U	2140 J	3330 J	2240 J
Trichloroethene	µg/L	81	0.50 U	0.50 U	0.50 U	18200	321 UJ	321 U
Vinyl chloride	µg/L	2.4	0.50 U	0.50 U	0.50 U	52000 J	20900	92900

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-1		5106-1		5106-1		5106-1		5106-1		5106-1	
<i>Sample ID:</i>	GW-092705-5106-1-004		GW-092705-5106-1-005		GW-092705-5106-1-006		GW-092705-5106-1-007		GW-092705-5106-1-008		GW-092705-5106-1-009	
<i>Sample Date:</i>	9/27/2005		9/27/2005		9/27/2005		9/27/2005		9/27/2005		9/27/2005	
<i>Sample Depth:</i>	20 to 23 ft bml		25 to 28 ft bml		30 to 33 ft bml		35 to 38 ft bml		35 to 38 ft bml		40 to 43 ft bml	
<i>elev_MLLW</i>	-62.3 to -65.3		-67.3 to -70.3		-72.3 to -75.3		-77.3 to -80.3		-77.3 to -80.3		-82.3 to -85.3	
<i>elev_NGVD</i>	-68.6 to -71.6		-73.6 to -76.6		-78.6 to -81.6		-83.6 to -86.6		-83.6 to -86.6		-88.6 to -91.6	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	340 U	340 U	340 U	340 UJ	340 UJ	340 UJ	340 UJ	340 UJ	340 UJ	136 UJ
1,1,2-Trichloroethane	µg/L	42	314 U	314 U	314 U	314 U	314 U	314 U	314 U	314 U	314 U	125 U
1,1-Dichloroethene	µg/L	3.2	298 U	298 U	298 U	1870 J	1910 J	1790 J	1870 J	1910 J	1790 J	1790 J
Carbon tetrachloride	µg/L	4.4	485 U	485 U	485 U	485 U	485 U	485 U	485 U	485 U	485 U	194 U
Chloroform (Trichloromethane)	µg/L	470	359 U	359 U	359 U	359 U	359 U	359 U	359 U	359 U	359 U	143 U
cis-1,2-Dichloroethene	µg/L	16.00	217 UJ	179000	107000	209000	207000	84500	179000	207000	84500	84500
Methylene chloride	µg/L	1600	376 U	376 U	376 U	376 U	376 U	376 U	376 U	376 U	376 U	150 U
Tetrachloroethene	µg/L	8.85	289 U	3940 J	4500 J	289 U	289 U	289 U	289 U	289 U	289 U	116 U
trans-1,2-Dichloroethene	µg/L	10000	292 U	459 J	365 J	808 J	292 U	292 U	292 U	292 U	292 U	545 J
Trichloroethene	µg/L	81	321 U	158000	214000	321 U	321 U	68800	321 U	321 U	321 U	68800
Vinyl chloride	µg/L	2.4	327000	219000	171000	72300	70400	44700	70400	70400	70400	44700

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	5106-1	5106-1	5106-1	5106-1	5106-1	5106-1
Sample ID:	GW-092705-5106-1-010	GW-092805-5106-1-011	GW-092805-5106-1-012	GW-092805-5106-1-013	GW-092805-5106-1-014	GW-092805-5106-1-015
Sample Date:	9/27/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005
Sample Depth:	45 to 48 ft bml	50 to 53 ft bml	55 to 58 ft bml	60 to 63 ft bml	65 to 68 ft bml	70 to 73 ft bml
elev_MLLW	-87.3 to -90.3	-92.3 to -95.3	-97.3 to -100.3	-102.3 to -105.3	-107.3 to -110.3	-112.3 to -115.3
elev_NGVD	-93.6 to -96.6	-98.6 to -101.6	-103.6 to -106.6	-108.6 to -111.6	-113.6 to -116.6	-118.6 to -121.6

Parameters

Units CSI WG

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	68 UJ	34 U	136 UJ	2 U	1 U	2 U
1,1,2-Trichloroethane	µg/L	42	62.7 U	31.4 U	125 U	48.4 J	17 J	9 U
1,1-Dichloroethene	µg/L	3.2	899 J	1080	119 U	58.8 J	17.1 J	5 U
Carbon tetrachloride	µg/L	4.4	97 U	48.5 U	194 U	15 U	7.5 U	15 U
Chloroform (Trichloromethane)	µg/L	470	71.7 U	35.9 U	143 U	4 U	2 U	4 U
cis-1,2-Dichloroethene	µg/L	16.00	48600	21300	86.6 UJ	4460	4060	13300
Methylene chloride	µg/L	1600	75.2 U	37.6 U	150 UJ	9 U	4.5 U	9 U
Tetrachloroethene	µg/L	8.85	416 J	11200	23200	1780	913	116
trans-1,2-Dichloroethene	µg/L	10000	348 J	247 J	117 U	33.5 J	10.2 J	12.1 J
Trichloroethene	µg/L	81	42800	177000 J	82800	17500	3790	361
Vinyl chloride	µg/L	2.4	5040	796	121 U	27.9	21.6	65.6

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-1		5106-1		5106-1		5106-1		5106-1		5106-2	
<i>Sample ID:</i>	GW-092805-5106-1-016		GW-092805-5106-1-017		GW-092805-5106-1-018		GW-092805-5106-1-019		GW-092905-5106-1-020		GW-013006-5106-2-001	
<i>Sample Date:</i>	9/28/2005		9/28/2005		9/28/2005		9/29/2005		9/29/2005		1/30/2006	
<i>Sample Depth:</i>	75 to 78 ft bml		80 to 83 ft bml		85 to 88 ft bml		90 to 93 ft bml		95 to 98 ft bml		0 to 3 ft bml	
<i>elev_MLLW</i>	-117.3 to -120.3		-122.3 to -125.3		-127.3 to -130.3		-132.3 to -135.3		-137.3 to -140.3		-44.6 to -47.6	
<i>elev_NGVD</i>	-123.6 to -126.6		-128.6 to -131.6		-133.6 to -136.6		-138.6 to -141.6		-143.6 to -146.6		-50.9 to -53.9	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.4 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	5.0	
1,1,2-Trichloroethane	µg/L	42	1.8 U	0.09 U	0.045 U	0.045 U	0.045 U	0.113 J	0.113 J	0.113 J	7.3	
1,1-Dichloroethene	µg/L	3.2	3.1 J	0.362 J	0.0615 J	0.0815 J	0.0815 J	0.323 J	0.323 J	0.323 J	26 J	
Carbon tetrachloride	µg/L	4.4	3 U	0.15 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.10 U	
Chloroform (Trichloromethane)	µg/L	470	0.8 U	0.154 J	0.02 U	0.02 U	0.02 U	0.191 J	0.191 J	0.191 J	120	
cis-1,2-Dichloroethene	µg/L	16.00	4010	150	6.99	8.21	8.21	30.5	30.5	30.5	4300	
Methylene chloride	µg/L	1600	1.8 U	0.09 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.35 U	
Tetrachloroethene	µg/L	8.85	0.6 U	1.63	0.156 J	0.353 J	0.353 J	2.38	2.38	2.38	940 J	
trans-1,2-Dichloroethene	µg/L	10000	7.58 J	0.702 J	0.083 J	0.0885 J	0.0885 J	0.301 J	0.301 J	0.301 J	35 J	
Trichloroethene	µg/L	81	13.4 J	20.9	2.64	4.66	4.66	41.8	41.8	41.8	9000	
Vinyl chloride	µg/L	2.4	73.3	14.6	2.05	2.86	2.86	6.69	6.69	6.69	450	

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	5106-2	5106-2	5106-2	5106-2	5106-2	5106-2
Sample ID:	GW-013006-5106-2-002	GW-013006-5106-2-003	GW-013006-5106-2-004	GW-013006-5106-2-005	GW-013006-5106-2-006	GW-013106-5106-2-007
Sample Date:	1/30/2006	1/30/2006	1/30/2006	1/30/2006	1/30/2006	1/31/2006
Sample Depth:	4 to 7 ft bml	14 to 17 ft bml	24 to 27 ft bml	34 to 37 ft bml	44 to 47 ft bml	54 to 57 ft bml
elev_MLLW	-48.6 to -51.6	-58.6 to -61.6	-68.6 to -71.6	-78.6 to -81.6	-88.6 to -91.6	-98.6 to -101.6
elev_NGVD	-54.9 to -57.9	-64.9 to -67.9	-74.9 to -77.9	-84.9 to -87.9	-94.9 to -97.9	-104.9 to -107.9

Parameters

Units CSI WG

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	140	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	620 J	24 J	10000	630	240	18
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	4800	2.3 J	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	130000	210 J	630000	11000	1700	2000
Methylene chloride	µg/L	1600	0.35 U	0.35 U	20	3.1 J	1.2 J	0.35 U
Tetrachloroethene	µg/L	8.85	260 J	42 J	100000	25000	15000	6100
trans-1,2-Dichloroethene	µg/L	10000	1200 J	590 J	350	170	78	18
Trichloroethene	µg/L	81	23000	160 J	250000	150000	140000	13000
Vinyl chloride	µg/L	2.4	47000	220000	870000	4400	260	0.23 U

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-2	5106-2	5106-2	5106-2	5106-2	5106-2
<i>Sample ID:</i>		GW-013106-5106-2-008	GW-013106-5106-2-009	GW-013106-5106-2-010	GW-013106-5106-2-011	GW-013106-5106-2-012	GW-013106-5106-2-013
<i>Sample Date:</i>		1/31/2006	1/31/2006	1/31/2006	1/31/2006	1/31/2006	1/31/2006
<i>Sample Depth:</i>		64 to 67 ft bml	64 to 67 ft bml	74 to 77 ft bml	84 to 87 ft bml	94 to 97 ft bml	104 to 107 ft bml
<i>elev_MLLW</i>		-108.6 to -111.6	-108.6 to -111.6	-118.6 to -121.6	-128.6 to -131.6	-138.6 to -141.6	-148.6 to -151.6
<i>elev_NGVD</i>		-114.9 to -117.9	-114.9 to -117.9	-124.9 to -127.9	-134.9 to -137.9	-144.9 to -147.9	-154.9 to -157.9
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
VOAs							
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	23	26	5.2	1.6 J	5.9
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	1.7 J
cis-1,2-Dichloroethene	µg/L	16.00	750	810	15000	220	310
Methylene chloride	µg/L	1600	0.35 U	0.35 UJ	0.35 UJ	0.35 UJ	0.35 U
Tetrachloroethene	µg/L	8.85	13000	17000	0.15 U	0.15 U	110
trans-1,2-Dichloroethene	µg/L	10000	12	13	48	2.0 J	2.2 J
Trichloroethene	µg/L	81	15000	18000	0.16 UJ	0.16 UJ	1100
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	90	230 J	180
							21

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-3	5106-3	5106-3	5106-3	5106-3	5106-3
Sample ID:	GW-091905-5106-3-001	GW-091905-5106-3-002	GW-091905-5106-3-003	GW-091905-5106-3-004	GW-091905-5106-3-005	GW-092005-5106-3-006
Sample Date:	9/19/2005	9/19/2005	9/19/2005	9/19/2005	9/19/2005	9/20/2005
Sample Depth:	4 to 7 ft bml	9 to 12 ft bml	14 to 17 ft bml	19 to 22 ft bml	25 to 28 ft bml	29 to 32 ft bml
elev_MLLW	-46 to -49	-51 to -54	-56 to -59	-61 to -64	-67 to -70	-71 to -74
elev_NGVD	-52.3 to -55.3	-57.3 to -60.3	-62.3 to -65.3	-67.3 to -70.3	-73.3 to -76.3	-77.3 to -80.3

Parameters**Units CSI WG****VOAs**

1,1,2,2-Tetrachloroethane	µg/L	11	100 U	20 U	10 U	0.1 U	0.04 U	0.4 U
1,1,2-Trichloroethane	µg/L	42	450 U	90 U	45 U	0.45 U	0.18 U	1.8 U
1,1-Dichloroethene	µg/L	3.2	250 U	165 J	91.5 J	2.01 J	0.26 J	5 J
Carbon tetrachloride	µg/L	4.4	750 U	150 U	75 U	0.875 J	0.3 U	3 U
Chloroform (Trichloromethane)	µg/L	470	200 U	40 UJ	20 U	1.1 J	0.08 U	0.8 UJ
cis-1,2-Dichloroethene	µg/L	16.00	3960	69500 J	16400 J	220 J	49.6	1350 J
Methylene chloride	µg/L	1600	450 U	90 UJ	45 UJ	0.45 UJ	0.18 U	1.8 UJ
Tetrachloroethene	µg/L	8.85	150 U	30 U	243	4.44	2.05	2.6 J
trans-1,2-Dichloroethene	µg/L	10000	200 U	241 J	20 UJ	1.02 J	0.342 J	0.8 UJ
Trichloroethene	µg/L	81	200 U	40 U	8950	67.8	17.7	11.9
Vinyl chloride	µg/L	2.4	274000	57500 J	17200 J	376 J	80.6	1 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-3</i>		<i>5106-3</i>		<i>5106-3</i>		<i>5106-3</i>		<i>5106-3</i>		<i>5106-3</i>	
<i>Sample ID:</i>	<i>GW-092005-5106-3-007</i>		<i>GW-092105-5106-3-015</i>		<i>GW-092105-5106-3-016</i>		<i>GW-092105-5106-3-017</i>		<i>GW-092105-5106-3-018</i>		<i>GW-092105-5106-3-019</i>	
<i>Sample Date:</i>	<i>9/20/2005</i>		<i>9/21/2005</i>		<i>9/21/2005</i>		<i>9/21/2005</i>		<i>9/21/2005</i>		<i>9/21/2005</i>	
<i>Sample Depth:</i>	<i>35 to 38 ft bml</i>		<i>74 to 77 ft bml</i>		<i>79 to 82 ft bml</i>		<i>79 to 82 ft bml</i>		<i>84 to 87 ft bml</i>		<i>89 to 92 ft bml</i>	
<i>elev_MLLW</i>	<i>-77 to -80</i>		<i>-116 to -119</i>		<i>-121 to -124</i>		<i>-121 to -124</i>		<i>-126 to -129</i>		<i>-131 to -134</i>	
<i>elev_NGVD</i>	<i>-83.3 to -86.3</i>		<i>-122.3 to -125.3</i>		<i>-127.3 to -130.3</i>		<i>-127.3 to -130.3</i>		<i>-132.3 to -135.3</i>		<i>-137.3 to -140.3</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.45 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.605 J	0.025 UJ	0.025 UJ	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L	4.4	0.75 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.2 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	118 J	0.227 J	0.015 UJ	0.015 UJ	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
Methylene chloride	µg/L	1600	0.45 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.2 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Trichloroethene	µg/L	81	1.43	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vinyl chloride	µg/L	2.4	0.25 UJ	0.276 J	0.025 UJ	0.025 UJ	0.025 U	0.025 U	0.025 U	0.591	0.591	0.794

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-3		5106-3		5106-3		5106-3		5106-3		5106-5	
<i>Sample ID:</i>	GW-092105-5106-3-020		GW-092205-5106-3-021		GW-092205-5106-3-022		GW-092205-5106-3-023		GW-092205-5106-3-024		GW-090905-5106-5-001	
<i>Sample Date:</i>	9/21/2005		9/22/2005		9/22/2005		9/22/2005		9/22/2005		9/9/2005	
<i>Sample Depth:</i>	94 to 97 ft bml		99 to 102 ft bml		104 to 107 ft bml		109 to 112 ft bml		114 to 117 ft bml		4 to 7 ft bml	
<i>elev_MLLW</i>	-136 to -139		-141 to -144		-146 to -149		-151 to -154		-156 to -159		-46.1 to -49.1	
<i>elev_NGVD</i>	-142.3 to -145.3		-147.3 to -150.3		-152.3 to -155.3		-157.3 to -160.3		-162.3 to -165.3		-52.4 to -55.4	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	6.8 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	9.39 U
1,1-Dichloroethene	µg/L	3.2	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	17.7 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	13.7 U
Chloroform (Trichloromethane)	µg/L	470	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	18.1 U
cis-1,2-Dichloroethene	µg/L	16.00	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.393 J	0.062 J	0.062 J	0.062 J	0.062 J	599
Methylene chloride	µg/L	1600	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	15.5 U
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	136
trans-1,2-Dichloroethene	µg/L	10000	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	14.5 U
Trichloroethene	µg/L	81	0.02 U	0.02 U	0.02 U	0.02 U	0.131 J	0.02 U	0.02 U	0.02 U	0.02 U	3390 J
Vinyl chloride	µg/L	2.4	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.398 J	0.14 J	0.14 J	0.14 J	0.14 J	163

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>5106-5</i>	<i>5106-5</i>	<i>5106-5</i>	<i>5106-5</i>	<i>5106-5</i>	<i>5106-5</i>	
<i>Sample ID:</i>		<i>GW-090905-5106-5-002</i>	<i>GW-090905-5106-5-003</i>	<i>GW-090905-5106-5-004</i>	<i>GW-090905-5106-5-005</i>	<i>GW-090905-5106-5-006</i>	<i>GW-090905-5106-5-007</i>	
<i>Sample Date:</i>		<i>9/9/2005</i>	<i>9/9/2005</i>	<i>9/9/2005</i>	<i>9/9/2005</i>	<i>9/9/2005</i>	<i>9/9/2005</i>	
<i>Sample Depth:</i>		<i>9 to 12 ft bml</i>	<i>14 to 17 ft bml</i>	<i>19 to 22 ft bml</i>	<i>24 to 27 ft bml</i>	<i>29 to 32 ft bml</i>	<i>34 to 37 ft bml</i>	
<i>elev_MLLW</i>		<i>-51.1 to -54.1</i>	<i>-56.1 to -59.1</i>	<i>-61.1 to -64.1</i>	<i>-66.1 to -69.1</i>	<i>-71.1 to -74.1</i>	<i>-76.1 to -79.1</i>	
<i>elev_NGVD</i>		<i>-57.4 to -60.4</i>	<i>-62.4 to -65.4</i>	<i>-67.4 to -70.4</i>	<i>-72.4 to -75.4</i>	<i>-77.4 to -80.4</i>	<i>-82.4 to -85.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	6.8 U	68 U	1.36 U	0.68 U	0.68 UJ	0.34 UJ
1,1,2-Trichloroethane	µg/L	42	9.39 U	93.9 U	1.88 U	0.939 U	0.939 UJ	0.47 UJ
1,1-Dichloroethene	µg/L	3.2	17.7 U	177 U	3.54 U	1.77 U	1.77 UJ	0.885 UJ
Carbon tetrachloride	µg/L	4.4	13.7 U	137 U	2.74 U	1.37 U	1.37 UJ	0.685 UJ
Chloroform (Trichloromethane)	µg/L	470	18.1 U	181 U	3.62 U	1.81 U	1.81 UJ	0.905 UJ
cis-1,2-Dichloroethene	µg/L	16.00	641	2210	415	35.1	31.6 J	11.8 J
Methylene chloride	µg/L	1600	15.5 U	155 U	3.1 U	1.55 U	1.55 UJ	0.775 UJ
Tetrachloroethene	µg/L	8.85	346	1010	3.41 J	3.76 J	1.44 UJ	0.72 UJ
trans-1,2-Dichloroethene	µg/L	10000	14.5 U	145 U	2.9 U	1.45 U	1.45 UJ	0.725 UJ
Trichloroethene	µg/L	81	3230 J	28200	1140 J	268 J	165 J	29.4 J
Vinyl chloride	µg/L	2.4	24.4 J	162 U	6.48 J	1.62 U	1.62 UJ	0.81 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-5</i>		<i>5106-5</i>		<i>5106-5</i>		<i>5106-5</i>		<i>5106-5</i>			
<i>Sample ID:</i>	<i>GW-090905-5106-5-008</i>		<i>GW-090905-5106-5-009</i>		<i>GW-090905-5106-5-010</i>		<i>GW-090905-5106-5-011</i>		<i>GW-091005-5106-5-012</i>		<i>GW-091005-5106-5-013</i>	
<i>Sample Date:</i>	<i>9/9/2005</i>		<i>9/9/2005</i>		<i>9/9/2005</i>		<i>9/9/2005</i>		<i>9/10/2005</i>		<i>9/10/2005</i>	
<i>Sample Depth:</i>	<i>39 to 42 ft bml</i>		<i>44 to 47 ft bml</i>		<i>49 to 52 ft bml</i>		<i>54 to 57 ft bml</i>		<i>59 to 61 ft bml</i>		<i>64 to 67 ft bml</i>	
<i>elev_MLLW</i>	<i>-81.1 to -84.1</i>		<i>-86.1 to -89.1</i>		<i>-91.1 to -94.1</i>		<i>-96.1 to -99.1</i>		<i>-101.1 to -103.1</i>		<i>-106.1 to -109.1</i>	
<i>elev_NGVD</i>	<i>-87.4 to -90.4</i>		<i>-92.4 to -95.4</i>		<i>-97.4 to -100.4</i>		<i>-102.4 to -105.4</i>		<i>-107.4 to -109.4</i>		<i>-112.4 to -115.4</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 UJ	0.068 U	0.068 U	0.068 UJ	0.068 UJ	0.068 UJ	0.068 UJ	0.068 UJ	0.068 UJ
1,1,2-Trichloroethane	µg/L	42	0.0939 U	0.0939 UJ	0.0939 U	0.0939 U	0.0939 UJ	0.0939 UJ	0.0939 UJ	0.0939 UJ	0.0939 UJ	0.0939 UJ
1,1-Dichloroethene	µg/L	3.2	0.177 U	0.177 UJ	0.177 U	0.177 U	0.177 UJ	0.177 UJ	0.177 UJ	0.177 UJ	0.177 UJ	0.177 UJ
Carbon tetrachloride	µg/L	4.4	0.137 U	0.137 UJ	0.137 U	0.137 U	0.137 UJ	0.137 UJ	0.137 UJ	0.137 UJ	0.137 UJ	0.137 UJ
Chloroform (Trichloromethane)	µg/L	470	0.181 U	0.181 UJ	0.181 U	0.181 U	0.181 UJ	0.181 UJ	0.181 UJ	0.181 UJ	0.181 UJ	0.181 UJ
cis-1,2-Dichloroethene	µg/L	16.00	8.01	3.22 J	3.93	3.17	1.85 J	1.85 J	1.85 J	1.85 J	1.85 J	1.85 J
Methylene chloride	µg/L	1600	0.155 U	0.155 UJ	0.155 U	0.155 U	0.155 UJ	0.155 UJ	0.155 UJ	0.155 UJ	0.155 UJ	0.155 UJ
Tetrachloroethene	µg/L	8.85	0.285 J	0.144 UJ	0.23 J	0.144 U	0.144 U	0.144 UJ	0.144 UJ	0.144 UJ	0.144 UJ	0.144 UJ
trans-1,2-Dichloroethene	µg/L	10000	0.145 U	0.145 UJ	0.145 U	0.145 U	0.145 UJ	0.145 UJ	0.145 UJ	0.145 UJ	0.145 UJ	0.145 UJ
Trichloroethene	µg/L	81	45.9	15.7 J	21.9	16.6	9.22 J	9.22 J	9.22 J	9.22 J	9.22 J	9.22 J
Vinyl chloride	µg/L	2.4	0.217 J	0.162 UJ	0.18 J	0.162 U	0.162 UJ	0.162 UJ	0.162 UJ	0.162 UJ	0.162 UJ	0.162 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-5		5106-5		5106-5		5106-6		5106-6		5106-6	
<i>Sample ID:</i>	GW-091205-5106-5-014		GW-091205-5106-5-015		GW-091205-5106-5-016		GW-101705-5106-6-001		GW-101705-5106-6-002		GW-101705-5106-6-003	
<i>Sample Date:</i>	9/12/2005		9/12/2005		9/12/2005		10/17/2005		10/17/2005		10/17/2005	
<i>Sample Depth:</i>	69 to 72 ft bml		74 to 77 ft bml		79 to 82 ft bml		8 to 11 ft bml		13 to 16 ft bml		18 to 21 ft bml	
<i>elev_MLLW</i>	-111.1 to -114.1		-116.1 to -119.1		-121.1 to -124.1		-50.6 to -53.6		-55.6 to -58.6		-60.6 to -63.6	
<i>elev_NGVD</i>	-117.4 to -120.4		-122.4 to -125.4		-127.4 to -130.4		-56.9 to -59.9		-61.9 to -64.9		-66.9 to -69.9	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	2.70 U	2.70 U	2.70 U	2.70 U	2.70 U	2.70 U	2.70 U
1,1,2-Trichloroethane	µg/L	42	0.0939 U	0.0939 U	0.0939 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	µg/L	3.2	0.177 U	0.177 U	0.177 U	20	4.8 J	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Carbon tetrachloride	µg/L	4.4	0.137 U	0.137 U	0.137 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloroform (Trichloromethane)	µg/L	470	0.181 U	0.181 U	0.181 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U
cis-1,2-Dichloroethene	µg/L	16.00	3.32	5.46	2.87 J	2400	860	37	2400	860	37	2400
Methylene chloride	µg/L	1600	0.155 U	0.155 U	0.155 U	12	6.0	5.0	12	6.0	5.0	12
Tetrachloroethene	µg/L	8.85	0.205 J	0.542 J	0.144 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
trans-1,2-Dichloroethene	µg/L	10000	0.145 U	0.145 U	0.145 U	13	5.7	1.90 U	13	5.7	1.90 U	13
Trichloroethene	µg/L	81	14.8	30.6 J	10.6 J	1200	80	6.2	1200	80	6.2	1200
Vinyl chloride	µg/L	2.4	0.162 U	0.218 J	0.162 U	87	40	2.6 J	87	40	2.6 J	87

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-6</i>		<i>5106-6</i>		<i>5106-6</i>		<i>5106-6</i>		<i>5106-6</i>			
<i>Sample ID:</i>	<i>GW-101705-5106-6-004</i>		<i>GW-101705-5106-6-005</i>		<i>GW-101805-5106-6-006</i>		<i>GW-101805-5106-6-007</i>		<i>GW-101805-5106-6-008</i>		<i>GW-101805-5106-6-009</i>	
<i>Sample Date:</i>	<i>10/17/2005</i>		<i>10/17/2005</i>		<i>10/18/2005</i>		<i>10/18/2005</i>		<i>10/18/2005</i>		<i>10/18/2005</i>	
<i>Sample Depth:</i>	<i>23 to 26 ft bml</i>		<i>23 to 26 ft bml</i>		<i>28 to 31 ft bml</i>		<i>33 to 36 ft bml</i>		<i>38 to 41 ft bml</i>		<i>43 to 46 ft bml</i>	
<i>elev_MLLW</i>	<i>-65.6 to -68.6</i>		<i>-65.6 to -68.6</i>		<i>-70.6 to -73.6</i>		<i>-75.6 to -78.6</i>		<i>-80.6 to -83.6</i>		<i>-85.6 to -88.6</i>	
<i>elev_NGVD</i>	<i>-71.9 to -74.9</i>		<i>-71.9 to -74.9</i>		<i>-76.9 to -79.9</i>		<i>-81.9 to -84.9</i>		<i>-86.9 to -89.9</i>		<i>-91.9 to -94.9</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	2.70 U	2.70 U	2.70 U	0.27 U	2.70 UJ	2.70 UJ	2.70 U	2.70 U	2.70 U	2.70 U
1,1,2-Trichloroethane	µg/L	42	2.0 U	2.0 U	2.0 U	0.2 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	µg/L	3.2	3.00 U	3.00 U	3.00 U	0.30 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Carbon tetrachloride	µg/L	4.4	1.00 U	1.00 U	1.00 U	0.10 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloroform (Trichloromethane)	µg/L	470	1.60 U	1.60 U	1.60 U	0.16 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U
cis-1,2-Dichloroethene	µg/L	16.00	1.60 U	1.60 U	1.60 U	0.16 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U
Methylene chloride	µg/L	1600	4.5 J	5.7	6.8	6.6	3.50 U	5.7	5.7	5.7	5.7	5.7
Tetrachloroethene	µg/L	8.85	1.50 U	1.50 U	1.50 U	0.15 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
trans-1,2-Dichloroethene	µg/L	10000	1.90 U	1.90 U	1.90 U	0.19 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U
Trichloroethene	µg/L	81	1.60 U	1.60 U	1.60 U	0.16 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U
Vinyl chloride	µg/L	2.4	2.30 U	2.30 U	2.30 U	0.23 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-6</i>		<i>5106-6</i>		<i>5106-6</i>		<i>5106-6</i>		<i>5106-6</i>			
<i>Sample ID:</i>	<i>GW-101805-5106-6-010</i>		<i>GW-101805-5106-6-011</i>		<i>GW-101805-5106-6-012</i>		<i>GW-101805-5106-6-013</i>		<i>GW-101805-5106-6-014</i>		<i>GW-101805-5106-6-015</i>	
<i>Sample Date:</i>	<i>10/18/2005</i>		<i>10/18/2005</i>		<i>10/18/2005</i>		<i>10/18/2005</i>		<i>10/18/2005</i>		<i>10/18/2005</i>	
<i>Sample Depth:</i>	<i>48 to 51 ft bml</i>		<i>53 to 56 ft bml</i>		<i>58 to 61 ft bml</i>		<i>63 to 66 ft bml</i>		<i>68 to 71 ft bml</i>		<i>73 to 76 ft bml</i>	
<i>elev_MLLW</i>	<i>-90.6 to -93.6</i>		<i>-95.6 to -98.6</i>		<i>-100.6 to -103.6</i>		<i>-105.6 to -108.6</i>		<i>-110.6 to -113.6</i>		<i>-115.6 to -118.6</i>	
<i>elev_NGVD</i>	<i>-96.9 to -99.9</i>		<i>-101.9 to -104.9</i>		<i>-106.9 to -109.9</i>		<i>-111.9 to -114.9</i>		<i>-116.9 to -119.9</i>		<i>-121.9 to -124.9</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	2.70 UJ	2.70 UJ	2.70 U	2.70 U	2.70 UJ	2.70 UJ	2.70 UJ	2.70 UJ	2.70 UJ	2.70 UJ
1,1,2-Trichloroethane	µg/L	42	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	µg/L	3.2	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Carbon tetrachloride	µg/L	4.4	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloroform (Trichloromethane)	µg/L	470	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U
cis-1,2-Dichloroethene	µg/L	16.00	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U
Methylene chloride	µg/L	1600	6.9	10	3.50 U	3.50 U	3.50 U	3.50 U	3.50 U	3.50 U	3.50 U	3.50 U
Tetrachloroethene	µg/L	8.85	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
trans-1,2-Dichloroethene	µg/L	10000	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U
Trichloroethene	µg/L	81	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U
Vinyl chloride	µg/L	2.4	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-6</i>		<i>5106-6</i>		<i>5106-6</i>		<i>5106-6</i>		<i>5106-6</i>			
<i>Sample ID:</i>	<i>GW-101905-5106-6-016</i>		<i>GW-101905-5106-6-017</i>		<i>GW-101905-5106-6-018</i>		<i>GW-101905-5106-6-019</i>		<i>GW-101905-5106-6-020</i>		<i>GW-101905-5106-6-021</i>	
<i>Sample Date:</i>	<i>10/19/2005</i>		<i>10/19/2005</i>		<i>10/19/2005</i>		<i>10/19/2005</i>		<i>10/19/2005</i>		<i>10/19/2005</i>	
<i>Sample Depth:</i>	<i>78 to 81 ft bml</i>		<i>83 to 86 ft bml</i>		<i>88 to 91 ft bml</i>		<i>93 to 96 ft bml</i>		<i>98 to 101 ft bml</i>		<i>103 to 106 ft bml</i>	
<i>elev_MLLW</i>	<i>-120.6 to -123.6</i>		<i>-125.6 to -128.6</i>		<i>-130.6 to -133.6</i>		<i>-135.6 to -138.6</i>		<i>-140.6 to -143.6</i>		<i>-145.6 to -148.6</i>	
<i>elev_NGVD</i>	<i>-126.9 to -129.9</i>		<i>-131.9 to -134.9</i>		<i>-136.9 to -139.9</i>		<i>-141.9 to -144.9</i>		<i>-146.9 to -149.9</i>		<i>-151.9 to -154.9</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	2.70 UJ	2.70 UJ	2.70 UJ	2.70 UJ	2.70 UJ	2.70 UJ	2.70 UJ	2.70 UJ	2.70 UJ	2.70 UJ
1,1,2-Trichloroethane	µg/L	42	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	µg/L	3.2	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Carbon tetrachloride	µg/L	4.4	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloroform (Trichloromethane)	µg/L	470	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U
cis-1,2-Dichloroethene	µg/L	16.00	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U
Methylene chloride	µg/L	1600	3.50 U	3.50 U	3.50 U	3.50 U	3.50 U	3.50 U	3.50 U	3.50 U	3.50 U	3.50 U
Tetrachloroethene	µg/L	8.85	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
trans-1,2-Dichloroethene	µg/L	10000	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U
Trichloroethene	µg/L	81	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U
Vinyl chloride	µg/L	2.4	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-7</i>		<i>5106-7</i>		<i>5106-7</i>		<i>5106-7</i>		<i>5106-7</i>			
<i>Sample ID:</i>	<i>GW-081005-5106-7-001</i>		<i>GW-081005-5106-7-002</i>		<i>GW-081005-5106-7-003</i>		<i>GW-081005-5106-7-004</i>		<i>GW-081005-5106-7-005</i>		<i>GW-081005-5106-7-006</i>	
<i>Sample Date:</i>	<i>8/10/2005</i>		<i>8/10/2005</i>		<i>8/10/2005</i>		<i>8/10/2005</i>		<i>8/10/2005</i>		<i>8/10/2005</i>	
<i>Sample Depth:</i>	<i>6 to 9 ft bml</i>		<i>11 to 14 ft bml</i>		<i>16 to 19 ft bml</i>		<i>21 to 24 ft bml</i>		<i>21 to 24 ft bml</i>		<i>26 to 29 ft bml</i>	
<i>elev_MLLW</i>	<i>-47.73 to -50.73</i>		<i>-52.73 to -55.73</i>		<i>-57.73 to -60.73</i>		<i>-62.73 to -65.73</i>		<i>-62.73 to -65.73</i>		<i>-67.73 to -70.73</i>	
<i>elev_NGVD</i>	<i>-54 to -57</i>		<i>-59 to -62</i>		<i>-64 to -67</i>		<i>-69 to -72</i>		<i>-69 to -72</i> <i>(Duplicate)</i>		<i>-74 to -77</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.34 U	0.068 U	0.136 U	0.34 U	1.36 U	0.068 U				
1,1,2-Trichloroethane	µg/L	42	0.314 U	0.0627 U	0.125 U	0.314 U	1.25 U	0.0627 U				
1,1-Dichloroethene	µg/L	3.2	0.298 U	0.0595 U	0.119 U	0.298 U	1.19 U	0.0595 U				
Carbon tetrachloride	µg/L	4.4	0.485 U	0.097 U	0.194 U	0.485 U	1.94 U	0.097 U				
Chloroform (Trichloromethane)	µg/L	470	0.359 U	0.0717 U	0.143 U	0.359 U	1.43 U	0.0717 U				
cis-1,2-Dichloroethene	µg/L	16.00	3.52 J	6.75	5.15	1.71 J	1.71 J	1.69				
Methylene chloride	µg/L	1600	0.376 U	0.0752 U	0.533 J	0.376 U	3.64 J	0.0752 U				
Tetrachloroethene	µg/L	8.85	0.289 U	0.0578 U	0.116 U	0.289 U	1.16 U	0.0578 U				
trans-1,2-Dichloroethene	µg/L	10000	0.292 U	0.0584 U	0.117 U	0.292 U	1.17 U	0.0584 U				
Trichloroethene	µg/L	81	0.321 U	0.0641 U	0.128 U	0.321 U	1.28 U	0.0641 U				
Vinyl chloride	µg/L	2.4	0.302 U	0.0604 U	0.121 U	0.302 U	1.21 U	0.0604 U				

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-7</i>		<i>5106-7</i>		<i>5106-7</i>		<i>5106-7</i>		<i>5106-7</i>			
<i>Sample ID:</i>	<i>GW-081005-5106-7-007</i>		<i>GW-081005-5106-7-008</i>		<i>GW-081105-5106-7-009</i>		<i>GW-081105-5106-7-010</i>		<i>GW-081105-5106-7-011</i>		<i>GW-081105-5106-7-012</i>	
<i>Sample Date:</i>	<i>8/10/2005</i>		<i>8/10/2005</i>		<i>8/11/2005</i>		<i>8/11/2005</i>		<i>8/11/2005</i>		<i>8/11/2005</i>	
<i>Sample Depth:</i>	<i>31 to 34 ft bml</i>		<i>36 to 39 ft bml</i>		<i>41 to 44 ft bml</i>		<i>46 to 49 ft bml</i>		<i>51 to 54 ft bml</i>		<i>56 to 59 ft bml</i>	
<i>elev_MLLW</i>	<i>-72.73 to -75.73</i>		<i>-77.73 to -80.73</i>		<i>-82.73 to -85.73</i>		<i>-87.73 to -90.73</i>		<i>-92.73 to -95.73</i>		<i>-97.73 to -100.73</i>	
<i>elev_NGVD</i>	<i>-79 to -82</i>		<i>-84 to -87</i>		<i>-89 to -92</i>		<i>-94 to -97</i>		<i>-99 to -102</i>		<i>-104 to -107</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	0.564 J	0.803 J	0.985 J	0.297 J	0.0433 U	0.0433 U	0.0433 U	0.0433 U	0.0433 U	0.0433 U
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.123 J	0.078 J	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U
Trichloroethene	µg/L	81	0.0641 U	0.0641 U	0.0811 J	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U
Vinyl chloride	µg/L	2.4	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-7</i>		<i>5106-7</i>		<i>5106-7</i>		<i>5106-7</i>		<i>5106-8</i>			
<i>Sample ID:</i>	<i>GW-081105-5106-7-013</i>		<i>GW-081105-5106-7-014</i>		<i>GW-081105-5106-7-015</i>		<i>GW-081205-5106-7-016</i>		<i>GW-081205-5106-7-017</i>		<i>GW-080305-5106-8-001</i>	
<i>Sample Date:</i>	<i>8/11/2005</i>		<i>8/11/2005</i>		<i>8/11/2005</i>		<i>8/12/2005</i>		<i>8/12/2005</i>		<i>8/3/2005</i>	
<i>Sample Depth:</i>	<i>61 to 64 ft bml</i>		<i>66 to 69 ft bml</i>		<i>71 to 74 ft bml</i>		<i>76 to 79 ft bml</i>		<i>81 to 84 ft bml</i>		<i>14 to 17 ft bml</i>	
<i>elev_MLLW</i>	<i>-102.73 to -105.73</i>		<i>-107.73 to -110.73</i>		<i>-112.73 to -115.73</i>		<i>-117.73 to -120.73</i>		<i>-122.73 to -125.73</i>		<i>-39.2 to -42.2</i>	
<i>elev_NGVD</i>	<i>-109 to -112</i>		<i>-114 to -117</i>		<i>-119 to -122</i>		<i>-124 to -127</i>		<i>-129 to -132</i>		<i>-45.5 to -48.5</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.34 U	
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.314 U	
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.298 U	
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.485 U	
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.359 U	
cis-1,2-Dichloroethene	µg/L	16.00	0.0433 U	0.0433 U	0.0882 J	0.0433 U	0.0433 U	0.0433 U	0.0433 U	0.0433 U	4.21 J	
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.376 U	
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.289 U	
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.292 U	
Trichloroethene	µg/L	81	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.321 U	
Vinyl chloride	µg/L	2.4	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.302 U	

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-8</i>		<i>5106-8</i>		<i>5106-8</i>		<i>5106-8</i>		<i>5106-8</i>			
<i>Sample ID:</i>	<i>GW-080305-5106-8-002</i>		<i>GW-080405-5106-8-003</i>		<i>GW-080405-5106-8-004</i>		<i>GW-080405-5106-8-005</i>		<i>GW-080405-5106-8-006</i>		<i>GW-080505-5106-8-007</i>	
<i>Sample Date:</i>	<i>8/3/2005</i>		<i>8/4/2005</i>		<i>8/4/2005</i>		<i>8/4/2005</i>		<i>8/4/2005</i>		<i>8/5/2005</i>	
<i>Sample Depth:</i>	<i>19 to 22 ft bml</i>		<i>24 to 27 ft bml</i>		<i>29 to 32 ft bml</i>		<i>34 to 37 ft bml</i>		<i>39 to 42 ft bml</i>		<i>44 to 47 ft bml</i>	
<i>elev_MLLW</i>	<i>-44.2 to -47.2</i>		<i>-49.2 to -52.2</i>		<i>-54.2 to -57.2</i>		<i>-59.2 to -62.2</i>		<i>-64.2 to -67.2</i>		<i>-69.2 to -72.2</i>	
<i>elev_NGVD</i>	<i>-50.5 to -53.5</i>		<i>-55.5 to -58.5</i>		<i>-60.5 to -63.5</i>		<i>-65.5 to -68.5</i>		<i>-70.5 to -73.5</i>		<i>-75.5 to -78.5</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.068 U	
1,1,2-Trichloroethane	µg/L	42	0.314 U	0.314 U	0.314 U	0.314 U	0.314 U	0.314 U	0.314 U	0.314 U	0.0627 U	
1,1-Dichloroethene	µg/L	3.2	0.298 U	0.298 U	0.298 U	0.298 U	0.298 U	0.298 U	0.298 U	0.298 U	0.0595 U	
Carbon tetrachloride	µg/L	4.4	0.485 U	0.485 U	0.485 U	0.485 U	0.485 U	0.485 U	0.485 U	0.485 U	0.097 U	
Chloroform (Trichloromethane)	µg/L	470	0.359 U	0.359 U	0.359 U	0.359 U	0.359 U	0.359 U	0.359 U	0.359 U	0.0717 U	
cis-1,2-Dichloroethene	µg/L	16.00	5.22	0.66 J	0.66 J	0.455 J	0.406 J	0.406 J	0.575 J	0.575 J	0.227 J	
Methylene chloride	µg/L	1600	0.376 U	0.376 U	0.376 U	0.376 U	0.376 U	0.376 U	0.376 U	0.376 U	0.0752 U	
Tetrachloroethene	µg/L	8.85	0.709 J	0.289 U	0.289 U	0.289 U	0.289 U	0.289 U	0.289 U	0.289 U	0.0578 U	
trans-1,2-Dichloroethene	µg/L	10000	0.292 U	0.292 U	0.292 U	0.292 U	0.292 U	0.292 U	0.292 U	0.292 U	0.0584 U	
Trichloroethene	µg/L	81	0.915 J	0.321 U	0.321 U	0.321 U	0.321 U	0.321 U	0.321 U	0.321 U	0.0641 U	
Vinyl chloride	µg/L	2.4	0.302 U	0.302 U	0.302 U	0.302 U	0.302 U	0.302 U	0.302 U	0.302 U	0.0604 U	

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-8</i>		<i>5106-8</i>		<i>5106-8</i>		<i>5106-8</i>		<i>5106-8</i>			
<i>Sample ID:</i>	<i>GW-080505-5106-8-008</i>		<i>GW-080505-5106-8-009</i>		<i>GW-080805-5106-8-010</i>		<i>GW-080805-5106-8-011</i>		<i>GW-080805-5106-8-012</i>		<i>GW-080805-5106-8-013</i>	
<i>Sample Date:</i>	<i>8/5/2005</i>		<i>8/5/2005</i>		<i>8/8/2005</i>		<i>8/8/2005</i>		<i>8/8/2005</i>		<i>8/8/2005</i>	
<i>Sample Depth:</i>	<i>49 to 52 ft bml</i>		<i>54 to 57 ft bml</i>		<i>69 to 72 ft bml</i>		<i>74 to 77 ft bml</i>		<i>79 to 82 ft bml</i>		<i>84 to 87 ft bml</i>	
<i>elev_MLLW</i>	<i>-74.2 to -77.2</i>		<i>-79.2 to -82.2</i>		<i>-94.2 to -97.2</i>		<i>-99.2 to -102.2</i>		<i>-104.2 to -107.2</i>		<i>-109.2 to -112.2</i>	
<i>elev_NGVD</i>	<i>-80.5 to -83.5</i>		<i>-85.5 to -88.5</i>		<i>-100.5 to -103.5</i>		<i>-105.5 to -108.5</i>		<i>-110.5 to -113.5</i>		<i>-115.5 to -118.5</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.136 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.0627 U	0.125 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	0.0595 U	0.119 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.097 U	0.194 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.0717 U	0.143 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	0.0433 U	0.524 J	0.121 J	0.0866 U	0.218 J	0.0433 U	0.0433 U	0.0433 U	0.0433 U	0.0433 U
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.0752 U	0.54 J	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.146 J	0.0578 U	0.116 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.0584 U	0.117 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U
Trichloroethene	µg/L	81	0.0641 U	0.0641 U	0.0641 U	0.128 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U
Vinyl chloride	µg/L	2.4	0.0604 U	0.0604 U	0.0604 U	0.121 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-8</i>		<i>5106-8</i>		<i>5106-8</i>		<i>5106-8</i>		<i>5106-8</i>			
<i>Sample ID:</i>	<i>GW-080805-5106-8-014</i>		<i>GW-080905-5106-8-015</i>		<i>GW-080905-5106-8-016</i>		<i>GW-080905-5106-8-017</i>		<i>GW-080905-5106-8-018</i>		<i>GW-080905-5106-8-019</i>	
<i>Sample Date:</i>	<i>8/8/2005</i>		<i>8/9/2005</i>		<i>8/9/2005</i>		<i>8/9/2005</i>		<i>8/9/2005</i>		<i>8/9/2005</i>	
<i>Sample Depth:</i>	<i>89 to 92 ft bml</i>		<i>94 to 97 ft bml</i>		<i>94 to 97 ft bml</i>		<i>99 to 102 ft bml</i>		<i>104 to 107 ft bml</i>		<i>109 to 112 ft bml</i>	
<i>elev_MLLW</i>	<i>-114.2 to -117.2</i>		<i>-119.2 to -122.2</i>		<i>-119.2 to -122.2</i>		<i>-124.2 to -127.2</i>		<i>-129.2 to -132.2</i>		<i>-134.2 to -137.2</i>	
<i>elev_NGVD</i>	<i>-120.5 to -123.5</i>		<i>-125.5 to -128.5</i>		<i>-125.5 to -128.5</i>		<i>-130.5 to -133.5</i>		<i>-135.5 to -138.5</i>		<i>-140.5 to -143.5</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	0.0433 U	0.0433 U	0.0433 U	0.0433 U	0.0433 U	0.0433 U	0.0698 J	0.0433 U	0.0433 U	0.0433 U
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.103 J	0.0578 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U
Trichloroethene	µg/L	81	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U
Vinyl chloride	µg/L	2.4	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-9		5106-9		5106-9		5106-9		5106-9		5106-9	
<i>Sample ID:</i>	GW-110105-5106-9-001		GW-110105-5106-9-002		GW-110105-5106-9-003		GW-110105-5106-9-004		GW-110105-5106-9-005		GW-110105-5106-9-006	
<i>Sample Date:</i>	11/1/2005		11/1/2005		11/1/2005		11/1/2005		11/1/2005		11/1/2005	
<i>Sample Depth:</i>	2 to 5 ft bml		7 to 10 ft bml		12 to 15 ft bml		17 to 20 ft bml		22 to 25 ft bml		27 to 30 ft bml	
<i>elev_MLLW</i>	-38.1 to -41.1		-43.1 to -46.1		-48.1 to -51.1		-53.1 to -56.1		-58.1 to -61.1		-63.1 to -66.1	
<i>elev_NGVD</i>	-44.4 to -47.4		-49.4 to -52.4		-54.4 to -57.4		-59.4 to -62.4		-64.4 to -67.4		-69.4 to -72.4	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	320	1800 J	2300 J	1100 J	390				
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	6.2	3400	67000	250000	200000	32000				
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	930	1500 J	1900 J	1200 J	970				
Trichloroethene	µg/L	81	0.16 U	0.16 U	7.0	8.4	5.2	7.1				
Vinyl chloride	µg/L	2.4	0.23 U	56000	94000	58000	100000	230000				

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>5106-9</i>	<i>5106-9</i>	<i>5106-9</i>	<i>5106-9</i>	<i>5106-9</i>	<i>5106-9</i>	
<i>Sample ID:</i>		<i>GW-110105-5106-9-007</i>	<i>GW-110105-5106-9-008</i>	<i>GW-110105-5106-9-009</i>	<i>GW-110105-5106-9-010</i>	<i>GW-110105-5106-9-011</i>	<i>GW-110105-5106-9-012</i>	
<i>Sample Date:</i>		<i>11/1/2005</i>	<i>11/1/2005</i>	<i>11/1/2005</i>	<i>11/1/2005</i>	<i>11/1/2005</i>	<i>11/1/2005</i>	
<i>Sample Depth:</i>		<i>32 to 35 ft bml</i>	<i>37 to 40 ft bml</i>	<i>37 to 40 ft bml</i>	<i>42 to 45 ft bml</i>	<i>47 to 50 ft bml</i>	<i>52 to 55 ft bml</i>	
<i>elev_MLLW</i>		<i>-68.1 to -71.1</i>	<i>-73.1 to -76.1</i>	<i>-73.1 to -76.1</i>	<i>-78.1 to -81.1</i>	<i>-83.1 to -86.1</i>	<i>-88.1 to -91.1</i>	
<i>elev_NGVD</i>		<i>-74.4 to -77.4</i>	<i>-79.4 to -82.4</i>	<i>-79.4 to -82.4</i>	<i>-84.4 to -87.4</i>	<i>-89.4 to -92.4</i>	<i>-94.4 to -97.4</i>	
				<i>(Duplicate)</i>				
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	54.00 U	
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	40.0 U	
1,1-Dichloroethene	µg/L	3.2	140	1700 J	1500 J	1600 J	1600 J	60.00 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	20.00 U	
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	32.00 U	
cis-1,2-Dichloroethene	µg/L	16.00	14000	170000	170000	130000	88000	8500
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	70.00 U	
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	-	12000	
trans-1,2-Dichloroethene	µg/L	10000	150	1400 J	1500 J	1300 J	600 J	38.00 U
Trichloroethene	µg/L	81	1.5 J	7.9	7.6	28	20000	120000
Vinyl chloride	µg/L	2.4	17000	170000	150000	110000	22000	1200

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-9</i>	<i>5106-9</i>	<i>5106-9</i>	<i>5106-9</i>	<i>5106-9</i>	<i>5106-9</i>
<i>Sample ID:</i>	<i>GW-110105-5106-9-013</i>	<i>GW-110105-5106-9-014</i>	<i>GW-110105-5106-9-015</i>	<i>GW-110105-5106-9-016</i>	<i>GW-110205-5106-9-017</i>	<i>GW-110205-5106-9-018</i>
<i>Sample Date:</i>	<i>11/1/2005</i>	<i>11/1/2005</i>	<i>11/1/2005</i>	<i>11/1/2005</i>	<i>11/2/2005</i>	<i>11/2/2005</i>
<i>Sample Depth:</i>	<i>57 to 60 ft bml</i>	<i>62 to 65 ft bml</i>	<i>67 to 70 ft bml</i>	<i>72 to 75 ft bml</i>	<i>77 to 80 ft bml</i>	<i>82 to 85 ft bml</i>
<i>elev_MLLW</i>	<i>-93.1 to -96.1</i>	<i>-98.1 to -101.1</i>	<i>-103.1 to -106.1</i>	<i>-108.1 to -111.1</i>	<i>-113.1 to -116.1</i>	<i>-118.1 to -121.1</i>
<i>elev_NGVD</i>	<i>-99.4 to -102.4</i>	<i>-104.4 to -107.4</i>	<i>-109.4 to -112.4</i>	<i>-114.4 to -117.4</i>	<i>-119.4 to -122.4</i>	<i>-124.4 to -127.4</i>

Parameters *Units* *CSI* *WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	135.00 U	13.50 U	13.50 U	13.50 U	5.40 UJ	0.27 U
1,1,2-Trichloroethane	µg/L	42	100.0 U	10.0 U	10.0 U	10.0 U	4.0 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	150.00 U	15.00 U	15.00 U	15.00 U	6.00 U	0.30 U
Carbon tetrachloride	µg/L	4.4	50.00 U	5.00 U	5.00 U	5.00 U	2.00 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	80.00 U	8.00 U	8.00 U	8.00 U	3.20 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	7800	3700	12000	23000	3000	60
Methylene chloride	µg/L	1600	1500	72 J	17.50 U	17.50 U	7.00 U	3.1 J
Tetrachloroethene	µg/L	8.85	1700	7.50 U	7.50 U	7.50 U	3.00 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	95.00 U	9.50 U	290	550	58	6.7
Trichloroethene	µg/L	81	27000	830	8.00 U	8.00 U	3.20 U	1.1 J
Vinyl chloride	µg/L	2.4	115.00 U	11.50 U	690	4400	290	3.4

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-9		5106-9		5106-9		5106-9		5106-9		5106-10	
<i>Sample ID:</i>	GW-110205-5106-9-019		GW-110205-5106-9-020		GW-110205-5106-9-021		GW-110205-5106-9-022		GW-110205-5106-9-023		GW-110205-5106-10-001	
<i>Sample Date:</i>	11/2/2005		11/2/2005		11/2/2005		11/2/2005		11/2/2005		11/2/2005	
<i>Sample Depth:</i>	87 to 90 ft bml		92 to 95 ft bml		97 to 100 ft bml		102 to 105 ft bml		107 to 110 ft bml		2 to 5 ft bml	
<i>elev_MLLW</i>	-123.1 to -126.1		-128.1 to -131.1		-133.1 to -136.1		-138.1 to -141.1		-143.1 to -146.1		-38.9 to -41.9	
<i>elev_NGVD</i>	-129.4 to -132.4		-134.4 to -137.4		-139.4 to -142.4		-144.4 to -147.4		-149.4 to -152.4		-45.2 to -48.2	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	63	50	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	1.5 J	0.35 U	0.35 U	0.35 U	1.9 J	0.35 U	0.35 U	0.35 U	0.35 U	1.4 J
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	6.4	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	2.6	3.4	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.79 J
Vinyl chloride	µg/L	2.4	5.7	4.9	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	370

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-10</i>		<i>5106-10</i>		<i>5106-10</i>		<i>5106-10</i>		<i>5106-10</i>		<i>5106-10</i>	
<i>Sample ID:</i>	<i>GW-110205-5106-10-002</i>		<i>GW-110305-5106-10-003</i>		<i>GW-110305-5106-10-004</i>		<i>GW-110305-5106-10-005</i>		<i>GW-110305-5106-10-006</i>		<i>GW-110305-5106-10-007</i>	
<i>Sample Date:</i>	<i>11/2/2005</i>		<i>11/3/2005</i>		<i>11/3/2005</i>		<i>11/3/2005</i>		<i>11/3/2005</i>		<i>11/3/2005</i>	
<i>Sample Depth:</i>	<i>7 to 10 ft bml</i>		<i>12 to 15 ft bml</i>		<i>17 to 20 ft bml</i>		<i>22 to 25 ft bml</i>		<i>27 to 30 ft bml</i>		<i>32 to 35 ft bml</i>	
<i>elev_MLLW</i>	<i>-43.9 to -46.9</i>		<i>-48.9 to -51.9</i>		<i>-53.9 to -56.9</i>		<i>-58.9 to -61.9</i>		<i>-63.9 to -66.9</i>		<i>-68.9 to -71.9</i>	
<i>elev_NGVD</i>	<i>-50.2 to -53.2</i>		<i>-55.2 to -58.2</i>		<i>-60.2 to -63.2</i>		<i>-65.2 to -68.2</i>		<i>-70.2 to -73.2</i>		<i>-75.2 to -78.2</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	13.50 U	13.50 U	0.27 UJ	13.50 U				
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	10.0 U	10.0 U	0.2 U	10.0 U				
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	15.00 U	15.00 U	520	140 J				
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	5.00 U	5.00 U	0.10 UJ	5.00 U				
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	8.00 U	8.00 U	0.16 U	8.00 U				
cis-1,2-Dichloroethene	µg/L	16.00	1.6 J	0.16 U	2600	2400	65000	10000				
Methylene chloride	µg/L	1600	16 J	0.35 U	17.50 U	17.50 U	0.35 UJ	960 J				
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	7.50 U	7.50 U	23	93 J				
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	2.5 J	130 J	9.50 U	920	130 J				
Trichloroethene	µg/L	81	0.95 J	0.53 J	8.00 U	8.00 U	330 J	2400				
Vinyl chloride	µg/L	2.4	8.6	0.23 U	12000	17000	39000	3400				

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-10</i>		<i>5106-10</i>		<i>5106-10</i>		<i>5106-10</i>		<i>5106-10</i>			
<i>Sample ID:</i>	<i>GW-110305-5106-10-008</i>		<i>GW-110305-5106-10-009</i>		<i>GW-110305-5106-10-010</i>		<i>GW-110305-5106-10-011</i>		<i>GW-110305-5106-10-012</i>		<i>GW-110305-5106-10-013</i>	
<i>Sample Date:</i>	<i>11/3/2005</i>		<i>11/3/2005</i>		<i>11/3/2005</i>		<i>11/3/2005</i>		<i>11/3/2005</i>		<i>11/3/2005</i>	
<i>Sample Depth:</i>	<i>32 to 35 ft bml</i>		<i>37 to 40 ft bml</i>		<i>42 to 45 ft bml</i>		<i>47 to 50 ft bml</i>		<i>52 to 55 ft bml</i>		<i>57 to 60 ft bml</i>	
<i>elev_MLLW</i>	<i>-68.9 to -71.9</i>		<i>-73.9 to -76.9</i>		<i>-78.9 to -81.9</i>		<i>-83.9 to -86.9</i>		<i>-88.9 to -91.9</i>		<i>-93.9 to -96.9</i>	
<i>elev_NGVD</i>	<i>-75.2 to -78.2</i>		<i>-80.2 to -83.2</i>		<i>-85.2 to -88.2</i>		<i>-90.2 to -93.2</i>		<i>-95.2 to -98.2</i>		<i>-100.2 to -103.2</i>	
<i>Parameters</i>	<i>(Duplicate)</i>											
	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	6.75 U	1.35 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	5.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	110 J	10 J	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	2.50 U	0.50 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	4.00 U	0.80 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	9700	1700	43	69	12	730	12	730	12	730
Methylene chloride	µg/L	1600	8.75 UJ	1.75 U	9.5	11	8.1	8.8	8.1	8.8	8.1	8.8
Tetrachloroethene	µg/L	8.85	95 J	0.75 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	110 J	12 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	2500	57	2.4 J	8.5	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	3700	530	590	61	18	15	18	15	18	15

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-10</i>		<i>5106-10</i>		<i>5106-10</i>		<i>5106-10</i>		<i>5106-10</i>		<i>5106-10</i>	
<i>Sample ID:</i>	<i>GW-110305-5106-10-014</i>		<i>GW-110405-5106-10-015</i>		<i>GW-110405-5106-10-016</i>		<i>GW-110405-5106-10-017</i>		<i>GW-110405-5106-10-018</i>		<i>GW-110405-5106-10-019</i>	
<i>Sample Date:</i>	<i>11/3/2005</i>		<i>11/4/2005</i>		<i>11/4/2005</i>		<i>11/4/2005</i>		<i>11/4/2005</i>		<i>11/4/2005</i>	
<i>Sample Depth:</i>	<i>62 to 65 ft bml</i>		<i>67 to 70 ft bml</i>		<i>72 to 75 ft bml</i>		<i>77 to 80 ft bml</i>		<i>82 to 85 ft bml</i>		<i>87 to 90 ft bml</i>	
<i>elev_MLLW</i>	<i>-98.9 to -101.9</i>		<i>-103.9 to -106.9</i>		<i>-108.9 to -111.9</i>		<i>-113.9 to -116.9</i>		<i>-118.9 to -121.9</i>		<i>-123.9 to -126.9</i>	
<i>elev_NGVD</i>	<i>-105.2 to -108.2</i>		<i>-110.2 to -113.2</i>		<i>-115.2 to -118.2</i>		<i>-120.2 to -123.2</i>		<i>-125.2 to -128.2</i>		<i>-130.2 to -133.2</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	2.70 U	2.70 U			
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	2.0 U			
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	7.4	3.00 U	3.00 U				
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	1.00 U	1.00 U				
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	1.60 U	1.60 U				
cis-1,2-Dichloroethene	µg/L	16.00	180	2.6 J	75	970	22	130				
Methylene chloride	µg/L	1600	12	0.35 U	0.35 U	0.35 U	3.50 U	3.50 U				
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	1.7 J	1.50 U	1.50 U				
trans-1,2-Dichloroethene	µg/L	10000	2.2 J	0.19 U	1.3 J	12	1.90 U	1.90 U				
Trichloroethene	µg/L	81	11	0.16 U	4.8 J	59	2.8 J	12 J				
Vinyl chloride	µg/L	2.4	99	4.2 J	40	610	19 J	110				

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-10		5106-10		5106-10		5106-10		5106-10		5106-10	
<i>Sample ID:</i>	GW-110405-5106-10-020		GW-110705-5106-10-021		GW-110705-5106-10-022		GW-110705-5106-10-023		GW-110705-5106-10-024		GW-110705-5106-10-025	
<i>Sample Date:</i>	11/4/2005		11/7/2005		11/7/2005		11/7/2005		11/7/2005		11/7/2005	
<i>Sample Depth:</i>	92 to 95 ft bml		97 to 100 ft bml		102 to 105 ft bml		107 to 110 ft bml		107 to 110 ft bml		112 to 115 ft bml	
<i>elev_MLLW</i>	-128.9 to -131.9		-133.9 to -136.9		-138.9 to -141.9		-143.9 to -146.9		-143.9 to -146.9		-148.9 to -151.9	
<i>elev_NGVD</i>	-135.2 to -138.2		-140.2 to -143.2		-145.2 to -148.2		-150.2 to -153.2		-150.2 to -153.2		-155.2 to -158.2	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	2.70 U	2.70 U	2.70 U	2.70 U	2.70 U	2.70 U	2.70 U	2.70 U	2.70 U	2.70 U
1,1,2-Trichloroethane	µg/L	42	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	µg/L	3.2	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Carbon tetrachloride	µg/L	4.4	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloroform (Trichloromethane)	µg/L	470	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U
cis-1,2-Dichloroethene	µg/L	16.00	200 J	5.4 J	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U
Methylene chloride	µg/L	1600	3.50 U	3.50 U	3.50 U	3.50 U	3.50 U	3.50 U	3.50 U	3.50 U	3.50 U	3.50 U
Tetrachloroethene	µg/L	8.85	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
trans-1,2-Dichloroethene	µg/L	10000	2.4 J	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U
Trichloroethene	µg/L	81	21 J	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U	1.60 U
Vinyl chloride	µg/L	2.4	140 J	4.6 J	2.5 J	2.5 J	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-10</i>		<i>5106-10</i>		<i>5106-11</i>		<i>5106-11</i>		<i>5106-11</i>		<i>5106-11</i>	
<i>Sample ID:</i>	<i>GW-110705-5106-10-026</i>		<i>GW-110705-5106-10-027</i>		<i>GW-101305-5106-11-001</i>		<i>GW-101305-5106-11-002</i>		<i>GW-101305-5106-11-003</i>		<i>GW-101305-5106-11-004</i>	
<i>Sample Date:</i>	<i>11/7/2005</i>		<i>11/7/2005</i>		<i>10/13/2005</i>		<i>10/13/2005</i>		<i>10/13/2005</i>		<i>10/13/2005</i>	
<i>Sample Depth:</i>	<i>117 to 120 ft bml</i>		<i>122 to 125 ft bml</i>		<i>2 to 5 ft bml</i>		<i>7 to 10 ft bml</i>		<i>12 to 15 ft bml</i>		<i>17 to 20 ft bml</i>	
<i>elev_MLLW</i>	<i>-153.9 to -156.9</i>		<i>-158.9 to -161.9</i>		<i>-40 to -43</i>		<i>-45 to -48</i>		<i>-50 to -53</i>		<i>-55 to -58</i>	
<i>elev_NGVD</i>	<i>-160.2 to -163.2</i>		<i>-165.2 to -168.2</i>		<i>-46.3 to -49.3</i>		<i>-51.3 to -54.3</i>		<i>-56.3 to -59.3</i>		<i>-61.3 to -64.3</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	2.70 U	2.70 U	0.01 U	0.425 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	2.0 U	2.0 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	3.00 U	3.00 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L	4.4	1.00 U	1.00 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	1.60 U	1.60 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	2.9 J	140	0.234 J	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
Methylene chloride	µg/L	1600	3.50 U	3.50 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	1.50 U	1.50 U	0.0775 J	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	1.90 U	2.0 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Trichloroethene	µg/L	81	1.60 U	20	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vinyl chloride	µg/L	2.4	11 J	80	0.887	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.263

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>5106-11</i>		<i>5106-11</i>		<i>5106-11</i>		<i>5106-11</i>		<i>5106-11</i>		<i>5106-11</i>	
<i>Sample ID:</i>	<i>GW-101305-5106-11-005</i>		<i>GW-101305-5106-11-006</i>		<i>GW-101305-5106-11-007</i>		<i>GW-101305-5106-11-008</i>		<i>GW-101305-5106-11-009</i>		<i>GW-101305-5106-11-010</i>	
<i>Sample Date:</i>	<i>10/13/2005</i>		<i>10/13/2005</i>		<i>10/13/2005</i>		<i>10/13/2005</i>		<i>10/13/2005</i>		<i>10/13/2005</i>	
<i>Sample Depth:</i>	<i>22 to 25 ft bml</i>		<i>27 to 30 ft bml</i>		<i>32 to 35 ft bml</i>		<i>37 to 40 ft bml</i>		<i>42 to 45 ft bml</i>		<i>47 to 50 ft bml</i>	
<i>elev_MLLW</i>	<i>-60 to -63</i>		<i>-65 to -68</i>		<i>-70 to -73</i>		<i>-75 to -78</i>		<i>-80 to -83</i>		<i>-85 to -88</i>	
<i>elev_NGVD</i>	<i>-66.3 to -69.3</i>		<i>-71.3 to -74.3</i>		<i>-76.3 to -79.3</i>		<i>-81.3 to -84.3</i>		<i>-86.3 to -89.3</i>		<i>-91.3 to -94.3</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.109 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	0.015 U	15.3	2.98	1.35	0.175 J	0.015 U	0.175 J	0.015 U	0.015 U	0.015 U
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.218 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Trichloroethene	µg/L	81	0.02 U	0.163 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vinyl chloride	µg/L	2.4	0.025 U	0.338	0.128	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-11</i>		<i>5106-11</i>		<i>5106-11</i>		<i>5106-11</i>		<i>5106-11</i>		<i>5106-11</i>	
<i>Sample ID:</i>	<i>GW-101405-5106-11-011</i>		<i>GW-101405-5106-11-012</i>		<i>GW-101405-5106-11-013</i>		<i>GW-101405-5106-11-014</i>		<i>GW-101405-5106-11-015</i>		<i>GW-101405-5106-11-016</i>	
<i>Sample Date:</i>	<i>10/14/2005</i>		<i>10/14/2005</i>		<i>10/14/2005</i>		<i>10/14/2005</i>		<i>10/14/2005</i>		<i>10/14/2005</i>	
<i>Sample Depth:</i>	<i>47 to 50 ft bml</i>		<i>57 to 60 ft bml</i>		<i>62 to 65 ft bml</i>		<i>67 to 70 ft bml</i>		<i>72 to 75 ft bml</i>		<i>77 to 80 ft bml</i>	
<i>elev_MLLW</i>	<i>-85 to -88</i>		<i>-95 to -98</i>		<i>-100 to -103</i>		<i>-105 to -108</i>		<i>-110 to -113</i>		<i>-115 to -118</i>	
<i>elev_NGVD</i>	<i>-91.3 to -94.3</i>		<i>-101.3 to -104.3</i>		<i>-106.3 to -109.3</i>		<i>-111.3 to -114.3</i>		<i>-116.3 to -119.3</i>		<i>-121.3 to -124.3</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.179 J	0.179 J	0.124 J	0.124 J
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Trichloroethene	µg/L	81	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.22 J	0.22 J	0.123 J	0.123 J
Vinyl chloride	µg/L	2.4	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-11</i>		<i>5106-11</i>		<i>5106-11</i>		<i>5106-11</i>		<i>5106-11</i>		<i>5106-12</i>	
<i>Sample ID:</i>	<i>GW-101405-5106-11-017</i>		<i>GW-101405-5106-11-018</i>		<i>GW-101405-5106-11-019</i>		<i>GW-101405-5106-11-020</i>		<i>GW-101505-5106-11-021</i>		<i>GW-101005-5106-12-001</i>	
<i>Sample Date:</i>	<i>10/14/2005</i>		<i>10/14/2005</i>		<i>10/14/2005</i>		<i>10/14/2005</i>		<i>10/15/2005</i>		<i>10/10/2005</i>	
<i>Sample Depth:</i>	<i>82 to 85 ft bml</i>		<i>87 to 90 ft bml</i>		<i>92 to 95 ft bml</i>		<i>97 to 100 ft bml</i>		<i>102 to 105 ft bml</i>		<i>2 to 5 ft bml</i>	
<i>elev_MLLW</i>	<i>-120 to -123</i>		<i>-125 to -128</i>		<i>-130 to -133</i>		<i>-135 to -138</i>		<i>-140 to -143</i>		<i>-38.2 to -41.2</i>	
<i>elev_NGVD</i>	<i>-126.3 to -129.3</i>		<i>-131.3 to -134.3</i>		<i>-136.3 to -139.3</i>		<i>-141.3 to -144.3</i>		<i>-146.3 to -149.3</i>		<i>-44.5 to -47.5</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 UJ
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 UJ
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ
cis-1,2-Dichloroethene	µg/L	16.00	0.973	0.015 U	0.015 U	0.464 J	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 UJ
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 UJ
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.015 U	0.126 J	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 UJ
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ
Trichloroethene	µg/L	81	0.378 J	0.02 U	0.02 U	0.478 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ
Vinyl chloride	µg/L	2.4	0.111	0.025 U	0.025 U	0.196	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.125 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-12</i>		<i>5106-12</i>		<i>5106-12</i>		<i>5106-12</i>		<i>5106-12</i>			
<i>Sample ID:</i>	<i>GW-101105-5106-12-002</i>		<i>GW-101105-5106-12-003</i>		<i>GW-101105-5106-12-004</i>		<i>GW-101105-5106-12-005</i>		<i>GW-101105-5106-12-006</i>		<i>GW-101105-5106-12-007</i>	
<i>Sample Date:</i>	<i>10/11/2005</i>		<i>10/11/2005</i>		<i>10/11/2005</i>		<i>10/11/2005</i>		<i>10/11/2005</i>		<i>10/11/2005</i>	
<i>Sample Depth:</i>	<i>7 to 10 ft bml</i>		<i>12 to 15 ft bml</i>		<i>12 to 15 ft bml</i>		<i>17 to 20 ft bml</i>		<i>22 to 25 ft bml</i>		<i>27 to 30 ft bml</i>	
<i>elev_MLLW</i>	<i>-43.2 to -46.2</i>		<i>-48.2 to -51.2</i>		<i>-48.2 to -51.2</i>		<i>-53.2 to -56.2</i>		<i>-58.2 to -61.2</i>		<i>-63.2 to -66.2</i>	
<i>elev_NGVD</i>	<i>-49.5 to -52.5</i>		<i>-54.5 to -57.5</i>		<i>-54.5 to -57.5</i>		<i>-59.5 to -62.5</i>		<i>-64.5 to -67.5</i>		<i>-69.5 to -72.5</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	R	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 U	0.045 U	0.119 J	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Trichloroethene	µg/L	81	0.106 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vinyl chloride	µg/L	2.4	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-12</i>		<i>5106-12</i>		<i>5106-12</i>		<i>5106-12</i>		<i>5106-12</i>		<i>5106-12</i>	
<i>Sample ID:</i>	<i>GW-101105-5106-12-008</i>		<i>GW-101105-5106-12-009</i>		<i>GW-101105-5106-12-010</i>		<i>GW-101105-5106-12-011</i>		<i>GW-101105-5106-12-012</i>		<i>GW-101205-5106-12-013</i>	
<i>Sample Date:</i>	<i>10/11/2005</i>		<i>10/11/2005</i>		<i>10/11/2005</i>		<i>10/11/2005</i>		<i>10/11/2005</i>		<i>10/12/2005</i>	
<i>Sample Depth:</i>	<i>32 to 35 ft bml</i>		<i>37 to 40 ft bml</i>		<i>42 to 45 ft bml</i>		<i>47 to 50 ft bml</i>		<i>52 to 55 ft bml</i>		<i>57 to 60 ft bml</i>	
<i>elev_MLLW</i>	<i>-68.2 to -71.2</i>		<i>-73.2 to -76.2</i>		<i>-78.2 to -81.2</i>		<i>-83.2 to -86.2</i>		<i>-88.2 to -91.2</i>		<i>-93.2 to -96.2</i>	
<i>elev_NGVD</i>	<i>-74.5 to -77.5</i>		<i>-79.5 to -82.5</i>		<i>-84.5 to -87.5</i>		<i>-89.5 to -92.5</i>		<i>-94.5 to -97.5</i>		<i>-99.5 to -102.5</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.109 J	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Trichloroethene	µg/L	81	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vinyl chloride	µg/L	2.4	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-12</i>		<i>5106-12</i>		<i>5106-12</i>		<i>5106-12</i>		<i>5106-12</i>		<i>5106-12</i>	
<i>Sample ID:</i>	<i>GW-101205-5106-12-014</i>		<i>GW-101205-5106-12-015</i>		<i>GW-101205-5106-12-016</i>		<i>GW-101205-5106-12-017</i>		<i>GW-101205-5106-12-018</i>		<i>GW-101205-5106-12-019</i>	
<i>Sample Date:</i>	<i>10/12/2005</i>		<i>10/12/2005</i>		<i>10/12/2005</i>		<i>10/12/2005</i>		<i>10/12/2005</i>		<i>10/12/2005</i>	
<i>Sample Depth:</i>	<i>62 to 65 ft bml</i>		<i>67 to 70 ft bml</i>		<i>72 to 75 ft bml</i>		<i>77 to 80 ft bml</i>		<i>82 to 85 ft bml</i>		<i>87 to 90 ft bml</i>	
<i>elev_MLLW</i>	<i>-98.2 to -101.2</i>		<i>-103.2 to -106.2</i>		<i>-108.2 to -111.2</i>		<i>-113.2 to -116.2</i>		<i>-118.2 to -121.2</i>		<i>-123.2 to -126.2</i>	
<i>elev_NGVD</i>	<i>-104.5 to -107.5</i>		<i>-109.5 to -112.5</i>		<i>-114.5 to -117.5</i>		<i>-119.5 to -122.5</i>		<i>-124.5 to -127.5</i>		<i>-129.5 to -132.5</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ
cis-1,2-Dichloroethene	µg/L	16.00	0.015 U	0.015 U	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.331 J
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.198 J
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.02 U	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ
Trichloroethene	µg/L	81	0.02 U	0.02 U	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.745 J
Vinyl chloride	µg/L	2.4	0.025 U	0.025 U	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.208 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-12</i>		<i>5106-12</i>		<i>5106-12</i>		<i>5106-12</i>		<i>5106-12</i>		<i>5106-13</i>	
<i>Sample ID:</i>	<i>GW-101205-5106-12-020</i>		<i>GW-101205-5106-12-021</i>		<i>GW-101205-5106-12-022</i>		<i>GW-101205-5106-12-023</i>		<i>GW-101205-5106-12-024</i>		<i>GW-112805-5106-13-001</i>	
<i>Sample Date:</i>	<i>10/12/2005</i>		<i>10/12/2005</i>		<i>10/12/2005</i>		<i>10/12/2005</i>		<i>10/12/2005</i>		<i>11/28/2005</i>	
<i>Sample Depth:</i>	<i>92 to 95 ft bml</i>		<i>97 to 100 ft bml</i>		<i>102 to 105 ft bml</i>		<i>107 to 110 ft bml</i>		<i>112 to 115 ft bml</i>		<i>2 to 5 ft bml</i>	
<i>elev_MLLW</i>	<i>-128.2 to -131.2</i>		<i>-133.2 to -136.2</i>		<i>-138.2 to -141.2</i>		<i>-143.2 to -146.2</i>		<i>-148.2 to -151.2</i>		<i>-36.7 to -39.7</i>	
<i>elev_NGVD</i>	<i>-134.5 to -137.5</i>		<i>-139.5 to -142.5</i>		<i>-144.5 to -147.5</i>		<i>-149.5 to -152.5</i>		<i>-154.5 to -157.5</i>		<i>-43 to -46</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.30 U
Carbon tetrachloride	µg/L	4.4	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.106 J	0.197 J	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.278 J	0.278 J	3.1 J
Methylene chloride	µg/L	1600	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.35 U
Tetrachloroethene	µg/L	8.85	0.107 J	0.148 J	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.142 J	0.142 J	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.19 U
Trichloroethene	µg/L	81	0.215 J	0.561 J	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.438 J	0.438 J	0.16 U
Vinyl chloride	µg/L	2.4	0.025 UJ	0.111 J	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-13		5106-13		5106-13		5106-13		5106-13		5106-13	
<i>Sample ID:</i>	GW-112805-5106-13-002		GW-112805-5106-13-003		GW-112805-5106-13-004		GW-112805-5106-13-005		GW-112805-5106-13-006		GW-112805-5106-13-007	
<i>Sample Date:</i>	11/28/2005		11/28/2005		11/28/2005		11/28/2005		11/28/2005		11/28/2005	
<i>Sample Depth:</i>	7 to 10 ft bml		7 to 10 ft bml		12 to 15 ft bml		17 to 20 ft bml		22 to 25 ft bml		27 to 30 ft bml	
<i>elev_MLLW</i>	-41.7 to -44.7		-41.7 to -44.7		-46.7 to -49.7		-51.7 to -54.7		-56.7 to -59.7		-61.7 to -64.7	
<i>elev_NGVD</i>	-48 to -51		-48 to -51		-53 to -56		-58 to -61		-63 to -66		-68 to -71	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	660	2600 J	2000 J	1800 J				
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	3.8 J	3.6 J	27000	320000	420000	360000				
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	2.4 J	2.4 J	890	2500 J	2200 J	2100 J				
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	6.8	9.7	8.9				
Vinyl chloride	µg/L	2.4	1300	1100	53000	66000	77000	91000				

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-13	5106-13	5106-13	5106-13	5106-13	5106-13
<i>Sample ID:</i>	GW-112805-5106-13-008	GW-112805-5106-13-009	GW-112905-5106-13-010	GW-112905-5106-13-011	GW-112905-5106-13-012	GW-112905-5106-13-013
<i>Sample Date:</i>	11/28/2005	11/28/2005	11/29/2005	11/29/2005	11/29/2005	11/29/2005
<i>Sample Depth:</i>	32 to 35 ft bml	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml	57 to 60 ft bml
<i>elev_MLLW</i>	-66.7 to -69.7	-71.7 to -74.7	-76.7 to -79.7	-81.7 to -84.7	-86.7 to -89.7	-91.7 to -94.7
<i>elev_NGVD</i>	-73 to -76	-78 to -81	-83 to -86	-88 to -91	-93 to -96	-98 to -101

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	2600 J	1900 J	850 J	900	780	520
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	310000	160000	62000	67000	64000	60000
Methylene chloride	µg/L	1600	0.35 UJ	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.58 J	0.15 U	0.15 U	140	0.70 J
trans-1,2-Dichloroethene	µg/L	10000	2300 J	1600 J	880 J	970	390	450
Trichloroethene	µg/L	81	5.9	7.0	22	42	13000	540
Vinyl chloride	µg/L	2.4	130000	110000	98000	88000	23000	19000

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-13	5106-13	5106-13	5106-13	5106-13	5106-13
<i>Sample ID:</i>	GW-112905-5106-13-014	GW-112905-5106-13-015	GW-112905-5106-13-016	GW-112905-5106-13-017	GW-112905-5106-13-018	GW-112905-5106-13-019
<i>Sample Date:</i>	11/29/2005	11/29/2005	11/29/2005	11/29/2005	11/29/2005	11/29/2005
<i>Sample Depth:</i>	62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml	77 to 80 ft bml	82 to 85 ft bml	87 to 90 ft bml
<i>elev_MLLW</i>	-96.7 to -99.7	-101.7 to -104.7	-106.7 to -109.7	-111.7 to -114.7	-116.7 to -119.7	-121.7 to -124.7
<i>elev_NGVD</i>	-103 to -106	-108 to -111	-113 to -116	-118 to -121	-123 to -126	-128 to -131

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	12	73	6.8	54	8.2	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	27000	1600	17000	800	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 UJ	0.35 UJ	0.35 UJ
Tetrachloroethene	µg/L	8.85	8.3	1.6 J	3.3 J	0.61 J	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	120	170	14	88	0.19 U	0.19 U
Trichloroethene	µg/L	81	280	48	100	41	22	1.9 J
Vinyl chloride	µg/L	2.4	49000	4600 J	1300	7100	280 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-13		5106-13		5106-13		5106-13		5106-14		5106-14	
<i>Sample ID:</i>	GW-113005-5106-13-020		GW-113005-5106-13-021		GW-113005-5106-13-022		GW-113005-5106-13-023		GW-120105-5106-14-001		GW-120105-5106-14-002	
<i>Sample Date:</i>	11/30/2005		11/30/2005		11/30/2005		11/30/2005		12/1/2005		12/1/2005	
<i>Sample Depth:</i>	92 to 95 ft bml		97 to 100 ft bml		102 to 105 ft bml		107 to 110 ft bml		2 to 5 ft bml		2 to 5 ft bml	
<i>elev_MLLW</i>	-126.7 to -129.7		-131.7 to -134.7		-136.7 to -139.7		-141.7 to -144.7		-39 to -42		-39 to -42	
<i>elev_NGVD</i>	-133 to -136		-138 to -141		-143 to -146		-148 to -151		-45.3 to -48.3		-45.3 to -48.3 (Duplicate)	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.04 U	0.04 U			
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.18 U	0.18 U	0.18 U			
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.566 J	0.842 J	0.842 J			
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.3 U	0.3 U	0.3 U			
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.08 U	0.08 U	0.08 U			
cis-1,2-Dichloroethene	µg/L	16.00	3.0 J	7.4	4.1 J	8.2	10.9	10.4	10.4			
Methylene chloride	µg/L	1600	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.18 U	0.18 U	0.18 U			
Tetrachloroethene	µg/L	8.85	0.15 U	1.5 J	0.88 J	0.15 U	0.06 U	0.06 U	0.06 U			
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	2.01	2.05	2.05			
Trichloroethene	µg/L	81	0.84 J	0.86 J	1.5 J	0.73 J	0.08 U	0.08 U	0.08 U			
Vinyl chloride	µg/L	2.4	0.23 U	5.8	2.2 J	6.5	664	707				

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-14</i>		<i>5106-14</i>		<i>5106-14</i>		<i>5106-14</i>		<i>5106-14</i>		<i>5106-14</i>	
<i>Sample ID:</i>	<i>GW-120105-5106-14-003</i>		<i>GW-120105-5106-14-004</i>		<i>GW-120105-5106-14-005</i>		<i>GW-120105-5106-14-006</i>		<i>GW-120105-5106-14-007</i>		<i>GW-120105-5106-14-008</i>	
<i>Sample Date:</i>	<i>12/1/2005</i>		<i>12/1/2005</i>		<i>12/1/2005</i>		<i>12/1/2005</i>		<i>12/1/2005</i>		<i>12/1/2005</i>	
<i>Sample Depth:</i>	<i>7 to 10 ft bml</i>		<i>12 to 15 ft bml</i>		<i>17 to 20 ft bml</i>		<i>22 to 25 ft bml</i>		<i>27 to 30 ft bml</i>		<i>32 to 35 ft bml</i>	
<i>elev_MLLW</i>	<i>-44 to -47</i>		<i>-49 to -52</i>		<i>-54 to -57</i>		<i>-59 to -62</i>		<i>-64 to -67</i>		<i>-69 to -72</i>	
<i>elev_NGVD</i>	<i>-50.3 to -53.3</i>		<i>-55.3 to -58.3</i>		<i>-60.3 to -63.3</i>		<i>-65.3 to -68.3</i>		<i>-70.3 to -73.3</i>		<i>-75.3 to -78.3</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	4 U	4 U	2 U	0.04 U				
1,1,2-Trichloroethane	µg/L	42	3.33	0.224 J	18 U	18 U	9 U	0.18 U				
1,1-Dichloroethene	µg/L	3.2	3.2	0.334 J	173 J	10 U	191	8.1				
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	30 U	30 U	15 U	0.3 U				
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	8 U	8 U	4 U	0.08 U				
cis-1,2-Dichloroethene	µg/L	16.00	15.8	5.26	13600	106 J	22500	970				
Methylene chloride	µg/L	1600	0.232 U	0.045 U	18 U	18 U	9 U	0.18 U				
Tetrachloroethene	µg/L	8.85	0.141 J	0.151 J	6 U	6 U	3 U	0.06 U				
trans-1,2-Dichloroethene	µg/L	10000	1.38	40.2	568	547	383	120				
Trichloroethene	µg/L	81	3.4	1.1	8 U	8 U	4 U	0.538 J				
Vinyl chloride	µg/L	2.4	2.57	0.922	77000	91800	13500	5850				

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>5106-14</i>		<i>5106-14</i>		<i>5106-14</i>		<i>5106-14</i>		<i>5106-14</i>		<i>5106-14</i>	
<i>Sample ID:</i>	<i>GW-120105-5106-14-009</i>		<i>GW-120205-5106-14-010</i>		<i>GW-120205-5106-14-011</i>		<i>GW-120205-5106-14-012</i>		<i>GW-120205-5106-14-013</i>		<i>GW-120205-5106-14-014</i>	
<i>Sample Date:</i>	<i>12/1/2005</i>		<i>12/2/2005</i>		<i>12/2/2005</i>		<i>12/2/2005</i>		<i>12/2/2005</i>		<i>12/2/2005</i>	
<i>Sample Depth:</i>	<i>37 to 40 ft bml</i>		<i>42 to 45 ft bml</i>		<i>47 to 50 ft bml</i>		<i>52 to 55 ft bml</i>		<i>52 to 55 ft bml</i>		<i>57 to 60 ft bml</i>	
<i>elev_MLLW</i>	<i>-74 to -77</i>		<i>-79 to -82</i>		<i>-84 to -87</i>		<i>-89 to -92</i>		<i>-89 to -92</i>		<i>-94 to -97</i>	
<i>elev_NGVD</i>	<i>-80.3 to -83.3</i>		<i>-85.3 to -88.3</i>		<i>-90.3 to -93.3</i>		<i>-95.3 to -98.3</i>		<i>-95.3 to -98.3</i>		<i>-100.3 to -103.3</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.04 U	0.2 U	0.147 J	0.02 U	0.02 U	0.02 U	0.01 U			
1,1,2-Trichloroethane	µg/L	42	0.18 U	0.9 U	0.09 U	0.09 U	0.09 U	0.09 U	0.045 U			
1,1-Dichloroethene	µg/L	3.2	0.266 J	0.5 U	0.68 J	0.204 J	0.235 J	0.025 U				
Carbon tetrachloride	µg/L	4.4	0.3 U	1.5 U	0.15 UJ	0.15 U	0.15 U	0.075 U				
Chloroform (Trichloromethane)	µg/L	470	0.08 U	0.4 U	0.04 U	0.04 U	0.04 U	0.211 J				
cis-1,2-Dichloroethene	µg/L	16.00	36.4	66.5	156	53	51.1	2.64				
Methylene chloride	µg/L	1600	0.18 U	0.9 U	0.09 U	0.09 U	0.09 U	0.045 U				
Tetrachloroethene	µg/L	8.85	0.06 U	0.3 U	0.03 U	0.125 J	0.128 J	0.015 U				
trans-1,2-Dichloroethene	µg/L	10000	7.36	43.4	11.4	3.32	3.17	0.02 U				
Trichloroethene	µg/L	81	0.08 U	0.4 U	0.04 U	0.04 U	0.04 U	0.02 U				
Vinyl chloride	µg/L	2.4	436	3060	380	454	439	139				

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>5106-14</i>		<i>5106-14</i>		<i>5106-14</i>		<i>5106-14</i>		<i>5106-14</i>		<i>5106-14</i>	
<i>Sample ID:</i>	<i>GW-120205-5106-14-015</i>		<i>GW-120205-5106-14-016</i>		<i>GW-120205-5106-14-017</i>		<i>GW-120205-5106-14-018</i>		<i>GW-120205-5106-14-019</i>		<i>GW-120305-5106-14-020</i>	
<i>Sample Date:</i>	<i>12/2/2005</i>		<i>12/2/2005</i>		<i>12/2/2005</i>		<i>12/2/2005</i>		<i>12/2/2005</i>		<i>12/3/2005</i>	
<i>Sample Depth:</i>	<i>62 to 65 ft bml</i>		<i>67 to 70 ft bml</i>		<i>72 to 75 ft bml</i>		<i>77 to 80 ft bml</i>		<i>82 to 85 ft bml</i>		<i>87 to 90 ft bml</i>	
<i>elev_MLLW</i>	<i>-99 to -102</i>		<i>-104 to -107</i>		<i>-109 to -112</i>		<i>-114 to -117</i>		<i>-119 to -122</i>		<i>-124 to -127</i>	
<i>elev_NGVD</i>	<i>-105.3 to -108.3</i>		<i>-110.3 to -113.3</i>		<i>-115.3 to -118.3</i>		<i>-120.3 to -123.3</i>		<i>-125.3 to -128.3</i>		<i>-130.3 to -133.3</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.2 U	0.04 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.9 U	0.18 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.5 U	0.1 U	0.025 U	0.286 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L	4.4	1.5 U	0.3 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.4 U	0.08 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	0.3 U	20.4	2.68	63.7	7.36	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Methylene chloride	µg/L	1600	0.9 U	0.18 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.3 U	0.06 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.4 U	0.08 U	0.419 J	1.39	0.16 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Trichloroethene	µg/L	81	0.4 U	0.08 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vinyl chloride	µg/L	2.4	3100	691	47.9	94.6	13.6	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-14</i>		<i>5106-14</i>		<i>5106-14</i>		<i>5106-14</i>		<i>5106-14</i>		<i>5106-19</i>	
<i>Sample ID:</i>	<i>GW-120305-5106-14-021</i>		<i>GW-120305-5106-14-022</i>		<i>GW-120505-5106-14-023</i>		<i>GW-120505-5106-14-024</i>		<i>GW-120505-5106-14-025</i>		<i>GW-011306-5106-19-001</i>	
<i>Sample Date:</i>	<i>12/3/2005</i>		<i>12/3/2005</i>		<i>12/5/2005</i>		<i>12/5/2005</i>		<i>12/5/2005</i>		<i>1/13/2006</i>	
<i>Sample Depth:</i>	<i>87 to 90 ft bml</i>		<i>92 to 95 ft bml</i>		<i>97 to 100 ft bml</i>		<i>102 to 105 ft bml</i>		<i>107 to 110 ft bml</i>		<i>0.5 to 3.5 ft bml</i>	
<i>elev_MLLW</i>	<i>-124 to -127</i>		<i>-129 to -132</i>		<i>-134 to -137</i>		<i>-139 to -142</i>		<i>-144 to -147</i>		<i>-38.6 to -41.6</i>	
<i>elev_NGVD</i>	<i>-130.3 to -133.3</i>		<i>-135.3 to -138.3</i>		<i>-140.3 to -143.3</i>		<i>-145.3 to -148.3</i>		<i>-150.3 to -153.3</i>		<i>-44.9 to -47.9</i>	
<i>Parameters</i>	<i>(Duplicate)</i>											
	<i>Units</i>		<i>CSI</i>		<i>WG</i>							
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.0585 J
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.194 J
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	0.015 U	0.015 U	0.015 U	0.015 U	0.0855 J	0.0855 J	0.354 J	0.354 J	0.354 J	1.64
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.102 J	0.102 J	0.102 J	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	1.98
Trichloroethene	µg/L	81	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vinyl chloride	µg/L	2.4	0.025 U	0.025 U	0.025 U	0.384	0.49	0.49	0.312	0.312	0.312	0.284

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-19</i>		<i>5106-19</i>		<i>5106-19</i>		<i>5106-19</i>		<i>5106-19</i>		<i>5106-19</i>	
<i>Sample ID:</i>	<i>GW-011306-5106-19-002</i>		<i>GW-011406-5106-19-003</i>		<i>GW-011406-5106-19-004</i>		<i>GW-011606-5106-19-005</i>		<i>GW-011606-5106-19-006</i>		<i>GW-011606-5106-19-007</i>	
<i>Sample Date:</i>	<i>1/13/2006</i>		<i>1/14/2006</i>		<i>1/14/2006</i>		<i>1/16/2006</i>		<i>1/16/2006</i>		<i>1/16/2006</i>	
<i>Sample Depth:</i>	<i>10.5 to 13.5 ft bml</i>		<i>20.5 to 23.5 ft bml</i>		<i>30.5 to 33.5 ft bml</i>		<i>40.5 to 43.5 ft bml</i>		<i>50.5 to 53.5 ft bml</i>		<i>60.5 to 63.5 ft bml</i>	
<i>elev_MLLW</i>	<i>-48.6 to -51.6</i>		<i>-58.6 to -61.6</i>		<i>-68.6 to -71.6</i>		<i>-78.6 to -81.6</i>		<i>-88.6 to -91.6</i>		<i>-98.6 to -101.6</i>	
<i>elev_NGVD</i>	<i>-54.9 to -57.9</i>		<i>-64.9 to -67.9</i>		<i>-74.9 to -77.9</i>		<i>-84.9 to -87.9</i>		<i>-94.9 to -97.9</i>		<i>-104.9 to -107.9</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.0625 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	0.118 J	1.24	4.16	0.757	0.054 J	0.0605 J	0.0605 J	0.0605 J	0.0605 J	0.0605 J
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.015 U	0.015 U	0.0575 J	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	7.77	9.11	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Trichloroethene	µg/L	81	0.02 U	2.33	0.782	0.074 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vinyl chloride	µg/L	2.4	0.175	481	227	2.02	0.147	0.147	0.147	0.147	0.147	0.173

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-19</i>		<i>5106-19</i>		<i>5106-19</i>		<i>5106-19</i>		<i>5106-19</i>		<i>5106-19</i>	
<i>Sample ID:</i>	<i>GW-011606-5106-19-008</i>		<i>GW-011606-5106-19-009</i>		<i>GW-011606-5106-19-010</i>		<i>GW-011706-5106-19-011</i>		<i>GW-011706-5106-19-012</i>		<i>GW-011706-5106-19-013</i>	
<i>Sample Date:</i>	<i>1/16/2006</i>		<i>1/16/2006</i>		<i>1/16/2006</i>		<i>1/17/2006</i>		<i>1/17/2006</i>		<i>1/17/2006</i>	
<i>Sample Depth:</i>	<i>70.5 to 73.5 ft bml</i>		<i>80.5 to 83.5 ft bml</i>		<i>90.5 to 93.5 ft bml</i>		<i>100.5 to 103.5 ft bml</i>		<i>100.5 to 103.5 ft bml</i>		<i>110.5 to 113.5 ft bml</i>	
<i>elev_MLLW</i>	<i>-108.6 to -111.6</i>		<i>-118.6 to -121.6</i>		<i>-128.6 to -131.6</i>		<i>-138.6 to -141.6</i>		<i>-138.6 to -141.6</i>		<i>-148.6 to -151.6</i>	
<i>elev_NGVD</i>	<i>-114.9 to -117.9</i>		<i>-124.9 to -127.9</i>		<i>-134.9 to -137.9</i>		<i>-144.9 to -147.9</i>		<i>-144.9 to -147.9</i>		<i>-154.9 to -157.9</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	0.11 J	0.323 J	0.454 J	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.935
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.0635 J
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Trichloroethene	µg/L	81	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.077 J
Vinyl chloride	µg/L	2.4	0.241	1.2	1.22	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	1.93

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-20</i>		<i>5106-20</i>		<i>5106-20</i>		<i>5106-20</i>		<i>5106-20</i>		<i>5106-20</i>	
<i>Sample ID:</i>	<i>GW-010406-5106-20-001</i>		<i>GW-010406-5106-20-002</i>		<i>GW-010406-5106-20-003</i>		<i>GW-010406-5106-20-004</i>		<i>GW-010406-5106-20-005</i>		<i>GW-010506-5106-20-006</i>	
<i>Sample Date:</i>	<i>1/4/2006</i>		<i>1/4/2006</i>		<i>1/4/2006</i>		<i>1/4/2006</i>		<i>1/4/2006</i>		<i>1/5/2006</i>	
<i>Sample Depth:</i>	<i>0.5 to 3.5 ft bml</i>		<i>3.5 to 6.5 ft bml</i>		<i>8.5 to 11.5 ft bml</i>		<i>13.5 to 16.5 ft bml</i>		<i>18.5 to 21.5 ft bml</i>		<i>23.5 to 26.5 ft bml</i>	
<i>elev_MLLW</i>	<i>-35 to -38</i>		<i>-38 to -41</i>		<i>-43 to -46</i>		<i>-48 to -51</i>		<i>-53 to -56</i>		<i>-58 to -61</i>	
<i>elev_NGVD</i>	<i>-41.3 to -44.3</i>		<i>-44.3 to -47.3</i>		<i>-49.3 to -52.3</i>		<i>-54.3 to -57.3</i>		<i>-59.3 to -62.3</i>		<i>-64.3 to -67.3</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.453 J	199	242	65.7 J	176				
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
cis-1,2-Dichloroethene	µg/L	16.00	0.015 U	0.015 U	2370	18900	8310	14800				
Methylene chloride	µg/L	1600	0.045 U	0.045 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
trans-1,2-Dichloroethene	µg/L	10000	0.086 J	21.1	2590	317	44.2 J	116				
Trichloroethene	µg/L	81	0.02 U	0.02 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Vinyl chloride	µg/L	2.4	0.025 U	0.025 U	14200	52300	33500	37500				

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-20		5106-20		5106-20		5106-20		5106-20		5106-20	
<i>Sample ID:</i>	GW-010506-5106-20-007		GW-010506-5106-20-008		GW-010506-5106-20-009		GW-010506-5106-20-010		GW-010506-5106-20-011		GW-010506-5106-20-012	
<i>Sample Date:</i>	1/5/2006		1/5/2006		1/5/2006		1/5/2006		1/5/2006		1/5/2006	
<i>Sample Depth:</i>	28.5 to 31.5 ft bml		28.5 to 31.5 ft bml		33.5 to 36.5 ft bml		38.5 to 41.5 ft bml		43.5 to 46.5 ft bml		48.5 to 51.5 ft bml	
<i>elev_MLLW</i>	-63 to -66		-63 to -66		-68 to -71		-73 to -76		-78 to -81		-83 to -86	
<i>elev_NGVD</i>	-69.3 to -72.3		-69.3 to -72.3		-74.3 to -77.3		-79.3 to -82.3		-84.3 to -87.3		-89.3 to -92.3	
			(Duplicate)									
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	2 U	2 U	10 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
1,1,2-Trichloroethane	µg/L	42	9 U	9 U	45 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U
1,1-Dichloroethene	µg/L	3.2	472	465	537	343	509	314				
Carbon tetrachloride	µg/L	4.4	15 U	15 U	75 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U
Chloroform (Trichloromethane)	µg/L	470	4 U	4 U	20 U	8 U	8 U	8 U	8 U	8 U	8 U	8 U
cis-1,2-Dichloroethene	µg/L	16.00	39800	38600	42900	27100	73000	20400				
Methylene chloride	µg/L	1600	9 U	9 U	45 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U
Tetrachloroethene	µg/L	8.85	3 U	3 U	15 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
trans-1,2-Dichloroethene	µg/L	10000	484	490	1050	994	1090	920				
Trichloroethene	µg/L	81	13.5 J	15.1 J	20 U	8 U	8 U	8 U	8 U	8 U	8 U	8 U
Vinyl chloride	µg/L	2.4	44000	44500	124000	129000	148000	128000				

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	5106-20	5106-20	5106-20	5106-20	5106-20	5106-20
Sample ID:	GW-010506-5106-20-013	GW-010506-5106-20-014	GW-010506-5106-20-015	GW-010506-5106-20-016	GW-010506-5106-20-017	GW-010606-5106-20-018
Sample Date:	1/5/2006	1/5/2006	1/5/2006	1/5/2006	1/5/2006	1/6/2006
Sample Depth:	53.5 to 56.5 ft bml	58.5 to 61.5 ft bml	63.5 to 66.5 ft bml	68.5 to 71.5 ft bml	73.5 to 76.5 ft bml	78.5 to 81.5 ft bml
elev_MLLW	-88 to -91	-93 to -96	-98 to -101	-103 to -106	-108 to -111	-113 to -116
elev_NGVD	-94.3 to -97.3	-99.3 to -102.3	-104.3 to -107.3	-109.3 to -112.3	-114.3 to -117.3	-119.3 to -122.3

Parameters **Units** **CSI** **WG**

VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	2 U	1 U	1 U	0.1 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	9 U	4.5 U	4.5 U	0.45 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	314	14.4 J	6.75 J	1.58 J	0.862	0.0725 J
Carbon tetrachloride	µg/L	4.4	15 U	7.5 U	7.5 U	0.75 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	4 U	2 U	2 U	0.2 U	0.02 U	0.0665 J
cis-1,2-Dichloroethene	µg/L	16.00	40100	3320	1560	249	98	17.6
Methylene chloride	µg/L	1600	9 U	4.5 U	4.5 U	0.45 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	3 U	1.5 U	1.5 U	0.15 U	0.117 J	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	382	29 J	89.4	4.7 J	2.36	0.23 J
Trichloroethene	µg/L	81	18.1 J	2 U	2 U	0.65 J	0.27 J	0.074 J
Vinyl chloride	µg/L	2.4	24900	15000	23900	1230	271	19

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-20</i>		<i>5106-20</i>		<i>5106-20</i>		<i>5106-21</i>		<i>5106-21</i>		<i>5106-21</i>	
<i>Sample ID:</i>	<i>GW-010606-5106-20-019</i>		<i>GW-010606-5106-20-020</i>		<i>GW-010606-5106-20-021</i>		<i>GW-010606-5106-21-001</i>		<i>GW-010606-5106-21-002</i>		<i>GW-010606-5106-21-003</i>	
<i>Sample Date:</i>	<i>1/6/2006</i>		<i>1/6/2006</i>		<i>1/6/2006</i>		<i>1/6/2006</i>		<i>1/6/2006</i>		<i>1/6/2006</i>	
<i>Sample Depth:</i>	<i>83.5 to 86.5 ft bml</i>		<i>88.5 to 91.5 ft bml</i>		<i>93.5 to 96.5 ft bml</i>		<i>0.5 to 3.5 ft bml</i>		<i>5.5 to 8.5 ft bml</i>		<i>10.5 to 13.5 ft bml</i>	
<i>elev_MLLW</i>	<i>-118 to -121</i>		<i>-123 to -126</i>		<i>-128 to -131</i>		<i>-37.6 to -40.6</i>		<i>-42.6 to -45.6</i>		<i>-47.6 to -50.6</i>	
<i>elev_NGVD</i>	<i>-124.3 to -127.3</i>		<i>-129.3 to -132.3</i>		<i>-134.3 to -137.3</i>		<i>-43.9 to -46.9</i>		<i>-48.9 to -51.9</i>		<i>-53.9 to -56.9</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.246 J	0.01 U	0.01 U	0.01 U	23.6 J	2 U			
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.33 J	0.0845 J	0.117 J	0.117 J	47 J	9 U			
1,1-Dichloroethene	µg/L	3.2	0.025 U	3.05	0.093 J	0.13 J	0.13 J	45.2 J	5 U			
Carbon tetrachloride	µg/L	4.4	0.075 U	0.3 U	0.075 U	0.075 U	0.075 U	30 U	15 U			
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.08 U	0.0505 J	0.0705 J	0.0705 J	21.6 J	10.7 J			
cis-1,2-Dichloroethene	µg/L	16.00	1.81	258	6.21	4.42	4.42	782	45.6 J			
Methylene chloride	µg/L	1600	0.045 U	0.18 U	0.045 U	0.045 U	0.045 U	18 U	9 U			
Tetrachloroethene	µg/L	8.85	0.0605 J	0.236 J	0.0575 J	0.248 J	0.248 J	6 U	3 U			
trans-1,2-Dichloroethene	µg/L	10000	0.054 J	8.14	0.194 J	0.203 J	0.203 J	298	55 J			
Trichloroethene	µg/L	81	0.117 J	0.354 J	0.0635 J	0.704	0.704	8 U	4 U			
Vinyl chloride	µg/L	2.4	7.85	1050	18	144	144	90900	57800			

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	5106-21	5106-21	5106-21	5106-21	5106-21	5106-21
Sample ID:	GW-010906-5106-21-004	GW-010906-5106-21-005	GW-010906-5106-21-006	GW-010906-5106-21-007	GW-011006-5106-21-008	GW-011006-5106-21-009
Sample Date:	1/9/2006	1/9/2006	1/9/2006	1/9/2006	1/10/2006	1/10/2006
Sample Depth:	15.5 to 18.5 ft bml	20.5 to 23.5 ft bml	25.5 to 28.5 ft bml	30.5 to 33.5 ft bml	35.5 to 38.5 ft bml	35.5 to 38.5 ft bml
elev_MLLW	-52.6 to -55.6	-57.6 to -60.6	-62.6 to -65.6	-67.6 to -70.6	-72.6 to -75.6	-72.6 to -75.6
elev_NGVD	-58.9 to -61.9	-63.9 to -66.9	-68.9 to -71.9	-73.9 to -76.9	-78.9 to -81.9	-78.9 to -81.9
						(Duplicate)

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	4 U	4 U	10 U	10 U	10 U	2 U
1,1,2-Trichloroethane	µg/L	42	18 U	18 U	45 U	45 U	45 U	9 U
1,1-Dichloroethene	µg/L	3.2	53.8 J	385	220 J	396 J	72.5 J	60.1 J
Carbon tetrachloride	µg/L	4.4	30 U	30 U	75 U	75 U	75 U	15 U
Chloroform (Trichloromethane)	µg/L	470	8 U	8 U	20 U	20 U	20 U	4 U
cis-1,2-Dichloroethene	µg/L	16.00	6200	76000	26500	36600	8990	9240
Methylene chloride	µg/L	1600	18 U	18 U	45 U	45 U	45 U	9 U
Tetrachloroethene	µg/L	8.85	6 U	6 U	15 U	15 U	15 U	3 U
trans-1,2-Dichloroethene	µg/L	10000	258	560	749	977	319 J	320
Trichloroethene	µg/L	81	8 U	8 U	20 U	20 U	20 U	4 U
Vinyl chloride	µg/L	2.4	74000	79400	166000	181000	66400	65500

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-21		5106-21		5106-21		5106-21		5106-21		5106-21	
<i>Sample ID:</i>	GW-011006-5106-21-010		GW-011006-5106-21-011		GW-011006-5106-21-012		GW-011006-5106-21-013		GW-011006-5106-21-014		GW-011006-5106-21-015	
<i>Sample Date:</i>	1/10/2006		1/10/2006		1/10/2006		1/10/2006		1/10/2006		1/10/2006	
<i>Sample Depth:</i>	40.5 to 43.5 ft bml		45.5 to 48.5 ft bml		50.5 to 53.5 ft bml		55.5 to 58.5 ft bml		60.5 to 63.5 ft bml		65.5 to 68.5 ft bml	
<i>elev_MLLW</i>	-77.6 to -80.6		-82.6 to -85.6		-87.6 to -90.6		-92.6 to -95.6		-97.6 to -100.6		-102.6 to -105.6	
<i>elev_NGVD</i>	-83.9 to -86.9		-88.9 to -91.9		-93.9 to -96.9		-98.9 to -101.9		-103.9 to -106.9		-108.9 to -111.9	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	4 U	2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.053 J			
1,1,2-Trichloroethane	µg/L	42	18 U	9 U	1.8 U	0.9 U	0.9 U	0.9 U	0.045 U			
1,1-Dichloroethene	µg/L	3.2	43.8 J	5 U	1 U	0.5 U	2.42 J	0.558				
Carbon tetrachloride	µg/L	4.4	30 U	15 U	3 U	1.5 U	1.5 U	0.075 U				
Chloroform (Trichloromethane)	µg/L	470	8 U	4 U	0.8 U	0.4 U	0.4 U	0.02 U				
cis-1,2-Dichloroethene	µg/L	16.00	5530	15.6 J	30	282	1510	73.5				
Methylene chloride	µg/L	1600	18 U	9 U	1.8 U	0.9 U	0.9 U	0.045 U				
Tetrachloroethene	µg/L	8.85	6 U	3 U	0.6 U	0.3 U	0.3 U	0.0645 J				
trans-1,2-Dichloroethene	µg/L	10000	120 J	30.3 J	0.8 U	1.15 J	2.82 J	1.29				
Trichloroethene	µg/L	81	8 U	4 U	0.8 U	0.4 U	0.4 U	0.0715 J				
Vinyl chloride	µg/L	2.4	69700	35500	8600	4690	5520	292				

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-21		5106-21		5106-21		5106-21		5106-22		5106-22	
<i>Sample ID:</i>	GW-011006-5106-21-016		GW-011006-5106-21-017		GW-011006-5106-21-018		GW-011106-5106-21-019		GW-012506-5106-22-001		GW-012506-5106-22-002	
<i>Sample Date:</i>	1/10/2006		1/10/2006		1/10/2006		1/11/2006		1/25/2006		1/25/2006	
<i>Sample Depth:</i>	70.5 to 73.5 ft bml		75.5 to 78.5 ft bml		80.5 to 83.5 ft bml		85.5 to 88.5 ft bml		0 to 3 ft bml		0 to 3 ft bml	
<i>elev_MLLW</i>	-107.6 to -110.6		-112.6 to -115.6		-117.6 to -120.6		-122.6 to -125.6		-29.2 to -32.2		-29.2 to -32.2	
<i>elev_NGVD</i>	-113.9 to -116.9		-118.9 to -121.9		-123.9 to -126.9		-128.9 to -131.9		-35.5 to -38.5		-35.5 to -38.5 (Duplicate)	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.39 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	59.1	0.059 J	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.948	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	169	0.176	0.153	0.153	0.153	0.153	0.153	5.03	2.5 J	2.5 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-22</i>		<i>5106-22</i>		<i>5106-22</i>		<i>5106-22</i>		<i>5106-22</i>		<i>5106-22</i>	
<i>Sample ID:</i>	<i>GW-012506-5106-22-003</i>		<i>GW-012506-5106-22-004</i>		<i>GW-012506-5106-22-005</i>		<i>GW-012506-5106-22-006</i>		<i>GW-012606-5106-22-007</i>		<i>GW-012606-5106-22-008</i>	
<i>Sample Date:</i>	<i>1/25/2006</i>		<i>1/25/2006</i>		<i>1/25/2006</i>		<i>1/25/2006</i>		<i>1/26/2006</i>		<i>1/26/2006</i>	
<i>Sample Depth:</i>	<i>10 to 13 ft bml</i>		<i>20 to 23 ft bml</i>		<i>30 to 33 ft bml</i>		<i>40 to 43 ft bml</i>		<i>50 to 53 ft bml</i>		<i>60 to 63 ft bml</i>	
<i>elev_MLLW</i>	<i>-39.2 to -42.2</i>		<i>-49.2 to -52.2</i>		<i>-59.2 to -62.2</i>		<i>-69.2 to -72.2</i>		<i>-79.2 to -82.2</i>		<i>-89.2 to -92.2</i>	
<i>elev_NGVD</i>	<i>-45.5 to -48.5</i>		<i>-55.5 to -58.5</i>		<i>-65.5 to -68.5</i>		<i>-75.5 to -78.5</i>		<i>-85.5 to -88.5</i>		<i>-95.5 to -98.5</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-22		5106-22		5106-22		5106-22		5106-22		5106-23	
<i>Sample ID:</i>	GW-012606-5106-22-009		GW-012606-5106-22-010		GW-012606-5106-22-011		GW-012606-5106-22-012		GW-012606-5106-22-013		GW-021006-5106-23-001	
<i>Sample Date:</i>	1/26/2006		1/26/2006		1/26/2006		1/26/2006		1/26/2006		2/10/2006	
<i>Sample Depth:</i>	70 to 73 ft bml		80 to 83 ft bml		90 to 93 ft bml		100 to 103 ft bml		110 to 113 ft bml		0 to 3 ft bml	
<i>elev_MLLW</i>	-99.2 to -102.2		-109.2 to -112.2		-119.2 to -122.2		-129.2 to -132.2		-139.2 to -142.2		-2.6 to -5.6	
<i>elev_NGVD</i>	-105.5 to -108.5		-115.5 to -118.5		-125.5 to -128.5		-135.5 to -138.5		-145.5 to -148.5		-8.9 to -11.9	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.131 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.103 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.168 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.229 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.194 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	4.78
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.11 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.306 J
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.142 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	3.13
Vinyl chloride	µg/L	2.4	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	1.68

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-23		5106-23		5106-23		5106-23		5106-23		5106-23	
<i>Sample ID:</i>	GW-021006-5106-23-002		GW-021006-5106-23-003		GW-021006-5106-23-004		GW-021006-5106-23-005		GW-021006-5106-23-006		GW-021006-5106-23-007	
<i>Sample Date:</i>	2/10/2006		2/10/2006		2/10/2006		2/10/2006		2/10/2006		2/10/2006	
<i>Sample Depth:</i>	7 to 10 ft bml		7 to 10 ft bml		12 to 15 ft bml		17 to 20 ft bml		22 to 25 ft bml		27 to 30 ft bml	
<i>elev_MLLW</i>	-9.6 to -12.6		-9.6 to -12.6		-14.6 to -17.6		-19.6 to -22.6		-24.6 to -27.6		-29.6 to -32.6	
<i>elev_NGVD</i>	-15.9 to -18.9		-15.9 to -18.9		-20.9 to -23.9		-25.9 to -28.9		-30.9 to -33.9		-35.9 to -38.9	
<i>Parameters</i>	<i>Units</i>		<i>CSI</i>		<i>WG</i>							
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.131 U	0.131 U	0.131 U	0.131 U	0.131 U	0.131 U	0.131 U	0.131 U	0.131 U	0.131 U
1,1,2-Trichloroethane	µg/L	42	0.219 J	0.182 J	0.103 U	0.103 U	0.103 U	0.103 U	0.103 U	0.103 U	0.103 U	0.103 U
1,1-Dichloroethene	µg/L	3.2	0.222 J	0.211 J	0.168 U	0.168 U	0.168 U	0.168 U	0.168 U	0.168 U	0.168 U	0.168 U
Carbon tetrachloride	µg/L	4.4	0.229 U	0.229 U	0.229 U	0.229 U	0.229 U	0.229 U	0.229 U	0.229 U	0.229 U	0.229 U
Chloroform (Trichloromethane)	µg/L	470	0.194 U	0.194 U	0.194 U	0.194 U	0.194 U	0.194 U	0.194 U	0.194 U	0.194 U	0.194 U
cis-1,2-Dichloroethene	µg/L	16.00	1.65	1.66	0.142 U	0.142 U	0.142 U	0.142 U	0.142 U	0.142 U	0.567 J	0.567 J
Methylene chloride	µg/L	1600	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Tetrachloroethene	µg/L	8.85	0.139 U	0.139 U	0.139 U	0.139 U	0.139 U	0.139 U	0.139 U	0.139 U	0.139 U	0.139 U
trans-1,2-Dichloroethene	µg/L	10000	0.142 U	0.347 J	0.142 U	0.142 U	0.142 U	0.142 U	0.142 U	0.142 U	0.142 U	0.142 U
Trichloroethene	µg/L	81	0.186 J	0.162 J	0.0968 U	0.0968 U	0.0968 U	0.0968 U	0.21 J	0.21 J	0.125 J	0.125 J
Vinyl chloride	µg/L	2.4	0.253 J	0.222 U	0.222 U	0.222 U	0.222 U	0.222 U	0.222 U	0.222 U	0.222 U	0.222 U

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-23		5106-23		5106-23		5106-24		5106-24		5106-24	
<i>Sample ID:</i>	GW-021006-5106-23-008		GW-021006-5106-23-009		GW-021006-5106-23-010		GW-020806-5106-24-001		GW-020806-5106-24-002		GW-020806-5106-24-003	
<i>Sample Date:</i>	2/10/2006		2/10/2006		2/10/2006		2/8/2006		2/8/2006		2/8/2006	
<i>Sample Depth:</i>	32 to 35 ft bml		37 to 40 ft bml		42 to 45 ft bml		2 to 5 ft bml		7 to 10 ft bml		12 to 15 ft bml	
<i>elev_MLLW</i>	-34.6 to -37.6		-39.6 to -42.6		-44.6 to -47.6		-4.2 to -7.2		-9.2 to -12.2		-14.2 to -17.2	
<i>elev_NGVD</i>	-40.9 to -43.9		-45.9 to -48.9		-50.9 to -53.9		-10.5 to -13.5		-15.5 to -18.5		-20.5 to -23.5	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	13.1 U	13.1 U	13.1 U	0.068 U	0.068 U	0.068 U				
1,1,2-Trichloroethane	µg/L	42	10.3 U	10.3 U	51.4 U	0.0939 U	2.28	0.714 J				
1,1-Dichloroethene	µg/L	3.2	16.8 U	16.8 U	36.7 J	0.177 U	0.212 J	0.177 U				
Carbon tetrachloride	µg/L	4.4	22.9 U	22.9 U	22.9 U	0.137 U	0.137 U	0.137 U				
Chloroform (Trichloromethane)	µg/L	470	19.4 U	19.4 U	19.4 U	0.181 U	0.181 U	0.181 U				
cis-1,2-Dichloroethene	µg/L	16.00	120	715	4170	0.154 U	0.154 U	0.154 U				
Methylene chloride	µg/L	1600	11 U	11 U	55.2 U	0.155 U	0.155 U	0.155 U				
Tetrachloroethene	µg/L	8.85	13.9 U	13.9 U	69.3 U	0.184 J	0.144 U	0.144 U				
trans-1,2-Dichloroethene	µg/L	10000	14.2 U	69.8 J	96.3 J	0.145 U	76.1	1.87				
Trichloroethene	µg/L	81	9.68 U	9.68 U	48.4 U	1.72 J	0.126 U	0.126 U				
Vinyl chloride	µg/L	2.4	5510	3700	11500	0.162 U	55.4	0.162 U				

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-24		5106-24		5106-24		5106-24		5106-24			
<i>Sample ID:</i>	GW-020806-5106-24-004		GW-020806-5106-24-005		GW-020806-5106-24-006		GW-020806-5106-24-007		GW-020806-5106-24-008		GW-020806-5106-24-009	
<i>Sample Date:</i>	2/8/2006		2/8/2006		2/8/2006		2/8/2006		2/8/2006		2/8/2006	
<i>Sample Depth:</i>	12 to 15 ft bml		17 to 20 ft bml		22 to 25 ft bml		27 to 30 ft bml		32 to 35 ft bml		37 to 40 ft bml	
<i>elev_MLLW</i>	-14.2 to -17.2		-19.2 to -22.2		-24.2 to -27.2		-29.2 to -32.2		-34.2 to -37.2		-39.2 to -42.2	
<i>elev_NGVD</i>	-20.5 to -23.5		-25.5 to -28.5		-30.5 to -33.5		-35.5 to -38.5		-40.5 to -43.5		-45.5 to -48.5	
<i>Parameters</i>	(Duplicate)											
	Units		CSI		WG							
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	6.8 U	0.068 U	0.068 U	68 U				
1,1,2-Trichloroethane	µg/L	42	0.607 J	0.43 J	9.39 U	0.65 J	3.77	93.9 U				
1,1-Dichloroethene	µg/L	3.2	0.177 U	0.177 U	0.378 J	0.177 U	0.83 J	198 J				
Carbon tetrachloride	µg/L	4.4	0.137 U	0.137 U	13.7 U	0.137 U	0.137 U	137 U				
Chloroform (Trichloromethane)	µg/L	470	0.181 U	0.181 U	18.1 U	0.181 U	0.181 U	181 U				
cis-1,2-Dichloroethene	µg/L	16.00	0.154 U	0.154 U	15.4 U	0.154 U	25.8	154 U				
Methylene chloride	µg/L	1600	0.155 U	0.155 U	15.5 U	0.155 U	0.155 U	155 U				
Tetrachloroethene	µg/L	8.85	0.144 U	0.144 U	14.4 U	0.168 J	0.144 U	144 U				
trans-1,2-Dichloroethene	µg/L	10000	1.84	0.145 U	14.5 U	0.395 J	12.5	248 J				
Trichloroethene	µg/L	81	0.126 U	0.126 U	12.6 U	2.06	0.88 J	126 U				
Vinyl chloride	µg/L	2.4	0.162 U	0.162 U	106	0.162 U	0.162 U	31000				

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-24	5106-24	5106-24	5106-24	5106-24	5106-24
<i>Sample ID:</i>		GW-020906-5106-24-010	GW-020906-5106-24-011	GW-020906-5106-24-012	GW-020906-5106-24-013	GW-020906-5106-24-014	GW-020906-5106-24-015
<i>Sample Date:</i>		2/9/2006	2/9/2006	2/9/2006	2/9/2006	2/9/2006	2/9/2006
<i>Sample Depth:</i>		42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml	57 to 60 ft bml	62 to 65 ft bml	67 to 70 ft bml
<i>elev_MLLW</i>		-44.2 to -47.2	-49.2 to -52.2	-54.2 to -57.2	-59.2 to -62.2	-64.2 to -67.2	-69.2 to -72.2
<i>elev_NGVD</i>		-50.5 to -53.5	-55.5 to -58.5	-60.5 to -63.5	-65.5 to -68.5	-70.5 to -73.5	-75.5 to -78.5
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
VOAs							
1,1,2,2-Tetrachloroethane	µg/L	11	68 U	68 U	68 U	68 U	68 U
1,1,2-Trichloroethane	µg/L	42	93.9 U	93.9 U	93.9 U	93.9 U	93.9 U
1,1-Dichloroethene	µg/L	3.2	464 J	273 J	474 J	254 J	177 U
Carbon tetrachloride	µg/L	4.4	137 U	137 U	137 U	137 U	137 U
Chloroform (Trichloromethane)	µg/L	470	181 U	181 U	181 U	181 U	181 U
cis-1,2-Dichloroethene	µg/L	16.00	54000	36000	69000	31700	20900
Methylene chloride	µg/L	1600	155 U	155 U	155 U	155 U	155 U
Tetrachloroethene	µg/L	8.85	144 U	144 U	144 U	144 U	144 U
trans-1,2-Dichloroethene	µg/L	10000	463 J	286 J	438 J	229 J	145 U
Trichloroethene	µg/L	81	126 U	126 U	126 U	126 U	126 U
Vinyl chloride	µg/L	2.4	73400	37700	50800	38800	14100
			38200				

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>5106-24</i>		<i>5106-24</i>		<i>5106-24</i>		<i>5106-24</i>		<i>5106-24</i>		<i>5106-24</i>	
<i>Sample ID:</i>	<i>GW-020906-5106-24-016</i>		<i>GW-020906-5106-24-017</i>		<i>GW-020906-5106-24-018</i>		<i>GW-020906-5106-24-019</i>		<i>GW-020906-5106-24-020</i>		<i>GW-020906-5106-24-021</i>	
<i>Sample Date:</i>	<i>2/9/2006</i>		<i>2/9/2006</i>		<i>2/9/2006</i>		<i>2/9/2006</i>		<i>2/9/2006</i>		<i>2/9/2006</i>	
<i>Sample Depth:</i>	<i>72 to 75 ft bml</i>		<i>77 to 80 ft bml</i>		<i>82 to 85 ft bml</i>		<i>87 to 90 ft bml</i>		<i>92 to 95 ft bml</i>		<i>97 to 100 ft bml</i>	
<i>elev_MLLW</i>	<i>-74.2 to -77.2</i>		<i>-79.2 to -82.2</i>		<i>-84.2 to -87.2</i>		<i>-89.2 to -92.2</i>		<i>-94.2 to -97.2</i>		<i>-99.2 to -102.2</i>	
<i>elev_NGVD</i>	<i>-80.5 to -83.5</i>		<i>-85.5 to -88.5</i>		<i>-90.5 to -93.5</i>		<i>-95.5 to -98.5</i>		<i>-100.5 to -103.5</i>		<i>-105.5 to -108.5</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	68 U	68 U	6.8 U	6.8 U	0.131 U	0.131 U				
1,1,2-Trichloroethane	µg/L	42	93.9 U	93.9 U	9.39 U	9.39 U	0.103 U	0.103 U				
1,1-Dichloroethene	µg/L	3.2	177 U	177 U	17.7 U	17.7 U	0.253 J	0.168 U				
Carbon tetrachloride	µg/L	4.4	137 U	137 U	13.7 U	13.7 U	0.229 U	0.229 U				
Chloroform (Trichloromethane)	µg/L	470	181 U	181 U	18.1 U	18.1 U	0.194 U	0.194 U				
cis-1,2-Dichloroethene	µg/L	16.00	5620	154 U	64.6 J	30 J	99.7					
Methylene chloride	µg/L	1600	155 U	155 U	15.5 U	15.5 U	0.11 U	0.11 U				
Tetrachloroethene	µg/L	8.85	144 U	144 U	14.4 U	14.4 U	0.175 J	0.172 J				
trans-1,2-Dichloroethene	µg/L	10000	145 U	145 U	14.5 U	14.5 U	1.23	0.142 U				
Trichloroethene	µg/L	81	126 U	126 U	12.6 U	12.6 U	1.59	2.23				
Vinyl chloride	µg/L	2.4	62500	36900	1180	496	300	25				

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-25	5106-25	5106-25	5106-25	5106-25	5106-25
<i>Sample ID:</i>	GW-042706-5106-25-009	GW-042706-5106-25-010	GW-041406-5106-25-001	GW-041406-5106-25-002	GW-041706-5106-25-003	GW-041706-5106-25-004
<i>Sample Date:</i>	4/27/2006	4/27/2006	4/14/2006	4/14/2006	4/17/2006	4/17/2006
<i>Sample Depth:</i>	1 to 5 ft bml	9 to 13 ft bml	19 to 23 ft bml	29 to 33 ft bml	39 to 43 ft bml	49 to 53 ft bml
<i>elev_MLLW</i>	-3.2 to -7.2	-11.2 to -15.2	-21.2 to -25.2	-31.2 to -35.2	-41.2 to -45.2	-51.2 to -55.2
<i>elev_NGVD</i>	-9.5 to -13.5	-17.5 to -21.5	-27.5 to -31.5	-37.5 to -41.5	-47.5 to -51.5	-57.5 to -61.5

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.081 U	41 U	41 U	81 U	4.1 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.082 U	41 U	41 U	82 U	4.1 U
1,1-Dichloroethene	µg/L	3.2	0.086 U	130 J	93 J	43 U	240 J	5.5 J
Carbon tetrachloride	µg/L	4.4	0.082 U	0.082 U	41 U	41 U	82 U	4.1 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	0.070 U	35 U	35 U	70 U	3.5 U
cis-1,2-Dichloroethene	µg/L	16.00	0.062 U	6700	2500	600	24000	650
Methylene chloride	µg/L	1600	0.31 U	0.31 U	150 U	150 U	310 U	15 U
Tetrachloroethene	µg/L	8.85	0.066 U	0.066 U	33 U	33 U	66 U	3.3 U
trans-1,2-Dichloroethene	µg/L	10000	0.091 U	83 J	83 J	56 J	300 J	5.1 J
Trichloroethene	µg/L	81	0.055 U	0.84 J	28 U	28 U	55 U	2.8 U
Vinyl chloride	µg/L	2.4	0.14 U	19000	25000	27000	37000	1800

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-25	5106-25	5106-25	5106-25	5106-26	5106-26	
<i>Sample ID:</i>		GW-041806-5106-25-005	GW-041806-5106-25-006	GW-041806-5106-25-007	GW-041806-5106-25-008	GW-021406-5106-26-001	GW-021406-5106-26-002	
<i>Sample Date:</i>		4/18/2006	4/18/2006	4/18/2006	4/18/2006	2/14/2006	2/14/2006	
<i>Sample Depth:</i>		59 to 63 ft bml	69 to 73 ft bml	69 to 73 ft bml	79 to 83 ft bml	0 to 3 ft bml	7 to 10 ft bml	
<i>elev_MLLW</i>		-61.2 to -65.2	-71.2 to -75.2	-71.2 to -75.2	-81.2 to -85.2	1.9 to -1.1	-5.1 to -8.1	
<i>elev_NGVD</i>		-67.5 to -71.5	-77.5 to -81.5	-77.5 to -81.5	-87.5 to -91.5	-4.4 to -7.4	-11.4 to -14.4	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	4.1 U	0.81 U	0.81 U	0.081 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	4.1 U	0.82 U	0.82 U	0.082 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	4.3 U	0.86 U	0.86 U	0.086 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	4.1 U	0.82 U	0.82 U	0.082 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	3.5 U	0.70 U	0.70 U	0.070 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	1200	330	350	0.062 U	1.1 J	5.0
Methylene chloride	µg/L	1600	15 U	3.1 U	3.1 U	0.31 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	3.3 U	0.66 U	0.66 U	0.066 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	4.6 U	0.91 U	0.91 U	0.091 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	2.8 U	0.55 U	0.55 U	0.055 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	1700	280	300	0.48 J	1.4 J	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-26</i>	<i>5106-26</i>	<i>5106-26</i>	<i>5106-26</i>	<i>5106-26</i>	<i>5106-26</i>
<i>Sample ID:</i>	<i>GW-021406-5106-26-003</i>	<i>GW-021406-5106-26-004</i>	<i>GW-021406-5106-26-005</i>	<i>GW-021406-5106-26-006</i>	<i>GW-021406-5106-26-007</i>	<i>GW-021406-5106-26-008</i>
<i>Sample Date:</i>	<i>2/14/2006</i>	<i>2/14/2006</i>	<i>2/14/2006</i>	<i>2/14/2006</i>	<i>2/14/2006</i>	<i>2/14/2006</i>
<i>Sample Depth:</i>	<i>12 to 15 ft bml</i>	<i>17 to 20 ft bml</i>	<i>22 to 25 ft bml</i>	<i>27 to 30 ft bml</i>	<i>32 to 35 ft bml</i>	<i>37 to 40 ft bml</i>
<i>elev_MLLW</i>	<i>-10.1 to -13.1</i>	<i>-15.1 to -18.1</i>	<i>-20.1 to -23.1</i>	<i>-25.1 to -28.1</i>	<i>-30.1 to -33.1</i>	<i>-35.1 to -38.1</i>
<i>elev_NGVD</i>	<i>-16.4 to -19.4</i>	<i>-21.4 to -24.4</i>	<i>-26.4 to -29.4</i>	<i>-31.4 to -34.4</i>	<i>-36.4 to -39.4</i>	<i>-41.4 to -44.4</i>

Parameters *Units* *CSI* *WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	33	66
1,1-Dichloroethene	µg/L	3.2	0.30 U	290	540	780	690	760
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	18	22000	27000	52000	52000	81000
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	130	580	830	850	1000
Trichloroethene	µg/L	81	0.16 U	0.16 U	1.0 J	2.5 J	9.6	10
Vinyl chloride	µg/L	2.4	2.8 J	12000	8400	31000	47000	36000

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-26	5106-26	5106-26	5106-26	5106-26	5106-26
<i>Sample ID:</i>		GW-021406-5106-26-009	GW-021506-5106-26-010	GW-021506-5106-26-011	GW-021506-5106-26-012	GW-021506-5106-26-013	GW-021506-5106-26-014
<i>Sample Date:</i>		2/14/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006
<i>Sample Depth:</i>		37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml	57 to 60 ft bml	62 to 65 ft bml
<i>elev_MLLW</i>		-35.1 to -38.1	-40.1 to -43.1	-45.1 to -48.1	-50.1 to -53.1	-55.1 to -58.1	-60.1 to -63.1
<i>elev_NGVD</i>		-41.4 to -44.4	-46.4 to -49.4	-51.4 to -54.4	-56.4 to -59.4	-61.4 to -64.4	-66.4 to -69.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
VOAs							
1,1,2,2-Tetrachloroethane	µg/L 11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L 42	65	70	25	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L 3.2	760	1000	260	4.0 J	0.30 U	0.30 U
Carbon tetrachloride	µg/L 4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L 470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L 16.00	81000	120000	30000	280	39	76
Methylene chloride	µg/L 1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L 8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L 10000	1100	1500	340	3.6 J	0.19 U	0.19 U
Trichloroethene	µg/L 81	11	10	3.2 J	0.38 J	0.16 U	0.16 U
Vinyl chloride	µg/L 2.4	36000	24000	8400	720	15	34

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-26</i>		<i>5106-26</i>		<i>5106-26</i>		<i>5106-26</i>		<i>5106-26</i>		<i>5106-26</i>	
<i>Sample ID:</i>	<i>GW-021506-5106-26-015</i>		<i>GW-021506-5106-26-016</i>		<i>GW-021506-5106-26-017</i>		<i>GW-021606-5106-26-018</i>		<i>GW-021606-5106-26-019</i>		<i>GW-021606-5106-26-020</i>	
<i>Sample Date:</i>	<i>2/15/2006</i>		<i>2/15/2006</i>		<i>2/15/2006</i>		<i>2/16/2006</i>		<i>2/16/2006</i>		<i>2/16/2006</i>	
<i>Sample Depth:</i>	<i>67 to 70 ft bml</i>		<i>72 to 75 ft bml</i>		<i>77 to 80 ft bml</i>		<i>82 to 85 ft bml</i>		<i>87 to 90 ft bml</i>		<i>92 to 95 ft bml</i>	
<i>elev_MLLW</i>	<i>-65.1 to -68.1</i>		<i>-70.1 to -73.1</i>		<i>-75.1 to -78.1</i>		<i>-80.1 to -83.1</i>		<i>-85.1 to -88.1</i>		<i>-90.1 to -93.1</i>	
<i>elev_NGVD</i>	<i>-71.4 to -74.4</i>		<i>-76.4 to -79.4</i>		<i>-81.4 to -84.4</i>		<i>-86.4 to -89.4</i>		<i>-91.4 to -94.4</i>		<i>-96.4 to -99.4</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	2.9 J	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	330	23	46	3.5 J	5.6	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	2.2 J	2.2 J	2.1 J	2.2 J	2.1 J	2.2 J	2.2 J	2.2 J
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	3.3 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	1.6 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	160	12	8.8	0.23 U	1.2 J	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-27</i>		<i>5106-27</i>		<i>5106-27</i>		<i>5106-27</i>		<i>5106-27</i>		<i>5106-27</i>	
<i>Sample ID:</i>	<i>GW-041006-5106-27-001</i>		<i>GW-041006-5106-27-002</i>		<i>GW-041006-5106-27-003</i>		<i>GW-041106-5106-27-004</i>		<i>GW-041106-5106-27-005</i>		<i>GW-041106-5106-27-006</i>	
<i>Sample Date:</i>	<i>4/10/2006</i>		<i>4/10/2006</i>		<i>4/10/2006</i>		<i>4/11/2006</i>		<i>4/11/2006</i>		<i>4/11/2006</i>	
<i>Sample Depth:</i>	<i>0 to 4 ft bml</i>		<i>5 to 9 ft bml</i>		<i>10 to 14 ft bml</i>		<i>15 to 19 ft bml</i>		<i>19 to 23 ft bml</i>		<i>30 to 34 ft bml</i>	
<i>elev_MLLW</i>	<i>-0.4 to -4.4</i>		<i>-5.4 to -9.4</i>		<i>-10.4 to -14.4</i>		<i>-15.4 to -19.4</i>		<i>-19.4 to -23.4</i>		<i>-30.4 to -34.4</i>	
<i>elev_NGVD</i>	<i>-6.7 to -10.7</i>		<i>-11.7 to -15.7</i>		<i>-16.7 to -20.7</i>		<i>-21.7 to -25.7</i>		<i>-25.7 to -29.7</i>		<i>-36.7 to -40.7</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	1.6 U	81 U			
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	1.6 U	82 U			
1,1-Dichloroethene	µg/L	3.2	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	5.1 J	290 J			
Carbon tetrachloride	µg/L	4.4	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	1.6 U	82 U			
Chloroform (Trichloromethane)	µg/L	470	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	1.4 U	70 U			
cis-1,2-Dichloroethene	µg/L	16.00	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	740	25000			
Methylene chloride	µg/L	1600	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	6.2 U	310 U			
Tetrachloroethene	µg/L	8.85	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	1.3 U	66 U			
trans-1,2-Dichloroethene	µg/L	10000	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	1.8 U	140 J			
Trichloroethene	µg/L	81	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	1.1 U	55 U			
Vinyl chloride	µg/L	2.4	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	370	12000			

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-27		5106-27		5106-27		5106-27		5106-27		5106-27	
<i>Sample ID:</i>	GW-041106-5106-27-007		GW-041106-5106-27-008		GW-041106-5106-27-009		GW-041206-5106-27-010		GW-041206-5106-27-011		GW-041206-5106-27-012	
<i>Sample Date:</i>	4/11/2006		4/11/2006		4/11/2006		4/12/2006		4/12/2006		4/12/2006	
<i>Sample Depth:</i>	39 to 43 ft bml		49 to 53 ft bml		49 to 53 ft bml		59 to 63 ft bml		69 to 73 ft bml		79 to 83 ft bml	
<i>elev_MLLW</i>	-39.4 to -43.4		-49.4 to -53.4		-49.4 to -53.4		-59.4 to -63.4		-69.4 to -73.4		-79.4 to -83.4	
<i>elev_NGVD</i>	-45.7 to -49.7		-55.7 to -59.7		-55.7 to -59.7		-65.7 to -69.7		-75.7 to -79.7		-85.7 to -89.7	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	81 U	0.81 U	0.81 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	82 U	0.82 U	0.82 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	160 J	3.3 J	3.2 J	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.29 J
Carbon tetrachloride	µg/L	4.4	82 U	0.82 U	0.82 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	70 U	0.70 U	0.70 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	29000	350	350	0.42 J	0.42 J	0.42 J	0.42 J	0.42 J	0.42 J	36
Methylene chloride	µg/L	1600	310 U	3.1 U	3.1 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Tetrachloroethene	µg/L	8.85	66 U	0.66 U	0.66 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
trans-1,2-Dichloroethene	µg/L	10000	510 J	3.5 J	3.4 J	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.85 J
Trichloroethene	µg/L	81	55 U	0.55 U	0.55 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U
Vinyl chloride	µg/L	2.4	36000	160	170	0.33 J	0.33 J	0.33 J	0.33 J	0.33 J	0.33 J	33

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-28</i>		<i>5106-28</i>		<i>5106-28</i>		<i>5106-28</i>		<i>5106-29</i>		<i>5106-29</i>	
<i>Sample ID:</i>	<i>GW-042006-5106-28-001</i>		<i>GW-042006-5106-28-002</i>		<i>GW-042006-5106-28-003</i>		<i>GW-042006-5106-28-004</i>		<i>GW-042106-5106-29-001</i>		<i>GW-042106-5106-29-002</i>	
<i>Sample Date:</i>	<i>4/20/2006</i>		<i>4/20/2006</i>		<i>4/20/2006</i>		<i>4/20/2006</i>		<i>4/21/2006</i>		<i>4/21/2006</i>	
<i>Sample Depth:</i>	<i>9 to 13 ft bml</i>		<i>19 to 23 ft bml</i>		<i>29 to 33 ft bml</i>		<i>44 to 48 ft bml</i>		<i>0 to 4 ft bml</i>		<i>9 to 13 ft bml</i>	
<i>elev_MLLW</i>	<i>-7.58 to -11.58</i>		<i>-17.58 to -21.58</i>		<i>-27.58 to -31.58</i>		<i>-42.58 to -46.58</i>		<i>1.65 to -2.35</i>		<i>-7.35 to -11.35</i>	
<i>elev_NGVD</i>	<i>-13.9 to -17.9</i>		<i>-23.9 to -27.9</i>		<i>-33.9 to -37.9</i>		<i>-48.9 to -52.9</i>		<i>-4.7 to -8.7</i>		<i>-13.7 to -17.7</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U
Carbon tetrachloride	µg/L	4.4	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
Methylene chloride	µg/L	1600	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Tetrachloroethene	µg/L	8.85	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
trans-1,2-Dichloroethene	µg/L	10000	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
Trichloroethene	µg/L	81	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U
Vinyl chloride	µg/L	2.4	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-29		5106-29		5106-29		5106-29		5106-29		5106-30	
<i>Sample ID:</i>	GW-042106-5106-29-003		GW-042106-5106-29-004		GW-042406-5106-29-005		GW-042406-5106-29-006		GW-042406-5106-29-007		GW-042606-5106-30-009	
<i>Sample Date:</i>	4/21/2006		4/21/2006		4/24/2006		4/24/2006		4/24/2006		4/26/2006	
<i>Sample Depth:</i>	19 to 23 ft bml		19 to 23 ft bml		29 to 33 ft bml		39 to 43 ft bml		49 to 53 ft bml		1 to 5 ft bml	
<i>elev_MLLW</i>	-17.35 to -21.35		-17.35 to -21.35		-27.35 to -31.35		-37.35 to -41.35		-47.35 to -51.35		5.92 to 1.92	
<i>elev_NGVD</i>	-23.7 to -27.7		-23.7 to -27.7		-33.7 to -37.7		-43.7 to -47.7		-53.7 to -57.7		-0.4 to -4.4	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U
Carbon tetrachloride	µg/L	4.4	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
Methylene chloride	µg/L	1600	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Tetrachloroethene	µg/L	8.85	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
trans-1,2-Dichloroethene	µg/L	10000	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
Trichloroethene	µg/L	81	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U
Vinyl chloride	µg/L	2.4	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-30</i>		<i>5106-30</i>		<i>5106-30</i>		<i>5106-30</i>		<i>5106-30</i>		<i>5106-30</i>	
<i>Sample ID:</i>	<i>GW-042506-5106-30-001</i>		<i>GW-042506-5106-30-002</i>		<i>GW-042506-5106-30-003</i>		<i>GW-042506-5106-30-004</i>		<i>GW-042506-5106-30-005</i>		<i>GW-042506-5106-30-006</i>	
<i>Sample Date:</i>	<i>4/25/2006</i>		<i>4/25/2006</i>		<i>4/25/2006</i>		<i>4/25/2006</i>		<i>4/25/2006</i>		<i>4/25/2006</i>	
<i>Sample Depth:</i>	<i>9 to 13 ft bml</i>		<i>19 to 23 ft bml</i>		<i>29 to 33 ft bml</i>		<i>39 to 43 ft bml</i>		<i>49 to 53 ft bml</i>		<i>49 to 53 ft bml</i>	
<i>elev_MLLW</i>	<i>-2.08 to -6.08</i>		<i>-12.08 to -16.08</i>		<i>-22.08 to -26.08</i>		<i>-32.08 to -36.08</i>		<i>-42.08 to -46.08</i>		<i>-42.08 to -46.08</i>	
<i>elev_NGVD</i>	<i>-8.4 to -12.4</i>		<i>-18.4 to -22.4</i>		<i>-28.4 to -32.4</i>		<i>-38.4 to -42.4</i>		<i>-48.4 to -52.4</i>		<i>-48.4 to -52.4</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U
Carbon tetrachloride	µg/L	4.4	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	0.086 J	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
Methylene chloride	µg/L	1600	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Tetrachloroethene	µg/L	8.85	0.098 J	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
trans-1,2-Dichloroethene	µg/L	10000	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
Trichloroethene	µg/L	81	0.58 J	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U
Vinyl chloride	µg/L	2.4	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-30</i>		<i>5106-30</i>		<i>5106-31</i>		<i>5106-31</i>		<i>5106-31</i>		<i>5106-31</i>	
<i>Sample ID:</i>	<i>GW-042606-5106-30-008</i>		<i>GW-042606-5106-30-007</i>		<i>GW-042806-5106-31-001</i>		<i>GW-042806-5106-31-002</i>		<i>GW-042806-5106-31-003</i>		<i>GW-042806-5106-31-004</i>	
<i>Sample Date:</i>	<i>4/26/2006</i>		<i>4/26/2006</i>		<i>4/28/2006</i>		<i>4/28/2006</i>		<i>4/28/2006</i>		<i>4/28/2006</i>	
<i>Sample Depth:</i>	<i>59 to 63 ft bml</i>		<i>69 to 73 ft bml</i>		<i>1 to 5 ft bml</i>		<i>9 to 13 ft bml</i>		<i>19 to 23 ft bml</i>		<i>29 to 33 ft bml</i>	
<i>elev_MLLW</i>	<i>-52.08 to -56.08</i>		<i>-62.08 to -66.08</i>		<i>2.1 to -1.9</i>		<i>-5.9 to -9.9</i>		<i>-15.9 to -19.9</i>		<i>-25.9 to -29.9</i>	
<i>elev_NGVD</i>	<i>-58.4 to -62.4</i>		<i>-68.4 to -72.4</i>		<i>-4.2 to -8.2</i>		<i>-12.2 to -16.2</i>		<i>-22.2 to -26.2</i>		<i>-32.2 to -36.2</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.081 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.082 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1-Dichloroethene	µg/L	3.2	0.086 U	0.086 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Carbon tetrachloride	µg/L	4.4	0.082 U	0.082 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	0.070 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
cis-1,2-Dichloroethene	µg/L	16.00	0.062 U	0.087 J	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Methylene chloride	µg/L	1600	0.31 U	0.31 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U
Tetrachloroethene	µg/L	8.85	0.066 U	0.066 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
trans-1,2-Dichloroethene	µg/L	10000	0.091 U	0.091 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Trichloroethene	µg/L	81	0.055 U	0.27 J	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Vinyl chloride	µg/L	2.4	0.14 U	0.14 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-31</i>	<i>5106-31</i>	<i>5106-31</i>	<i>5106-31</i>	<i>5106-32</i>
<i>Sample ID:</i>	<i>GW-042906-5106-31-BS-005</i>	<i>GW-042906-5106-31-BS-006</i>	<i>GW-042906-5106-31-BS-007</i>	<i>GW-042906-5106-31-BS-008</i>	<i>GW-050306-5106-32-BS-001</i>
<i>Sample Date:</i>	<i>4/29/2006</i>	<i>4/29/2006</i>	<i>4/29/2006</i>	<i>4/29/2006</i>	<i>5/3/2006</i>
<i>Sample Depth:</i>	<i>39 to 43 ft bml</i>	<i>39 to 43 ft bml</i>	<i>49 to 53 ft bml</i>	<i>59 to 63 ft bml</i>	<i>1 to 5 ft bml</i>
<i>elev_MLLW</i>	<i>-35.9 to -39.9</i>	<i>-35.9 to -39.9</i>	<i>-45.9 to -49.9</i>	<i>-55.9 to -59.9</i>	<i>-15.5 to -19.5</i>
<i>elev_NGVD</i>	<i>-42.2 to -46.2</i>	<i>-42.2 to -46.2</i>	<i>-52.2 to -56.2</i>	<i>-62.2 to -66.2</i>	<i>-21.8 to -25.8</i>
<i>Parameters</i>	<i>Units CSI WG</i>				
VOAs					
1,1,2,2-Tetrachloroethane	µg/L 11	0.081 U	0.081 U	0.16 U	0.081 U
1,1,2-Trichloroethane	µg/L 42	0.082 U	0.082 U	0.16 U	0.082 U
1,1-Dichloroethene	µg/L 3.2	0.086 U	0.086 U	0.17 U	0.086 U
Carbon tetrachloride	µg/L 4.4	0.082 U	0.082 U	0.16 U	0.082 U
Chloroform (Trichloromethane)	µg/L 470	0.070 U	0.070 U	0.14 U	0.070 U
cis-1,2-Dichloroethene	µg/L 16.00	0.062 U	0.062 U	0.12 U	0.074 J
Methylene chloride	µg/L 1600	0.31 U	0.31 U	0.62 U	0.31 U
Tetrachloroethene	µg/L 8.85	0.066 U	0.066 U	0.13 U	0.066 U
trans-1,2-Dichloroethene	µg/L 10000	0.091 U	0.091 U	0.18 U	0.091 U
Trichloroethene	µg/L 81	0.055 U	0.055 U	0.11 U	0.082 J
Vinyl chloride	µg/L 2.4	0.14 U	0.14 U	0.28 U	0.14 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-32		5106-32		5106-32		5106-32		5106-32		709-MW1-15
<i>Sample ID:</i>	GW-050306-5106-32-BS-002		GW-050306-5106-32-BS-003		GW-050406-5106-32-BS-004		GW-050406-5106-32-BS-005		GW-050406-5106-32-BS-006		MW-1-0304
<i>Sample Date:</i>	5/3/2006		5/3/2006		5/4/2006		5/4/2006		5/4/2006		3/9/2004
<i>Sample Depth:</i>	9 to 13 ft bml		19 to 23 ft bml		29 to 33 ft bml		39 to 43 ft bml		49 to 53 ft bml		15 ft bgs
<i>elev_MLLW</i>	-23.5 to -27.5		-33.5 to -37.5		-43.5 to -47.5		-53.5 to -57.5		-63.5 to -67.5		2.99
<i>elev_NGVD</i>	-29.8 to -33.8		-39.8 to -43.8		-49.8 to -53.8		-59.8 to -63.8		-69.8 to -73.8		-3.3
<i>Parameters</i>	<i>Units CSI WG</i>										
VOAs											
1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.081 U	0.081 UJ	0.081 UJ	0.081 UJ	0.081 UJ	0.081 UJ	0.081 UJ	5 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.082 U	0.082 UJ	0.082 UJ	0.082 UJ	0.082 UJ	0.082 UJ	0.082 UJ	5 U
1,1-Dichloroethene	µg/L	3.2	0.086 U	0.086 U	0.086 UJ	0.086 UJ	0.086 UJ	0.086 UJ	0.086 UJ	0.086 UJ	5 U
Carbon tetrachloride	µg/L	4.4	0.082 U	0.082 U	0.082 UJ	0.082 UJ	0.082 UJ	0.082 UJ	0.082 UJ	0.082 UJ	5 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	0.070 U	0.070 UJ	0.070 UJ	0.070 UJ	0.070 UJ	0.070 UJ	0.070 UJ	5 U
cis-1,2-Dichloroethene	µg/L	16.00	0.062 U	0.062 U	0.062 UJ	0.062 UJ	0.062 UJ	0.062 UJ	0.062 UJ	0.062 UJ	27 U
Methylene chloride	µg/L	1600	0.31 U	0.31 U	0.31 UJ	0.31 UJ	0.31 UJ	0.31 UJ	0.31 UJ	0.31 UJ	53 U
Tetrachloroethene	µg/L	8.85	0.066 U	0.066 U	0.066 UJ	0.066 UJ	0.066 UJ	0.066 UJ	0.066 UJ	0.066 UJ	120 U
trans-1,2-Dichloroethene	µg/L	10000	0.091 U	0.091 U	0.091 UJ	0.091 UJ	0.091 UJ	0.091 UJ	0.091 UJ	0.091 UJ	4.7 J
Trichloroethene	µg/L	81	0.055 U	0.055 U	0.055 UJ	0.055 UJ	0.055 UJ	0.055 UJ	0.055 UJ	0.055 UJ	35
Vinyl chloride	µg/L	2.4	0.14 U	0.14 U	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	5 U

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		709-MW2-15	709-MW3-15	709-MW4-15	709-MW5-15	709-MW6-15	
Sample ID:		WG-072112-DJT-709-MW2-15-226	MW-3-0304	WG-072212-DJT-709-MW4-15-227	WG-072212-DJT-709-MW5-15-228	WG-080912-LP-709-MW6-15-229	
Sample Date:		7/21/2012	3/9/2004	7/22/2012	7/22/2012	8/9/2012	
Sample Depth:		15 ft BGS	15 ft bgs	15 ft BGS	15 ft BGS	15 ft BGS	
elev_MLLW		3.76	2.92	2.92	2.92	2.92	
elev_NGVD		-2.6	-3.4	-3.4	-3.4	-3.4	
Parameters	Units	CSI WG					
VOAs							
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	5 U	0.50 U	0.77	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	5 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.19 J	5 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	5 U	0.50 U	0.30 J	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	5 U	0.46 J	10	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	2.6	5 U	0.16 J	0.38 J	7.1
Methylene chloride	µg/L	1600	2.0 U	43 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	15	9.6	19	42	46
trans-1,2-Dichloroethene	µg/L	10000	2.4	5 U	0.50 U	0.50 U	6.1
Trichloroethene	µg/L	81	11	4.2 J	2.1	2.4	4.0
Vinyl chloride	µg/L	2.4	0.50 U	5 U	0.50 U	0.50 U	0.87

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	709-MW6-25		709-MW6-50		709-MW7-15		709-MW8-15	
<i>Sample ID:</i>	WG-080912-LP-709-MW6-25-229		WG-080912-LP-709-MW6-50-229		WG-072812-PR-709-MW7-15-232		WG-080912-AMK-709-MW8-15-233	
<i>Sample Date:</i>	8/9/2012		8/9/2012		7/28/2012		8/9/2012	
<i>Sample Depth:</i>	25 ft BGS		50 ft BGS		15 ft BGS		15 ft BGS	
<i>elev_MLLW</i>	-6.82		-31.89		2.87		2.92	
<i>elev_NGVD</i>	-13.1		-38.2		-3.4		-3.4	
<i>Parameters</i>	<i>Units CSI WG</i>							
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	2.5 U	0.50 U	0.50 U	0.50 U	0.27 J	0.27 J
Carbon tetrachloride	µg/L	4.4	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	2.8	0.50 U	0.50 U	3.0	5.4	5.4
Methylene chloride	µg/L	1600	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	2.5 U	0.50 U	0.17 J	0.17 J	45	45
trans-1,2-Dichloroethene	µg/L	10000	0.75 J	0.50 U	4.6	4.6	6.6	6.6
Trichloroethene	µg/L	81	2.5 U	0.50 U	0.51	0.51	24	24
Vinyl chloride	µg/L	2.4	0.75 J	0.50 U	1.6	1.6	0.87	0.87

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	709-MW9-15		709-MW9-25		709-MW11-15		709-MW11-25		709-MW13-15	
<i>Sample ID:</i>	WG-081412-AMK-709-MW9-15-234		WG-081412-AMK-709-MW9-25-235		WG-072912-ALK-709-MW11-15-236		WG-072912-ALK-709-MW11-25		MW-13-0304	
<i>Sample Date:</i>	8/14/2012		8/14/2012		7/29/2012		7/29/2012		3/10/2004	
<i>Sample Depth:</i>	15 ft BGS		25 ft BGS		15 ft BGS		25 ft BGS		13 ft bgs	
<i>elev_MLLW</i>	2.92		-6.92		2.92		-8.16		2.82	
<i>elev_NGVD</i>	-3.4		-13.2		-3.4		-14.5		-3.5	
<i>Parameters</i>	<i>Units CSI WG</i>									
VOAs										
1,1,2,2-Tetrachloroethane	µg/L	11	13 U	13 U	0.50 U	1.0 U	5 U			
1,1,2-Trichloroethane	µg/L	42	13 U	13 U	0.50 U	1.0 U	5 U			
1,1-Dichloroethene	µg/L	3.2	13 U	13 U	0.50 U	1.0 U	5 U			
Carbon tetrachloride	µg/L	4.4	13 U	13 U	0.50 U	1.0 U	5 U			
Chloroform (Trichloromethane)	µg/L	470	13 U	13 U	0.50 U	1.9	5 U			
cis-1,2-Dichloroethene	µg/L	16.00	3.0 J	5.8 J	0.070 J	0.14 J	7.5			
Methylene chloride	µg/L	1600	50 U	9.0 J	2.0 U	4.0 U	15 U			
Tetrachloroethene	µg/L	8.85	13 U	13 U	0.11 J	1.0 U	5 U			
trans-1,2-Dichloroethene	µg/L	10000	13 U	13 U	0.50 U	1.0 U	5 U			
Trichloroethene	µg/L	81	13 U	13 U	0.34 J	1.0 U	2.9 J			
Vinyl chloride	µg/L	2.4	13 U	27	0.50 U	2.4	5 U			

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>709-MW14-15</i>		<i>709-MW15-15</i>		<i>709-MW15A-25</i>		<i>709-MW15A-50</i>		<i>709-MW16-15</i>		
<i>Sample ID:</i>	<i>MW-14-0304</i>		<i>WG-081512-TS-709MW15-15-238</i>		<i>MW-15A-0304</i>		<i>WG-081412-JN-709-MW15A-50-240</i>		<i>WG-072712-ALK-709-MW16-15-241</i>		
<i>Sample Date:</i>	<i>3/10/2004</i>		<i>8/15/2012</i>		<i>3/10/2004</i>		<i>8/14/2012</i>		<i>7/27/2012</i>		
<i>Sample Depth:</i>	<i>14 ft bgs</i>		<i>15 ft bgs</i>		<i>30 ft bgs</i>		<i>50 ft BGS</i>		<i>15 ft bgs</i>		
<i>elev_MLLW</i>	<i>3.92</i>		<i>2.85</i>		<i>-12.23</i>		<i>-32.24</i>		<i>2.92</i>		
<i>elev_NGVD</i>	<i>-2.4</i>		<i>-3.5</i>		<i>-18.6</i>		<i>-38.6</i>		<i>-3.4</i>		
Parameters	Units CSI WG										
VOAs											
1,1,2,2-Tetrachloroethane	µg/L	11	5 U	0.50 U	5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	5 U	0.50 U	5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	5 U	0.15 J	5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	5 U	0.50 U	5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	5 U	0.50 U	5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	71	16	2.5 J	0.42 J	0.42 J	0.42 J	0.42 J	0.42 J	0.43 J
Methylene chloride	µg/L	1600	15 U	2.0 U	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	9.9	1.5	21	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.45 J
trans-1,2-Dichloroethene	µg/L	10000	4.0 J	0.38 J	5 U	0.11 J	0.11 J	0.11 J	0.11 J	0.11 J	0.33 J
Trichloroethene	µg/L	81	41	4.4	23	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0
Vinyl chloride	µg/L	2.4	5 U	0.50 U	5 U	0.33 J	0.33 J	0.33 J	0.33 J	0.33 J	0.50 U

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>709-MW16-25</i>		<i>709-MW16-50</i>		<i>709-MW16-75</i>		<i>709-MW17-15</i>	
<i>Sample ID:</i>	<i>WG-072712-ALK-709-MW16-25-242</i>		<i>WG-072812-ALK-709-MW16-50-243</i>		<i>WG-072812-ALK-709-MW16-75-244</i>		<i>WG-072112-DJT-709-MW17-15-245</i>	
<i>Sample Date:</i>	<i>7/27/2012</i>		<i>7/28/2012</i>		<i>7/28/2012</i>		<i>7/21/2012</i>	
<i>Sample Depth:</i>	<i>25 ft BGS</i>		<i>50 ft BGS</i>		<i>75 ft BGS</i>		<i>15 ft bgs</i>	
<i>elev_MLLW</i>	<i>-7.47</i>		<i>-32.6</i>		<i>-57.62</i>		<i>2.92</i>	
<i>elev_NGVD</i>	<i>-13.8</i>		<i>-38.9</i>		<i>-63.9</i>		<i>-3.4</i>	
<i>Parameters</i>	<i>Units CSI WG</i>							
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.16 J	27	30	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	10	0.50 U	0.37 J	0.55	0.55	0.55
Methylene chloride	µg/L	1600	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.17 J
trans-1,2-Dichloroethene	µg/L	10000	0.29 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	81	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.7 U
Vinyl chloride	µg/L	2.4	0.52	0.50 U	0.50 U	0.50 U	0.50 U	2.0

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>709-MW18-15</i>	<i>709-MW18-25</i>	<i>709-MW18-50</i>	<i>709-MW19-15</i>
<i>Sample ID:</i>	<i>WG-072612-PR-709-MW18-15-246</i>	<i>WG-072612-PR-709-MW18-25-247</i>	<i>WG-072612-PR-709-MW18-50-248</i>	<i>WG-072812-PR-709-MW19-15-249</i>
<i>Sample Date:</i>	<i>7/26/2012</i>	<i>7/26/2012</i>	<i>7/26/2012</i>	<i>7/28/2012</i>
<i>Sample Depth:</i>	<i>15 ft bgs</i>	<i>25 ft BGS</i>	<i>50 ft BGS</i>	<i>15 ft bgs</i>
<i>elev_MLLW</i>	<i>2.92</i>	<i>-7.28</i>	<i>-32.13</i>	<i>2.71</i>
<i>elev_NGVD</i>	<i>-3.4</i>	<i>-13.6</i>	<i>-38.4</i>	<i>-3.6</i>

Parameters**Units CSI WG****VOAs**

1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	13 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	13 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.17 J	3.0 J	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	13 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	2.3 J	0.80	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	63	810	2.6	0.22 J
Methylene chloride	µg/L	1600	2.0 U	3.3 J	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	1.8	13 U	0.50 U	28
trans-1,2-Dichloroethene	µg/L	10000	1.2	39	0.50 U	0.50 U
Trichloroethene	µg/L	81	7.1	4.8 J	0.50 U	6.6
Vinyl chloride	µg/L	2.4	0.11 J	66	3.6	0.50 U

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	709-MW20-15		709-MW20-25		709-MW20-50		709-MW20-75	
<i>Sample ID:</i>	WG-082112-JN-709-MW20-15-223		WG-082312-JN-709-MW20-25-224		WG-082112-JN-709-MW20-50-225		WG-082212-JN-709-MW20-75-250	
<i>Sample Date:</i>	8/21/2012		8/23/2012		8/21/2012		8/22/2012	
<i>Sample Depth:</i>	15 ft BGS		25 ft BGS		50 ft BGS		75 ft BGS	
<i>elev_MLLW</i>	4.68		-5.15		-30.47		-55.36	
<i>elev_NGVD</i>	-1.6		-11.5		-36.8		-61.7	
<i>Parameters</i>	<i>Units CSI WG</i>							
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	2.5 U		0.50 U		0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	2.5 U		0.50 U		0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.70 J		0.65		0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	2.5 U		0.50 U		0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	3.3		0.50 U		0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	26		55		0.50 U	0.50 U
Methylene chloride	µg/L	1600	10 U		2.0 U		2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	150		15		0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	0.70 J		2.6		0.50 U	0.50 U
Trichloroethene	µg/L	81	27		6.2		0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	1.6 J		4.8		0.50 U	0.50 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>709-MW21-15</i>	<i>709-MW21-25</i>	<i>709-MW21-50</i>	<i>721-MW5-15</i>
<i>Sample ID:</i>	<i>WG-072712-PR-709-MW21-15-251</i>	<i>WG-072712-PR-709-MW21-25-252</i>	<i>WG-072712-PR-709-MW21-50-253</i>	<i>WG-082512-ALK-721-MW5-15-254</i>
<i>Sample Date:</i>	<i>7/27/2012</i>	<i>7/27/2012</i>	<i>7/27/2012</i>	<i>8/25/2012</i>
<i>Sample Depth:</i>	<i>15 ft BGS</i>	<i>25 ft BGS</i>	<i>50 ft BGS</i>	<i>15 ft BGS</i>
<i>elev_MLLW</i>	<i>3.07</i>	<i>-7</i>	<i>-32.02</i>	<i>2.8</i>
<i>elev_NGVD</i>	<i>-3.2</i>	<i>-13.3</i>	<i>-38.3</i>	<i>-3.5</i>

Parameters **Units CSI WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	2.5 U	5.0 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	2.5 U	5.0 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	2.5 U	5.0 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	2.5 U	5.0 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	2.5 U	5.0 U	1.8	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	2.5 U	5.0 U	0.070 J	1.6
Methylene chloride	µg/L	1600	10 U	3.3 J	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	2.5 U	5.0 U	0.50 U	0.17 J
trans-1,2-Dichloroethene	µg/L	10000	2.5 U	5.0 U	0.50 U	5.9
Trichloroethene	µg/L	81	2.5 U	5.0 U	0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	2.5 U	5.0 U	3.9	2.3

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	721-MW5-25	721-MW5-50	721-MW5-75	721-MW6-15
Sample ID:	WG-082512-ALK-721-MW5-25-255	WG-082512-JN-721-MW5-50-256	WG-082512-JN-721-MW5-75-257	WG-072512-DJT-721-MW6-15-258
Sample Date:	8/25/2012	8/25/2012	8/25/2012	7/25/2012
Sample Depth:	25 ft BGS	50 ft BGS	75 ft BGS	15 ft BGS
elev_MLLW	-7.21	-32.29	-57.27	2.62
elev_NGVD	-13.5	-38.6	-63.6	-3.7

Parameters Units CSI WG

VOAs

Parameter	Units	721-MW5-25	721-MW5-50	721-MW5-75	721-MW6-15
1,1,2,2-Tetrachloroethane	µg/L	11	2.5 U	0.50 U	50 U
1,1,2-Trichloroethane	µg/L	42	2.5 U	0.50 U	50 U
1,1-Dichloroethene	µg/L	3.2	2.5 U	0.50 U	50 U
Carbon tetrachloride	µg/L	4.4	2.5 U	0.50 U	50 U
Chloroform (Trichloromethane)	µg/L	470	2.5 U	0.50 U	50 U
cis-1,2-Dichloroethene	µg/L	16.00	8.0	8.5	50 U
Methylene chloride	µg/L	1600	10 U	2.0 U	200 U
Tetrachloroethene	µg/L	8.85	2.5 U	0.50 U	50 U
trans-1,2-Dichloroethene	µg/L	10000	0.85 J	0.26 J	50 U
Trichloroethene	µg/L	81	1.5 J	0.50 U	50 U
Vinyl chloride	µg/L	2.4	2.8	9.9	50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	721-MW6-25		721-MW6-25		721-MW6-50		721-MW7-15		721-MW8-15		721-MW8-15	
<i>Sample ID:</i>	WG-072512-DJT-721-MW6-25-259		WG-072512-DJT-FD13-310		WG-072512-DJT-721-MW6-50-260		WG-080912-TRH-721-MW7-15-261		04-11425-GW23M		GW-721-8-15	
<i>Sample Date:</i>	7/25/2012		7/25/2012		7/25/2012		8/9/2012		7/20/2004		7/20/2004	
<i>Sample Depth:</i>	25 ft BGS		25 ft BGS		50 ft BGS		15 ft BGS		15 ft BGS		15 ft bgs	
<i>elev_MLLW</i>	-7.41		-7.41		-32.5		2.51		2.34		2.34	
<i>elev_NGVD</i>	-13.7		-13.7		-38.8		-3.8		-4		-4	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	5.0 U	5.0 U	0.50 U	0.50 UJ	1.0 U	1.4 U				
1,1,2-Trichloroethane	µg/L	42	5.0 U	5.0 U	0.50 U	0.50 UJ	1.0 U	1.0 U				
1,1-Dichloroethene	µg/L	3.2	5.0 U	5.0 U	0.50 U	0.28 J	1.0 U	1.5 U				
Carbon tetrachloride	µg/L	4.4	5.0 U	5.0 U	0.50 U	0.50 UJ	1.0 U	0.50 U				
Chloroform (Trichloromethane)	µg/L	470	5.0 U	5.0 U	0.50 U	0.50 UJ	1.0 U	0.80 U				
cis-1,2-Dichloroethene	µg/L	16.00	5.0 U	5.0 U	0.50 U	11 J	13	14				
Methylene chloride	µg/L	1600	2.9 J	2.2 J	2.0 U	2.2 UJ	2.0 U	1.8 U				
Tetrachloroethene	µg/L	8.85	5.0 U	5.0 U	0.50 U	3.8 J	1.8	0.75 U				
trans-1,2-Dichloroethene	µg/L	10000	5.0 U	5.0 U	0.50 U	11 J	1.0 U	0.95 U				
Trichloroethene	µg/L	81	5.0 U	5.0 U	0.50 U	11 J	8.2	6.3 J				
Vinyl chloride	µg/L	2.4	5.0 U	5.0 U	0.50 U	2.9 J	20	20				

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	721-MW9-15		721-MW9-25		721-MW9-50		721-MW10-15	
<i>Sample ID:</i>	WG-072212-DJT-721-MW9-15-262		WG-072212-DJT-721-MW9-25-263		WG-072212-DJT-721-MW9-50-264		WG-080812-TRH-721-MW10-15-265	
<i>Sample Date:</i>	7/22/2012		7/22/2012		7/22/2012		8/8/2012	
<i>Sample Depth:</i>	15 ft BGS		25 ft BGS		50 ft BGS		15 ft BGS	
<i>elev_MLLW</i>	2.69		-7.28		-32.28		1.95	
<i>elev_NGVD</i>	-3.6		-13.6		-38.6		-4.4	
<i>Parameters</i>	<i>Units CSI WG</i>							
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	5.8	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	0.090 J	61	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	1600	2.0 U	1.9 J	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	0.80 J	0.50 U	0.50 U	0.17 J	0.50 U
Trichloroethene	µg/L	81	0.71 U	1.3 J	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	0.14 J	3.5 J	0.50 U	0.50 U	0.50 U	0.50 U

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	721-MW10-25		721-MW10-50		721-MW10-50		721-MW10-75	
<i>Sample ID:</i>	WG-080712-TRH-721-MW10-25-266		WG-080612-TRH-721-MW10-50-267		WG-080612-TRH-721-FD12-309		WG-080712-TRH-721-MW10-75-268	
<i>Sample Date:</i>	8/7/2012		8/6/2012		8/6/2012		8/7/2012	
<i>Sample Depth:</i>	25 ft BGS		50 ft BGS		50 ft BGS		75 ft BGS	
<i>elev_MLLW</i>	-7.98		-33.02		-33.02		-57.9	
<i>elev_NGVD</i>	-14.3		-39.3		-39.3		-64.2	
<i>Parameters</i>	<i>Units</i>		<i>CSI</i>		<i>WG</i>		<i>(Duplicate)</i>	
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.50	U	0.50	U	0.50	U
1,1,2-Trichloroethane	µg/L	42	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	µg/L	3.2	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	µg/L	4.4	0.50	U	0.50	U	0.50	U
Chloroform (Trichloromethane)	µg/L	470	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	µg/L	16.00	0.10	J	0.18	J	0.19	J
Methylene chloride	µg/L	1600	2.0	U	2.0	U	2.0	U
Tetrachloroethene	µg/L	8.85	0.50	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	µg/L	10000	0.50	U	4.1		4.0	
Trichloroethene	µg/L	81	0.50	U	0.50	U	0.50	U
Vinyl chloride	µg/L	2.4	0.29	J	1.3		1.4	

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>721-MW11-15</i>		<i>721-MW11-25</i>		<i>721-MW11-50</i>		<i>721-MW11-75</i>	
<i>Sample ID:</i>	<i>WG-073112-PR-721-MW11-15-269</i>		<i>WG-073112-PR-721-MW11-25-270</i>		<i>WG-080112-PR-721-MW11-50-271</i>		<i>WG-073112-PR-721-MW11-75-272</i>	
<i>Sample Date:</i>	<i>7/31/2012</i>		<i>7/31/2012</i>		<i>8/1/2012</i>		<i>7/31/2012</i>	
<i>Sample Depth:</i>	<i>15 ft BGS</i>		<i>25 ft BGS</i>		<i>50 ft BGS</i>		<i>75 ft BGS</i>	
<i>elev_MLLW</i>	<i>2.7</i>		<i>-7.31</i>		<i>-32.32</i>		<i>-57.32</i>	
<i>elev_NGVD</i>	<i>-3.6</i>		<i>-13.6</i>		<i>-38.6</i>		<i>-63.6</i>	
<i>Parameters</i>	<i>Units CSI WG</i>							
<i>VOAs</i>								
1,1,2,2-Tetrachloroethane	µg/L	11	25 U	1.3 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	25 U	1.3 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	25 U	1.3 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	25 U	1.3 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	25 U	0.28 J	0.43 J	0.43 J	0.35 J	0.35 J
cis-1,2-Dichloroethene	µg/L	16.00	25 U	1.3 U	0.68	0.68	0.50 U	0.50 U
Methylene chloride	µg/L	1600	100 U	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	25 U	1.3 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	25 U	1.3 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	81	25 U	1.3 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	25 U	1.3 U	5.4	5.4	0.50 U	0.50 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>721-MW12-15</i>		<i>721-MW12-25</i>		<i>721-MW12-50</i>		<i>721-MW13-15</i>	
<i>Sample ID:</i>	<i>WG-073012-ALK-721-MW12-15-273</i>		<i>WG-073012-ALK-721-MW12-25-274</i>		<i>WG-073012-ALK-721-MW12-50-275</i>		<i>WG-073112-AK-721-MW13-15-276</i>	
<i>Sample Date:</i>	<i>7/30/2012</i>		<i>7/30/2012</i>		<i>7/30/2012</i>		<i>7/31/2012</i>	
<i>Sample Depth:</i>	<i>15 ft BGS</i>		<i>25 ft BGS</i>		<i>50 ft BGS</i>		<i>15 ft BGS</i>	
<i>elev_MLLW</i>	<i>2.39</i>		<i>-7.66</i>		<i>-32.66</i>		<i>2.38</i>	
<i>elev_NGVD</i>	<i>-3.9</i>		<i>-14</i>		<i>-39</i>		<i>-3.9</i>	
<i>Parameters</i>	<i>Units CSI WG</i>							
<i>VOAs</i>								
1,1,2,2-Tetrachloroethane	µg/L	11	10 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	10 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	10 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	10 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	10 U	0.80 J	39	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	10 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	1600	40 U	20 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	10 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	10 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	81	10 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	µg/L	2.4	10 U	5.0 U	0.12 J	0.50 U	0.50 U	0.50 U

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	721-MW13-25		721-MW13-50		721-MW14-15		721-MW14-25	
<i>Sample ID:</i>	WG-073112-AK-721-MW13-25-277		WG-073112-AK-721-MW13-50-278		WG-080812-TRH-721-MW14-15-279		WG-080912-TRH-721-MW14-25-279	
<i>Sample Date:</i>	7/31/2012		7/31/2012		8/8/2012		8/9/2012	
<i>Sample Depth:</i>	25 ft BGS		50 ft BGS		15 ft BGS		25 ft BGS	
<i>elev_MLLW</i>	-7.69		-32.74		2.66		-7.35	
<i>elev_NGVD</i>	-14		-39.1		-3.7		-13.7	
<i>Parameters</i>	<i>Units CSI WG</i>							
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U
Carbon tetrachloride	µg/L	4.4	0.50 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	0.75 J	5.0 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	µg/L	16.00	0.50 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U
Methylene chloride	µg/L	1600	2.0 U	10 U	20 U	10 U	10 U	10 U
Tetrachloroethene	µg/L	8.85	0.50 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U
Trichloroethene	µg/L	81	0.50 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	µg/L	2.4	0.50 U	0.50 J	5.0 U	5.0 U	8.1	2.5 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	721-MW14-50		721-MW15-15		721-MW15-25		721-MW15-50		721-GP1	
<i>Sample ID:</i>	WG-080912-TRH-721-MW14-50-281		WG-073012-PR-721-MW15-15-282		WG-073012-PR-721-MW15-25-283		WG-073012-PR-721-MW15-50-284		GW-721-GP1-015	
<i>Sample Date:</i>	8/9/2012		7/30/2012		7/30/2012		7/30/2012		6/22/2004	
<i>Sample Depth:</i>	50 ft BGS		15 ft BGS		25 ft BGS		50 ft BGS		15 ft bgs	
<i>elev_MLLW</i>	-32.38		2.52		-7.45		-32.38		2.92	
<i>elev_NGVD</i>	-38.7		-3.8		-13.8		-38.7		-3.4	
<i>Parameters</i>	<i>Units CSI WG</i>									
VOAs										
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	50 U	25 U	0.50 U	2.7 U			
1,1,2-Trichloroethane	µg/L	42	0.50 U	50 U	25 U	0.50 U	2.0 U			
1,1-Dichloroethene	µg/L	3.2	0.50 U	50 U	25 U	0.50 U	3.0 U			
Carbon tetrachloride	µg/L	4.4	0.50 U	50 U	25 U	0.50 U	1.0 U			
Chloroform (Trichloromethane)	µg/L	470	0.50 U	50 U	25 U	2.3	1.6 U			
cis-1,2-Dichloroethene	µg/L	16.00	0.50 U	50 U	25 U	0.50 U	22			
Methylene chloride	µg/L	1600	2.0 U	200 U	100 U	2.0 U	3.5 U			
Tetrachloroethene	µg/L	8.85	0.50 U	50 U	25 U	0.50 U	26			
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	50 U	25 U	0.50 U	14			
Trichloroethene	µg/L	81	0.50 U	50 U	25 U	0.50 U	22			
Vinyl chloride	µg/L	2.4	0.62	50 U	25 U	0.50 U	6.3 J			

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>721-GP1</i>	<i>721-GP1</i>	<i>721-GP1</i>	<i>721-GP2</i>	<i>721-GP2</i>	<i>721-GP2</i>	<i>721-GP3</i>	<i>721-GP3</i>	<i>721-GP3</i>		
<i>Sample ID:</i>	<i>GW-721-GP1-025</i>	<i>GW-721-GP1-050</i>	<i>GW-721-GP1-FD1</i>	<i>GW-721-GP2-015</i>	<i>GW-721-GP2-025</i>	<i>GW-721-GP2-050</i>	<i>GW-721-GP3-015</i>	<i>GW-721-GP3-025</i>	<i>GW-721-GP3-050</i>		
<i>Sample Date:</i>	<i>6/22/2004</i>	<i>6/22/2004</i>	<i>6/22/2004</i>	<i>6/21/2004</i>	<i>6/21/2004</i>	<i>6/21/2004</i>	<i>6/22/2004</i>	<i>6/22/2004</i>	<i>6/22/2004</i>		
<i>Sample Depth:</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>		
<i>elev_MLLW</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-32.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>		
<i>elev_NGVD</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-38.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>		
			<i>(Duplicate)</i>								
<i>Parameters</i>	<i>Units CSI WG</i>										
<i>VOAs</i>											
1,1,2,2-Tetrachloroethane	µg/L	11	2.7 U	2.7 U	2.7 U	0.27 U	0.27 U	0.27 U	2.7 U	2.7 U	2.7 U
1,1,2-Trichloroethane	µg/L	42	2.0 U	2.0 U	2.0 U	0.20 U	0.20 U	0.20 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	µg/L	3.2	3.0 U	3.0 U	3.0 U	0.30 U	0.30 U	0.30 U	3.0 U	3.0 U	3.0 U
Carbon tetrachloride	µg/L	4.4	1.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	470	1.6 U	1.6 U	1.6 U	0.16 U	0.16 U	0.16 U	1.6 U	1.6 U	1.6 U
cis-1,2-Dichloroethene	µg/L	16.00	1.6 U	1.6 U	1.6 U	0.16 U	0.16 U	0.16 U	1.6 U	1.6 U	1.6 U
Methylene chloride	µg/L	1600	3.5 U	3.5 U	3.5 U	0.35 U	0.35 U	0.35 U	3.5 U	3.5 U	3.5 U
Tetrachloroethene	µg/L	8.85	1.5 U	1.5 U	1.5 U	0.15 U	0.15 U	0.15 U	1.5 U	1.5 U	1.5 U
trans-1,2-Dichloroethene	µg/L	10000	1.9 U	1.9 U	1.9 U	0.19 U	0.19 U	0.19 U	1.9 U	1.9 U	1.9 U
Trichloroethene	µg/L	81	1.6 U	1.6 U	1.6 U	0.16 U	0.16 U	0.16 U	1.6 U	1.6 U	1.6 U
Vinyl chloride	µg/L	2.4	2.3 U	2.3 U	2.3 U	11	0.23 U	0.23 U	2.3 U	2.3 U	2.3 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>721-GP4</i>	<i>721-GP4</i>	<i>721-GP4</i>	<i>721-GP4</i>	<i>721-GP4</i>	<i>721-GP5</i>	<i>721-GP5</i>	<i>721-GP5</i>	<i>721-GP6</i>
<i>Sample ID:</i>	<i>04-10149-GU31I</i>	<i>GW-721-GP4-015</i>	<i>GW-721-GP4-025</i>	<i>GW-721-GP4-050</i>	<i>GW-721-GP4-FD3</i>	<i>GW-721-GP5-015</i>	<i>GW-721-GP5-025</i>	<i>GW-721-GP5-050</i>	<i>04-10148-GU31H</i>
<i>Sample Date:</i>	<i>6/29/2004</i>	<i>6/29/2004</i>	<i>6/29/2004</i>	<i>6/29/2004</i>	<i>6/29/2004</i>	<i>6/23/2004</i>	<i>6/23/2004</i>	<i>6/23/2004</i>	<i>6/28/2004</i>
<i>Sample Depth:</i>	<i>15 ft BGS</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft BGS</i>
<i>elev_MLLW</i>	<i>2.92</i>	<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-32.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>	<i>2.92</i>
<i>elev_NGVD</i>	<i>-3.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-38.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-3.4</i>

(Duplicate)

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	1.0 U	2.7 U	0.27 U	2.7 U	2.7 U	0.27 U	0.27 U	0.27 U	1.0 U
1,1,2-Trichloroethane	µg/L	42	1.0 U	2.0 U	0.20 U	2.0 U	2.0 U	0.20 U	0.20 U	0.20 U	1.0 U
1,1-Dichloroethene	µg/L	3.2	1.0 U	3.0 U	0.30 U	3.0 U	3.0 U	0.30 U	0.30 U	0.30 U	1.0 U
Carbon tetrachloride	µg/L	4.4	1.0 U	1.0 U	0.10 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	1.0 U
Chloroform (Trichloromethane)	µg/L	470	1.0 U	1.6 U	0.16 U	1.6 U	1.6 U	0.16 U	0.16 U	0.16 U	1.0 U
cis-1,2-Dichloroethene	µg/L	16.00	9.1	8.4 J	0.16 U	1.6 U	1.6 U	300	23	19	72
Methylene chloride	µg/L	1600	2.0 U	3.5 U	0.35 U	3.5 U	3.5 U	0.35 U	0.35 U	0.35 U	2.0 U
Tetrachloroethene	µg/L	8.85	18	16	0.15 U	1.5 U	1.5 U	80	0.15 U	0.15 U	50
trans-1,2-Dichloroethene	µg/L	10000	1	1.9 U	0.19 U	1.9 U	1.9 U	0.19 U	0.19 U	0.19 U	1.8
Trichloroethene	µg/L	81	17	15	0.16 U	1.6 U	1.6 U	32	0.16 U	0.16 U	91
Vinyl chloride	µg/L	2.4	1.0 U	2.3 U	0.23 U	2.3 U	2.3 U	16	0.23 U	88	2.8

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>721-GP6</i>	<i>721-GP6</i>	<i>721-GP6</i>	<i>721-GP7</i>	<i>721-GP7</i>	<i>721-GP7</i>	<i>721-GP7</i>	<i>721-GP8</i>	<i>721-GP8</i>
<i>Sample ID:</i>	GW-721-GP6-015	GW-721-GP6-025	GW-721-GP6-050	GW-721-GP7-015	GW-721-GP7-025	GW-721-GP7-FD2	GW-721-GP7-050	GW-721-GP8-015	GW-721-GP8-025
<i>Sample Date:</i>	6/28/2004	6/28/2004	6/28/2004	6/28/2004	6/28/2004	6/28/2004	6/28/2004	6/24/2004	6/24/2004
<i>Sample Depth:</i>	15 ft bgs	25 ft bgs	50 ft bgs	15 ft bgs	25 ft bgs	25 ft bgs	25 ft bgs	15 ft bgs	25 ft bgs
<i>elev_MLLW</i>	2.92	-7.08	-32.08	2.92	-7.08	-7.08	-32.08	2.92	-7.08
<i>elev_NGVD</i>	-3.4	-13.4	-38.4	-3.4	-13.4	-13.4	-38.4	-3.4	-13.4

(Duplicate)

Parameters *Units* *CSI* *WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	2.7 U	2.7 U	0.27 U	2.7 U	2.7 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.20 U	2.0 U	2.0 U	0.20 U	2.0 U	2.0 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	3.0 U	3.0 U	0.30 U	3.0 U	3.0 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	1.0 U	1.0 U	0.10 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	1.6 U	1.6 U	0.16 U	1.6 U	1.6 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	72	1.6 U	9.1 J	7.2 J	1.6 U	1.6 U	0.16 U	100	0.16 U
Methylene chloride	µg/L	1600	0.35 U	3.5 U	3.5 U	0.35 U	3.5 U	3.5 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	59	1.5 U	1.5 U	17	1.5 U	1.5 U	0.15 U	32	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	1.9 U	8.8 J	0.19 U	1.9 U	1.9 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	96	1.6 U	1.6 U	19	1.6 U	1.6 U	0.16 U	56	0.16 U
Vinyl chloride	µg/L	2.4	0.23 U	2.3 U	220	0.23 U	2.3 U	2.3 U	0.23 U	29	0.23 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>721-GP8</i>	<i>721-GP9</i>	<i>721-GP9</i>	<i>721-GP9</i>	<i>721-PZ-1</i>	<i>721-PZ-2</i>	<i>721-PZ-3</i>	<i>721-PZ-3</i>	<i>A-1</i>	
<i>Sample ID:</i>		<i>GW-721-GP8-050</i>	<i>GW-721-GP9-015</i>	<i>GW-721-GP9-025</i>	<i>GW-721-GP9-050</i>	<i>PZ1-0604-OUT</i>	<i>PZ2-0604-OUT</i>	<i>PZ3-0604-OUT</i>	<i>FD1-060404</i>	<i>GW-052306-LH-A1</i>	
<i>Sample Date:</i>		<i>6/24/2004</i>	<i>6/24/2004</i>	<i>6/24/2004</i>	<i>6/24/2004</i>	<i>6/4/2004</i>	<i>6/4/2004</i>	<i>6/4/2004</i>	<i>6/4/2004</i>	<i>5/23/2006</i>	
<i>Sample Depth:</i>		<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>1 to 2 ft bml</i>	<i>1 to 2 ft bml</i>	<i>1 to 2 ft bml</i>	<i>1 to 2 ft bml</i>	<i>68.3 ft bgs</i>	
<i>elev_MLLW</i>		<i>-32.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-4.98 to -5.98</i>	<i>-4.98 to -5.98</i>	<i>-4.98 to -5.98</i>	<i>-4.98 to -5.98</i>	<i>-50.58</i>	
<i>elev_NGVD</i>		<i>-38.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-11.3 to -12.3</i>	<i>-11.3 to -12.3</i>	<i>-11.3 to -12.3</i>	<i>-11.3 to -12.3</i>	<i>-56.9</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>									
<i>VOAs</i>											
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	2.7 U	2.7 U	2.7 U	2.7 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	0.20 U	0.20 U	0.20 U	0.20 U	2.0 U	2.0 U	2.0 U	2.0 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	3.0 U	3.0 U	3.0 U	3.0 U	0.086 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	1.6 U	1.6 U	1.6 U	1.6 U	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	83	0.16 U	0.16 U	1.6 U	3.1 J	3.2 J	1.6 U	0.18 J
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	5.7 J	6.0 J	5.2 J	3.5 U	0.31 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	1.5 U	1.5 U	1.5 U	1.5 U	0.066 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	3.4 J	1.9 U	1.9 U	0.091 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	1.6 U	1.6 U	1.6 U	1.6 U	0.055 UJ
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	2.3 U	2.3 U	2.3 U	5.5 J	1.3

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		A-2	A-2A	A-3	A-4	A-5	A-6	B-1	B-2	
<i>Sample ID:</i>		GW-052306-LH-A2	GW-052306-LH-A2A	GW-052306-LH-A3	GW-052306-LH-A4	GW-052306-LH-A5	GW-052306-LH-A6	GW-052306-LH-B1	GW-052306-LH-B2	
<i>Sample Date:</i>		5/23/2006	5/23/2006	5/23/2006	5/23/2006	5/23/2006	5/23/2006	5/23/2006	5/23/2006	
<i>Sample Depth:</i>		68.5 ft bgs	132.75 ft bgs	68.4 ft bgs	68.5 ft bgs	69.3 ft bgs	68.2 ft bgs	68.5 ft bgs	68.5 ft bgs	
<i>elev_MLLW</i>		-49.68	-114.13	-49.98	-51.18	-51.28	-49.08	-50.08	-50.08	
<i>elev_NGVD</i>		-56	-120.4	-56.3	-57.5	-57.6	-55.4	-56.4	-56.4	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>								
VOAs										
1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	41 U	0.81 U	0.081 U	1.6 U	4.1 U	0.081 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	41 U	0.82 U	0.082 U	1.6 U	4.1 U	0.082 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	0.086 U	43 J	1.1 J	0.68 J	4.1 J	4.3 U	0.086 U	0.70 J
Carbon tetrachloride	µg/L	4.4	0.082 U	41 U	0.82 U	0.082 U	1.6 U	4.1 U	0.082 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	160 J	0.70 U	0.38 J	1.4 U	3.5 U	0.070 U	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	2.4	5600	190	90	930	260	0.33 J	46
Methylene chloride	µg/L	1600	0.31 U	150 U	3.1 U	0.31 U	6.2 U	15 U	0.31 U	0.31 U
Tetrachloroethene	µg/L	8.85	0.21 J	140 J	0.66 U	0.60 J	1.3 U	3.3 U	0.066 U	0.066 U
trans-1,2-Dichloroethene	µg/L	10000	0.24 J	260 J	6.6 J	16	23	6.8 J	0.16 J	10
Trichloroethene	µg/L	81	2.2	830	0.55 U	10	1.9 J	11 J	0.055 U	0.29 J
Vinyl chloride	µg/L	2.4	0.14 U	1400	320	820	250	1600	130	8.0

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>B-3</i>	<i>B-4</i>	<i>B-4</i>	<i>BH-65</i>	<i>BH-65</i>	<i>BH-65</i>	<i>BH-71</i>	
<i>Sample ID:</i>		<i>GW-052306-LH-B3</i>	<i>GW-052306-LH-B4</i>	<i>GW-052306-LH-B41</i>	<i>GW-072406-LH-BH65-001</i>	<i>GW-072406-LH-BH65-002</i>	<i>GW-072406-LH-BH65-003</i>	<i>GW-081006-LH-BH71-001</i>	
<i>Sample Date:</i>		<i>5/23/2006</i>	<i>5/23/2006</i>	<i>5/23/2006</i>	<i>7/24/2006</i>	<i>7/24/2006</i>	<i>7/24/2006</i>	<i>8/10/2006</i>	
<i>Sample Depth:</i>		<i>68.5 ft bgs</i>	<i>68.5 ft bgs</i>	<i>68.5 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>48 to 51 ft bgs</i>	<i>97 to 100 ft bgs</i>	<i>98 to 101 ft bgs</i>	
<i>elev_MLLW</i>		<i>-50.38</i>	<i>-49.98</i>	<i>-49.98</i>	<i>-5.08 to -8.08</i>	<i>-30.08 to -33.08</i>	<i>-79.08 to -82.08</i>	<i>-80.08 to -83.08</i>	
<i>elev_NGVD</i>		<i>-56.7</i>	<i>-56.3</i>	<i>-56.3</i>	<i>-11.4 to -14.4</i>	<i>-36.4 to -39.4</i>	<i>-85.4 to -88.4</i>	<i>-86.4 to -89.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>VOAs</i>									
1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	41 U	41 U	5.00 U	5.00 U	1.00 U	13.50 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	41 U	41 U	5.00 U	5.00 U	1.00 U	10.0 U
1,1-Dichloroethene	µg/L	3.2	0.27 J	43 U	43 U	5.00 U	5.00 U	1.00 U	15.00 U
Carbon tetrachloride	µg/L	4.4	0.082 U	41 U	41 U	5.00 U	5.00 U	1.00 U	5.00 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	35 U	35 U	5.00 U	5.00 U	1.00 U	180 J
cis-1,2-Dichloroethene	µg/L	16.00	12	3600	3700	5.00 U	5.00 U	1.00 U	25000
Methylene chloride	µg/L	1600	0.31 U	150 U	150 U	25.0 U	25.0 U	5.00 U	17.50 U
Tetrachloroethene	µg/L	8.85	0.066 U	33 U	33 U	5.00 U	5.00 U	1.00 U	7.50 U
trans-1,2-Dichloroethene	µg/L	10000	21	96 J	100 J	5.00 U	5.00 U	1.00 U	1100
Trichloroethene	µg/L	81	0.15 J	48 J	28 U	5.00 U	5.00 U	1.00 U	90 J
Vinyl chloride	µg/L	2.4	150	12000	12000	5.00 U	5.00 U	1.00 U	12000

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>BH-71</i>	<i>BH-72</i>	<i>BH-75</i>	<i>C-1</i>	<i>C-2</i>	<i>C-3</i>	<i>C-4</i>	
<i>Sample ID:</i>		<i>GW-081006-LH-BH71-0FD</i>	<i>GW-080906-LH-BH72-001</i>	<i>GW-072106-LH-BH-75-001</i>	<i>GW-052406-LH-C1</i>	<i>GW-052406-LH-C2</i>	<i>GW-052306-LH-C3</i>	<i>GW-052306-LH-C4</i>	
<i>Sample Date:</i>		<i>8/10/2006</i>	<i>8/9/2006</i>	<i>7/21/2006</i>	<i>5/24/2006</i>	<i>5/24/2006</i>	<i>5/23/2006</i>	<i>5/23/2006</i>	
<i>Sample Depth:</i>		<i>98 to 101 ft bgs</i>	<i>98 to 101 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>68.5 ft bgs</i>	<i>68.5 ft bgs</i>	<i>68.5 ft bgs</i>	<i>68.5 ft bgs</i>	
<i>elev_MLLW</i>		<i>-80.08 to -83.08</i>	<i>-80.08 to -83.08</i>	<i>-5.08 to -8.08</i>	<i>-49.38</i>	<i>-49.48</i>	<i>-49.18</i>	<i>-49.28</i>	
<i>elev_NGVD</i>		<i>-86.4 to -89.4</i>	<i>-86.4 to -89.4</i>	<i>-11.4 to -14.4</i>	<i>-55.7</i>	<i>-55.8</i>	<i>-55.5</i>	<i>-55.6</i>	
<i>Parameters</i>	<i>Units</i>	<i>(Duplicate)</i>							
VOAs									
1,1,2,2-Tetrachloroethane	µg/L	11	13.50 U	54.00 U	1.00 UJ	410 U	160 U	41 U	8.1 U
1,1,2-Trichloroethane	µg/L	42	10.0 U	40.0 U	1.00 UJ	410 U	160 U	41 U	8.2 U
1,1-Dichloroethene	µg/L	3.2	15.00 U	60.00 U	1.00 UJ	430 U	170 U	43 U	34 J
Carbon tetrachloride	µg/L	4.4	5.00 U	20.00 U	1.00 UJ	410 U	160 U	41 U	8.2 U
Chloroform (Trichloromethane)	µg/L	470	190 J	310 J	1.00 UJ	350 U	140 U	35 U	7.0 U
cis-1,2-Dichloroethene	µg/L	16.00	25000	91000	1.00 UJ	42000	55000	12000	2900
Methylene chloride	µg/L	1600	17.50 U	70.00 U	5.00 UJ	1500 U	620 U	150 U	31 U
Tetrachloroethene	µg/L	8.85	7.50 U	30.00 U	1.00 UJ	330 U	860 J	33 U	2900
trans-1,2-Dichloroethene	µg/L	10000	1000	1300	1.00 UJ	460 U	890 J	290 J	110
Trichloroethene	µg/L	81	110 J	3000	1.00 UJ	340 J	8400	28 U	4100
Vinyl chloride	µg/L	2.4	12000	23000	1.00 UJ	12000	8300	2700	81 J

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>C-5</i>	<i>C-6</i>	<i>C-7</i>	<i>C-8</i>	<i>C-9</i>	<i>C-10</i>	<i>CH-1</i>	<i>CH-1</i>	
<i>Sample ID:</i>		<i>GW-052306-LH-C5</i>	<i>GW-052406-LH-C6</i>	<i>GW-052406-LH-C7</i>	<i>GW-052406-LH-C8</i>	<i>GW-052406-LH-C9</i>	<i>GW-052406-LH-C10</i>	<i>GW-060106-LH-CH1-001</i>	<i>GW-072006-DR-CH1-002</i>	
<i>Sample Date:</i>		<i>5/23/2006</i>	<i>5/24/2006</i>	<i>5/24/2006</i>	<i>5/24/2006</i>	<i>5/24/2006</i>	<i>5/24/2006</i>	<i>6/1/2006</i>	<i>7/20/2006</i>	
<i>Sample Depth:</i>		<i>68.5 ft bgs</i>	<i>68.5 ft bgs</i>	<i>68.5 ft bgs</i>	<i>68.5 ft bgs</i>	<i>68.5 ft bgs</i>	<i>68 ft bgs</i>	<i>7 to 10 ft bgs</i>	<i>23 to 27 ft bgs</i>	
<i>elev_MLLW</i>		<i>-49.38</i>	<i>-49.48</i>	<i>-49.58</i>	<i>-49.68</i>	<i>-49.88</i>	<i>-49.68</i>	<i>10.92 to 7.92</i>	<i>-5.08 to -9.08</i>	
<i>elev_NGVD</i>		<i>-55.7</i>	<i>-55.8</i>	<i>-55.9</i>	<i>-56</i>	<i>-56.2</i>	<i>-56</i>	<i>4.6 to 1.6</i>	<i>-11.4 to -15.4</i>	
Parameters	Units	CSI WG								
VOAs										
1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.27 U	1.00 UJ
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.2 U	1.00 UJ
1,1-Dichloroethene	µg/L	3.2	0.095 J	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.30 U	1.00 UJ
Carbon tetrachloride	µg/L	4.4	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.10 U	1.00 UJ
Chloroform (Trichloromethane)	µg/L	470	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	3.8 J	4.90 J
cis-1,2-Dichloroethene	µg/L	16.00	4.2	0.16 J	0.35 J	0.14 J	0.062 U	0.28 J	0.16 U	1.00 UJ
Methylene chloride	µg/L	1600	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.35 U	5.00 UJ
Tetrachloroethene	µg/L	8.85	0.32 J	0.066 U	0.078 J	0.066 U	0.066 U	0.20 J	0.15 U	1.00 UJ
trans-1,2-Dichloroethene	µg/L	10000	6.6	0.091 U	0.091 U	0.091 U	1.2	0.18 J	0.19 U	1.00 UJ
Trichloroethene	µg/L	81	1.6	0.36 J	0.055 U	0.055 U	0.055 U	0.40 J	0.16 U	1.00 UJ
Vinyl chloride	µg/L	2.4	74	0.14 U	0.14 U	0.14 U	1.9	0.14 U	0.23 U	1.00 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>CH-1</i>	<i>CH-1</i>	<i>CH-1</i>	<i>CH-1</i>	<i>CH-1</i>	<i>CH-1</i>	
<i>Sample ID:</i>		<i>GW-072006-DR-CH1-003</i>	<i>GW-072006-DR-CH1-004</i>	<i>GW-072006-DR-CH1-005</i>	<i>GW-072006-DR-CH1-006</i>	<i>GW-072106-DR-CH1-007</i>	<i>GW-072106-DR-CH1-008</i>	
<i>Sample Date:</i>		<i>7/20/2006</i>	<i>7/20/2006</i>	<i>7/20/2006</i>	<i>7/20/2006</i>	<i>7/21/2006</i>	<i>7/21/2006</i>	
<i>Sample Depth:</i>		<i>48 to 52 ft bgs</i>	<i>73 to 77 ft bgs</i>	<i>73 to 77 ft bgs</i>	<i>98 to 102 ft bgs</i>	<i>123 to 126 ft bgs</i>	<i>148 to 152 ft bgs</i>	
<i>elev_MLLW</i>		<i>-30.08 to -34.08</i>	<i>-55.08 to -59.08</i>	<i>-55.08 to -59.08</i>	<i>-80.08 to -84.08</i>	<i>-105.08 to -108.08</i>	<i>-130.08 to -134.08</i>	
<i>elev_NGVD</i>		<i>-36.4 to -40.4</i>	<i>-61.4 to -65.4</i>	<i>-61.4 to -65.4</i>	<i>-86.4 to -90.4</i>	<i>-111.4 to -114.4</i>	<i>-136.4 to -140.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	1.00 UJ	5.00 UJ	10.0 U	10.0 U	1.00 U	1.00 UJ
1,1,2-Trichloroethane	µg/L	42	1.00 UJ	5.00 UJ	10.0 U	10.0 U	1.00 U	1.00 UJ
1,1-Dichloroethene	µg/L	3.2	1.00 UJ	5.00 UJ	10.0 U	10.0 U	1.00 U	1.00 UJ
Carbon tetrachloride	µg/L	4.4	1.00 UJ	5.00 UJ	10.0 U	10.0 U	1.00 U	1.00 UJ
Chloroform (Trichloromethane)	µg/L	470	1.00 UJ	5.00 UJ	10.0 U	10.0 U	1.84	2.46 J
cis-1,2-Dichloroethene	µg/L	16.00	1.00 UJ	5.00 UJ	10.0 U	10.0 U	1.00 U	1.00 UJ
Methylene chloride	µg/L	1600	5.00 UJ	25.0 UJ	50.0 U	50.0 U	5.00 U	5.00 UJ
Tetrachloroethene	µg/L	8.85	1.00 UJ	5.00 UJ	10.0 U	10.0 U	1.00 U	1.00 UJ
trans-1,2-Dichloroethene	µg/L	10000	1.00 UJ	5.00 UJ	10.0 U	10.0 U	1.00 U	1.00 UJ
Trichloroethene	µg/L	81	1.00 UJ	5.00 UJ	10.0 U	10.0 U	1.00 U	1.00 UJ
Vinyl chloride	µg/L	2.4	1.00 UJ	5.00 UJ	10.0 U	10.0 U	1.00 U	1.00 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>CH-2</i>		<i>CH-2</i>		<i>CH-2</i>		<i>CH-2</i>		<i>CH-2</i>			
<i>Sample ID:</i>	GW-060106-DR-CH2-001		GW-080206-DR-CH2-002		GW-080206-DR-CH2-003		GW-080306-DR-CH2-004		GW-080306-DR-CH2-005		GW-080406-DR-CH2-006	
<i>Sample Date:</i>	6/1/2006		8/2/2006		8/2/2006		8/3/2006		8/3/2006		8/4/2006	
<i>Sample Depth:</i>	7 to 10 ft bgs		23 to 27 ft bgs		48 to 52 ft bgs		73 to 77 ft bgs		98 to 102 ft bgs		123 to 127 ft bgs	
<i>elev_MLLW</i>	10.92 to 7.92		-5.08 to -9.08		-30.08 to -34.08		-55.08 to -59.08		-80.08 to -84.08		-105.08 to -109.08	
<i>elev_NGVD</i>	4.6 to 1.6		-11.4 to -15.4		-36.4 to -40.4		-61.4 to -65.4		-86.4 to -90.4		-111.4 to -115.4	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	R	R	0.27 U	0.27 U				
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	R	0.2 U	0.2 U	0.2 U	0.2 U			
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	R	0.30 U	0.30 U	0.30 U	0.30 U			
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	R	0.10 U	0.10 U	0.10 U	0.10 U			
Chloroform (Trichloromethane)	µg/L	470	40	22	R	0.16 U	0.19 J	0.16 U	0.16 U			
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	R	0.16 U	0.16 U	0.16 U	0.16 U			
Methylene chloride	µg/L	1600	0.35 U	0.35 U	320 J	0.35 U	0.35 U	0.35 U	0.35 U			
Tetrachloroethene	µg/L	8.85	0.15 U	0.52 J	R	0.15 U	0.15 U	0.15 U	0.15 U			
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	R	0.19 U	0.19 U	0.19 U	0.19 U			
Trichloroethene	µg/L	81	0.16 U	0.44 J	R	0.16 U	0.16 U	0.16 U	0.16 U			
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	R	0.23 U	0.23 U	0.23 U	0.23 U			

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>CH-3</i>	<i>CH-3</i>	<i>CH-3</i>	<i>CH-3</i>	<i>CH-3</i>	<i>CH-3</i>	
<i>Sample ID:</i>		<i>GW-053006-LH-CH3-001</i>	<i>GW-053006-LH-CH3-002</i>	<i>GW-072706-DR-CH3-003</i>	<i>GW-072706-DR-CH3-004</i>	<i>GW-072706-DR-CH3-005</i>	<i>GW-072706-DR-CH3-006</i>	
<i>Sample Date:</i>		<i>5/30/2006</i>	<i>5/30/2006</i>	<i>7/27/2006</i>	<i>7/27/2006</i>	<i>7/27/2006</i>	<i>7/27/2006</i>	
<i>Sample Depth:</i>		<i>10 to 14 ft bgs</i>	<i>21 to 24 ft bgs</i>	<i>48 to 52 ft bgs</i>	<i>73 to 77 ft bgs</i>	<i>98 to 102 ft bgs</i>	<i>98 to 102 ft bgs</i>	
<i>elev_MLLW</i>		<i>7.92 to 3.92</i>	<i>-3.08 to -6.08</i>	<i>-30.08 to -34.08</i>	<i>-55.08 to -59.08</i>	<i>-80.08 to -84.08</i>	<i>-80.08 to -84.08</i>	
<i>elev_NGVD</i>		<i>1.6 to -2.4</i>	<i>-9.4 to -12.4</i>	<i>-36.4 to -40.4</i>	<i>-61.4 to -65.4</i>	<i>-86.4 to -90.4</i>	<i>-86.4 to -90.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				<i>(Duplicate)</i>	
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	2.70 U	2.70 U	R	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	2.0 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	3.00 U	3.00 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	1.00 U	1.00 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	5.1	1.60 U	5.7	0.19 J	1.7	1.7
cis-1,2-Dichloroethene	µg/L	16.00	1.60 U	1.60 U	6.5	0.68 J	0.16 U	0.16 U
Methylene chloride	µg/L	1600	3.50 U	3.50 U	0.35 U	0.46 J	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	3.2 J	2.4 J	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	1.90 U	1.90 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	1.60 U	1.60 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	2.30 U	2.30 U	4.2 J	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>CH-3</i>	<i>CH-4</i>	<i>CH-4</i>	<i>CH-4</i>	<i>CH-4</i>	<i>CH-4</i>
<i>Sample ID:</i>	GW-072806-DR-CH3-007	GW-053106-LH-CH4-001	GW-072506-DR-CH4-002	GW-072506-DR-CH4-003	GW-072506-DR-CH4-004	GW-072506-DR-CH4-005
<i>Sample Date:</i>	7/28/2006	5/31/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006
<i>Sample Depth:</i>	123 to 127 ft bgs	9 to 13 ft bgs	23 to 27 ft bgs	48 to 52 ft bgs	73 to 77 ft bgs	98 to 102 ft bgs
<i>elev_MLLW</i>	-105.08 to -109.08	8.92 to 4.92	-5.08 to -9.08	-30.08 to -34.08	-55.08 to -59.08	-80.08 to -84.08
<i>elev_NGVD</i>	-111.4 to -115.4	2.6 to -1.4	-11.4 to -15.4	-36.4 to -40.4	-61.4 to -65.4	-86.4 to -90.4
<i>Parameters</i>	<i>Units CSI WG</i>					
<i>VOAs</i>						
1,1,2,2-Tetrachloroethane	µg/L 11	0.27 U	0.27 U	10.0 U	1.00 U	5.00 U
1,1,2-Trichloroethane	µg/L 42	0.2 U	0.2 U	10.0 U	1.00 U	5.00 U
1,1-Dichloroethene	µg/L 3.2	0.30 U	0.30 U	10.0 U	1.00 U	5.00 U
Carbon tetrachloride	µg/L 4.4	0.10 U	0.10 U	10.0 U	1.00 U	5.00 U
Chloroform (Trichloromethane)	µg/L 470	0.16 U	0.16 U	10.0 U	1.68	2.05 J
cis-1,2-Dichloroethene	µg/L 16.00	0.16 U	0.16 U	10.0 U	1.00 U	5.00 U
Methylene chloride	µg/L 1600	0.35 U	0.35 U	50.0 U	5.00 U	25.0 U
Tetrachloroethene	µg/L 8.85	0.15 U	0.15 U	10.0 U	1.00 U	5.00 U
trans-1,2-Dichloroethene	µg/L 10000	0.19 U	0.19 U	10.0 U	1.00 U	5.00 U
Trichloroethene	µg/L 81	0.16 U	1. J	10.0 U	1.00 U	5.00 U
Vinyl chloride	µg/L 2.4	0.23 U	0.23 U	10.0 U	1.00 U	5.00 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>CH-4</i>	<i>CH-4</i>	<i>CH-5</i>		<i>D-2</i>	<i>D-3</i>	<i>D-4</i>	<i>D-5</i>
<i>Sample ID:</i>		<i>GW-072606-DR-CH4-006</i>	<i>GW-072606-DR-CH4-007</i>	<i>GW-060806-DR-CH5-001</i>		<i>GW-052406-LH-D2</i>	<i>GW-052406-LH-D3</i>	<i>GW-052606-LH-D4</i>	<i>GW-052306-LH-D5</i>
<i>Sample Date:</i>		<i>7/26/2006</i>	<i>7/26/2006</i>	<i>6/8/2006</i>		<i>5/24/2006</i>	<i>5/24/2006</i>	<i>5/26/2006</i>	<i>5/23/2006</i>
<i>Sample Depth:</i>		<i>123 to 127 ft bgs</i>	<i>148 to 152 ft bgs</i>	<i>9 to 12 ft bgs</i>		<i>68.5 ft bgs</i>	<i>68.5 ft bgs</i>	<i>104.9 ft bgs</i>	<i>116.55 ft bgs</i>
<i>elev_MLLW</i>		<i>-105.08 to -109.08</i>	<i>-130.08 to -134.08</i>	<i>8.92 to 5.92</i>		<i>-50.08</i>	<i>-50.28</i>	<i>-86.98</i>	<i>-97.92</i>
<i>elev_NGVD</i>		<i>-111.4 to -115.4</i>	<i>-136.4 to -140.4</i>	<i>2.6 to -0.4</i>		<i>-56.4</i>	<i>-56.6</i>	<i>-93.3</i>	<i>-104.2</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
VOAs									
1,1,2,2-Tetrachloroethane	µg/L	11	1.00 U	1.00 U	R	81 U	81 U	41 U	81 U
1,1,2-Trichloroethane	µg/L	42	1.00 U	1.00 U	R	82 U	82 U	41 U	82 U
1,1-Dichloroethene	µg/L	3.2	1.00 U	1.00 U	R	86 U	86 U	62 J	180 J
Carbon tetrachloride	µg/L	4.4	1.00 U	1.00 U	R	82 U	82 U	41 U	82 U
Chloroform (Trichloromethane)	µg/L	470	0.310 J	2.95	R	70 U	320 J	580	3700
cis-1,2-Dichloroethene	µg/L	16.00	1.00 U	1.00 U	R	3900	26000	10000	32000
Methylene chloride	µg/L	1600	5.00 U	5.00 U	R	310 U	310 U	480 J	310 U
Tetrachloroethene	µg/L	8.85	1.00 U	1.00 U	1.5 J	170 J	4100	2800	7500
trans-1,2-Dichloroethene	µg/L	10000	1.00 U	1.00 U	R	220 J	180 J	180 J	560 J
Trichloroethene	µg/L	81	1.00 U	1.00 U	0.41 J	140 J	11000	17000	42000
Vinyl chloride	µg/L	2.4	1.00 U	1.00 U	R	15000	6500	2400	13000

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	Dock2-1	Dock2-1	Dock2-1	Dock2-1	Dock2-1	Dock2-1
Sample ID:	GW-072005-DOCK2-1-001	GW-072005-DOCK2-1-002	GW-072005-DOCK2-1-003	GW-072005-DOCK2-1-004	GW-072105-DOCK2-1-005	GW-072105-DOCK2-1-006
Sample Date:	7/20/2005	7/20/2005	7/20/2005	7/20/2005	7/21/2005	7/21/2005
Sample Depth:	4.5 to 7.5 ft bml	8 to 11 ft bml	13 to 16 ft bml	18 to 21 ft bml	23 to 26 ft bml	28 to 31 ft bml
elev_MLLW	-47.4 to -50.4	-50.9 to -53.9	-55.9 to -58.9	-60.9 to -63.9	-65.9 to -68.9	-70.9 to -73.9
elev_NGVD	-53.7 to -56.7	-57.2 to -60.2	-62.2 to -65.2	-67.2 to -70.2	-72.2 to -75.2	-77.2 to -80.2

Parameters **Units CSI WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.68 U	0.34 U	1.36 U	0.68 U	6.8 UJ	6.8 UJ
1,1,2-Trichloroethane	µg/L	42	0.627 U	0.314 U	1.25 U	0.627 U	6.27 UJ	6.27 UJ
1,1-Dichloroethene	µg/L	3.2	0.595 U	0.298 U	1.19 U	0.595 U	5.95 UJ	5.95 UJ
Carbon tetrachloride	µg/L	4.4	0.97 U	0.485 U	1.94 U	0.97 U	9.7 UJ	9.7 UJ
Chloroform (Trichloromethane)	µg/L	470	0.717 U	0.359 U	1.43 U	0.717 U	7.17 UJ	7.17 UJ
cis-1,2-Dichloroethene	µg/L	16.00	26.8	10.5	524	184	3990 J	427 J
Methylene chloride	µg/L	1600	0.752 U	0.376 U	1.5 U	0.752 U	7.52 UJ	7.52 UJ
Tetrachloroethene	µg/L	8.85	0.578 U	0.289 U	1.16 U	0.578 U	5.78 UJ	5.78 UJ
trans-1,2-Dichloroethene	µg/L	10000	0.584 U	0.292 U	2.05 J	3.2 J	12.9 J	13.9 J
Trichloroethene	µg/L	81	0.641 U	0.321 U	1.28 U	0.641 U	6.41 UJ	6.41 UJ
Vinyl chloride	µg/L	2.4	0.604 U	0.302 U	30.7	63.5	198 J	2710 J

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	Dock2-1		Dock2-1		Dock2-2		Dock2-2		Dock2-2		Dock2-2	
Sample ID:	GW-072105-DOCK2-1-007		GW-072105-DOCK2-1-008		GW-071105-DOCK2-2-001		GW-071205-DOCK2-2-002		GW-071205-DOCK2-2-003		GW-071205-DOCK2-2-004	
Sample Date:	7/21/2005		7/21/2005		7/11/2005		7/12/2005		7/12/2005		7/12/2005	
Sample Depth:	33 to 36 ft bml		38 to 41 ft bml		7.5 to 10.5 ft bml		12.5 to 15.5 ft bml		17.5 to 20.5 ft bml		22.5 to 25.5 ft bml	
elev_MLLW	-75.9 to -78.9		-80.9 to -83.9		-49.2 to -52.2		-54.2 to -57.2		-59.2 to -62.2		-64.2 to -67.2	
elev_NGVD	-82.2 to -85.2		-87.2 to -90.2		-55.5 to -58.5		-60.5 to -63.5		-65.5 to -68.5		-70.5 to -73.5	
Parameters	Units CSI WG											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 UJ	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 UJ	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 UJ	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 UJ	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 UJ	R	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	0.397 J	0.0433 UJ	0.0433 U	0.0433 U	0.0433 U	0.0433 U	0.0433 U	0.0433 U	0.0433 U	0.0433 U
Methylene chloride	µg/L	1600	0.0752 U	0.0752 UJ	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 UJ	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 UJ	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U
Trichloroethene	µg/L	81	0.0641 U	0.0641 UJ	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U
Vinyl chloride	µg/L	2.4	0.752 J	0.0609 J	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Dock2-2</i>		<i>Dock2-2</i>		<i>Dock2-3</i>		<i>Dock2-3</i>		<i>Dock2-3</i>		<i>Dock2-3</i>	
<i>Sample ID:</i>	<i>GW-071205-DOCK2-2-005</i>		<i>GW-071305-DOCK2-2-006</i>		<i>GW-072205-DOCK2-3-001</i>		<i>GW-072205-DOCK2-3-002</i>		<i>GW-072205-DOCK2-3-003</i>		<i>GW-072505-DOCK2-3-004</i>	
<i>Sample Date:</i>	<i>7/12/2005</i>		<i>7/13/2005</i>		<i>7/22/2005</i>		<i>7/22/2005</i>		<i>7/22/2005</i>		<i>7/25/2005</i>	
<i>Sample Depth:</i>	<i>27.5 to 30.5 ft bml</i>		<i>32.5 to 35.5 ft bml</i>		<i>3 to 6 ft bml</i>		<i>3 to 6 ft bml</i>		<i>8 to 11 ft bml</i>		<i>13 to 16 ft bml</i>	
<i>elev_MLLW</i>	<i>-69.2 to -72.2</i>		<i>-74.2 to -77.2</i>		<i>-45.6 to -48.6</i>		<i>-45.6 to -48.6</i>		<i>-50.6 to -53.6</i>		<i>-55.6 to -58.6</i>	
<i>elev_NGVD</i>	<i>-75.5 to -78.5</i>		<i>-80.5 to -83.5</i>		<i>-51.9 to -54.9</i>		<i>-51.9 to -54.9</i>		<i>-56.9 to -59.9</i>		<i>-61.9 to -64.9</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 UJ	0.68 UJ	0.068 UJ	0.068 UJ	0.068 UJ	0.068 UJ	0.068 UJ	0.068 UJ
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	9.39 UJ	0.939 UJ	0.0939 UJ	0.0939 UJ	0.0939 UJ	0.0939 UJ	0.0939 UJ	0.0939 UJ
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	17.7 UJ	0.177 UJ	0.177 UJ	0.177 UJ	0.177 UJ	0.177 UJ	0.177 UJ	0.177 UJ
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	13.7 UJ	1.37 UJ	0.137 UJ	0.137 UJ	0.137 UJ	0.137 UJ	0.137 UJ	0.137 UJ
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	18.1 UJ	1.81 UJ	0.181 UJ	0.181 UJ	0.181 UJ	0.181 UJ	0.181 UJ	0.181 UJ
cis-1,2-Dichloroethene	µg/L	16.00	0.0433 U	0.0901 J	1.14 J	0.154 UJ	4.17 J	0.154 UJ	0.154 UJ	0.154 UJ	0.154 UJ	0.154 UJ
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.155 UJ	0.155 UJ	0.155 UJ	0.155 UJ	0.155 UJ	0.155 UJ	0.155 UJ	0.155 UJ
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	14.4 UJ	1.44 UJ	0.144 UJ	0.144 UJ	0.144 UJ	0.144 UJ	0.144 UJ	0.144 UJ
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.145 UJ	1.45 UJ	0.145 UJ	0.145 UJ	0.145 UJ	0.145 UJ	0.145 UJ	0.145 UJ
Trichloroethene	µg/L	81	0.0641 U	0.109 J	0.126 UJ	1.26 UJ	0.132 J	0.132 J	0.132 J	0.132 J	0.132 J	0.132 J
Vinyl chloride	µg/L	2.4	0.0604 U	0.0604 U	1.5 J	1.66 J	0.162 UJ	0.162 UJ	0.162 UJ	0.162 UJ	0.162 UJ	0.162 UJ

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	Dock2-3		Dock2-3		Dock2-3		Dock2-4		Dock2-4		Dock2-4	
Sample ID:	GW-072505-DOCK2-3-005		GW-072505-DOCK2-3-006		GW-072505-DOCK2-3-007		GW-072805-DOCK2-4-001		GW-072805-DOCK2-4-002		GW-072805-DOCK2-4-003	
Sample Date:	7/25/2005		7/25/2005		7/25/2005		7/28/2005		7/28/2005		7/28/2005	
Sample Depth:	18 to 21 ft bml		23 to 26 ft bml		28 to 31 ft bml		4 to 7 ft bml		9 to 12 ft bml		14 to 17 ft bml	
elev_MLLW	-60.6 to -63.6		-65.6 to -68.6		-70.6 to -73.6		-46.2 to -49.2		-51.2 to -54.2		-56.2 to -59.2	
elev_NGVD	-66.9 to -69.9		-71.9 to -74.9		-76.9 to -79.9		-52.5 to -55.5		-57.5 to -60.5		-62.5 to -65.5	
Parameters	Units CSI WG											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 UJ	0.068 UJ	0.068 UJ		R		R		R	
1,1,2-Trichloroethane	µg/L	42	0.0939 UJ	0.0939 UJ	0.0939 UJ		R		R		R	
1,1-Dichloroethene	µg/L	3.2	0.177 UJ	0.177 UJ	0.177 UJ		R		R		R	
Carbon tetrachloride	µg/L	4.4	0.137 UJ	0.137 UJ	0.137 UJ		R		R		R	
Chloroform (Trichloromethane)	µg/L	470	0.181 UJ	0.181 UJ	0.181 UJ		R		R		R	
cis-1,2-Dichloroethene	µg/L	16.00	0.154 UJ	0.466 J	0.349 J	1.78 J			0.667 J		1.94 J	
Methylene chloride	µg/L	1600	0.155 UJ	0.155 UJ	0.155 UJ		R		R		R	
Tetrachloroethene	µg/L	8.85	0.144 UJ	0.144 UJ	0.144 UJ		R		R		R	
trans-1,2-Dichloroethene	µg/L	10000	0.145 UJ	0.145 UJ	0.145 UJ		R		R		R	
Trichloroethene	µg/L	81	0.126 UJ	0.126 UJ	0.126 UJ		R		R		R	
Vinyl chloride	µg/L	2.4	0.162 UJ	0.162 UJ	0.162 UJ		R		R		R	

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-4</i>		<i>Dock2-4</i>		<i>Dock2-4</i>		<i>Dock2-4</i>		<i>Dock2-4</i>		<i>Dock2-5</i>	
<i>Sample ID:</i>	GW-072805-DOCK2-4-004		GW-072905-DOCK2-4-005		GW-072905-DOCK2-4-006		GW-072905-DOCK2-4-007		GW-072905-DOCK2-4-008		GW-080105-DOCK2-5-001	
<i>Sample Date:</i>	7/28/2005		7/29/2005		7/29/2005		7/29/2005		7/29/2005		8/1/2005	
<i>Sample Depth:</i>	19 to 22 ft bml		24 to 27 ft bml		24 to 27 ft bml		29 to 32 ft bml		34 to 37 ft bml		2 to 5 ft bml	
<i>elev_MLLW</i>	-61.2 to -64.2		-66.2 to -69.2		-66.2 to -69.2		-71.2 to -74.2		-76.2 to -79.2		-37 to -40	
<i>elev_NGVD</i>	-67.5 to -70.5		-72.5 to -75.5		-72.5 to -75.5		-77.5 to -80.5		-82.5 to -85.5		-43.3 to -46.3	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 UJ	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0939 U	0.0627 U	0.0627 UJ	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.177 U	0.0595 U	0.0595 UJ	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	0.137 U	0.097 U	0.097 UJ	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	0.181 U	0.0717 U	0.0717 UJ	0.0717 U	0.0717 U	0.14 J	0.0717 U	0.14 J	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	7.66	5.74	5.68 J	0.0433 U	0.0433 U	2.19	0.0433 U	2.19	0.0433 U	1
Methylene chloride	µg/L	1600	0.155 U	0.0752 U	0.0752 UJ	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.144 U	0.0578 U	0.0578 UJ	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	0.42 J	0.0584 U	0.0584 UJ	0.0584 U	0.0584 U	0.0825 J	0.0584 U	0.0825 J	0.0584 U	0.0584 U
Trichloroethene	µg/L	81	1.72	0.0717 J	0.0682 J	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U
Vinyl chloride	µg/L	2.4	0.493 J	0.0604 U	0.0604 UJ	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	12

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-5</i>		<i>Dock2-5</i>		<i>Dock2-5</i>		<i>Dock2-5</i>		<i>Dock2-5</i>		<i>Dock2-5</i>	
<i>Sample ID:</i>	<i>GW-080105-DOCK2-5-002</i>		<i>GW-080105-DOCK2-5-003</i>		<i>GW-080105-DOCK2-5-004</i>		<i>GW-080205-DOCK2-5-005</i>		<i>GW-080205-DOCK2-5-006</i>		<i>GW-080205-DOCK2-5-007</i>	
<i>Sample Date:</i>	<i>8/1/2005</i>		<i>8/1/2005</i>		<i>8/1/2005</i>		<i>8/2/2005</i>		<i>8/2/2005</i>		<i>8/2/2005</i>	
<i>Sample Depth:</i>	<i>2 to 5 ft bml</i>		<i>7 to 10 ft bml</i>		<i>12 to 15 ft bml</i>		<i>17 to 20 ft bml</i>		<i>22 to 25 ft bml</i>		<i>27 to 30 ft bml</i>	
<i>elev_MLLW</i>	<i>-37 to -40</i>		<i>-42 to -45</i>		<i>-47 to -50</i>		<i>-52 to -55</i>		<i>-57 to -60</i>		<i>-62 to -65</i>	
<i>elev_NGVD</i>	<i>-43.3 to -46.3</i>		<i>-48.3 to -51.3</i>		<i>-53.3 to -56.3</i>		<i>-58.3 to -61.3</i>		<i>-63.3 to -66.3</i>		<i>-68.3 to -71.3</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.177 U	0.177 U	0.177 U	0.177 U	0.177 U	0.177 U
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.097 U	0.097 U	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.181 U	0.181 U	0.181 U	0.181 U	0.181 U	0.181 U
cis-1,2-Dichloroethene	µg/L	16.00	0.878 J	1.38	0.56 J	0.154 U	0.154 U	0.154 U	0.154 U	0.154 U	1.84	0.155 U
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.155 U	0.155 U	0.155 U	0.155 U	0.155 U	0.155 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	0.0578 U	0.0648 J	0.144 U	0.144 U	0.144 U	0.144 U	0.144 U	0.144 U
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.145 U	0.145 U	0.145 U	0.145 U	0.145 U	0.145 U
Trichloroethene	µg/L	81	0.0641 U	0.106 J	0.0641 U	0.0641 U	0.126 U	0.126 U	0.126 U	0.126 U	0.126 U	0.126 U
Vinyl chloride	µg/L	2.4	11.7	0.0604 U	0.0604 U	0.0604 U	0.162 U	0.162 U	0.162 U	0.162 U	0.535 J	0.535 J

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Dock2-5</i>		<i>Dock2-5</i>		<i>Dock2-6</i>		<i>Dock2-6</i>		<i>Dock2-6</i>		<i>Dock2-6</i>	
<i>Sample ID:</i>	<i>GW-080205-DOCK2-5-008</i>		<i>GW-080205-DOCK2-5-009</i>		<i>GW-090605-DOCK2-6-001</i>		<i>GW-090605-DOCK2-6-002</i>		<i>GW-090605-DOCK2-6-003</i>		<i>GW-090605-DOCK2-6-004</i>	
<i>Sample Date:</i>	<i>8/2/2005</i>		<i>8/2/2005</i>		<i>9/6/2005</i>		<i>9/6/2005</i>		<i>9/6/2005</i>		<i>9/6/2005</i>	
<i>Sample Depth:</i>	<i>32 to 35 ft bml</i>		<i>37 to 40 ft bml</i>		<i>0.7 to 3.7 ft bml</i>		<i>5.7 to 8.7 ft bml</i>		<i>10.7 to 13.7 ft bml</i>		<i>15.7 to 18.7 ft bml</i>	
<i>elev_MLLW</i>	<i>-67 to -70</i>		<i>-72 to -75</i>		<i>-36.8 to -39.8</i>		<i>-41.8 to -44.8</i>		<i>-46.8 to -49.8</i>		<i>-51.8 to -54.8</i>	
<i>elev_NGVD</i>	<i>-73.3 to -76.3</i>		<i>-78.3 to -81.3</i>		<i>-43.1 to -46.1</i>		<i>-48.1 to -51.1</i>		<i>-53.1 to -56.1</i>		<i>-58.1 to -61.1</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0939 U	0.0939 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.177 U	0.177 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	0.137 U	0.137 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	0.181 U	0.181 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	0.298 J	0.236 J	0.389 J	1.05	0.484 J	0.551 J				
Methylene chloride	µg/L	1600	0.155 U	0.155 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.144 U	0.144 U	0.0578 U	0.0706 J	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	0.145 U	0.145 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U
Trichloroethene	µg/L	81	0.126 U	0.126 U	0.409 J	0.672 J	0.299 J	0.427 J				
Vinyl chloride	µg/L	2.4	0.238 J	0.186 J	0.0604 U	0.0854 J	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-6</i>		<i>Dock2-6</i>		<i>Dock2-6</i>		<i>Dock2-6</i>		<i>Dock2-6</i>			
<i>Sample ID:</i>	<i>GW-090605-DOCK2-6-005</i>		<i>GW-090605-DOCK2-6-006</i>		<i>GW-090605-DOCK2-6-007</i>		<i>GW-090705-DOCK2-6-008</i>		<i>GW-090705-DOCK2-6-009</i>		<i>GW-090705-DOCK2-6-010</i>	
<i>Sample Date:</i>	<i>9/6/2005</i>		<i>9/6/2005</i>		<i>9/6/2005</i>		<i>9/7/2005</i>		<i>9/7/2005</i>		<i>9/7/2005</i>	
<i>Sample Depth:</i>	<i>20.7 to 23.7 ft bml</i>		<i>25.7 to 28.7 ft bml</i>		<i>25.7 to 28.7 ft bml</i>		<i>30.7 to 33.7 ft bml</i>		<i>35.7 to 38.7 ft bml</i>		<i>40.7 to 43.7 ft bml</i>	
<i>elev_MLLW</i>	<i>-56.8 to -59.8</i>		<i>-61.8 to -64.8</i>		<i>-61.8 to -64.8</i>		<i>-66.8 to -69.8</i>		<i>-71.8 to -74.8</i>		<i>-76.8 to -79.8</i>	
<i>elev_NGVD</i>	<i>-63.1 to -66.1</i>		<i>-68.1 to -71.1</i>		<i>-68.1 to -71.1</i>		<i>-73.1 to -76.1</i>		<i>-78.1 to -81.1</i>		<i>-83.1 to -86.1</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	0.564 J	0.669 J	0.721 J	0.35 J	0.872 J	0.933 J				
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0696 J				
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U
Trichloroethene	µg/L	81	0.422 J	0.562 J	0.512 J	0.318 J	0.536 J	0.569 J				
Vinyl chloride	µg/L	2.4	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-7</i>		<i>Dock2-7</i>		<i>Dock2-7</i>		<i>Dock2-7</i>		<i>Dock2-7</i>			
<i>Sample ID:</i>	<i>GW-090705-DOCK2-7-001</i>		<i>GW-090705-DOCK2-7-002</i>		<i>GW-090705-DOCK2-7-003</i>		<i>GW-090705-DOCK2-7-004</i>		<i>GW-090705-DOCK2-7-005</i>		<i>GW-090705-DOCK2-7-006</i>	
<i>Sample Date:</i>	<i>9/7/2005</i>		<i>9/7/2005</i>		<i>9/7/2005</i>		<i>9/7/2005</i>		<i>9/7/2005</i>		<i>9/7/2005</i>	
<i>Sample Depth:</i>	<i>3 to 6 ft bml</i>		<i>8 to 11 ft bml</i>		<i>13 to 16 ft bml</i>		<i>18 to 21 ft bml</i>		<i>23 to 26 ft bml</i>		<i>23 to 26 ft bml</i>	
<i>elev_MLLW</i>	<i>-39.7 to -42.7</i>		<i>-44.7 to -47.7</i>		<i>-49.7 to -52.7</i>		<i>-54.7 to -57.7</i>		<i>-59.7 to -62.7</i>		<i>-59.7 to -62.7</i>	
<i>elev_NGVD</i>	<i>-46 to -49</i>		<i>-51 to -54</i>		<i>-56 to -59</i>		<i>-61 to -64</i>		<i>-66 to -69</i>		<i>-66 to -69</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	0.193 J	0.498 J	0.0774 J	0.246 J	0.499 J	0.511 J	0.499 J	0.499 J	0.511 J	0.511 J
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U
Trichloroethene	µg/L	81	0.161 J	0.263 J	0.0641 U	0.2 J	0.336 J	0.311 J	0.336 J	0.336 J	0.311 J	0.311 J
Vinyl chloride	µg/L	2.4	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-7</i>		<i>Dock2-7</i>		<i>Dock2-8</i>		<i>Dock2-8</i>		<i>Dock2-8</i>		<i>Dock2-8</i>	
<i>Sample ID:</i>	<i>GW-090705-DOCK2-7-007</i>		<i>GW-090705-DOCK2-7-008</i>		<i>GW-082005-DOCK2-8-001</i>		<i>GW-082205-DOCK2-8-002</i>		<i>GW-082205-DOCK2-8-003</i>		<i>GW-082205-DOCK2-8-004</i>	
<i>Sample Date:</i>	<i>9/7/2005</i>		<i>9/7/2005</i>		<i>8/20/2005</i>		<i>8/22/2005</i>		<i>8/22/2005</i>		<i>8/22/2005</i>	
<i>Sample Depth:</i>	<i>28 to 31 ft bml</i>		<i>33 to 36 ft bml</i>		<i>4 to 7 ft bml</i>		<i>9 to 12 ft bml</i>		<i>14 to 17 ft bml</i>		<i>19 to 22 ft bml</i>	
<i>elev_MLLW</i>	<i>-64.7 to -67.7</i>		<i>-69.7 to -72.7</i>		<i>-46.3 to -49.3</i>		<i>-51.3 to -54.3</i>		<i>-56.3 to -59.3</i>		<i>-61.3 to -64.3</i>	
<i>elev_NGVD</i>	<i>-71 to -74</i>		<i>-76 to -79</i>		<i>-52.6 to -55.6</i>		<i>-57.6 to -60.6</i>		<i>-62.6 to -65.6</i>		<i>-67.6 to -70.6</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.136 U	0.136 U	0.136 U	0.136 U	0.136 U	0.136 U	0.068 U	
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.125 U	0.188 U	0.188 U	0.188 U	0.188 U	0.188 U	0.0939 U	
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	0.119 U	0.354 U	0.354 U	0.354 U	0.354 U	0.354 U	0.177 U	
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.194 U	0.274 U	0.274 U	0.274 U	0.274 U	0.274 U	0.137 U	
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.143 U	0.362 U	0.362 U	0.362 U	0.362 U	0.362 U	0.181 U	
cis-1,2-Dichloroethene	µg/L	16.00	0.235 J	0.48 J	3.88	2.34	10.7	10.7	10.7	10.7	2.72	
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.15 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.155 U	
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	0.116 U	0.288 U	0.288 U	0.288 U	0.288 U	0.288 U	0.144 U	
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.117 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.145 U	
Trichloroethene	µg/L	81	0.185 J	0.289 J	0.663 J	0.252 U	0.252 U	0.252 U	0.252 U	0.252 U	0.126 U	
Vinyl chloride	µg/L	2.4	0.0604 U	0.0604 U	0.121 U	0.324 U	0.324 U	0.324 U	0.324 U	0.324 U	0.162 U	

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-8</i>		<i>Dock2-8</i>		<i>Dock2-8</i>		<i>Dock2-8</i>		<i>Dock2-8</i>			
<i>Sample ID:</i>	<i>GW-082205-DOCK2-8-005</i>		<i>GW-082205-DOCK2-8-006</i>		<i>GW-082205-DOCK2-8-007</i>		<i>GW-082205-DOCK2-8-008</i>		<i>GW-082205-DOCK2-8-009</i>		<i>GW-082205-DOCK2-8-010</i>	
<i>Sample Date:</i>	<i>8/22/2005</i>		<i>8/22/2005</i>		<i>8/22/2005</i>		<i>8/22/2005</i>		<i>8/22/2005</i>		<i>8/22/2005</i>	
<i>Sample Depth:</i>	<i>24 to 27 ft bml</i>		<i>24 to 27 ft bml</i>		<i>29 to 32 ft bml</i>		<i>34 to 37 ft bml</i>		<i>39 to 42 ft bml</i>		<i>44 to 47 ft bml</i>	
<i>elev_MLLW</i>	<i>-66.3 to -69.3</i>		<i>-66.3 to -69.3</i>		<i>-71.3 to -74.3</i>		<i>-76.3 to -79.3</i>		<i>-81.3 to -84.3</i>		<i>-86.3 to -89.3</i>	
<i>elev_NGVD</i>	<i>-72.6 to -75.6</i>		<i>-72.6 to -75.6</i>		<i>-77.6 to -80.6</i>		<i>-82.6 to -85.6</i>		<i>-87.6 to -90.6</i>		<i>-92.6 to -95.6</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	13.6 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0939 U	0.0939 U	18.8 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U
1,1-Dichloroethene	µg/L	3.2	0.177 U	0.177 U	35.4 U	0.177 U	0.177 U	0.177 U	0.177 U	0.177 U	0.177 U	0.177 U
Carbon tetrachloride	µg/L	4.4	0.137 U	0.137 U	27.4 U	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U
Chloroform (Trichloromethane)	µg/L	470	0.181 U	0.181 U	36.2 U	0.181 U	0.181 U	0.181 U	0.181 U	0.181 U	0.181 U	0.181 U
cis-1,2-Dichloroethene	µg/L	16.00	6.69	6.81	15800	27.7	13	12.5	13	12.5	13	12.5
Methylene chloride	µg/L	1600	0.155 U	0.155 U	31 U	0.155 U	0.155 U	0.155 U	0.155 U	0.155 U	0.155 U	0.155 U
Tetrachloroethene	µg/L	8.85	0.144 U	0.144 U	28.8 U	0.144 U	0.144 U	0.144 U	0.144 U	0.144 U	0.144 U	0.144 U
trans-1,2-Dichloroethene	µg/L	10000	0.145 U	0.145 U	286	0.465 J	0.222 J	0.222 J	0.222 J	0.222 J	0.222 J	0.222 J
Trichloroethene	µg/L	81	0.126 U	0.126 U	25.2 U	1.69	1.21	1.58	1.21	1.58	1.21	1.58
Vinyl chloride	µg/L	2.4	2.41	2.48	32.4 U	0.162 U	0.162 U	0.303 J	0.162 U	0.162 U	0.162 U	0.303 J

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Dock2-8</i>		<i>Dock2-8</i>		<i>Dock2-8</i>		<i>Dock2-8</i>		<i>Dock2-8</i>			
<i>Sample ID:</i>	<i>GW-082205-DOCK2-8-011</i>		<i>GW-082205-DOCK2-8-012</i>		<i>GW-082205-DOCK2-8-013</i>		<i>GW-082205-DOCK2-8-014</i>		<i>GW-082205-DOCK2-8-015</i>		<i>GW-082305-DOCK2-8-016</i>	
<i>Sample Date:</i>	<i>8/22/2005</i>		<i>8/22/2005</i>		<i>8/22/2005</i>		<i>8/22/2005</i>		<i>8/22/2005</i>		<i>8/23/2005</i>	
<i>Sample Depth:</i>	<i>49 to 52 ft bml</i>		<i>54 to 57 ft bml</i>		<i>59 to 62 ft bml</i>		<i>64 to 67 ft bml</i>		<i>69 to 72 ft bml</i>		<i>74 to 77 ft bml</i>	
<i>elev_MLLW</i>	<i>-91.3 to -94.3</i>		<i>-96.3 to -99.3</i>		<i>-101.3 to -104.3</i>		<i>-106.3 to -109.3</i>		<i>-111.3 to -114.3</i>		<i>-116.3 to -119.3</i>	
<i>elev_NGVD</i>	<i>-97.6 to -100.6</i>		<i>-102.6 to -105.6</i>		<i>-107.6 to -110.6</i>		<i>-112.6 to -115.6</i>		<i>-117.6 to -120.6</i>		<i>-122.6 to -125.6</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.177 U	0.177 U	0.177 U	0.177 U	0.177 U	0.177 U	0.177 U	0.177 U	0.177 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	0.181 U	0.181 U	0.181 U	0.181 U	0.181 U	0.181 U	0.181 U	0.181 U	0.181 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	6.01	0.357 J	0.154 U	0.286 J	0.155 U	0.155 U	0.155 U	0.155 U	0.155 U	4.89
Methylene chloride	µg/L	1600	0.155 U	0.155 U	0.155 U	0.155 U	0.155 U	0.155 U	0.155 U	0.155 U	0.155 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.144 U	0.144 U	0.144 U	0.144 U	0.144 U	0.144 U	0.144 U	0.144 U	0.144 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	0.145 U	0.145 U	0.145 U	0.145 U	0.145 U	0.145 U	0.145 U	0.397 J	0.397 J	0.102 J
Trichloroethene	µg/L	81	0.834 J	0.126 U	0.126 U	0.126 U	0.126 U	0.126 U	0.126 U	2.09	2.09	0.778 J
Vinyl chloride	µg/L	2.4	0.172 J	0.162 U	0.162 U	0.162 U	0.162 U	0.162 U	0.162 U	0.454 J	0.454 J	0.165 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-8</i>		<i>Dock2-8</i>		<i>Dock2-8</i>		<i>Dock2-8</i>		<i>Dock2-9</i>		<i>Dock2-9</i>	
<i>Sample ID:</i>	<i>GW-082305-DOCK2-8-017</i>		<i>GW-082305-DOCK2-8-018</i>		<i>GW-082305-DOCK2-8-019</i>		<i>GW-082305-DOCK2-8-020</i>		<i>GW-090805-DOCK2-9-001</i>		<i>GW-090805-DOCK2-9-002</i>	
<i>Sample Date:</i>	<i>8/23/2005</i>		<i>8/23/2005</i>		<i>8/23/2005</i>		<i>8/23/2005</i>		<i>9/8/2005</i>		<i>9/8/2005</i>	
<i>Sample Depth:</i>	<i>79 to 82 ft bml</i>		<i>84 to 87 ft bml</i>		<i>89 to 92 ft bml</i>		<i>94 to 97 ft bml</i>		<i>4 to 7 ft bml</i>		<i>9 to 12 ft bml</i>	
<i>elev_MLLW</i>	<i>-121.3 to -124.3</i>		<i>-126.3 to -129.3</i>		<i>-131.3 to -134.3</i>		<i>-136.3 to -139.3</i>		<i>-40.2 to -43.2</i>		<i>-45.2 to -48.2</i>	
<i>elev_NGVD</i>	<i>-127.6 to -130.6</i>		<i>-132.6 to -135.6</i>		<i>-137.6 to -140.6</i>		<i>-142.6 to -145.6</i>		<i>-46.5 to -49.5</i>		<i>-51.5 to -54.5</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	3.4 U	
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	3.14 U	
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	2.98 U	
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	-	-	4.85 U	
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	3.59 U	
cis-1,2-Dichloroethene	µg/L	16.00	0.0433 U	0.0433 U	0.155 J	0.0433 U	0.0433 U	0.0433 U	0.0752 U	0.0752 U	3.76 U	20.1
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	3.76 U	1310
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	2.89 U	
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0622 J	0.0622 J	3.5 J	
Trichloroethene	µg/L	81	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.111 J	0.111 J	3.21 U	
Vinyl chloride	µg/L	2.4	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	2.6	9.64 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-9</i>
<i>Sample ID:</i>	<i>GW-090805-DOCK2-9-003</i>	<i>GW-090805-DOCK2-9-004</i>	<i>GW-090805-DOCK2-9-005</i>	<i>GW-090805-DOCK2-9-006</i>	<i>GW-090805-DOCK2-9-007</i>	<i>GW-090805-DOCK2-9-008</i>
<i>Sample Date:</i>	<i>9/8/2005</i>	<i>9/8/2005</i>	<i>9/8/2005</i>	<i>9/8/2005</i>	<i>9/8/2005</i>	<i>9/8/2005</i>
<i>Sample Depth:</i>	<i>14 to 17 ft bml</i>	<i>19 to 22 ft bml</i>	<i>24 to 27 ft bml</i>	<i>29 to 32 ft bml</i>	<i>34 to 37 ft bml</i>	<i>39 to 42 ft bml</i>
<i>elev_MLLW</i>	<i>-50.2 to -53.2</i>	<i>-55.2 to -58.2</i>	<i>-60.2 to -63.2</i>	<i>-65.2 to -68.2</i>	<i>-70.2 to -73.2</i>	<i>-75.2 to -78.2</i>
<i>elev_NGVD</i>	<i>-56.5 to -59.5</i>	<i>-61.5 to -64.5</i>	<i>-66.5 to -69.5</i>	<i>-71.5 to -74.5</i>	<i>-76.5 to -79.5</i>	<i>-81.5 to -84.5</i>

Parameters **Units CSI WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.68 U	0.068 U	0.068 U	0.34 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.627 U	0.0627 U	0.0627 U	0.314 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.595 U	0.0595 U	0.0595 U	0.298 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	0.97 U	0.097 U	0.137 U	0.685 U	0.137 U	0.137 U
Chloroform (Trichloromethane)	µg/L	470	0.717 U	0.0717 U	0.0717 U	0.359 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	357	41.7	6.99	129	9.04	6.14
Methylene chloride	µg/L	1600	0.752 U	0.0752 U	0.0752 U	0.376 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.578 U	0.0578 U	0.0578 U	0.289 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	0.979 J	0.28 J	0.0584 U	0.463 J	0.0584 U	0.0584 U
Trichloroethene	µg/L	81	0.641 U	0.2 J	0.407 J	0.321 U	0.198 J	0.228 J
Vinyl chloride	µg/L	2.4	0.604 U	0.0604 U	0.0604 U	0.302 U	0.0604 U	0.0604 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-10</i>	<i>Dock2-10</i>
<i>Sample ID:</i>	<i>GW-090805-DOCK2-9-009</i>	<i>GW-090805-DOCK2-9-010</i>	<i>GW-090805-DOCK2-9-011</i>	<i>GW-090805-DOCK2-9-012</i>	<i>GW-091205-DOCK2-10-001</i>	<i>GW-091205-DOCK2-10-002</i>
<i>Sample Date:</i>	<i>9/8/2005</i>	<i>9/8/2005</i>	<i>9/8/2005</i>	<i>9/8/2005</i>	<i>9/12/2005</i>	<i>9/12/2005</i>
<i>Sample Depth:</i>	<i>44 to 47 ft bml</i>	<i>49 to 52 ft bml</i>	<i>54 to 57 ft bml</i>	<i>59 to 62 ft bml</i>	<i>2.6 to 5.6 ft bml</i>	<i>2.6 to 5.6 ft bml</i>
<i>elev_MLLW</i>	<i>-80.2 to -83.2</i>	<i>-85.2 to -88.2</i>	<i>-90.2 to -93.2</i>	<i>-95.2 to -98.2</i>	<i>-38 to -41</i>	<i>-38 to -41</i>
<i>elev_NGVD</i>	<i>-86.5 to -89.5</i>	<i>-91.5 to -94.5</i>	<i>-96.5 to -99.5</i>	<i>-101.5 to -104.5</i>	<i>-44.3 to -47.3</i>	<i>-44.3 to -47.3</i> <i>(Duplicate)</i>

Parameters *Units CSI WG*

VOAs						
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	0.137 U	0.137 U	0.137 U	0.137 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	0.0433 U	1.8	4.55	9.43
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.0584 U	0.0584 U
Trichloroethene	µg/L	81	0.0641 U	0.163 J	0.164 J	0.433 J
Vinyl chloride	µg/L	2.4	0.0604 U	0.0604 U	0.0604 U	0.0604 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-10</i>		<i>Dock2-10</i>		<i>Dock2-10</i>		<i>Dock2-10</i>		<i>Dock2-10</i>		<i>Dock2-10</i>	
<i>Sample ID:</i>	<i>GW-091205-DOCK2-10-003</i>		<i>GW-091305-DOCK2-10-004</i>		<i>GW-091305-DOCK2-10-005</i>		<i>GW-091305-DOCK2-10-006</i>		<i>GW-091305-DOCK2-10-007</i>		<i>GW-091305-DOCK2-10-008</i>	
<i>Sample Date:</i>	<i>9/12/2005</i>		<i>9/13/2005</i>		<i>9/13/2005</i>		<i>9/13/2005</i>		<i>9/13/2005</i>		<i>9/13/2005</i>	
<i>Sample Depth:</i>	<i>7.6 to 10.6 ft bml</i>		<i>12.6 to 15.6 ft bml</i>		<i>17.9 to 20.6 ft bml</i>		<i>22.6 to 25.6 ft bml</i>		<i>27.6 to 30.6 ft bml</i>		<i>32.6 to 35.6 ft bml</i>	
<i>elev_MLLW</i>	<i>-43 to -46</i>		<i>-48 to -51</i>		<i>-53.3 to -56</i>		<i>-58 to -61</i>		<i>-63 to -66</i>		<i>-68 to -71</i>	
<i>elev_NGVD</i>	<i>-49.3 to -52.3</i>		<i>-54.3 to -57.3</i>		<i>-59.6 to -62.3</i>		<i>-64.3 to -67.3</i>		<i>-69.3 to -72.3</i>		<i>-74.3 to -77.3</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	0.416 J	0.714 J	0.817 J	1.07	0.596 J	0.821 J	0.752 U	0.752 U	0.752 U	0.752 U
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	0.0578 U	0.105 J	0.0578 U	0.0841 J	0.0578 U	0.0578 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U
Trichloroethene	µg/L	81	1.85	2.63	2.34	3.04	1.76	2.3	1.76	1.76	1.76	1.76
Vinyl chloride	µg/L	2.4	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Dock2-10</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>
<i>Sample ID:</i>		<i>GW-091305-DOCK2-10-009</i>	<i>GW-101905-DOCK2-11-001</i>	<i>GW-101905-DOCK2-11-002</i>	<i>GW-102005-DOCK2-11-003</i>	<i>GW-102005-DOCK2-11-004</i>	<i>GW-102005-DOCK2-11-005</i>
<i>Sample Date:</i>		<i>9/13/2005</i>	<i>10/19/2005</i>	<i>10/19/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>
<i>Sample Depth:</i>		<i>37.6 to 40.6 ft bml</i>	<i>2 to 5 ft bml</i>	<i>7 to 10 ft bml</i>	<i>12 to 15 ft bml</i>	<i>17 to 20 ft bml</i>	<i>17 to 20 ft bml</i>
<i>elev_MLLW</i>		<i>-73 to -76</i>	<i>-37.5 to -40.5</i>	<i>-42.5 to -45.5</i>	<i>-47.5 to -50.5</i>	<i>-52.5 to -55.5</i>	<i>-52.5 to -55.5</i>
<i>elev_NGVD</i>		<i>-79.3 to -82.3</i>	<i>-43.8 to -46.8</i>	<i>-48.8 to -51.8</i>	<i>-53.8 to -56.8</i>	<i>-58.8 to -61.8</i>	<i>-58.8 to -61.8</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				<i>(Duplicate)</i>
VOAs							
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.27 U	R	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.10 U	0.10 UJ	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.646	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	0.045 U	0.35 UJ	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.015 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	2.09	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	0.025 U	0.23 U	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-11</i>		<i>Dock2-11</i>		<i>Dock2-11</i>		<i>Dock2-11</i>		<i>Dock2-11</i>			
<i>Sample ID:</i>	<i>GW-102005-DOCK2-11-006</i>		<i>GW-102005-DOCK2-11-007</i>		<i>GW-102005-DOCK2-11-008</i>		<i>GW-102005-DOCK2-11-009</i>		<i>GW-102005-DOCK2-11-010</i>		<i>GW-102005-DOCK2-11-011</i>	
<i>Sample Date:</i>	<i>10/20/2005</i>		<i>10/20/2005</i>		<i>10/20/2005</i>		<i>10/20/2005</i>		<i>10/20/2005</i>		<i>10/20/2005</i>	
<i>Sample Depth:</i>	<i>22 to 25 ft bml</i>		<i>27 to 30 ft bml</i>		<i>32 to 35 ft bml</i>		<i>37 to 40 ft bml</i>		<i>42 to 45 ft bml</i>		<i>47 to 50 ft bml</i>	
<i>elev_MLLW</i>	<i>-57.5 to -60.5</i>		<i>-62.5 to -65.5</i>		<i>-67.5 to -70.5</i>		<i>-72.5 to -75.5</i>		<i>-77.5 to -80.5</i>		<i>-82.5 to -85.5</i>	
<i>elev_NGVD</i>	<i>-63.8 to -66.8</i>		<i>-68.8 to -71.8</i>		<i>-73.8 to -76.8</i>		<i>-78.8 to -81.8</i>		<i>-83.8 to -86.8</i>		<i>-88.8 to -91.8</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	150	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	2.8 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	2.8 J	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>
<i>Sample ID:</i>	<i>GW-102005-DOCK2-11-012</i>	<i>GW-102005-DOCK2-11-013</i>	<i>GW-102005-DOCK2-11-014</i>	<i>GW-102005-DOCK2-11-015</i>	<i>GW-102005-DOCK2-11-016</i>	<i>GW-102005-DOCK2-11-017</i>
<i>Sample Date:</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>
<i>Sample Depth:</i>	<i>52 to 55 ft bml</i>	<i>57 to 60 ft bml</i>	<i>62 to 65 ft bml</i>	<i>67 to 70 ft bml</i>	<i>72 to 75 ft bml</i>	<i>77 to 80 ft bml</i>
<i>elev_MLLW</i>	<i>-87.5 to -90.5</i>	<i>-92.5 to -95.5</i>	<i>-97.5 to -100.5</i>	<i>-102.5 to -105.5</i>	<i>-107.5 to -110.5</i>	<i>-112.5 to -115.5</i>
<i>elev_NGVD</i>	<i>-93.8 to -96.8</i>	<i>-98.8 to -101.8</i>	<i>-103.8 to -106.8</i>	<i>-108.8 to -111.8</i>	<i>-113.8 to -116.8</i>	<i>-118.8 to -121.8</i>

Parameters *Units* *CSI* *WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-11</i>		<i>Dock2-11</i>		<i>Dock2-11</i>		<i>Dock2-11</i>		<i>Dock2-11</i>		<i>Dock2-12</i>	
<i>Sample ID:</i>	<i>GW-102005-DOCK2-11-018</i>		<i>GW-102105-DOCK2-11-019</i>		<i>GW-102105-DOCK2-11-020</i>		<i>GW-102105-DOCK2-11-021</i>		<i>GW-102105-DOCK2-11-022</i>		<i>GW-110805-DOCK2-12-001</i>	
<i>Sample Date:</i>	<i>10/20/2005</i>		<i>10/21/2005</i>		<i>10/21/2005</i>		<i>10/21/2005</i>		<i>10/21/2005</i>		<i>11/8/2005</i>	
<i>Sample Depth:</i>	<i>82 to 85 ft bml</i>		<i>87 to 90 ft bml</i>		<i>92 to 95 ft bml</i>		<i>97 to 100 ft bml</i>		<i>102 to 105 ft bml</i>		<i>2 to 5 ft bml</i>	
<i>elev_MLLW</i>	<i>-117.5 to -120.5</i>		<i>-122.5 to -125.5</i>		<i>-127.5 to -130.5</i>		<i>-132.5 to -135.5</i>		<i>-137.5 to -140.5</i>		<i>-38.6 to -41.6</i>	
<i>elev_NGVD</i>	<i>-123.8 to -126.8</i>		<i>-128.8 to -131.8</i>		<i>-133.8 to -136.8</i>		<i>-138.8 to -141.8</i>		<i>-143.8 to -146.8</i>		<i>-44.9 to -47.9</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Dock2-12</i>		<i>Dock2-12</i>		<i>Dock2-12</i>		<i>Dock2-12</i>		<i>Dock2-12</i>			
<i>Sample ID:</i>	GW-110805-DOCK2-12-002		GW-110805-DOCK2-12-003		GW-110805-DOCK2-12-004		GW-110805-DOCK2-12-005		GW-110805-DOCK2-12-006		GW-110805-DOCK2-12-007	
<i>Sample Date:</i>	11/8/2005		11/8/2005		11/8/2005		11/8/2005		11/8/2005		11/8/2005	
<i>Sample Depth:</i>	7 to 10 ft bml		12 to 15 ft bml		17 to 20 ft bml		22 to 25 ft bml		27 to 30 ft bml		32 to 35 ft bml	
<i>elev_MLLW</i>	-43.6 to -46.6		-48.6 to -51.6		-53.6 to -56.6		-58.6 to -61.6		-63.6 to -66.6		-68.6 to -71.6	
<i>elev_NGVD</i>	-49.9 to -52.9		-54.9 to -57.9		-59.9 to -62.9		-64.9 to -67.9		-69.9 to -72.9		-74.9 to -77.9	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	1.6 J	0.16 U	0.16 U	4.7 J	0.16 U	0.16 U	0.16 U	3.7 J	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	1.1 J	0.16 U	0.16 U	0.16 U	0.75 J	0.16 U
Vinyl chloride	µg/L	2.4	0.23 U	2.0 J	0.23 U	0.23 U	4.1 J	0.23 U	0.23 U	0.23 U	2.8 J	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-12</i>		<i>Dock2-12</i>		<i>Dock2-12</i>		<i>Dock2-12</i>		<i>Dock2-12</i>		<i>Dock2-12</i>	
<i>Sample ID:</i>	GW-110805-DOCK2-12-008		GW-110805-DOCK2-12-009		GW-110805-DOCK2-12-010		GW-110805-DOCK2-12-011		GW-110805-DOCK2-12-012		GW-110805-DOCK2-12-013	
<i>Sample Date:</i>	11/8/2005		11/8/2005		11/8/2005		11/8/2005		11/8/2005		11/8/2005	
<i>Sample Depth:</i>	37 to 40 ft bml		42 to 45 ft bml		47 to 50 ft bml		52 to 55 ft bml		57 to 60 ft bml		57 to 60 ft bml	
<i>elev_MLLW</i>	-73.6 to -76.6		-78.6 to -81.6		-83.6 to -86.6		-88.6 to -91.6		-93.6 to -96.6		-93.6 to -96.6	
<i>elev_NGVD</i>	-79.9 to -82.9		-84.9 to -87.9		-89.9 to -92.9		-94.9 to -97.9		-99.9 to -102.9		-99.9 to -102.9	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	4.6 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.98 J	0.16 U	0.16 U	0.16 U	0.41 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	4.3 J	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	
<i>Sample ID:</i>	GW-110905-DOCK2-12-014	GW-110905-DOCK2-12-015	GW-110905-DOCK2-12-016	GW-092205-EA-1-001	GW-092205-EA-1-002	GW-092205-EA-1-003	
<i>Sample Date:</i>	11/9/2005	11/9/2005	11/9/2005	9/22/2005	9/22/2005	9/22/2005	
<i>Sample Depth:</i>	62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml	19.5 to 22.5 ft bgs	24.5 to 27.5 ft bgs	31.5 to 34.5 ft bgs	
<i>elev_MLLW</i>	-98.6 to -101.6	-103.6 to -106.6	-108.6 to -111.6	-1.5 to -4.5	-6.5 to -9.5	-13.5 to -16.5	
<i>elev_NGVD</i>	-104.9 to -107.9	-109.9 to -112.9	-114.9 to -117.9	-7.8 to -10.8	-12.8 to -15.8	-19.8 to -22.8	
<i>Parameters</i>	<i>Units CSI WG</i>						
<i>VOAs</i>							
1,1,2,2-Tetrachloroethane	µg/L 11	0.27 U	0.27 U	0.27 U	0.068 U	13.6 U	6.8 U
1,1,2-Trichloroethane	µg/L 42	0.2 U	0.2 U	0.2 U	0.121 J	18.8 U	9.39 U
1,1-Dichloroethene	µg/L 3.2	0.30 U	0.30 U	0.30 U	0.177 U	35.4 U	17.7 U
Carbon tetrachloride	µg/L 4.4	0.10 U	0.10 U	0.10 U	0.137 U	27.4 U	13.7 U
Chloroform (Trichloromethane)	µg/L 470	0.16 U	0.16 U	0.16 U	0.251 J	36.2 U	28.7 J
cis-1,2-Dichloroethene	µg/L 16.00	0.16 U	0.16 U	0.16 U	1.89	375	2170
Methylene chloride	µg/L 1600	0.35 U	0.35 U	0.35 U	0.155 U	31 U	15.5 U
Tetrachloroethene	µg/L 8.85	0.15 U	0.15 U	0.15 U	1.01	5250	14.4 U
trans-1,2-Dichloroethene	µg/L 10000	0.19 U	0.19 U	0.19 U	6.4	29 U	23.2 J
Trichloroethene	µg/L 81	0.16 U	0.16 U	0.16 U	6.09	9690	15.4 J
Vinyl chloride	µg/L 2.4	0.23 U	0.23 U	0.23 U	4.4	78.6 J	3040

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>
<i>Sample ID:</i>	GW-092205-EA-1-004	GW-092305-EA-1-005	GW-092305-EA-1-006	GW-092305-EA-1-007	GW-092305-EA-1-008	GW-092605-EA-1-009	GW-092605-EA-1-010
<i>Sample Date:</i>	9/22/2005	9/23/2005	9/23/2005	9/23/2005	9/23/2005	9/26/2005	9/26/2005
<i>Sample Depth:</i>	36.5 to 39.5 ft bgs	41.5 to 44.5 ft bgs	46.5 to 49.5 ft bgs	51.5 to 54.5 ft bgs	56.5 to 59.5 ft bgs	61.5 to 64.5 ft bgs	66.5 to 69.5 ft bgs
<i>elev_MLLW</i>	-18.5 to -21.5	-23.5 to -26.5	-28.5 to -31.5	-33.5 to -36.5	-38.5 to -41.5	-43.5 to -46.5	-48.5 to -51.5
<i>elev_NGVD</i>	-24.8 to -27.8	-29.8 to -32.8	-34.8 to -37.8	-39.8 to -42.8	-44.8 to -47.8	-49.8 to -52.8	-54.8 to -57.8

Parameters *Units* *CSI* *WG*

VOAs

1,1,2-Tetrachloroethane	µg/L	11	13.6 U	6.8 U	68 U	13.6 U	0.68 U	0.02 U	2 U
1,1,2-Trichloroethane	µg/L	42	18.8 U	9.39 U	93.9 U	18.8 U	0.939 U	0.09 U	9 U
1,1-Dichloroethene	µg/L	3.2	41.3 J	30.9 J	177 U	44.4 J	1.77 U	0.354 J	43.9 J
Carbon tetrachloride	µg/L	4.4	27.4 U	13.7 U	137 U	27.4 U	1.37 U	0.15 U	15 U
Chloroform (Trichloromethane)	µg/L	470	36.2 U	23.1 J	181 U	36.2 U	1.81 U	17.2	4 U
cis-1,2-Dichloroethene	µg/L	16.00	23000	18200	2390	2560	382	110	19000
Methylene chloride	µg/L	1600	31 U	15.5 U	155 U	31 U	1.55 U	0.09 U	9 U
Tetrachloroethene	µg/L	8.85	502	1680	9370	246	1.44 U	19.6	3 U
trans-1,2-Dichloroethene	µg/L	10000	40 J	27.1 J	145 U	29 U	1.45 U	0.565 J	100
Trichloroethene	µg/L	81	582	3600	20100	7840	4.2 J	82.7	4 U
Vinyl chloride	µg/L	2.4	2970	1770	2660	1070	403	46.6	6560

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>
<i>Sample ID:</i>	GW-092705-EA-1-011	GW-092705-EA-1-012	GW-092705-EA-1-013	GW-092705-EA-1-014	GW-092805-EA-1-015	GW-092805-EA-1-016	GW-092805-EA-1-017
<i>Sample Date:</i>	9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/28/2005	9/28/2005	9/28/2005
<i>Sample Depth:</i>	71.5 to 74.5 ft bgs	76.5 to 79.5 ft bgs	81.5 to 84.5 ft bgs	86.5 to 89.5 ft bgs	91.5 to 94.5 ft bgs	96.5 to 99.5 ft bgs	101.5 to 104.5 ft bgs
<i>elev_MLLW</i>	-53.5 to -56.5	-58.5 to -61.5	-63.5 to -66.5	-68.5 to -71.5	-73.5 to -76.5	-78.5 to -81.5	-83.5 to -86.5
<i>elev_NGVD</i>	-59.8 to -62.8	-64.8 to -67.8	-69.8 to -72.8	-74.8 to -77.8	-79.8 to -82.8	-84.8 to -87.8	-89.8 to -92.8

Parameters *Units* *CSI* *WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.2 U	0.2 U	0.4 U	0.04 U	31.2 J	0.1 U	0.2 U
1,1,2-Trichloroethane	µg/L	42	0.9 U	0.9 U	1.8 U	0.18 U	115 J	0.45 U	0.9 U
1,1-Dichloroethene	µg/L	3.2	0.5 U	0.5 U	6.06 J	2.17	321	1.78 J	3.54 J
Carbon tetrachloride	µg/L	4.4	1.5 U	1.5 U	3 U	0.3 U	41 J	0.75 U	1.5 U
Chloroform (Trichloromethane)	µg/L	470	0.4 U	0.4 U	0.8 U	0.08 U	49.2 J	0.2 U	0.4 U
cis-1,2-Dichloroethene	µg/L	16.00	43.8	39.7	963	8.48	24300	112	49.7
Methylene chloride	µg/L	1600	0.9 U	0.9 U	1.8 U	0.18 U	4.5 U	0.45 U	0.9 U
Tetrachloroethene	µg/L	8.85	0.3 U	0.3 U	0.6 U	0.06 U	2880	60.6	693
trans-1,2-Dichloroethene	µg/L	10000	2.45 J	4.81 J	8.18 J	0.272 J	62.9	0.905 J	23.4
Trichloroethene	µg/L	81	4.93 J	5.16 J	76.7	3.46	48900	515	1250
Vinyl chloride	µg/L	2.4	2130	2800	2220	107	41600	210	84.8

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	EA-1		EA-1		EA-1		EA-1		EA-1		EA-1			
<i>Sample ID:</i>	GW-092805-EA-1-018		GW-100305-EA-1-019		GW-100305-EA-1-020		GW-100405-EA-1-021		GW-100405-EA-1-022		GW-100405-EA-1-023		GW-100505-EA-1-024	
<i>Sample Date:</i>	9/28/2005		10/3/2005		10/3/2005		10/4/2005		10/4/2005		10/4/2005		10/5/2005	
<i>Sample Depth:</i>	106.5 to 109.5 ft bgs		111.5 to 114.5 ft bgs		116.5 to 119.5 ft bgs		121.5 to 124.5 ft bgs		126.5 to 129.5 ft bgs		126.5 to 129.5 ft bgs		131.5 to 134.5 ft bgs	
<i>elev_MLLW</i>	-88.5 to -91.5		-93.5 to -96.5		-98.5 to -101.5		-103.5 to -106.5		-108.5 to -111.5		-108.5 to -111.5		-113.5 to -116.5	
<i>elev_NGVD</i>	-94.8 to -97.8		-99.8 to -102.8		-104.8 to -107.8		-109.8 to -112.8		-114.8 to -117.8		-114.8 to -117.8		-119.8 to -122.8	
<i>Parameters</i>	<i>Units CSI WG</i>													
VOAs														
1,1,2,2-Tetrachloroethane	µg/L	11	1 U	0.2 U	0.02 U	R	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
1,1,2-Trichloroethane	µg/L	42	4.5 U	1.93 J	0.685 J	1.38 J	0.146 J	0.145 J	0.145 J	0.145 J	0.145 J	0.145 J	0.045 U	
1,1-Dichloroethene	µg/L	3.2	6.7 J	6.64 J	0.49 J	0.566 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	
Carbon tetrachloride	µg/L	4.4	7.5 U	1.5 U	0.15 U	R	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	
Chloroform (Trichloromethane)	µg/L	470	2 U	0.4 U	0.04 UJ	0.08 UJ	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 UJ	
cis-1,2-Dichloroethene	µg/L	16.00	28.7 J	180	20.7 J	86.4 J	0.233 J	0.208 J	0.208 J	0.208 J	0.208 J	0.208 J	0.015 UJ	
Methylene chloride	µg/L	1600	4.5 U	0.9 U	0.09 UJ	0.18 UJ	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 UJ	0.045 UJ	
Tetrachloroethene	µg/L	8.85	2580	88.4	44.5	79.6	3.14	2.95	2.95	2.95	2.95	2.95	0.0585 J	
trans-1,2-Dichloroethene	µg/L	10000	24.1 J	5.03 J	0.766 J	0.262 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 UJ	
Trichloroethene	µg/L	81	11000	1200	176	160	4.61	4.58	4.58	4.58	4.58	4.58	0.0625 J	
Vinyl chloride	µg/L	2.4	2.5 U	11.2	1.43 J	1.34 J	0.0845 J	0.0955 J	0.0955 J	0.0955 J	0.0955 J	0.0955 J	0.025 UJ	

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	
<i>Sample ID:</i>	GW-100505-EA-1-025	GW-100605-EA-1-026	GW-100605-EA-1-027	GW-100705-EA-1-028	GW-101005-EA-2-001	GW-101005-EA-2-002	GW-101005-EA-2-003	
<i>Sample Date:</i>	10/5/2005	10/6/2005	10/6/2005	10/7/2005	10/10/2005	10/10/2005	10/10/2005	
<i>Sample Depth:</i>	136.5 to 139.5 ft bgs	141.5 to 144.5 ft bgs	146.5 to 149.5 ft bgs	151.5 to 154.5 ft bgs	15 to 18 ft bgs	20 to 23 ft bgs	25 to 28 ft bgs	
<i>elev_MLLW</i>	-118.5 to -121.5	-123.5 to -126.5	-128.5 to -131.5	-133.5 to -136.5	3 to 0	-2 to -5	-7 to -10	
<i>elev_NGVD</i>	-124.8 to -127.8	-129.8 to -132.8	-134.8 to -137.8	-139.8 to -142.8	-3.3 to -6.3	-8.3 to -11.3	-13.3 to -16.3	
<i>Parameters</i>	<i>Units CSI WG</i>							
VOAs								
1,1,2,2-Tetrachloroethane	µg/L 11	0.01 U	0.01 U	0.01 U	0.01 U	2 UJ	0.02 UJ	0.2 UJ
1,1,2-Trichloroethane	µg/L 42	0.045 U	0.045 U	0.045 U	0.045 U	120 J	3.05 J	52.8 J
1,1-Dichloroethene	µg/L 3.2	0.025 U	0.025 UJ	0.025 U	0.025 U	74 J	0.806 J	8.45 J
Carbon tetrachloride	µg/L 4.4	0.075 U	0.075 U	0.075 U	0.075 U	15 UJ	0.15 UJ	1.5 UJ
Chloroform (Trichloromethane)	µg/L 470	0.02 U	0.02 UJ	0.02 U	0.0695 J	4 UJ	0.04 UJ	0.4 UJ
cis-1,2-Dichloroethene	µg/L 16.00	0.015 U	0.015 UJ	0.015 U	0.015 U	47000 J	550 J	480 J
Methylene chloride	µg/L 1600	0.045 U	0.045 UJ	0.045 U	0.045 U	9 UJ	0.09 UJ	0.9 UJ
Tetrachloroethene	µg/L 8.85	0.098 J	0.015 U	0.015 U	0.0715 J	10100 J	349 J	5650 J
trans-1,2-Dichloroethene	µg/L 10000	0.02 U	0.02 UJ	0.02 U	0.02 U	398 J	2.92 J	8.52 J
Trichloroethene	µg/L 81	0.23 J	0.0865 J	0.02 U	0.157 J	935 J	40.4 J	3870 J
Vinyl chloride	µg/L 2.4	0.025 U	0.025 UJ	0.025 U	0.025 U	169000 J	2830 J	594 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>
<i>Sample ID:</i>	<i>GW-101105-EA-2-004</i>	<i>GW-101105-EA-2-005</i>	<i>GW-101105-EA-2-006</i>	<i>GW-101105-EA-2-007</i>	<i>GW-101105-EA-2-008</i>	<i>GW-101205-EA-2-009</i>	<i>GW-101205-EA-2-010</i>
<i>Sample Date:</i>	<i>10/11/2005</i>	<i>10/11/2005</i>	<i>10/11/2005</i>	<i>10/11/2005</i>	<i>10/11/2005</i>	<i>10/12/2005</i>	<i>10/12/2005</i>
<i>Sample Depth:</i>	<i>30 to 33 ft bgs</i>	<i>35 to 38 ft bgs</i>	<i>40 to 43 ft bgs</i>	<i>45 to 48 ft bgs</i>	<i>50 to 53 ft bgs</i>	<i>55 to 58 ft bgs</i>	<i>60 to 63 ft bgs</i>
<i>elev_MLLW</i>	<i>-12 to -15</i>	<i>-17 to -20</i>	<i>-22 to -25</i>	<i>-27 to -30</i>	<i>-32 to -35</i>	<i>-37 to -40</i>	<i>-42 to -45</i>
<i>elev_NGVD</i>	<i>-18.3 to -21.3</i>	<i>-23.3 to -26.3</i>	<i>-28.3 to -31.3</i>	<i>-33.3 to -36.3</i>	<i>-38.3 to -41.3</i>	<i>-43.3 to -46.3</i>	<i>-48.3 to -51.3</i>

Parameters *Units* *CSI* *WG*

VOAs									
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.2 U	0.1 U	1 U	0.4 U	0.1 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.167 J	0.9 U	0.45 U	4.5 U	1.8 U	0.45 U
1,1-Dichloroethene	µg/L	3.2	0.166 J	0.204 J	18.2	4.84 J	59.4	62.3	7.92
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	1.5 U	0.75 U	7.5 U	3 U	0.75 U
Chloroform (Trichloromethane)	µg/L	470	0.123 J	0.02 U	0.4 U	0.2 U	2 U	0.8 U	0.2 U
cis-1,2-Dichloroethene	µg/L	16.00	23.4	14.4	7530	1360	14900	9820	2470
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.9 U	0.45 U	4.5 U	1.8 U	0.45 U
Tetrachloroethene	µg/L	8.85	105	7.9	20	40.2	1.5 U	74.5	5.23
trans-1,2-Dichloroethene	µg/L	10000	0.665	3.55	17.2	15.4	57.6	32.5	2.98 J
Trichloroethene	µg/L	81	11.4	5.63	9.95 J	10.5	35.6 J	84.9	26.8
Vinyl chloride	µg/L	2.4	116	108	1710	190	83.4	45	39.7

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	
<i>Sample ID:</i>		<i>GW-101205-EA-2-011</i>	<i>GW-101205-EA-2-012</i>	<i>GW-101305-EA-2-013</i>	<i>GW-101305-EA-2-014</i>	<i>GW-101305-EA-2-015</i>	<i>GW-101405-EA-2-016</i>	<i>GW-101405-EA-2-017</i>	
<i>Sample Date:</i>		<i>10/12/2005</i>	<i>10/12/2005</i>	<i>10/13/2005</i>	<i>10/13/2005</i>	<i>10/13/2005</i>	<i>10/14/2005</i>	<i>10/14/2005</i>	
<i>Sample Depth:</i>		<i>65 to 68 ft bgs</i>	<i>70 to 73 ft bgs</i>	<i>75 to 78 ft bgs</i>	<i>80 to 83 ft bgs</i>	<i>85 to 88 ft bgs</i>	<i>90 to 93 ft bgs</i>	<i>95 to 98 ft bgs</i>	
<i>elev_MLLW</i>		<i>-47 to -50</i>	<i>-52 to -55</i>	<i>-57 to -60</i>	<i>-62 to -65</i>	<i>-67 to -70</i>	<i>-72 to -75</i>	<i>-77 to -80</i>	
<i>elev_NGVD</i>		<i>-53.3 to -56.3</i>	<i>-58.3 to -61.3</i>	<i>-63.3 to -66.3</i>	<i>-68.3 to -71.3</i>	<i>-73.3 to -76.3</i>	<i>-78.3 to -81.3</i>	<i>-83.3 to -86.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
VOAs									
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.2 U	0.01 U	0.01 U	R	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.9 U	0.58	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.385 J	0.262 J	0.5 U	0.79	0.025 U	0.025 U	0.025 UJ
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	1.5 U	0.075 U	0.075 U	R	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.4 U	5.55	0.02 U	0.02 U	0.02 UJ
cis-1,2-Dichloroethene	µg/L	16.00	164	126	331	379	1.21	3.33	23.8 J
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.9 U	0.045 U	0.045 U	0.045 U	0.045 UJ
Tetrachloroethene	µg/L	8.85	0.153 J	0.015 U	0.3 U	50.4	0.24 J	2.31 J	2.4
trans-1,2-Dichloroethene	µg/L	10000	0.278 J	0.165 J	0.4 U	0.757	0.02 U	0.02 U	0.02 UJ
Trichloroethene	µg/L	81	0.02 U	0.02 U	0.4 U	8.02	0.02 U	0.195 J	0.307 J
Vinyl chloride	µg/L	2.4	3.42	7.7	3180	45.7	1.2	0.481	2.01 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	
<i>Sample ID:</i>		<i>GW-101705-EA-2-018</i>	<i>GW-101705-EA-2-019</i>	<i>GW-101705-EA-2-020</i>	<i>GW-101805-EA-2-021</i>	<i>GW-101805-EA-2-022</i>	<i>GW-101805-EA-2-023</i>	<i>GW-101905-EA-2-024</i>	
<i>Sample Date:</i>		<i>10/17/2005</i>	<i>10/17/2005</i>	<i>10/17/2005</i>	<i>10/18/2005</i>	<i>10/18/2005</i>	<i>10/18/2005</i>	<i>10/19/2005</i>	
<i>Sample Depth:</i>		<i>100 to 103 ft bgs</i>	<i>105 to 108 ft bgs</i>	<i>110 to 113 ft bgs</i>	<i>115 to 118 ft bgs</i>	<i>115 to 118 ft bgs</i>	<i>120 to 123 ft bgs</i>	<i>125 to 128 ft bgs</i>	
<i>elev_MLLW</i>		<i>-82 to -85</i>	<i>-87 to -90</i>	<i>-92 to -95</i>	<i>-97 to -100</i>	<i>-97 to -100</i>	<i>-102 to -105</i>	<i>-107 to -110</i>	
<i>elev_NGVD</i>		<i>-88.3 to -91.3</i>	<i>-93.3 to -96.3</i>	<i>-98.3 to -101.3</i>	<i>-103.3 to -106.3</i>	<i>-103.3 to -106.3</i>	<i>-108.3 to -111.3</i>	<i>-113.3 to -116.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>VOAs</i>									
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.527	0.01 U	0.352 J	0.01 U	0.34 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.523	0.045 U	0.217 J	0.219 J	0.045 U	0.314 U
1,1-Dichloroethene	µg/L	3.2	0.894 J	0.291 J	0.025 UJ	0.025 U	0.025 UJ	0.025 UJ	0.298 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.485 U
Chloroform (Trichloromethane)	µg/L	470	0.02 UJ	2.8 J	0.02 UJ	0.02 U	0.02 UJ	0.02 UJ	0.359 U
cis-1,2-Dichloroethene	µg/L	16.00	18.3 J	242 J	2.04 J	12.9	12.6 J	0.444 J	1.04 J
Methylene chloride	µg/L	1600	0.045 UJ	0.045 UJ	0.045 UJ	0.045 U	0.045 UJ	0.045 UJ	0.376 U
Tetrachloroethene	µg/L	8.85	0.976	31.4	0.015 U	12.1	12.8	0.015 U	0.289 U
trans-1,2-Dichloroethene	µg/L	10000	1.22 J	0.451 J	0.02 UJ	0.02 U	0.02 UJ	0.02 UJ	0.292 U
Trichloroethene	µg/L	81	50.9	7.86	0.077 J	0.658	0.692	0.02 U	0.321 U
Vinyl chloride	µg/L	2.4	2.4 J	19.8 J	0.337 J	1.97	1.92 J	0.025 UJ	0.302 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-3</i>	<i>EA-3</i>	
<i>Sample ID:</i>		<i>GW-101905-EA-2-025</i>	<i>GW-102005-EA-2-026</i>	<i>GW-102005-EA-2-027</i>	<i>GW-102005-EA-2-028</i>	<i>GW-102105-EA-2-029</i>	<i>GW-102405-EA-3-001</i>	<i>GW-102505-EA-3-002</i>	
<i>Sample Date:</i>		<i>10/19/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/21/2005</i>	<i>10/24/2005</i>	<i>10/25/2005</i>	
<i>Sample Depth:</i>		<i>130 to 133 ft bgs</i>	<i>135 to 138 ft bgs</i>	<i>140 to 143 ft bgs</i>	<i>145 to 148 ft bgs</i>	<i>150 to 153 ft bgs</i>	<i>12 to 15 ft bgs</i>	<i>20 to 23 ft bgs</i>	
<i>elev_MLLW</i>		<i>-112 to -115</i>	<i>-117 to -120</i>	<i>-122 to -125</i>	<i>-127 to -130</i>	<i>-132 to -135</i>	<i>6 to 3</i>	<i>-2 to -5</i>	
<i>elev_NGVD</i>		<i>-118.3 to -121.3</i>	<i>-123.3 to -126.3</i>	<i>-128.3 to -131.3</i>	<i>-133.3 to -136.3</i>	<i>-138.3 to -141.3</i>	<i>-0.3 to -3.3</i>	<i>-8.3 to -11.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>VOAs</i>									
1,1,2,2-Tetrachloroethane	µg/L	11	0.68 U	0.068 U	0.068 U	0.068 U	0.068 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	1.26 J	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.23 J	10
cis-1,2-Dichloroethene	µg/L	16.00	312	0.992 J	2.64	0.0433 U	0.284 J	2.2	4.2
Methylene chloride	µg/L	1600	0.752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	135	16.9	30.3	0.104 J	4.53	0.15 U	2.7
trans-1,2-Dichloroethene	µg/L	10000	0.584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	8.04 J	1.07	1.46	0.0641 U	0.632 J	0.75 J	0.16 U
Vinyl chloride	µg/L	2.4	30.3	0.672 J	1.37	0.0604 U	0.0604 U	5.1	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>
<i>Sample ID:</i>		<i>GW-102505-EA-3-003</i>	<i>GW-102505-EA-3-004</i>	<i>GW-102505-EA-3-005</i>	<i>GW-102505-EA-3-006</i>	<i>GW-102605-EA-3-007</i>	<i>GW-102605-EA-3-008</i>	<i>GW-102605-EA-3-009</i>
<i>Sample Date:</i>		<i>10/25/2005</i>	<i>10/25/2005</i>	<i>10/25/2005</i>	<i>10/25/2005</i>	<i>10/26/2005</i>	<i>10/26/2005</i>	<i>10/26/2005</i>
<i>Sample Depth:</i>		<i>25 to 28 ft bgs</i>	<i>30 to 33 ft bgs</i>	<i>35 to 38 ft bgs</i>	<i>40 to 43 ft bgs</i>	<i>45 to 48 ft bgs</i>	<i>50 to 53 ft bgs</i>	<i>55 to 58 ft bgs</i>
<i>elev_MLLW</i>		<i>-7 to -10</i>	<i>-12 to -15</i>	<i>-17 to -20</i>	<i>-22 to -25</i>	<i>-27 to -30</i>	<i>-32 to -35</i>	<i>-37 to -40</i>
<i>elev_NGVD</i>		<i>-13.3 to -16.3</i>	<i>-18.3 to -21.3</i>	<i>-23.3 to -26.3</i>	<i>-28.3 to -31.3</i>	<i>-33.3 to -36.3</i>	<i>-38.3 to -41.3</i>	<i>-43.3 to -46.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>VOAs</i>								
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	14	0.16 U	0.16 U	0.16 U	0.68 J	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	5.6	13	5.2	0.16 U	270	3.6
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	2.6	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.47 J	0.16 U	0.16 U	0.16 U	2.4	0.16 U
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	21	0.23 U	44	0.23 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>
<i>Sample ID:</i>	<i>GW-102605-EA-3-010</i>	<i>GW-102705-EA-3-011</i>	<i>GW-102705-EA-3-012</i>	<i>GW-102705-EA-3-013</i>	<i>GW-102705-EA-3-014</i>	<i>GW-102705-EA-3-015</i>	<i>GW-102805-EA-3-016</i>
<i>Sample Date:</i>	<i>10/26/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/28/2005</i>
<i>Sample Depth:</i>	<i>60 to 63 ft bgs</i>	<i>65 to 68 ft bgs</i>	<i>70 to 73 ft bgs</i>	<i>75 to 78 ft bgs</i>	<i>80 to 83 ft bgs</i>	<i>85 to 88 ft bgs</i>	<i>90 to 93 ft bgs</i>
<i>elev_MLLW</i>	<i>-42 to -45</i>	<i>-47 to -50</i>	<i>-52 to -55</i>	<i>-57 to -60</i>	<i>-62 to -65</i>	<i>-67 to -70</i>	<i>-72 to -75</i>
<i>elev_NGVD</i>	<i>-48.3 to -51.3</i>	<i>-53.3 to -56.3</i>	<i>-58.3 to -61.3</i>	<i>-63.3 to -66.3</i>	<i>-68.3 to -71.3</i>	<i>-73.3 to -76.3</i>	<i>-78.3 to -81.3</i>
<i>Parameters</i>	<i>Units CSI WG</i>						
<i>VOAs</i>							
1,1,2,2-Tetrachloroethane	µg/L 11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L 42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L 3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L 4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L 470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L 16.00	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L 1600	0.35 U	0.35 U	0.35 U	0.35 U	16	7.6
Tetrachloroethene	µg/L 8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L 10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L 81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L 2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>
<i>Sample ID:</i>	<i>GW-102805-EA-3-017</i>	<i>GW-102805-EA-3-018</i>	<i>GW-103105-EA-3-019</i>	<i>GW-103105-EA-3-020</i>	<i>GW-110105-DC-EA-3-021</i>	<i>GW-110105-DC-EA-3-022</i>	<i>GW-110205-EA-3-023</i>
<i>Sample Date:</i>	<i>10/28/2005</i>	<i>10/28/2005</i>	<i>10/31/2005</i>	<i>10/31/2005</i>	<i>11/1/2005</i>	<i>11/1/2005</i>	<i>11/2/2005</i>
<i>Sample Depth:</i>	<i>95 to 98 ft bgs</i>	<i>95 to 98 ft bgs</i>	<i>100 to 103 ft bgs</i>	<i>105 to 108 ft bgs</i>	<i>110 to 113 ft bgs</i>	<i>115 to 118 ft bgs</i>	<i>120 to 123 ft bgs</i>
<i>elev_MLLW</i>	<i>-77 to -80</i>	<i>-77 to -80</i>	<i>-82 to -85</i>	<i>-87 to -90</i>	<i>-92 to -95</i>	<i>-97 to -100</i>	<i>-102 to -105</i>
<i>elev_NGVD</i>	<i>-83.3 to -86.3</i>	<i>-83.3 to -86.3</i>	<i>-88.3 to -91.3</i>	<i>-93.3 to -96.3</i>	<i>-98.3 to -101.3</i>	<i>-103.3 to -106.3</i>	<i>-108.3 to -111.3</i>
<i>Parameters</i>	<i>Units CSI WG</i>						
VOAs							
1,1,2,2-Tetrachloroethane	µg/L 11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L 42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L 3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L 4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L 470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L 16.00	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L 1600	6.8	6.0 J	9.9 J	2.7 J	0.35 U	0.35 U
Tetrachloroethene	µg/L 8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L 10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L 81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L 2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>
<i>Sample ID:</i>	GW-110205-EA-3-024	GW-110305-EA-3-025	GW-110305-EA-3-026	GW-110305-EA-3-027	GW-110405-EA-3-028	GW-110405-EA-3-029	GW-110705-EA-3-030
<i>Sample Date:</i>	11/2/2005	11/3/2005	11/3/2005	11/3/2005	11/4/2005	11/4/2005	11/7/2005
<i>Sample Depth:</i>	125 to 128 ft bgs	130 to 133 ft bgs	135 to 138 ft bgs	140 to 143 ft bgs	145 to 148 ft bgs	150 to 153 ft bgs	155 to 158 ft bgs
<i>elev_MLLW</i>	-107 to -110	-112 to -115	-117 to -120	-122 to -125	-127 to -130	-132 to -135	-137 to -140
<i>elev_NGVD</i>	-113.3 to -116.3	-118.3 to -121.3	-123.3 to -126.3	-128.3 to -131.3	-133.3 to -136.3	-138.3 to -141.3	-143.3 to -146.3
<i>Parameters</i>	<i>Units CSI WG</i>						
<i>VOAs</i>							
1,1,2,2-Tetrachloroethane	µg/L 11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L 42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L 3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L 4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L 470	0.16 U	0.16 U	17	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L 16.00	0.16 U	0.16 U	0.16 U	0.16 U	2.3 J	0.16 U
Methylene chloride	µg/L 1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L 8.85	0.15 U	0.15 U	0.91 J	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L 10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L 81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L 2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>ESI-1-1</i>	<i>ESI-1-1</i>	<i>ESI-1-4</i>	<i>ESI-1-4</i>	<i>ESI-1-4</i>	<i>ESI-1-4</i>	
<i>Sample ID:</i>		<i>GGW-07842-JP-111102-001</i>	<i>GGW-07842-JP-111202-002</i>	<i>GGW-07842-JP-111202-003</i>	<i>GGW-07842-JP-111202-004</i>	<i>GGW-07842-JP-111202-005</i>	<i>GGW-07842-JP-111202-006</i>	
<i>Sample Date:</i>		<i>11/11/2002</i>	<i>11/12/2002</i>	<i>11/12/2002</i>	<i>11/12/2002</i>	<i>11/12/2002</i>	<i>11/12/2002</i>	
<i>Sample Depth:</i>		<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>27 ft bgs</i>	<i>50 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>	
<i>elev_MLLW</i>		<i>-7.08</i>	<i>-32.08</i>	<i>-9.08</i>	<i>-32.08</i>	<i>-32.08</i>	<i>-82.08</i>	
<i>elev_NGVD</i>		<i>-13.4</i>	<i>-38.4</i>	<i>-15.4</i>	<i>-38.4</i>	<i>-38.4</i>	<i>-88.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	10 U	250 U	5 U	10 U	5 U	5 UJ
1,1,2-Trichloroethane	µg/L	42	10 U	250 U	5 U	10 U	5 U	5 UJ
1,1-Dichloroethene	µg/L	3.2	10 U	250 U	5 U	4.4 J	3.1 J	5 UJ
Carbon tetrachloride	µg/L	4.4	10 U	250 U	5 U	10 U	5 U	5 UJ
Chloroform (Trichloromethane)	µg/L	470	10 U	250 U	5 U	10 U	5 U	5 UJ
cis-1,2-Dichloroethene	µg/L	16.00	75	1200	68	400	440	11 J
Methylene chloride	µg/L	1600	10 U	250 U	5 U	10 U	5 U	3.8 J
Tetrachloroethene	µg/L	8.85	420	57 J	4.6 J	10 U	5 U	5 UJ
trans-1,2-Dichloroethene	µg/L	10000	10 U	250 U	5 U	7.1 J	6.1	5 UJ
Trichloroethene	µg/L	81	560	46 J	120	32	38	2.2 J
Vinyl chloride	µg/L	2.4	24	190 J	43	200	190	19 J

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>EXT-9</i>		<i>EXT-9</i>		<i>EXT-9-Deep</i>	<i>EXT-9-Int</i>
<i>Sample ID:</i>	<i>GW-071813-NH-MW-EXT-9-DEEP-14</i>		<i>GW-071813-NH-MW-EXT-9-DEEP-FD 1</i>		<i>GW-092713-MD-MW-ext-9-Deep</i>	<i>GW-092713-MD-MW-ext-9-Intermediate</i>
<i>Sample Date:</i>	<i>7/18/2013</i>		<i>7/18/2013</i>		<i>9/27/2013</i>	<i>9/27/2013</i>
<i>Sample Depth:</i>	<i>202 to 204 ft BGS</i>		<i>202 to 204 ft BGS</i>			
<i>elev_MLLW</i>	<i>-183.11 to -185.11</i>		<i>-183.11 to -185.11</i>			
<i>elev_NGVD</i>	<i>-189.4 to -191.4</i>		<i>-189.4 to -191.4</i>			
<i>Parameters</i>	<i>Units CSI WG</i>					
VOAs						
1,1,2,2-Tetrachloroethane	µg/L	11	3.3 J	7.0 J	0.50 U	500 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	1.3 U	0.50 U	500 U
1,1-Dichloroethene	µg/L	3.2	1.4 J	1.9 J	0.22 J	200 J
Carbon tetrachloride	µg/L	4.4	0.50 U	1.3 U	0.50 U	500 U
Chloroform (Trichloromethane)	µg/L	470	12 J	17 J	0.31 J	500 U
cis-1,2-Dichloroethene	µg/L	16.00	57 J	81 J	9.5	8600
Methylene chloride	µg/L	1600	2.0 U	5.0 U	2.0 U	2000 U
Tetrachloroethene	µg/L	8.85	85 J	220 J	20	6200
trans-1,2-Dichloroethene	µg/L	10000	3.2 J	4.9 J	0.48 J	200 J
Trichloroethene	µg/L	81	260 J	710 J	54	39000
Vinyl chloride	µg/L	2.4	1.1 J	1.4 J	0.37 J	80 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EXT-9-Shallow</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>
<i>Sample ID:</i>		<i>GW-092713-MD-MW-ext-9-Shallow</i>	<i>GW-062813-NH-F-1</i>	<i>GW-070113-NH-F2</i>	<i>GW-070113-NH-F3</i>	<i>GW-070113-NH-F4</i>	<i>GW-070213-NH-F-5</i>	<i>GW-070213-NH-F-FD1</i>
<i>Sample Date:</i>		<i>9/27/2013</i>	<i>6/28/2013</i>	<i>7/1/2013</i>	<i>7/1/2013</i>	<i>7/1/2013</i>	<i>7/2/2013</i>	<i>7/2/2013</i>
<i>Sample Depth:</i>			<i>57 to 59 ft BGS</i>	<i>67 to 69 ft BGS</i>	<i>77 to 79 ft BGS</i>	<i>87 to 89 ft BGS</i>	<i>97 to 99 ft BGS</i>	<i>97 to 99 ft BGS</i>
<i>elev_MLLW</i>			<i>-39.51 to -41.51</i>	<i>-49.51 to -51.51</i>	<i>-59.51 to -61.51</i>	<i>-69.51 to -71.51</i>	<i>-79.51 to -81.51</i>	<i>-79.51 to -81.51</i>
<i>elev_NGVD</i>			<i>-45.8 to -47.8</i>	<i>-55.8 to -57.8</i>	<i>-65.8 to -67.8</i>	<i>-75.8 to -77.8</i>	<i>-85.8 to -87.8</i>	<i>-85.8 to -87.8</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					<i>(Duplicate)</i>
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	360	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	880	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	3.2	330	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	250 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	24000	0.50 U	27	6.6	18	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	54000	2.6	1.8	0.99	2.6	0.13 J
Methylene chloride	µg/L	1600	5300	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	14000	0.31 J	13	2.4	2.0	0.50 U
trans-1,2-Dichloroethene	µg/L	10000	1800	0.14 J	0.090 J	0.50 U	0.13 J	0.50 U
Trichloroethene	µg/L	81	190000	1.1	1.8	0.33 J	0.74	0.50 U
Vinyl chloride	µg/L	2.4	12000	0.61	0.42 J	0.19 J	0.49 J	0.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	
<i>Sample ID:</i>	GW-070213-NH-F-6	GW-070213-NH-F-7	GW-070313-NH-F-8	GW-070313-NH-F-9	GW-070813-NH-MW-F-DEEP-10	GW-070813-NH-MW-F-DEEP-11	
<i>Sample Date:</i>	7/2/2013	7/2/2013	7/3/2013	7/3/2013	7/8/2013	7/8/2013	
<i>Sample Depth:</i>	107 to 109 ft BGS	117 to 119 ft BGS	127 to 129 ft BGS	137 to 139 ft BGS	147 to 149 ft BGS	157 to 159 ft BGS	
<i>elev_MLLW</i>	-89.51 to -91.51	-99.51 to -101.51	-109.51 to -111.51	-119.51 to -121.51	-129.51 to -131.51	-139.51 to -141.51	
<i>elev_NGVD</i>	-95.8 to -97.8	-105.8 to -107.8	-115.8 to -117.8	-125.8 to -127.8	-135.8 to -137.8	-145.8 to -147.8	
<i>Parameters</i>	<i>Units CSI WG</i>						
VOAs							
1,1,2,2-Tetrachloroethane	µg/L 11	0.50 U	0.50 U	5.0 U	13 U	2.5 U	0.50 U
1,1,2-Trichloroethane	µg/L 42	0.50 U	0.50 U	5.0 U	13 U	2.5 U	0.50 U
1,1-Dichloroethene	µg/L 3.2	0.50 U	0.50 U	5.0 U	13 U	2.5 U	0.43 J
Carbon tetrachloride	µg/L 4.4	0.50 U	0.50 U	5.0 U	13 U	2.5 U	0.50 U
Chloroform (Trichloromethane)	µg/L 470	0.50 U	0.23 J	5.0 U	13 U	11	0.50 U
cis-1,2-Dichloroethene	µg/L 16.00	0.27 J	2.4	6.7	39	17	0.78
Methylene chloride	µg/L 1600	2.0 U	2.0 U	1.4 J	3.5 J	10 U	2.0 U
Tetrachloroethene	µg/L 8.85	0.50 U	0.50 U	5.0 U	13 U	0.95 J	0.60
trans-1,2-Dichloroethene	µg/L 10000	0.50 U	0.10 J	5.0 U	13 U	2.5 U	0.50 U
Trichloroethene	µg/L 81	0.50 U	0.23 J	5.0 U	13 U	1.7 J	8.8
Vinyl chloride	µg/L 2.4	0.50 U	0.28 J	3600	9600	490	68

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	F-Deep	F-Deep	F-Deep	F-Int	F-Shallow-New	G
Sample ID:	GW-070813-NH-MW-F-DEEP-12	GW-070913-NH-MW-F-DEEP-13	GW-092613-NH-MW-F-D	GW-092613-NH-MW-F-I	GW-101113-MD-F-Shallow	GW-092513-NH-MW-G-D
Sample Date:	7/8/2013	7/9/2013	9/26/2013	9/26/2013	10/11/2013	9/25/2013
Sample Depth:	167 to 169 ft BGS	177 to 179 ft BGS				
elev_MLLW	-149.51 to -151.51	-159.51 to -161.51				
elev_NGVD	-155.8 to -157.8	-165.8 to -167.8				
Parameters	Units CSI WG					
VOAs						
1,1,2,2-Tetrachloroethane	µg/L 11	1.3 U	0.50 U	2.5 U	5.0 U	0.50 U
1,1,2-Trichloroethane	µg/L 42	1.3 U	0.19 J	2.5 U	5.0 U	0.50 U
1,1-Dichloroethene	µg/L 3.2	14	0.90	18	5.0 U	0.15 J
Carbon tetrachloride	µg/L 4.4	1.3 U	0.50 U	2.5 U	5.0 U	0.50 U
Chloroform (Trichloromethane)	µg/L 470	2.9	3.4	0.50 J	5.0 U	4.4
cis-1,2-Dichloroethene	µg/L 16.00	14	7.1 J	15	2.1 J	2.6
Methylene chloride	µg/L 1600	5.0 U	2.0 U	1.5 J	2.6 J	2.0 U
Tetrachloroethene	µg/L 8.85	110	1.6	180	5.0 U	0.58
trans-1,2-Dichloroethene	µg/L 10000	2.3	0.24 J	3.7	5.0 U	0.14 J
Trichloroethene	µg/L 81	840	8.7	1000	2.2 J	3.8
Vinyl chloride	µg/L 2.4	300	16 J	12	3300	0.35 J

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>G-Int</i>	<i>G-Int</i>	<i>GP-1</i>	<i>GP-1</i>	<i>GP-1</i>	<i>GP-2</i>
<i>Sample ID:</i>		<i>GW-092613-NH-MW-G-I</i>	<i>GW-092613-NH-FD1</i>	<i>GW-040104-CC-GP1-25-22</i>	<i>GW-040104-CC-GP1-50-23</i>	<i>GW-040104-CC-GP1-100-24</i>	<i>GW-032904-CC-GP2-25-13</i>
<i>Sample Date:</i>		<i>9/26/2013</i>	<i>9/26/2013</i>	<i>4/1/2004</i>	<i>4/1/2004</i>	<i>4/1/2004</i>	<i>3/29/2004</i>
<i>Sample Depth:</i>				<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>25 ft bgs</i>
<i>elev_MLLW</i>				<i>-7.08</i>	<i>-32.08</i>	<i>-82.08</i>	<i>-7.08</i>
<i>elev_NGVD</i>				<i>-13.4</i>	<i>-38.4</i>	<i>-88.4</i>	<i>-13.4</i>
<i>Parameters</i>	<i>Units</i>	<i>(Duplicate)</i>					
<i>CS I WG</i>							
VOAs							
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	3.2	0.60	0.50	3 U	3 U	3 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	3 U	3 U	3 U
Chloroform (Trichloromethane)	µg/L	470	3.7	3.5	5 U	5 U	5 U
cis-1,2-Dichloroethene	µg/L	16.00	95	97	5 U	5 U	5 U
Methylene chloride	µg/L	1600	19	19	5 U	5 U	5 U
Tetrachloroethene	µg/L	8.85	0.36 J	0.35 J	5 U	5 U	5 U
trans-1,2-Dichloroethene	µg/L	10000	7.3	7.0	5 U	5 U	5 U
Trichloroethene	µg/L	81	10	9.9	5 U	5 U	5 U
Vinyl chloride	µg/L	2.4	27	27	3 U	3 U	3 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>GP-2</i>		<i>GP-2</i>		<i>GP-3</i>		<i>GP-3</i>		<i>GP-3</i>		<i>GP-4</i>	
<i>Sample ID:</i>	<i>GW-033004-CC-GP2-50-14</i>		<i>GW-033004-CC-GP2-100-15</i>		<i>GW-032904-CC-GP3-25-10</i>		<i>GW-032904-CC-GP3-50-11</i>		<i>GW-032904-CC-GP3-100-12</i>		<i>GW-040604-CC-GP4-23-35</i>	
<i>Sample Date:</i>	<i>3/30/2004</i>		<i>3/30/2004</i>		<i>3/29/2004</i>		<i>3/29/2004</i>		<i>3/29/2004</i>		<i>4/6/2004</i>	
<i>Sample Depth:</i>	<i>50 ft bgs</i>		<i>100 ft bgs</i>		<i>25 ft bgs</i>		<i>50 ft bgs</i>		<i>100 ft bgs</i>		<i>23 ft bgs</i>	
<i>elev_MLLW</i>	<i>-32.08</i>		<i>-82.08</i>		<i>-7.08</i>		<i>-32.08</i>		<i>-82.08</i>		<i>-5.08</i>	
<i>elev_NGVD</i>	<i>-38.4</i>		<i>-88.4</i>		<i>-13.4</i>		<i>-38.4</i>		<i>-88.4</i>		<i>-11.4</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	42	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	3.2	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Carbon tetrachloride	µg/L	4.4	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Chloroform (Trichloromethane)	µg/L	470	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	µg/L	16.00	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	µg/L	1600	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	µg/L	8.85	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	µg/L	10000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	µg/L	81	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	µg/L	2.4	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>GP-4</i>	<i>GP-4</i>	<i>GP-4</i>	<i>GP-5</i>	<i>GP-5</i>	<i>GP-5</i>
<i>Sample ID:</i>		<i>GW-040604-CC-GP4-56-36</i>	<i>GW-040604-CC-DUP-04</i>	<i>GW-040604-CC-GP4-100-37</i>	<i>GW-040504-CC-GP5-25-32</i>	<i>GW-040504-CC-GP5-50-33</i>	<i>GW-040704-CC-GP5-100-38</i>
<i>Sample Date:</i>		<i>4/6/2004</i>	<i>4/6/2004</i>	<i>4/6/2004</i>	<i>4/5/2004</i>	<i>4/5/2004</i>	<i>4/7/2004</i>
<i>Sample Depth:</i>		<i>56 ft bgs</i>	<i>56 ft bgs</i>	<i>100 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>
<i>elev_MLLW</i>		<i>-38.08</i>	<i>-38.08</i>	<i>-82.08</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-82.08</i>
<i>elev_NGVD</i>		<i>-44.4</i>	<i>-44.4</i>	<i>-88.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-88.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
VOAs							
1,1,2,2-Tetrachloroethane	µg/L	11	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	42	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	3.2	3 U	3 U	3 U	3 U	3.7
Carbon tetrachloride	µg/L	4.4	3 U	3 U	3 U	3 U	3 U
Chloroform (Trichloromethane)	µg/L	470	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	µg/L	16.00	5 U	5 U	5 U	5 U	950 J
Methylene chloride	µg/L	1600	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	µg/L	8.85	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	µg/L	10000	5 U	5 U	5 U	5 U	20
Trichloroethene	µg/L	81	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	µg/L	2.4	3 U	3 U	3 U	3 U	12000

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>GP-6</i>	<i>GP-6</i>	<i>GP-6</i>	<i>GP-7</i>	<i>GP-7</i>	<i>GP-7</i>
<i>Sample ID:</i>		<i>GW-040204-CC-GP6-25-30</i>	<i>GW-040504-CC-GP6-50-34</i>	<i>GW-040704-CC-GP6-100-39</i>	<i>GW-033004-CC-GP7-25-16</i>	<i>GW-033004-CC-DUP-02</i>	<i>GW-033004-CC-GP7-50-17</i>
<i>Sample Date:</i>		<i>4/2/2004</i>	<i>4/5/2004</i>	<i>4/7/2004</i>	<i>3/30/2004</i>	<i>3/30/2004</i>	<i>3/30/2004</i>
<i>Sample Depth:</i>		<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>25 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>
<i>elev_MLLW</i>		<i>-7.08</i>	<i>-32.08</i>	<i>-82.08</i>	<i>-7.08</i>	<i>-7.08</i>	<i>-32.08</i>
<i>elev_NGVD</i>		<i>-13.4</i>	<i>-38.4</i>	<i>-88.4</i>	<i>-13.4</i>	<i>-13.4</i>	<i>-38.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			<i>(Duplicate)</i>	
VOAs							
1,1,2,2-Tetrachloroethane	µg/L	11	5 U	5 U	5 UJ	5 U	5 U
1,1,2-Trichloroethane	µg/L	42	5 U	5 U	5 UJ	5 U	5 U
1,1-Dichloroethene	µg/L	3.2	3 U	3 U	3 U	3 U	3 U
Carbon tetrachloride	µg/L	4.4	3 U	3 U	3 UJ	3 U	3 U
Chloroform (Trichloromethane)	µg/L	470	5 U	5 U	5 UJ	5 U	5 U
cis-1,2-Dichloroethene	µg/L	16.00	5 U	5 U	5 UJ	5 U	5 U
Methylene chloride	µg/L	1600	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	µg/L	8.85	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	µg/L	10000	5 U	5 U	5 U	5 U	5 U
Trichloroethene	µg/L	81	5 U	5 U	5 UJ	5 U	5 U
Vinyl chloride	µg/L	2.4	3 U	3 U	10 J	3 U	3 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>GP-7</i>	<i>GP-8</i>	<i>GP-8</i>	<i>GP-8</i>	<i>GP-9</i>	<i>GP-9</i>
<i>Sample ID:</i>	<i>GW-033104-CC-GP7-100-18</i>	<i>GW-033104-CC-GP8-25-19</i>	<i>GW-033104-CC-GP8-50-20</i>	<i>GW-033104-CC-GP8-100-21</i>	<i>GW-032404-CC-GP9-25-01</i>	<i>GW-032404-CC-GP9-50-02</i>
<i>Sample Date:</i>	<i>3/31/2004</i>	<i>3/31/2004</i>	<i>3/31/2004</i>	<i>3/31/2004</i>	<i>3/24/2004</i>	<i>3/24/2004</i>
<i>Sample Depth:</i>	<i>100 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>
<i>elev_MLLW</i>	<i>-82.08</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-82.08</i>	<i>-7.08</i>	<i>-32.08</i>
<i>elev_NGVD</i>	<i>-88.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-88.4</i>	<i>-13.4</i>	<i>-38.4</i>
<i>Parameters</i>	<i>Units CSI WG</i>					
<i>VOAs</i>						
1,1,2,2-Tetrachloroethane	µg/L 11	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L 42	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L 3.2	3 U	3 U	3 U	3 U	3 U
Carbon tetrachloride	µg/L 4.4	3 U	3 U	3 U	3 U	3 U
Chloroform (Trichloromethane)	µg/L 470	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	µg/L 16.00	5 U	5 U	5 U	5 U	5 U
Methylene chloride	µg/L 1600	5 U	5 U	5 U	5 UJ	5 UJ
Tetrachloroethene	µg/L 8.85	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	µg/L 10000	5 U	5 U	5 U	5 U	5 U
Trichloroethene	µg/L 81	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	µg/L 2.4	3 U	3 UJ	3 UJ	3 U	1.6 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>GP-9</i>	<i>GP-10</i>	<i>GP-10</i>	<i>GP-10</i>	<i>GP-11</i>	<i>GP-11</i>
<i>Sample ID:</i>	<i>GW-032504-CC-GP9-100-03</i>	<i>GW-032604-CC-GP10-25-07</i>	<i>GW-032604-CC-GP10-46-08</i>	<i>GW-032604-CC-GP10-100-09</i>	<i>GW-032504-CC-GP11-25-04</i>	<i>GW-032504-CC-DUP01</i>
<i>Sample Date:</i>	<i>3/25/2004</i>	<i>3/26/2004</i>	<i>3/26/2004</i>	<i>3/26/2004</i>	<i>3/25/2004</i>	<i>3/25/2004</i>
<i>Sample Depth:</i>	<i>100 ft bgs</i>	<i>25 ft bgs</i>	<i>46 ft bgs</i>	<i>100 ft bgs</i>	<i>25 ft bgs</i>	<i>25 ft bgs</i>
<i>elev_MLLW</i>	<i>-82.08</i>	<i>-7.08</i>	<i>-28.08</i>	<i>-82.08</i>	<i>-7.08</i>	<i>-7.08</i>
<i>elev_NGVD</i>	<i>-88.4</i>	<i>-13.4</i>	<i>-34.4</i>	<i>-88.4</i>	<i>-13.4</i>	<i>-13.4</i>
<i>Parameters</i>	<i>Units CSI WG</i>					
<i>VOAs</i>						
1,1,2,2-Tetrachloroethane	µg/L 11	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L 42	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L 3.2	3 U	3 U	3 U	3 U	3 U
Carbon tetrachloride	µg/L 4.4	3 U	3 U	3 U	3 U	3 U
Chloroform (Trichloromethane)	µg/L 470	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	µg/L 16.00	5 U	5 U	5 U	5 U	5 U
Methylene chloride	µg/L 1600	5 UJ	5 U	5 U	5 UJ	5 U
Tetrachloroethene	µg/L 8.85	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	µg/L 10000	5 U	5 U	5 U	5 U	5 U
Trichloroethene	µg/L 81	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	µg/L 2.4	3 U	3 U	3 U	3 U	3 U
					24	28

(Duplicate)

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	GP-11		GP-11		GP-12		GP-12		GP-12		GP-12	
Sample ID:	GW-032504-CC-GP11-50-05		GW-032504-CC-GP11-100-06		GW-040204-CC-GP12-25-28		GW-040204-CC-GP12-50-29		GW-040204-CC-DUP-03		GW-040504-CC-GP12-100-31	
Sample Date:	3/25/2004		3/25/2004		4/2/2004		4/2/2004		4/2/2004		4/5/2004	
Sample Depth:	50 ft bgs		100 ft bgs		25 ft bgs		50 ft bgs		50 ft bgs		100 ft bgs	
elev_MLLW	-32.08		-82.08		-7.08		-32.08		-32.08		-82.08	
elev_NGVD	-38.4		-88.4		-13.4		-38.4		-38.4		-88.4	
Parameters	Units CSI WG											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	42	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	3.2	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Carbon tetrachloride	µg/L	4.4	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Chloroform (Trichloromethane)	µg/L	470	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	µg/L	16.00	15	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	µg/L	1600	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	µg/L	8.85	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	µg/L	10000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	µg/L	81	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	µg/L	2.4	48	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>GP-13</i>	<i>GP-13</i>	<i>GP-13</i>	<i>GP-14</i>	<i>GP-14</i>	<i>GP-14</i>	<i>GP-15</i>
<i>Sample ID:</i>	<i>GW-040104-CC-GP13-25-25</i>	<i>GW-040104-CC-GP13-48-26</i>	<i>GW-040204-CC-GP13-96-27</i>	<i>GW-0704-GP14-25</i>	<i>GW-0704-GP14-50</i>	<i>GW-0704-GP14-100</i>	<i>GW-0704-GP15-25</i>
<i>Sample Date:</i>	<i>4/1/2004</i>	<i>4/1/2004</i>	<i>4/2/2004</i>	<i>7/7/2004</i>	<i>7/7/2004</i>	<i>7/7/2004</i>	<i>7/7/2004</i>
<i>Sample Depth:</i>	<i>25 ft bgs</i>	<i>48 ft bgs</i>	<i>96 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>25 ft bgs</i>
<i>elev_MLLW</i>	<i>-7.08</i>	<i>-30.08</i>	<i>-78.08</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-82.08</i>	<i>-7.08</i>
<i>elev_NGVD</i>	<i>-13.4</i>	<i>-36.4</i>	<i>-84.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-88.4</i>	<i>-13.4</i>
<i>Parameters</i>	<i>Units CSI WG</i>						
VOAs							
1,1,2,2-Tetrachloroethane	µg/L 11	5 U	5 U	5 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L 42	5 U	5 U	5 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	µg/L 3.2	3 U	3 U	3 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L 4.4	3 U	3 U	3 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L 470	5 U	5 U	5 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L 16.00	5 U	5 U	5 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L 1600	5 U	5 U	5 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L 8.85	5 U	5 U	5 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L 10000	5 U	5 U	5 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L 81	5 U	5 U	5 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L 2.4	3 U	3 U	3 U	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>GP-15</i>	<i>GP-15</i>	<i>GP-16</i>	<i>GP-16</i>	<i>GP-16</i>	<i>GP-16</i>	<i>G-Shallow</i>	
<i>Sample ID:</i>		<i>GW-0704-GP15-50</i>	<i>GW-0704-GP15-100</i>	<i>GW-0704-GP16-25</i>	<i>GW-0704-FD-01~GP16-25</i>	<i>GW-0704-GP16-50</i>	<i>GW-0704-GP16-100</i>	<i>GW-092513-NH-MW-G-S</i>	
<i>Sample Date:</i>		<i>7/7/2004</i>	<i>7/8/2004</i>	<i>7/8/2004</i>	<i>7/8/2004</i>	<i>7/8/2004</i>	<i>7/8/2004</i>	<i>9/25/2013</i>	
<i>Sample Depth:</i>		<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>25 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>		
<i>elev_MLLW</i>		<i>-32.08</i>	<i>-82.08</i>	<i>-7.08</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-82.08</i>		
<i>elev_NGVD</i>		<i>-38.4</i>	<i>-88.4</i>	<i>-13.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-88.4</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
VOAs									
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	100 U
1,1,2-Trichloroethane	µg/L	42	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	100 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	98 J
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	100 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	28 J
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	56000
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	7.4	14000
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	100 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	1500
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	700
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	9100

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>H-01</i>	<i>HC08-EP18</i>	<i>HC-N11-5</i>	<i>HC-N11-6</i>	<i>HC-N11-8</i>	<i>HC-N12342526-6</i>	<i>HC-N12342526-7</i>	
<i>Sample ID:</i>		<i>GW-092713-NH-H-01</i>	<i>HC08-EP18</i>	<i>WG-081612-TS-HC-N11-5-505</i>	<i>WG-081612-TS-HC-N11-6-506</i>	<i>WG-081612-TS-HC-N11-8-507</i>	<i>HC-N12342526-6</i>	<i>HC-N12342526-7</i>	
<i>Sample Date:</i>		<i>9/27/2013</i>	<i>10/24/2008</i>	<i>8/16/2012</i>	<i>8/16/2012</i>	<i>8/16/2012</i>	<i>11/10/2011</i>	<i>11/10/2011</i>	
<i>Sample Depth:</i>			<i>12 ft BGS</i>						
<i>elev_MLLW</i>									
<i>elev_NGVD</i>									
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
VOAs									
1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	3 U	0.50 U	5.0 U	0.50 U	0.20 U	1.0 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	3 U	0.50 U	5.0 U	0.50 U	0.20 U	1.0 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	3 U	0.50 U	5.0 U	0.50 U	0.20 U	1.0 U
Carbon tetrachloride	µg/L	4.4	0.50 U	3 U	0.50 U	5.0 U	0.50 U	0.20 U	1.0 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	3 U	0.50 U	5.0 U	0.50 U	0.20 U	1.0 U
cis-1,2-Dichloroethene	µg/L	16.00	89	3 U	0.50 U	5.0 U	0.50 U	2.8	15
Methylene chloride	µg/L	1600	2.0 U	6 U	2.0 U	20 U	2.0 U	1.0 U	5.0 U
Tetrachloroethene	µg/L	8.85	5.4	3 U	0.50 U	5.0 U	0.50 U	0.20 U	1.0 U
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	4.6	0.50 U	5.0 U	0.50 U	1.4	9.7
Trichloroethene	µg/L	81	0.13 J	3 U	0.50 U	5.0 U	0.50 U	0.30	3.3
Vinyl chloride	µg/L	2.4	34	10	0.50 U	5.0 U	0.50 U	19	200

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HC-N12342526-8</i>	<i>HC-N6-1</i>	<i>HC-N6-2</i>	<i>HC-N6-3</i>	<i>HC-N6-4</i>	<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-1</i>	
<i>Sample ID:</i>		<i>HC-N12342526-8</i>	<i>HC-N6-1 GW</i>	<i>HC-N6-2 GW</i>	<i>HC-N6-3 GW</i>	<i>HC-N6-4 GW</i>	<i>GW-083105-HYD-1-001</i>	<i>GW-083105-HYD-1-002</i>	<i>GW-083105-HYD-1-003</i>	
<i>Sample Date:</i>		<i>11/10/2011</i>	<i>9/22/2010</i>	<i>9/22/2010</i>	<i>9/22/2010</i>	<i>9/22/2010</i>	<i>8/31/2005</i>	<i>8/31/2005</i>	<i>8/31/2005</i>	
<i>Sample Depth:</i>			<i>10 to 12 ft BGS</i>	<i>10 to 12 ft BGS</i>	<i>10 to 12 ft BGS</i>	<i>10 to 12 ft BGS</i>	<i>4 to 7 ft bml</i>	<i>14 to 17 ft bml</i>	<i>24 to 27 ft bml</i>	
<i>elev_MLLW</i>			<i>7 to 5</i>	<i>7 to 5</i>	<i>7 to 5</i>	<i>7 to 5</i>	<i>-40.3 to -43.3</i>	<i>-50.3 to -53.3</i>	<i>-60.3 to -63.3</i>	
<i>elev_NGVD</i>			<i>0.7 to -1.3</i>	<i>0.7 to -1.3</i>	<i>0.7 to -1.3</i>	<i>0.7 to -1.3</i>	<i>-46.6 to -49.6</i>	<i>-56.6 to -59.6</i>	<i>-66.6 to -69.6</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>							
VOAs										
1,1,2,2-Tetrachloroethane	µg/L	11	4.0 U	500 U	50 U	60 U	100 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	4.0 U	500 U	50 U	60 U	100 U	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	4.0 U	500 U	50 U	60 U	100 U	0.0595 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	4.0 U	500 U	50 U	60 U	100 U	0.097 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	4.0 U	500 U	50 U	60 U	100 U	0.0717 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	14	500	180	60 U	280	0.0433 U	0.0433 U	0.0433 U
Methylene chloride	µg/L	1600	20 U	5000 U	500 U	600 U	1000 U	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	4.0 U	47000	8200	11000	17000	0.0578 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	4.0 U	500 U	50 U	60 U	100 U	0.0584 U	0.0584 U	0.0584 U
Trichloroethene	µg/L	81	4.7	1600	1100	1100	1800	0.0641 U	0.0641 U	0.0641 U
Vinyl chloride	µg/L	2.4	630	500 U	50 U	60 U	100 U	0.0604 U	0.0604 U	0.0604 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-1</i>
<i>Sample ID:</i>		<i>GW-083105-HYD-1-004</i>	<i>GW-090105-HYD-1-005</i>	<i>GW-090105-HYD-1-006</i>	<i>GW-090105-HYD-1-007</i>	<i>GW-090105-HYD-1-008</i>	<i>GW-090105-HYD-1-009</i>	<i>GW-090105-HYD-1-010</i>
<i>Sample Date:</i>		<i>8/31/2005</i>	<i>9/1/2005</i>	<i>9/1/2005</i>	<i>9/1/2005</i>	<i>9/1/2005</i>	<i>9/1/2005</i>	<i>9/1/2005</i>
<i>Sample Depth:</i>		<i>34 to 37 ft bml</i>	<i>44 to 47 ft bml</i>	<i>54 to 57 ft bml</i>	<i>64 to 67 ft bml</i>	<i>74 to 77 ft bml</i>	<i>84 to 87 ft bml</i>	<i>94 to 97 ft bml</i>
<i>elev_MLLW</i>		<i>-70.3 to -73.3</i>	<i>-80.3 to -83.3</i>	<i>-90.3 to -93.3</i>	<i>-100.3 to -103.3</i>	<i>-110.3 to -113.3</i>	<i>-120.3 to -123.3</i>	<i>-130.3 to -133.3</i>
<i>elev_NGVD</i>		<i>-76.6 to -79.6</i>	<i>-86.6 to -89.6</i>	<i>-96.6 to -99.6</i>	<i>-106.6 to -109.6</i>	<i>-116.6 to -119.6</i>	<i>-126.6 to -129.6</i>	<i>-136.6 to -139.6</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.34 U	68 U	68 U	68 U	68 U	68 U
1,1,2-Trichloroethane	µg/L	42	0.314 U	599 J	62.7 U	193 J	62.7 U	62.7 U
1,1-Dichloroethene	µg/L	3.2	0.298 U	650 J	59.5 U	860 J	1020	1160
Carbon tetrachloride	µg/L	4.4	0.485 U	97 U	97 U	97 U	97 U	97 U
Chloroform (Trichloromethane)	µg/L	470	0.359 U	4590	71.7 U	1390	71.7 U	71.7 U
cis-1,2-Dichloroethene	µg/L	16.00	0.217 U	124000	11800	76300	27100	29200
Methylene chloride	µg/L	1600	0.376 U	4220	75.2 U	75.2 U	75.2 U	75.2 U
Tetrachloroethene	µg/L	8.85	0.289 U	57.8 U	57.8 U	57.8 U	973 J	2670
trans-1,2-Dichloroethene	µg/L	10000	0.292 U	3220	58.4 U	1590	58.4 U	1260
Trichloroethene	µg/L	81	0.321 U	49100	64.1 U	64.1 U	52000	66500
Vinyl chloride	µg/L	2.4	102	7120	60.4 U	46200	5970	3180
								378

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>
<i>Sample ID:</i>		<i>GW-090105-HYD-1-011</i>	<i>GW-090105-HYD-1-012</i>	<i>GW-090105-HYD-1-013</i>	<i>GW-082905-HYD-2-001</i>	<i>GW-082905-HYD-2-002</i>	<i>GW-082905-HYD-2-003</i>	<i>GW-082905-HYD-2-004</i>
<i>Sample Date:</i>		<i>9/1/2005</i>	<i>9/1/2005</i>	<i>9/1/2005</i>	<i>8/29/2005</i>	<i>8/29/2005</i>	<i>8/29/2005</i>	<i>8/29/2005</i>
<i>Sample Depth:</i>		<i>104 to 107 ft bml</i>	<i>114 to 117 ft bml</i>	<i>124 to 127 ft bml</i>	<i>8 to 11 ft bml</i>	<i>18 to 21 ft bml</i>	<i>28 to 31 ft bml</i>	<i>38 to 41 ft bml</i>
<i>elev_MLLW</i>		<i>-140.3 to -143.3</i>	<i>-150.3 to -153.3</i>	<i>-160.3 to -163.3</i>	<i>-45.8 to -48.8</i>	<i>-55.8 to -58.8</i>	<i>-65.8 to -68.8</i>	<i>-75.8 to -78.8</i>
<i>elev_NGVD</i>		<i>-146.6 to -149.6</i>	<i>-156.6 to -159.6</i>	<i>-166.6 to -169.6</i>	<i>-52.1 to -55.1</i>	<i>-62.1 to -65.1</i>	<i>-72.1 to -75.1</i>	<i>-82.1 to -85.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>VOAs</i>								
1,1,2,2-Tetrachloroethane	µg/L	11	0.34 U	0.34 U	0.068 U	0.068 U	0.068 U	6.8 U
1,1,2-Trichloroethane	µg/L	42	0.314 U	0.314 U	0.0627 U	0.0627 U	0.0627 U	6.27 U
1,1-Dichloroethene	µg/L	3.2	2.59 J	1.46 J	0.778 J	0.0595 U	0.0595 U	13.6 J
Carbon tetrachloride	µg/L	4.4	0.485 U	0.485 U	0.097 U	0.097 U	0.097 U	9.7 U
Chloroform (Trichloromethane)	µg/L	470	0.359 U	0.359 U	0.404 J	0.0717 U	0.0717 U	7.17 U
cis-1,2-Dichloroethene	µg/L	16.00	197	129	71.7	0.0433 U	0.0433 U	1300
Methylene chloride	µg/L	1600	0.376 U	0.376 U	0.0752 U	0.0752 U	0.0752 U	7.52 U
Tetrachloroethene	µg/L	8.85	2.79 J	4.82 J	2.31	0.0578 U	0.0578 U	0.0691 J
trans-1,2-Dichloroethene	µg/L	10000	3.73 J	2.59 J	1.38	0.0584 U	0.0584 U	57.3 J
Trichloroethene	µg/L	81	108	72.6	38.5	0.0641 U	0.0641 U	6.41 U
Vinyl chloride	µg/L	2.4	13.2	10.8	7.21	0.0604 U	0.0604 U	2060

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	
<i>Sample ID:</i>		<i>GW-083005-HYD-2-005</i>	<i>GW-083005-HYD-2-006</i>	<i>GW-083005-HYD-2-007</i>	<i>GW-083005-HYD-2-008</i>	<i>GW-083005-HYD-2-009</i>	<i>GW-083005-HYD-2-010</i>	<i>GW-083105-HYD-2-011</i>	
<i>Sample Date:</i>		<i>8/30/2005</i>	<i>8/30/2005</i>	<i>8/30/2005</i>	<i>8/30/2005</i>	<i>8/30/2005</i>	<i>8/30/2005</i>	<i>8/31/2005</i>	
<i>Sample Depth:</i>		<i>48 to 51 ft bml</i>	<i>58 to 61 ft bml</i>	<i>68 to 71 ft bml</i>	<i>78 to 81 ft bml</i>	<i>88 to 91 ft bml</i>	<i>98 to 101 ft bml</i>	<i>108 to 111 ft bml</i>	
<i>elev_MLLW</i>		<i>-85.8 to -88.8</i>	<i>-95.8 to -98.8</i>	<i>-105.8 to -108.8</i>	<i>-115.8 to -118.8</i>	<i>-125.8 to -128.8</i>	<i>-135.8 to -138.8</i>	<i>-145.8 to -148.8</i>	
<i>elev_NGVD</i>		<i>-92.1 to -95.1</i>	<i>-102.1 to -105.1</i>	<i>-112.1 to -115.1</i>	<i>-122.1 to -125.1</i>	<i>-132.1 to -135.1</i>	<i>-142.1 to -145.1</i>	<i>-152.1 to -155.1</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
VOAs									
1,1,2-Tetrachloroethane	µg/L	11	6.8 U	6.8 U	68 U	136 U	136 U	0.68 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	12.5 J	6.27 U	62.7 U	125 U	125 U	0.627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	15 J	5.95 U	1310	843 J	1100 J	7.48 J	0.294 J
Carbon tetrachloride	µg/L	4.4	9.7 U	9.7 U	97 U	194 U	194 U	0.97 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	100	38.7 J	538 J	143 U	143 U	1.25 J	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	2200	593	48100	18200	73900	608	11.3
Methylene chloride	µg/L	1600	7.52 U	7.52 U	654 J	150 U	150 U	0.752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	5.78 U	55.6 J	243 J	505 J	2780	5.09 J	0.301 J
trans-1,2-Dichloroethene	µg/L	10000	75.6 J	25.1 J	1310	351 J	846 J	7.58 J	0.188 J
Trichloroethene	µg/L	81	874	1680	26100	78800	61800	221	23
Vinyl chloride	µg/L	2.4	188	125	15900	3580	387 J	16.9	0.628 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-3</i>	
<i>Sample ID:</i>		<i>GW-081005-HYD-3-001</i>	<i>GW-081005-HYD-3-002</i>	<i>GW-081105-HYD-3-003</i>	<i>GW-081105-HYD-3-004</i>	<i>GW-081205-HYD-3-005</i>	<i>GW-081205-HYD-3-006</i>	<i>GW-081505-HYD-3-007</i>	
<i>Sample Date:</i>		<i>8/10/2005</i>	<i>8/10/2005</i>	<i>8/11/2005</i>	<i>8/11/2005</i>	<i>8/12/2005</i>	<i>8/12/2005</i>	<i>8/15/2005</i>	
<i>Sample Depth:</i>		<i>11 to 14 ft bml</i>	<i>21 to 24 ft bml</i>	<i>31 to 34 ft bml</i>	<i>41 to 44 ft bml</i>	<i>51 to 54 ft bml</i>	<i>61 to 64 ft bml</i>	<i>71 to 74 ft bml</i>	
<i>elev_MLLW</i>		<i>-22.79 to -25.79</i>	<i>-32.79 to -35.79</i>	<i>-42.79 to -45.79</i>	<i>-52.79 to -55.79</i>	<i>-62.79 to -65.79</i>	<i>-72.79 to -75.79</i>	<i>-82.79 to -85.79</i>	
<i>elev_NGVD</i>		<i>-29.1 to -32.1</i>	<i>-39.1 to -42.1</i>	<i>-49.1 to -52.1</i>	<i>-59.1 to -62.1</i>	<i>-69.1 to -72.1</i>	<i>-79.1 to -82.1</i>	<i>-89.1 to -92.1</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
VOAs									
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	136 U	
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.21 J	0.0627 U	228 J
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	0.0595 U	0.222 J	0.453 J	0.0595 U	463 J
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	194 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.427 J	0.0717 U	394 J
cis-1,2-Dichloroethene	µg/L	16.00	0.185 J	0.231 J	0.0433 U	12.7	11.2	1.8	125000
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	150 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.159 J	0.0578 U	116 U
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.0584 U	6.98	3.9	0.352 J	4090
Trichloroethene	µg/L	81	0.0641 U	0.0641 U	0.0641 U	0.0641 U	9.94	0.841 J	630 J
Vinyl chloride	µg/L	2.4	0.0604 U	0.0604 U	0.0604 U	0.121 J	0.503 J	0.063 J	31100

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	HYD-3	HYD-3	HYD-3	HYD-3	HYD-3	HYD-3	HYD-4
Sample ID:	GW-081505-HYD-3-008	GW-081505-HYD-3-009	GW-081605-HYD-3-010	GW-081705-HYD-3-011	GW-081705-HYD-3-012	GW-081805-HYD-3-013	GW-092205-HYD-4-001
Sample Date:	8/15/2005	8/15/2005	8/16/2005	8/17/2005	8/17/2005	8/18/2005	9/22/2005
Sample Depth:	81 to 84 ft bml	91 to 94 ft bml	101 to 104 ft bml	111 to 114 ft bml	121 to 124 ft bml	131 to 134 ft bml	6 to 9 ft bml
elev_MLLW	-92.79 to -95.79	-102.79 to -105.79	-112.79 to -115.79	-122.79 to -125.79	-132.79 to -135.79	-142.79 to -145.79	-50.8 to -53.8
elev_NGVD	-99.1 to -102.1	-109.1 to -112.1	-119.1 to -122.1	-129.1 to -132.1	-139.1 to -142.1	-149.1 to -152.1	-57.1 to -60.1

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	136 U	136 U	68 U	68 U	68 U	0.068 U	40 U
1,1,2-Trichloroethane	µg/L	42	415 J	213 J	62.7 U	62.7 U	62.7 U	0.0627 U	180 U
1,1-Dichloroethene	µg/L	3.2	406 J	373 J	2240	984 J	230 J	0.0595 U	100 UJ
Carbon tetrachloride	µg/L	4.4	194 U	194 U	97 U	97 U	97 U	0.097 U	300 U
Chloroform (Trichloromethane)	µg/L	470	2430	3310	71.7 U	71.7 U	71.7 U	0.0957 J	80 UJ
cis-1,2-Dichloroethene	µg/L	16.00	83500	42300	59000	33100	50800	7.25	129000 J
Methylene chloride	µg/L	1600	3800	3140	75.2 U	75.2 U	75.2 U	0.0752 U	180 UJ
Tetrachloroethene	µg/L	8.85	116 U	1490 J	57.8 U	57.8 U	57.8 U	0.238 J	11700
trans-1,2-Dichloroethene	µg/L	10000	2610	1690 J	381 J	395 J	316 J	0.131 J	530 J
Trichloroethene	µg/L	81	72100	75000	16700	5800	64.1 U	9.07	29000
Vinyl chloride	µg/L	2.4	3680	8030	992 J	519 J	147 J	0.0604 U	40300 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-4</i>
<i>Sample ID:</i>		<i>GW-092205-HYD-4-002</i>	<i>GW-092305-HYD-4-003</i>	<i>GW-092305-HYD-4-004</i>	<i>GW-092305-HYD-4-005</i>	<i>GW-092305-HYD-4-006</i>	<i>GW-092305-HYD-4-007</i>	<i>GW-092405-HYD-4-008</i>
<i>Sample Date:</i>		<i>9/22/2005</i>	<i>9/23/2005</i>	<i>9/23/2005</i>	<i>9/23/2005</i>	<i>9/23/2005</i>	<i>9/23/2005</i>	<i>9/24/2005</i>
<i>Sample Depth:</i>		<i>16 to 19 ft bml</i>	<i>26 to 29 ft bml</i>	<i>36 to 39 ft bml</i>	<i>46 to 49 ft bml</i>	<i>46 to 49 ft bml</i>	<i>56 to 59 ft bml</i>	<i>66 to 69 ft bml</i>
<i>elev_MLLW</i>		<i>-60.8 to -63.8</i>	<i>-70.8 to -73.8</i>	<i>-80.8 to -83.8</i>	<i>-90.8 to -93.8</i>	<i>-90.8 to -93.8</i>	<i>-100.8 to -103.8</i>	<i>-110.8 to -113.8</i>
<i>elev_NGVD</i>		<i>-67.1 to -70.1</i>	<i>-77.1 to -80.1</i>	<i>-87.1 to -90.1</i>	<i>-97.1 to -100.1</i>	<i>-97.1 to -100.1</i>	<i>-107.1 to -110.1</i>	<i>-117.1 to -120.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
VOAs								
1,1,2,2-Tetrachloroethane	µg/L 11	2 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	2 U
1,1,2-Trichloroethane	µg/L 42	66 J	4.5 U	0.45 U	0.45 U	0.45 U	0.45 U	9 U
1,1-Dichloroethene	µg/L 3.2	122 J	13.9 J	0.9 J	0.82 J	0.25 UJ	0.25 U	5 U
Carbon tetrachloride	µg/L 4.4	15 U	7.5 U	0.75 U	0.75 U	0.75 U	0.75 U	15 U
Chloroform (Trichloromethane)	µg/L 470	4 UJ	2 UJ	0.2 UJ	0.94 J	0.2 UJ	0.2 U	4 U
cis-1,2-Dichloroethene	µg/L 16.00	7150 J	353 J	111 J	2.39 J	1.89 J	36.4	6780
Methylene chloride	µg/L 1600	9 UJ	4.5 UJ	0.45 UJ	0.45 UJ	0.45 UJ	0.45 U	9 U
Tetrachloroethene	µg/L 8.85	8770	652	58.9	5.18	3.4	3.18	3 U
trans-1,2-Dichloroethene	µg/L 10000	41.3 J	5.5 J	0.2 UJ	0.2 UJ	0.2 UJ	0.2 U	26.9
Trichloroethene	µg/L 81	29900	5080	226	12.1	8.84	7.63	4 U
Vinyl chloride	µg/L 2.4	8850 J	11.7 J	3.83 J	0.25 UJ	0.25 UJ	1.49	19.6 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-5</i>	<i>HYD-5</i>	
<i>Sample ID:</i>		<i>GW-092405-HYD-4-009</i>	<i>GW-092605-HYD-4-010</i>	<i>GW-092605-HYD-4-011</i>	<i>GW-092605-HYD-4-012</i>	<i>GW-092605-HYD-4-013</i>	<i>GW-100405-HYD-5-001</i>	<i>GW-100505-HYD-5-002</i>	
<i>Sample Date:</i>		<i>9/24/2005</i>	<i>9/26/2005</i>	<i>9/26/2005</i>	<i>9/26/2005</i>	<i>9/26/2005</i>	<i>10/4/2005</i>	<i>10/5/2005</i>	
<i>Sample Depth:</i>		<i>76 to 79 ft bml</i>	<i>86 to 89 ft bml</i>	<i>96 to 99 ft bml</i>	<i>106 to 109 ft bml</i>	<i>116 to 119 ft bml</i>	<i>14 to 17 ft bml</i>	<i>24 to 27 ft bml</i>	
<i>elev_MLLW</i>		<i>-120.8 to -123.8</i>	<i>-130.8 to -133.8</i>	<i>-140.8 to -143.8</i>	<i>-150.8 to -153.8</i>	<i>-160.8 to -163.8</i>	<i>-54.47 to -57.47</i>	<i>-64.47 to -67.47</i>	
<i>elev_NGVD</i>		<i>-127.1 to -130.1</i>	<i>-137.1 to -140.1</i>	<i>-147.1 to -150.1</i>	<i>-157.1 to -160.1</i>	<i>-167.1 to -170.1</i>	<i>-60.8 to -63.8</i>	<i>-70.8 to -73.8</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>VOAs</i>									
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.1 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.09 U	0.45 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 UJ	0.0885 J	0.025 U	0.05 UJ	0.71 J	0.025 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.15 U	0.75 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 UJ	0.02 UJ	0.02 U	0.04 UJ	1.06 J	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	0.533	2.22 J	9.37 J	1.41	12.2 J	330 J	0.015 U
Methylene chloride	µg/L	1600	0.045 U	0.045 UJ	0.045 UJ	0.045 U	0.09 UJ	0.45 UJ	0.045 U
Tetrachloroethene	µg/L	8.85	0.063 J	11.5	5.18	1.81	3.57	0.15 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.02 UJ	0.02 UJ	0.02 U	0.04 UJ	0.2 UJ	0.02 U
Trichloroethene	µg/L	81	0.213	42.3	30.7	7.7	26.8	0.2 U	0.02 U
Vinyl chloride	µg/L	2.4	0.108	0.025 UJ	4.08 J	0.591	3.58 J	630 J	0.025 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-5</i>	<i>HYD-5</i>	<i>HYD-5</i>	<i>HYD-5</i>	<i>HYD-5</i>	<i>HYD-5</i>	<i>HYD-6</i>
<i>Sample ID:</i>		<i>GW-100505-HYD-5-003</i>	<i>GW-100505-HYD-5-004</i>	<i>GW-100505-HYD-5-005</i>	<i>GW-100505-HYD-5-006</i>	<i>GW-100505-HYD-5-007</i>	<i>GW-100505-HYD-5-008</i>	<i>GW-093005-HYD-6-001</i>
<i>Sample Date:</i>		<i>10/5/2005</i>	<i>10/5/2005</i>	<i>10/5/2005</i>	<i>10/5/2005</i>	<i>10/5/2005</i>	<i>10/5/2005</i>	<i>9/30/2005</i>
<i>Sample Depth:</i>		<i>34 to 37 ft bml</i>	<i>34 to 37 ft bml</i>	<i>44 to 47 ft bml</i>	<i>54 to 57 ft bml</i>	<i>64 to 67 ft bml</i>	<i>74 to 84 ft bml</i>	<i>2.3 to 5.3 ft bml</i>
<i>elev_MLLW</i>		<i>-74.47 to -77.47</i>	<i>-74.47 to -77.47</i>	<i>-84.47 to -87.47</i>	<i>-94.47 to -97.47</i>	<i>-104.47 to -107.47</i>	<i>-114.47 to -124.47</i>	<i>-43.99 to -46.99</i>
<i>elev_NGVD</i>		<i>-80.8 to -83.8</i>	<i>-80.8 to -83.8</i> <i>(Duplicate)</i>	<i>-90.8 to -93.8</i>	<i>-100.8 to -103.8</i>	<i>-110.8 to -113.8</i>	<i>-120.8 to -130.8</i>	<i>-50.3 to -53.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
VOAs								
1,1,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 UJ
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 UJ
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ
cis-1,2-Dichloroethene	µg/L	16.00	0.015 U	0.015 U	0.414 J	0.162 J	0.015 U	0.015 U
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 UJ
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.051 J	0.015 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Trichloroethene	µg/L	81	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U	0.02 U
Vinyl chloride	µg/L	2.4	0.025 U	0.025 U	0.142	0.025 U	0.025 U	0.025 U
								99.5 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>
<i>Sample ID:</i>		<i>GW-093005-HYD-6-002</i>	<i>GW-093005-HYD-6-003</i>	<i>GW-093005-HYD-6-004</i>	<i>GW-100105-HYD-6-005</i>	<i>GW-100105-HYD-6-006</i>	<i>GW-100305-HYD-6-007</i>	<i>GW-100305-HYD-6-008</i>
<i>Sample Date:</i>		<i>9/30/2005</i>	<i>9/30/2005</i>	<i>9/30/2005</i>	<i>10/1/2005</i>	<i>10/1/2005</i>	<i>10/3/2005</i>	<i>10/3/2005</i>
<i>Sample Depth:</i>		<i>12.3 to 15.3 ft bml</i>	<i>22.3 to 25.3 ft bml</i>	<i>32.3 to 35.4 ft bml</i>	<i>42.3 to 45.4 ft bml</i>	<i>52.3 to 55.3 ft bml</i>	<i>62.3 to 65.3 ft bml</i>	<i>62.3 to 65.3 ft bml</i>
<i>elev_MLLW</i>		<i>-53.99 to -56.99</i>	<i>-63.99 to -66.99</i>	<i>-73.99 to -77.09</i>	<i>-83.99 to -87.09</i>	<i>-93.99 to -96.99</i>	<i>-103.99 to -106.99</i>	<i>-103.99 to -106.99</i>
<i>elev_NGVD</i>		<i>-60.3 to -63.3</i>	<i>-70.3 to -73.3</i>	<i>-80.3 to -83.4</i>	<i>-90.3 to -93.4</i>	<i>-100.3 to -103.3</i>	<i>-110.3 to -113.3</i>	<i>-110.3 to -113.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					<i>(Duplicate)</i>
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ
1,1,2-Trichloroethane	µg/L	42	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ
1,1-Dichloroethene	µg/L	3.2	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ
Carbon tetrachloride	µg/L	4.4	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ
Chloroform (Trichloromethane)	µg/L	470	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ
cis-1,2-Dichloroethene	µg/L	16.00	15.3 J	0.235 J	0.288 J	0.057 J	0.733 J	0.015 UJ
Methylene chloride	µg/L	1600	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ
Tetrachloroethene	µg/L	8.85	0.116 J	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ
trans-1,2-Dichloroethene	µg/L	10000	0.447 J	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ
Trichloroethene	µg/L	81	1.1 J	0.329 J	0.247 J	0.051 J	0.886 J	0.02 UJ
Vinyl chloride	µg/L	2.4	92.8 J	0.224 J	0.025 UJ	0.062 J	0.176 J	0.025 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-7</i>	<i>HYD-7</i>	
<i>Sample ID:</i>		<i>GW-100305-HYD-6-009</i>	<i>GW-100405-HYD-6-010</i>	<i>GW-100405-HYD-6-011</i>	<i>GW-100405-HYD-6-012</i>	<i>GW-100405-HYD-6-013</i>	<i>GW-083105-HYD-7-001</i>	<i>GW-083105-HYD-7-002</i>	
<i>Sample Date:</i>		<i>10/3/2005</i>	<i>10/4/2005</i>	<i>10/4/2005</i>	<i>10/4/2005</i>	<i>10/4/2005</i>	<i>8/31/2005</i>	<i>8/31/2005</i>	
<i>Sample Depth:</i>		<i>72.3 to 75.3 ft bml</i>	<i>82.3 to 85.3 ft bml</i>	<i>92.3 to 95.3 ft bml</i>	<i>102.3 to 105.3 ft bml</i>	<i>112.3 to 115.3 ft bml</i>	<i>20 to 23 ft bml</i>	<i>20 to 23 ft bml</i>	
<i>elev_MLLW</i>		<i>-113.99 to -116.99</i>	<i>-123.99 to -126.99</i>	<i>-133.99 to -136.99</i>	<i>-143.99 to -146.99</i>	<i>-153.99 to -156.99</i>	<i>-27.5 to -30.5</i>	<i>-27.5 to -30.5</i>	
<i>elev_NGVD</i>		<i>-120.3 to -123.3</i>	<i>-130.3 to -133.3</i>	<i>-140.3 to -143.3</i>	<i>-150.3 to -153.3</i>	<i>-160.3 to -163.3</i>	<i>-33.8 to -36.8</i>	<i>-33.8 to -36.8</i> <i>(Duplicate)</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
VOAs									
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 U	0.68 U	0.68 U
1,1,2-Trichloroethane	µg/L	42	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 U	0.627 U	0.627 U
1,1-Dichloroethene	µg/L	3.2	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 U	0.595 U	0.595 U
Carbon tetrachloride	µg/L	4.4	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ	0.075 U	0.97 U	0.97 U
Chloroform (Trichloromethane)	µg/L	470	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 U	0.717 U	0.717 U
cis-1,2-Dichloroethene	µg/L	16.00	0.107 J	0.015 UJ	4.31 J	0.0745 J	0.144 J	95.4	92.8
Methylene chloride	µg/L	1600	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ	0.045 U	0.752 U	0.752 U
Tetrachloroethene	µg/L	8.85	0.015 UJ	0.015 UJ	0.5 J	0.015 UJ	0.015 U	0.578 U	0.578 U
trans-1,2-Dichloroethene	µg/L	10000	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 U	0.584 U	0.584 U
Trichloroethene	µg/L	81	0.1 J	0.02 UJ	4.94 J	0.112 J	0.02 U	1.78 J	1.61 J
Vinyl chloride	µg/L	2.4	0.0635 J	0.025 UJ	0.686 J	0.025 UJ	0.025 U	1.38 J	1.24 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-7</i>	<i>HYD-7</i>	<i>HYD-7</i>	<i>HYD-7</i>	<i>HYD-7</i>	<i>HYD-7</i>	<i>HYD-7</i>
<i>Sample ID:</i>		<i>GW-090105-HYD-7-003</i>	<i>GW-090105-HYD-7-004</i>	<i>GW-091405-HYD-7-005</i>	<i>GW-091405-HYD-7-006</i>	<i>GW-091505-HYD-7-007</i>	<i>GW-091505-HYD-7-008</i>	<i>GW-091505-HYD-7-009</i>
<i>Sample Date:</i>		<i>9/1/2005</i>	<i>9/1/2005</i>	<i>9/14/2005</i>	<i>9/14/2005</i>	<i>9/15/2005</i>	<i>9/15/2005</i>	<i>9/15/2005</i>
<i>Sample Depth:</i>		<i>30 to 33 ft bml</i>	<i>40 to 43 ft bml</i>	<i>50 to 53 ft bml</i>	<i>60 to 63 ft bml</i>	<i>70 to 73 ft bml</i>	<i>80 to 83 ft bml</i>	<i>90 to 93 ft bml</i>
<i>elev_MLLW</i>		<i>-37.5 to -40.5</i>	<i>-47.5 to -50.5</i>	<i>-57.5 to -60.5</i>	<i>-67.5 to -70.5</i>	<i>-77.5 to -80.5</i>	<i>-87.5 to -90.5</i>	<i>-97.5 to -100.5</i>
<i>elev_NGVD</i>		<i>-43.8 to -46.8</i>	<i>-53.8 to -56.8</i>	<i>-63.8 to -66.8</i>	<i>-73.8 to -76.8</i>	<i>-83.8 to -86.8</i>	<i>-93.8 to -96.8</i>	<i>-103.8 to -106.8</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.2 J	0.025 U	0.025 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	26.3	56.4	9.3	0.482 J	0.893	0.015 U
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.0596 J	0.0578 U	0.015 U	0.064 J	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.854 J	0.606	0.044 J	0.02 U	0.02 U
Trichloroethene	µg/L	81	0.673 J	0.455 J	0.237 J	0.173 J	0.152 J	0.02 U
Vinyl chloride	µg/L	2.4	0.0604 U	12.4	1.42	0.324	0.196	0.025 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-7</i>	<i>HYD-7</i>	<i>HYD-7</i>	<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-8</i>	
<i>Sample ID:</i>		<i>GW-091605-HYD-7-010</i>	<i>GW-091605-HYD-7-011</i>	<i>GW-091605-HYD-7-012</i>	<i>GW-091305-HYD-8-002</i>	<i>GW-091305-HYD-8-001</i>	<i>GW-091305-HYD-8-003</i>	<i>GW-091305-HYD-8-004</i>	
<i>Sample Date:</i>		<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/13/2005</i>	<i>9/13/2005</i>	<i>9/13/2005</i>	<i>9/13/2005</i>	
<i>Sample Depth:</i>		<i>100 to 103 ft bml</i>	<i>110 to 113 ft bml</i>	<i>120 to 123 ft bml</i>	<i>2 to 5 ft bml</i>	<i>12 to 15 ft bml</i>	<i>22 to 25 ft bml</i>	<i>32 to 35 ft bml</i>	
<i>elev_MLLW</i>		<i>-107.5 to -110.5</i>	<i>-117.5 to -120.5</i>	<i>-127.5 to -130.5</i>	<i>-40.1 to -43.1</i>	<i>-50.1 to -53.1</i>	<i>-60.1 to -63.1</i>	<i>-70.1 to -73.1</i>	
<i>elev_NGVD</i>		<i>-113.8 to -116.8</i>	<i>-123.8 to -126.8</i>	<i>-133.8 to -136.8</i>	<i>-46.4 to -49.4</i>	<i>-56.4 to -59.4</i>	<i>-66.4 to -69.4</i>	<i>-76.4 to -79.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
VOAs									
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.0939 U	0.0939 U	0.0939 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.177 U	0.177 U	0.177 U	0.025 U	0.025 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L	4.4	0.137 U	0.137 U	0.137 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.181 U	0.181 U	0.181 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	0.154 U	0.154 U	0.154 U	0.185 J	0.287 J	0.176 J	0.205 J
Methylene chloride	µg/L	1600	0.155 U	0.155 U	0.155 U	0.045 UJ	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.144 U	0.144 U	0.144 U	0.015 U	0.106 J	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.145 U	0.145 U	0.145 U	0.02 U	0.02 U	0.02 U	0.02 U
Trichloroethene	µg/L	81	0.126 U	0.126 U	0.126 U	0.166 U	0.266 J	0.141 J	0.22 J
Vinyl chloride	µg/L	2.4	0.162 U	0.162 U	0.162 U	0.066 J	0.025 U	0.025 U	0.025 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-9</i>	<i>HYD-9</i>
<i>Sample ID:</i>		<i>GW-091405-HYD-8-005</i>	<i>GW-091405-HYD-8-006</i>	<i>GW-091405-HYD-8-007</i>	<i>GW-091405-HYD-8-008</i>	<i>GW-091405-HYD-8-009</i>	<i>GW-091405-HYD-9-001</i>	<i>GW-091405-HYD-9-002</i>
<i>Sample Date:</i>		<i>9/14/2005</i>	<i>9/14/2005</i>	<i>9/14/2005</i>	<i>9/14/2005</i>	<i>9/14/2005</i>	<i>9/14/2005</i>	<i>9/14/2005</i>
<i>Sample Depth:</i>		<i>42 to 45 ft bml</i>	<i>52 to 55 ft bml</i>	<i>62 to 65 ft bml</i>	<i>72 to 75 ft bml</i>	<i>82 to 85 ft bml</i>	<i>2 to 5 ft bml</i>	<i>12 to 15 ft bml</i>
<i>elev_MLLW</i>		<i>-80.1 to -83.1</i>	<i>-90.1 to -93.1</i>	<i>-100.1 to -103.1</i>	<i>-110.1 to -113.1</i>	<i>-120.1 to -123.1</i>	<i>-37.35 to -40.35</i>	<i>-47.35 to -50.35</i>
<i>elev_NGVD</i>		<i>-86.4 to -89.4</i>	<i>-96.4 to -99.4</i>	<i>-106.4 to -109.4</i>	<i>-116.4 to -119.4</i>	<i>-126.4 to -129.4</i>	<i>-43.7 to -46.7</i>	<i>-53.7 to -56.7</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	0.183 J	0.264 J	0.127 J	0.015 U	0.241 J	0.083 J
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Trichloroethene	µg/L	81	0.202 J	0.284 J	0.154 J	0.02 U	0.274 J	0.181 J
Vinyl chloride	µg/L	2.4	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>HYD-9</i>		<i>HYD-9</i>		<i>HYD-9</i>		<i>HYD-9</i>		<i>HYD-9</i>		<i>HYD-9</i>			
<i>Sample ID:</i>	<i>GW-091505-HYD-9-003</i>		<i>GW-091505-HYD-9-004</i>		<i>GW-091505-HYD-9-005</i>		<i>GW-091505-HYD-9-006</i>		<i>GW-091505-HYD-9-007</i>		<i>GW-091505-HYD-9-008</i>		<i>GW-091505-HYD-9-009</i>	
<i>Sample Date:</i>	<i>9/15/2005</i>		<i>9/15/2005</i>		<i>9/15/2005</i>		<i>9/15/2005</i>		<i>9/15/2005</i>		<i>9/15/2005</i>		<i>9/15/2005</i>	
<i>Sample Depth:</i>	<i>22 to 25 ft bml</i>		<i>32 to 35 ft bml</i>		<i>42 to 45 ft bml</i>		<i>52 to 55 ft bml</i>		<i>62 to 65 ft bml</i>		<i>72 to 75 ft bml</i>		<i>82 to 85 ft bml</i>	
<i>elev_MLLW</i>	<i>-57.35 to -60.35</i>		<i>-67.35 to -70.35</i>		<i>-77.35 to -80.35</i>		<i>-87.35 to -90.35</i>		<i>-97.35 to -100.35</i>		<i>-107.35 to -110.35</i>		<i>-117.35 to -120.35</i>	
<i>elev_NGVD</i>	<i>-63.7 to -66.7</i>		<i>-73.7 to -76.7</i>		<i>-83.7 to -86.7</i>		<i>-93.7 to -96.7</i>		<i>-103.7 to -106.7</i>		<i>-113.7 to -116.7</i>		<i>-123.7 to -126.7</i>	
<i>Parameters</i>	<i>Units CSI WG</i>													
<i>VOAs</i>														
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.068 U	0.068 UJ	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.0939 U	0.0939 UJ	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U	
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.025 U	0.177 U	0.177 UJ	0.177 U	0.177 U	0.177 U	0.177 U	0.177 U	0.177 U	
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.137 U	0.137 UJ	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U	
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 U	0.181 U	0.181 UJ	0.181 U	0.181 U	0.181 U	0.181 U	0.181 U	0.181 U	
cis-1,2-Dichloroethene	µg/L	16.00	0.112 J	0.227 J	0.179 J	0.154 U	0.154 UJ	0.273 J	0.24 J	0.24 J	0.24 J	0.24 J	0.24 J	
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 U	0.155 U	0.155 UJ	0.155 U	0.155 U	0.155 U	0.155 U	0.155 U	0.155 U	
Tetrachloroethene	µg/L	8.85	0.015 U	0.07 J	0.015 U	0.144 U	0.144 UJ	0.144 U	0.144 U	0.144 U	0.144 U	0.144 U	0.144 U	
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.02 U	0.02 U	0.145 U	0.145 UJ	0.145 U	0.145 U	0.145 U	0.145 U	0.145 U	0.145 U	
Trichloroethene	µg/L	81	0.109 J	0.221 J	0.196 J	0.126 U	0.126 UJ	0.183 J	0.15 J	0.15 J	0.15 J	0.15 J	0.15 J	
Vinyl chloride	µg/L	2.4	0.025 U	0.025 U	0.025 U	0.162 U	0.162 UJ	0.162 U	0.162 U	0.162 U	0.162 U	0.162 U	0.162 U	

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-9</i>	<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>
<i>Sample ID:</i>		<i>GW-091505-HYD-9-010</i>	<i>GW-091605-HYD-10-001</i>	<i>GW-091605-HYD-10-002</i>	<i>GW-091605-HYD-10-003</i>	<i>GW-091605-HYD-10-004</i>	<i>GW-091605-HYD-10-005</i>
<i>Sample Date:</i>		<i>9/15/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>
<i>Sample Depth:</i>		<i>92 to 95 ft bml</i>	<i>5.3 to 8.3 ft bml</i>	<i>15.3 to 18.3 ft bml</i>	<i>25.3 to 28.3 ft bml</i>	<i>35.3 to 38.3 ft bml</i>	<i>45.3 to 48.3 ft bml</i>
<i>elev_MLLW</i>		<i>-127.35 to -130.35</i>	<i>-21.9 to -24.9</i>	<i>-31.9 to -34.9</i>	<i>-41.9 to -44.9</i>	<i>-51.9 to -54.9</i>	<i>-61.9 to -64.9</i>
<i>elev_NGVD</i>		<i>-133.7 to -136.7</i>	<i>-28.2 to -31.2</i>	<i>-38.2 to -41.2</i>	<i>-48.2 to -51.2</i>	<i>-58.2 to -61.2</i>	<i>-68.2 to -71.2</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>VOAs</i>							
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U
1,1-Dichloroethene	µg/L	3.2	0.177 U	0.177 U	0.177 U	0.177 U	0.177 U
Carbon tetrachloride	µg/L	4.4	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U
Chloroform (Trichloromethane)	µg/L	470	0.181 U	0.181 U	0.181 U	0.181 U	0.181 U
cis-1,2-Dichloroethene	µg/L	16.00	0.282 J	1.15	0.154 U	0.154 U	0.452 J
Methylene chloride	µg/L	1600	0.155 U	0.155 U	0.155 U	0.155 U	0.155 U
Tetrachloroethene	µg/L	8.85	0.144 U	0.144 U	0.144 U	0.144 U	0.151 J
trans-1,2-Dichloroethene	µg/L	10000	0.145 U	0.205 J	0.145 U	0.145 U	0.145 U
Trichloroethene	µg/L	81	0.24 J	0.226 J	0.126 U	0.126 U	0.314 J
Vinyl chloride	µg/L	2.4	0.162 U	0.378 J	0.162 U	0.162 U	0.162 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>
<i>Sample ID:</i>		<i>GW-091605-HYD-10-006</i>	<i>GW-091605-HYD-10-007</i>	<i>GW-091605-HYD-10-008</i>	<i>GW-091605-HYD-10-009</i>	<i>GW-091605-HYD-10-010</i>	<i>GW-091605-HYD-10-011</i>
<i>Sample Date:</i>		<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>
<i>Sample Depth:</i>		<i>45.3 to 48.3 ft bml</i>	<i>55.3 to 58.3 ft bml</i>	<i>65.3 to 68.3 ft bml</i>	<i>75.3 to 78.3 ft bml</i>	<i>85.3 to 88.3 ft bml</i>	<i>95.3 to 98.3 ft bml</i>
<i>elev_MLLW</i>		<i>-61.9 to -64.9</i>	<i>-71.9 to -74.9</i>	<i>-81.9 to -84.9</i>	<i>-91.9 to -94.9</i>	<i>-101.9 to -104.9</i>	<i>-111.9 to -114.9</i>
<i>elev_NGVD</i>		<i>-68.2 to -71.2</i>	<i>-78.2 to -81.2</i>	<i>-88.2 to -91.2</i>	<i>-98.2 to -101.2</i>	<i>-108.2 to -111.2</i>	<i>-118.2 to -121.2</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>VOAs</i>							
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U
1,1-Dichloroethene	µg/L	3.2	0.177 U	0.177 U	0.177 U	0.177 U	0.177 U
Carbon tetrachloride	µg/L	4.4	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U
Chloroform (Trichloromethane)	µg/L	470	0.181 U	0.181 U	0.181 U	0.181 U	0.181 U
cis-1,2-Dichloroethene	µg/L	16.00	0.461 J	0.177 J	0.158 J	0.154 U	0.154 U
Methylene chloride	µg/L	1600	0.155 U	0.155 U	0.155 U	0.155 U	0.155 U
Tetrachloroethene	µg/L	8.85	0.163 J	0.144 U	0.144 U	0.144 U	0.144 U
trans-1,2-Dichloroethene	µg/L	10000	0.145 U	0.145 U	0.145 U	0.145 U	0.145 U
Trichloroethene	µg/L	81	0.282 J	0.137 J	0.126 U	0.138 J	0.126 U
Vinyl chloride	µg/L	2.4	0.162 U	0.162 U	0.162 U	0.162 U	0.162 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-10</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	
<i>Sample ID:</i>		<i>GW-091705-HYD-10-012</i>	<i>GW-122005-NL-13-001</i>	<i>GW-122005-NL-13-002</i>	<i>GW-122005-NL-13-003</i>	<i>GW-122005-NL-13-004</i>	<i>GW-122005-NL-13-005</i>	<i>GW-122105-NL-13-006</i>	
<i>Sample Date:</i>		<i>9/17/2005</i>	<i>12/20/2005</i>	<i>12/20/2005</i>	<i>12/20/2005</i>	<i>12/20/2005</i>	<i>12/20/2005</i>	<i>12/21/2005</i>	
<i>Sample Depth:</i>		<i>105.3 to 108.3 ft bml</i>	<i>0 to 3 ft bml</i>	<i>3 to 6 ft bml</i>	<i>6 to 9 ft bml</i>	<i>9 to 12 ft bml</i>	<i>12 to 15 ft bml</i>	<i>15 to 18 ft bml</i>	
<i>elev_MLLW</i>		<i>-121.9 to -124.9</i>	<i>-1.8 to -4.8</i>	<i>-4.8 to -7.8</i>	<i>-7.8 to -10.8</i>	<i>-10.8 to -13.8</i>	<i>-13.8 to -16.8</i>	<i>-16.8 to -19.8</i>	
<i>elev_NGVD</i>		<i>-128.2 to -131.2</i>	<i>-8.1 to -11.1</i>	<i>-11.1 to -14.1</i>	<i>-14.1 to -17.1</i>	<i>-17.1 to -20.1</i>	<i>-20.1 to -23.1</i>	<i>-23.1 to -26.1</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
VOAs									
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.01 U	0.01 U	0.095 U	0.095 U	0.095 U	0.0912 J
1,1,2-Trichloroethane	µg/L	42	0.0939 U	0.0935 U	0.045 U	0.045 U	0.0935 U	0.497 J	0.318 J
1,1-Dichloroethene	µg/L	3.2	0.177 U	0.0795 J	0.135 J	0.095 U	1.42	0.572	0.165 J
Carbon tetrachloride	µg/L	4.4	0.137 U	0.075 U	0.075 U	0.066 U	0.075 U	0.066 U	0.097 UJ
Chloroform (Trichloromethane)	µg/L	470	0.181 U	8.08	7.14	4.52	1.43	0.0845 U	0.0717 UJ
cis-1,2-Dichloroethene	µg/L	16.00	0.154 U	15.2	11.9	13.4	12.1	4.37	0.516 J
Methylene chloride	µg/L	1600	0.155 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.0752 UJ
Tetrachloroethene	µg/L	8.85	0.144 U	30.1	21	14.8	16.1	1.77	2.3 J
trans-1,2-Dichloroethene	µg/L	10000	0.145 U	0.253 J	0.532	1.57	1.79	0.587	0.552 J
Trichloroethene	µg/L	81	0.126 U	7.02 J	11	10.7	16.4	5.65	4.23 J
Vinyl chloride	µg/L	2.4	0.162 U	7.73	2.12	3.69	2.35	0.536	0.241 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-14</i>	<i>NL-14</i>	
<i>Sample ID:</i>		<i>GW-122105-NL-13-007</i>	<i>GW-122105-NL-13-008</i>	<i>GW-122105-NL-13-009</i>	<i>GW-122105-NL-13-010</i>	<i>GW-122105-NL-13-011</i>	<i>GW-121405-NL-14-001</i>	<i>GW-121405-NL-14-002</i>	
<i>Sample Date:</i>		<i>12/21/2005</i>	<i>12/21/2005</i>	<i>12/21/2005</i>	<i>12/21/2005</i>	<i>12/21/2005</i>	<i>12/14/2005</i>	<i>12/14/2005</i>	
<i>Sample Depth:</i>		<i>18 to 21 ft bml</i>	<i>18 to 21 ft bml</i>	<i>21 to 24 ft bml</i>	<i>24 to 27 ft bml</i>	<i>27 to 30 ft bml</i>	<i>1 to 4 ft bml</i>	<i>4 to 7 ft bml</i>	
<i>elev_MLLW</i>		<i>-19.8 to -22.8</i>	<i>-19.8 to -22.8</i>	<i>-22.8 to -25.8</i>	<i>-25.8 to -28.8</i>	<i>-28.8 to -31.8</i>	<i>-5.1 to -8.1</i>	<i>-8.1 to -11.1</i>	
<i>elev_NGVD</i>		<i>-26.1 to -29.1</i>	<i>-26.1 to -29.1</i>	<i>-29.1 to -32.1</i>	<i>-32.1 to -35.1</i>	<i>-35.1 to -38.1</i>	<i>-11.4 to -14.4</i>	<i>-14.4 to -17.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
VOAs									
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 UJ	0.068 UJ	0.068 UJ	0.068 UJ	0.068 UJ	0.01 U	0.607
1,1,2-Trichloroethane	µg/L	42	0.0627 UJ	0.0627 UJ	0.0627 UJ	0.0627 UJ	0.0627 UJ	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.0595 UJ	0.0595 UJ	0.0595 UJ	0.0595 UJ	0.0595 UJ	0.025 U	0.0975 J
Carbon tetrachloride	µg/L	4.4	0.097 UJ	0.097 UJ	0.097 UJ	0.097 UJ	0.097 UJ	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 UJ	0.0717 UJ	0.0717 UJ	0.0717 UJ	0.0717 UJ	1.32	0.544
cis-1,2-Dichloroethene	µg/L	16.00	0.275 J	0.24 J	0.149 J	0.116 J	0.0696 J	2.66	34.1
Methylene chloride	µg/L	1600	0.0752 UJ	0.0752 UJ	0.0752 UJ	0.0752 UJ	0.0752 UJ	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.24 J	0.227 J	0.173 J	0.0578 UJ	0.0578 UJ	1.62	13.8
trans-1,2-Dichloroethene	µg/L	10000	0.0584 UJ	0.0584 UJ	0.0584 UJ	0.0584 UJ	0.0584 UJ	0.114 J	2.34
Trichloroethene	µg/L	81	0.227 J	0.224 J	0.166 J	0.0641 UJ	0.0641 UJ	0.565	30.1
Vinyl chloride	µg/L	2.4	0.0604 UJ	0.0604 UJ	0.0604 UJ	0.0604 UJ	0.0604 UJ	0.243	5.52

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>NL-14</i>	<i>NL-14</i>	<i>NL-14</i>	<i>NL-14</i>	<i>NL-14</i>	<i>NL-14</i>	<i>NL-14</i>
<i>Sample ID:</i>	<i>GW-121405-NL-14-003</i>	<i>GW-121405-NL-14-004</i>	<i>GW-121405-NL-14-005</i>	<i>GW-121505-NL-14-006</i>	<i>GW-121505-NL-14-007</i>	<i>GW-121505-NL-14-008</i>	<i>GW-121505-NL-14-009</i>
<i>Sample Date:</i>	<i>12/14/2005</i>	<i>12/14/2005</i>	<i>12/14/2005</i>	<i>12/15/2005</i>	<i>12/15/2005</i>	<i>12/15/2005</i>	<i>12/15/2005</i>
<i>Sample Depth:</i>	<i>7 to 10 ft bml</i>	<i>10 to 13 ft bml</i>	<i>13 to 16 ft bml</i>	<i>16 to 19 ft bml</i>	<i>19 to 22 ft bml</i>	<i>22 to 25 ft bml</i>	<i>25 to 28 ft bml</i>
<i>elev_MLLW</i>	<i>-11.1 to -14.1</i>	<i>-14.1 to -17.1</i>	<i>-17.1 to -20.1</i>	<i>-20.1 to -23.1</i>	<i>-23.1 to -26.1</i>	<i>-26.1 to -29.1</i>	<i>-29.1 to -32.1</i>
<i>elev_NGVD</i>	<i>-17.4 to -20.4</i>	<i>-20.4 to -23.4</i>	<i>-23.4 to -26.4</i>	<i>-26.4 to -29.4</i>	<i>-29.4 to -32.4</i>	<i>-32.4 to -35.4</i>	<i>-35.4 to -38.4</i>

Parameters *Units CSI WG*

VOAs

1,1,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.0995 J	0.101 J	0.025 U	0.101 J	0.025 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.724	0.298 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	26.2	22.3	2.64	18.1	0.694	0.652	1.91
Methylene chloride	µg/L	1600	0.259 J	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	18.7	12.2	0.907	12.1	0.473 J	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	2.71	4.1	1.91	5.56	0.06 J	0.02 U	0.02 U
Trichloroethene	µg/L	81	39.5	45.5	2.45	36.3	0.666	0.538	0.02 U
Vinyl chloride	µg/L	2.4	4.17	3.74	3.73	4.73	0.129	0.025 U	0.237

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-14</i>	<i>NL-14</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>
<i>Sample ID:</i>		<i>GW-121505-NL-14-010</i>	<i>GW-121505-NL-14-011</i>	<i>GW-121605-NL-15-001</i>	<i>GW-121605-NL-15-002</i>	<i>GW-121605-NL-15-003</i>	<i>GW-121605-NL-15-004</i>	<i>GW-121605-NL-15-005</i>
<i>Sample Date:</i>		<i>12/15/2005</i>	<i>12/15/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>
<i>Sample Depth:</i>		<i>25 to 28 ft bml</i>	<i>28 to 31 ft bml</i>	<i>0 to 3 ft bml</i>	<i>3 to 6 ft bml</i>	<i>6 to 9 ft bml</i>	<i>9 to 12 ft bml</i>	<i>12 to 15 ft bml</i>
<i>elev_MLLW</i>		<i>-29.1 to -32.1</i>	<i>-32.1 to -35.1</i>	<i>-1.8 to -4.8</i>	<i>-4.8 to -7.8</i>	<i>-7.8 to -10.8</i>	<i>-10.8 to -13.8</i>	<i>-13.8 to -16.8</i>
<i>elev_NGVD</i>		<i>-35.4 to -38.4</i>	<i>-38.4 to -41.4</i>	<i>-8.1 to -11.1</i>	<i>-11.1 to -14.1</i>	<i>-14.1 to -17.1</i>	<i>-17.1 to -20.1</i>	<i>-20.1 to -23.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.025 U	0.138 J	0.115 J	0.125 J
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 U	0.453 J	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	1.86	1.18	1.05	22	18.8	16.7
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.485 J	17.3	11.5	10.5
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.02 U	0.092 J	5.04	5.59	3.92
Trichloroethene	µg/L	81	0.02 U	0.02 U	0.875	23.1	33.3	36.8
Vinyl chloride	µg/L	2.4	0.306	0.42	0.272	7.29	4.53	2.82

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-16</i>
<i>Sample ID:</i>		<i>GW-121605-NL-15-006</i>	<i>GW-121905-NL-15-007</i>	<i>GW-121905-NL-15-008</i>	<i>GW-121905-NL-15-009</i>	<i>GW-121905-NL-15-010</i>	<i>GW-051806-NL-16-BI-001</i>
<i>Sample Date:</i>		<i>12/16/2005</i>	<i>12/19/2005</i>	<i>12/19/2005</i>	<i>12/19/2005</i>	<i>12/19/2005</i>	<i>5/18/2006</i>
<i>Sample Depth:</i>		<i>15 to 18 ft bml</i>	<i>18 to 21 ft bml</i>	<i>21 to 24 ft bml</i>	<i>24 to 27 ft bml</i>	<i>27 to 30 ft bml</i>	<i>1 to 4 ft bml</i>
<i>elev_MLLW</i>		<i>-16.8 to -19.8</i>	<i>-19.8 to -22.8</i>	<i>-22.8 to -25.8</i>	<i>-25.8 to -28.8</i>	<i>-28.8 to -31.8</i>	<i>-10 to -13</i>
<i>elev_NGVD</i>		<i>-23.1 to -26.1</i>	<i>-26.1 to -29.1</i>	<i>-29.1 to -32.1</i>	<i>-32.1 to -35.1</i>	<i>-35.1 to -38.1</i>	<i>-16.3 to -19.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>VOAs</i>							
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	0.085 J	0.045 U	0.045 U	0.045 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.025 U	0.025 U	0.086 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.051 J	0.02 U	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	1.18	0.015 U	0.015 U	0.015 U	0.68 J
Methylene chloride	µg/L	1600	0.12 J	0.045 U	0.045 U	0.094 J	0.31 U
Tetrachloroethene	µg/L	8.85	0.365 J	0.06 J	0.0915 J	0.09 J	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.144 J	0.02 U	0.02 U	0.02 U	0.02 U
Trichloroethene	µg/L	81	0.535	0.02 U	0.02 U	0.02 U	0.02 U
Vinyl chloride	µg/L	2.4	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>NL-16</i>		<i>NL-16</i>		<i>NL-16</i>		<i>NL-16</i>		<i>NL-16</i>			
<i>Sample ID:</i>	<i>GW-051806-NL-16-BI-002</i>		<i>GW-051806-NL-16-BI-003</i>		<i>GW-051806-NL-16-BI-004</i>		<i>GW-051906-NL-16-BI-005</i>		<i>GW-051906-NL-16-BI-006</i>		<i>GW-051906-NL-16-BI-007</i>	
<i>Sample Date:</i>	<i>5/18/2006</i>		<i>5/18/2006</i>		<i>5/18/2006</i>		<i>5/19/2006</i>		<i>5/19/2006</i>		<i>5/19/2006</i>	
<i>Sample Depth:</i>	<i>5 to 8 ft bml</i>		<i>5 to 8 ft bml</i>		<i>8 to 11 ft bml</i>		<i>11 to 14 ft bml</i>		<i>14 to 17 ft bml</i>		<i>17 to 20 ft bml</i>	
<i>elev_MLLW</i>	<i>-14 to -17</i>		<i>-14 to -17</i>		<i>-17 to -20</i>		<i>-20 to -23</i>		<i>-23 to -26</i>		<i>-26 to -29</i>	
<i>elev_NGVD</i>	<i>-20.3 to -23.3</i>		<i>-20.3 to -23.3</i>		<i>-23.3 to -26.3</i>		<i>-26.3 to -29.3</i>		<i>-29.3 to -32.3</i>		<i>-32.3 to -35.3</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U
Carbon tetrachloride	µg/L	4.4	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	0.070 U	0.15 J	0.26 J	0.26 J	0.070 U	0.27 J	0.070 U	0.095 J	0.095 J
cis-1,2-Dichloroethene	µg/L	16.00	0.37 J	0.33 J	0.12 J	0.26 J	0.26 J	0.27 J	0.27 J	0.27 J	0.21 J	0.21 J
Methylene chloride	µg/L	1600	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Tetrachloroethene	µg/L	8.85	0.14 J	0.14 J	0.16 J	0.48 J	0.48 J	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
trans-1,2-Dichloroethene	µg/L	10000	0.14 J	0.13 J	0.092 J	0.098 J	0.098 J	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
Trichloroethene	µg/L	81	0.15 J	0.17 J	0.11 J	0.16 J	0.16 J	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U
Vinyl chloride	µg/L	2.4	0.25 J	0.26 J	0.32 J	0.95 J	0.95 J	0.35 J	0.35 J	0.35 J	1.1	1.1

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>NL-16</i>	<i>NL-17</i>	<i>NL-17</i>	<i>NL-17</i>	<i>NL-17</i>	<i>NL-17</i>
<i>Sample ID:</i>	<i>GW-051906-NL-16-BI-008</i>	<i>GW-033006-RB-NL-17-001</i>	<i>GW-033006-RB-NL-17-002</i>	<i>GW-033106-GH-NL-17-003</i>	<i>GW-033106-GH-NL-17-004</i>	<i>GW-033106-GH-NL-17-005</i>
<i>Sample Date:</i>	<i>5/19/2006</i>	<i>3/30/2006</i>	<i>3/30/2006</i>	<i>3/31/2006</i>	<i>3/31/2006</i>	<i>3/31/2006</i>
<i>Sample Depth:</i>	<i>20 to 23 ft bml</i>	<i>0 to 3 ft bml</i>	<i>3 to 6 ft bml</i>	<i>6 to 9 ft bml</i>	<i>9 to 12 ft bml</i>	<i>12 to 15 ft bml</i>
<i>elev_MLLW</i>	<i>-29 to -32</i>	<i>-1 to -4</i>	<i>-4 to -7</i>	<i>-7 to -10</i>	<i>-10 to -13</i>	<i>-13 to -16</i>
<i>elev_NGVD</i>	<i>-35.3 to -38.3</i>	<i>-7.3 to -10.3</i>	<i>-10.3 to -13.3</i>	<i>-13.3 to -16.3</i>	<i>-16.3 to -19.3</i>	<i>-19.3 to -22.3</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.081 U	0.081 U	0.41 U	0.41 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.082 U	0.082 U	0.41 U	0.41 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	0.086 U	0.086 U	0.086 U	0.43 U	0.43 U	0.086 U
Carbon tetrachloride	µg/L	4.4	0.082 U	0.082 U	0.082 U	0.41 U	0.41 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	1.5	1.7	3.1 J	3.6 J	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	0.062 U	64	76	120	170	22
Methylene chloride	µg/L	1600	0.31 U	0.31 U	0.31 U	1.5 U	1.5 U	0.31 U
Tetrachloroethene	µg/L	8.85	0.066 U	9.3	12	28	32	1.0
trans-1,2-Dichloroethene	µg/L	10000	0.091 U	1.8	2.6	10	10	3.3
Trichloroethene	µg/L	81	0.055 U	15	18	36	35	1.4 J
Vinyl chloride	µg/L	2.4	0.14 U	3.9	5.1	52	46	21

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>NL-17</i>	<i>NL-17</i>	<i>NL-23</i>	<i>NL-23</i>	<i>NL-23</i>	<i>NL-23</i>	
<i>Sample ID:</i>		<i>GW-033106-GH-NL-17-006</i>	<i>GW-033106-GH-NL-17-007</i>	<i>GW-081106-LH-NL23-001</i>	<i>GW-081106-LH-NL23-002</i>	<i>GW-081106-LH-NL23-003</i>	<i>GW-081406-LH-NL23-004</i>	
<i>Sample Date:</i>		<i>3/31/2006</i>	<i>3/31/2006</i>	<i>8/11/2006</i>	<i>8/11/2006</i>	<i>8/11/2006</i>	<i>8/14/2006</i>	
<i>Sample Depth:</i>		<i>18 to 21 ft bml</i>	<i>18 to 21 ft bml</i>	<i>0 to 3 ft bml</i>	<i>6 to 9 ft bml</i>	<i>6 to 9 ft bml</i>	<i>9 to 12 ft bml</i>	
<i>elev_MLLW</i>		<i>-19 to -22</i>	<i>-19 to -22</i>	<i>-8 to -11</i>	<i>-14 to -17</i>	<i>-14 to -17</i>	<i>-17 to -20</i>	
<i>elev_NGVD</i>		<i>-25.3 to -28.3</i>	<i>-25.3 to -28.3</i> <i>(Duplicate)</i>	<i>-14.3 to -17.3</i>	<i>-20.3 to -23.3</i>	<i>-20.3 to -23.3</i> <i>(Duplicate)</i>	<i>-23.3 to -26.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.081 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.082 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.086 U	0.086 U	0.30 U	0.30 U	0.57 J	0.30 U
Carbon tetrachloride	µg/L	4.4	0.082 U	0.082 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	0.070 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	17	17	4.5	120	150	22
Methylene chloride	µg/L	1600	0.31 U	0.31 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.14 J	0.16 J	0.15 U	3.3	5.1	0.23 J
trans-1,2-Dichloroethene	µg/L	10000	2.2	2.3	0.19 U	5.5	10	1.5
Trichloroethene	µg/L	81	0.26 J	0.32 J	0.16 U	24	20	0.79 J
Vinyl chloride	µg/L	2.4	16	16	0.23 U	24	31	43

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	NL-23		NL-23		NL-23		NL-23		NL-23			
Sample ID:	GW-081406-LH-NL23-005		GW-081406-LH-NL23-006		GW-081406-LH-NL23-007		GW-081506-LH-NL23-008		GW-081506-LH-NL23-009		GW-081506-LH-NL23-010	
Sample Date:	8/14/2006		8/14/2006		8/14/2006		8/15/2006		8/15/2006		8/15/2006	
Sample Depth:	12 to 15 ft bml		15 to 18 ft bml		15 to 18 ft bml		18 to 21 ft bml		21 to 24 ft bml		24 to 27 ft bml	
elev_MLLW	-20 to -23		-23 to -26		-23 to -26		-26 to -29		-29 to -32		-32 to -35	
elev_NGVD	-26.3 to -29.3		-29.3 to -32.3		-29.3 to -32.3		-32.3 to -35.3		-35.3 to -38.3		-38.3 to -41.3	
Parameters	Units CSI WG											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.62 J	0.54 J	0.32 J	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	9.9	28	28	16	12	12	12	12	13	13
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	1.6 J	2.1	2.1	2.1	2.1	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.34 J	0.15 U	0.15 U	0.21 J	0.15 U	0.15 U	0.15 U	0.15 U	0.29 J	0.29 J
trans-1,2-Dichloroethene	µg/L	10000	1.9	3.7	4.0	1.3 J	0.74 J	0.74 J	0.74 J	0.74 J	0.72 J	0.72 J
Trichloroethene	µg/L	81	1.1	1.6	1.6	2.4	0.64 J	0.64 J	0.64 J	0.64 J	1. J	1. J
Vinyl chloride	µg/L	2.4	19	11	11	5.2	8.4	8.4	8.4	8.4	4.5	4.5

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>NL-24</i>	<i>NL-24</i>	<i>NL-24</i>	<i>NL-24</i>	<i>NL-24</i>	<i>NL-25</i>
<i>Sample ID:</i>	<i>GW-011207-BS-NL-24-001</i>	<i>GW-011507-BS-NL-24-002</i>	<i>GW-011507-BS-NL-24-003</i>	<i>GW-011507-BS-NL-24-004</i>	<i>GW-011507-BS-NL-24-005</i>	<i>GW-011807-ILM-NL-25-001</i>
<i>Sample Date:</i>	<i>1/12/2007</i>	<i>1/15/2007</i>	<i>1/15/2007</i>	<i>1/15/2007</i>	<i>1/15/2007</i>	<i>1/18/2007</i>
<i>Sample Depth:</i>	<i>1.5 to 4.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>11.5 to 14.5 ft bml</i>	<i>16.5 to 19.5 ft bml</i>	<i>21.5 to 24.5 ft bml</i>	<i>1.5 to 4.5 ft bml</i>
<i>elev_MLLW</i>	<i>-25.89 to -28.89</i>	<i>-30.89 to -33.89</i>	<i>-35.89 to -38.89</i>	<i>-40.89 to -43.89</i>	<i>-45.89 to -48.89</i>	<i>-29 to -32</i>
<i>elev_NGVD</i>	<i>-32.2 to -35.2</i>	<i>-37.2 to -40.2</i>	<i>-42.2 to -45.2</i>	<i>-47.2 to -50.2</i>	<i>-52.2 to -55.2</i>	<i>-35.3 to -38.3</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	1.35 U	0.27 U	1.35 U	1.35 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	1.50 U	0.34 J	1.50 U	1.50 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.50 U	0.10 U	0.50 U	0.50 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.27 J	0.80 U	0.16 U	0.80 U	0.80 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	37	29	17	15	1.9 J	0.16 U
Methylene chloride	µg/L	1600	0.48 J	2.7	0.35 U	1.75 U	1.75 U	0.35 U
Tetrachloroethene	µg/L	8.85	9.5	6.7	2.0	0.75 U	0.75 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	2.8	3.9	1.7	3.2	0.95 U	0.19 U
Trichloroethene	µg/L	81	32	18	2.2	1.4 J	0.80 U	0.16 U
Vinyl chloride	µg/L	2.4	3.6	1.8 J	0.51 J	1.15 U	1.15 U	0.23 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>NL-25</i>		<i>NL-25</i>		<i>NL-25</i>		<i>NL-25</i>		<i>NL-25</i>		<i>NL-26</i>	
<i>Sample ID:</i>	<i>GW-011807-ILM-NL-25-002</i>		<i>GW-011807-ILM-NL-25-003</i>		<i>GW-011807-ILM-NL-25-004</i>		<i>GW-011807-ILM-NL-25-005</i>		<i>GW-011907-ILM-NL-25-006</i>		<i>GW-011707-ILM-NL-26-001</i>	
<i>Sample Date:</i>	<i>1/18/2007</i>		<i>1/18/2007</i>		<i>1/18/2007</i>		<i>1/18/2007</i>		<i>1/19/2007</i>		<i>1/17/2007</i>	
<i>Sample Depth:</i>	<i>6.5 to 9.5 ft bml</i>		<i>6.5 to 9.5 ft bml</i>		<i>11.5 to 14.5 ft bml</i>		<i>16.5 to 19.5 ft bml</i>		<i>21.5 to 24.5 ft bml</i>		<i>6.5 to 9.5 ft bml</i>	
<i>elev_MLLW</i>	<i>-34 to -37</i>		<i>-34 to -37</i>		<i>-39 to -42</i>		<i>-44 to -47</i>		<i>-49 to -52</i>		<i>-26.9 to -29.9</i>	
<i>elev_NGVD</i>	<i>-40.3 to -43.3</i>		<i>-40.3 to -43.3</i>		<i>-45.3 to -48.3</i>		<i>-50.3 to -53.3</i>		<i>-55.3 to -58.3</i>		<i>-33.2 to -36.2</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.43 J
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>NL-26</i>		<i>NL-26</i>		<i>NL-26</i>		<i>NL-26</i>		<i>NL-28</i>		<i>NL-28</i>	
<i>Sample ID:</i>	GW-011707-ILM-NL-26-002		GW-011807-ILM-NL-26-003		GW-011807-ILM-NL-26-004		GW-011807-ILM-NL-26-005		GW-011607-BS-NL-28-001		GW-011707-BS-NL-28-002	
<i>Sample Date:</i>	1/17/2007		1/18/2007		1/18/2007		1/18/2007		1/16/2007		1/17/2007	
<i>Sample Depth:</i>	11.5 to 14.5 ft bml		16.5 to 19.5 ft bml		16.5 to 19.5 ft bml		21.5 to 24.5 ft bml		1.5 to 3.5 ft bml		6.5 to 9.5 ft bml	
<i>elev_MLLW</i>	-31.9 to -34.9		-36.9 to -39.9		-36.9 to -39.9		-41.9 to -44.9		-4.9 to -6.9		-9.9 to -12.9	
<i>elev_NGVD</i>	-38.2 to -41.2		-43.2 to -46.2		-43.2 to -46.2		-48.2 to -51.2		-11.2 to -13.2		-16.2 to -19.2	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.25 J	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.36 J	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.78 J	0.15 U	0.61 J	0.27 J	0.30 J	0.30 J	0.30 J	0.30 J	0.26 J	0.26 J
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.26 J	0.16 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 J	0.16 J
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	1.2	1.2

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>NL-28</i>		<i>NL-28</i>		<i>NL-28</i>		<i>NL-29</i>		<i>NL-29</i>		<i>NL-29</i>	
<i>Sample ID:</i>	GW-011707-BS-NL-28-003		GW-011707-BS-NL-28-004		GW-011707-BS-NL-28-005		GW-011807-BS-NL-29-001		GW-011807-BS-NL-29-002		GW-011807-BS-NL-29-003	
<i>Sample Date:</i>	1/17/2007		1/17/2007		1/17/2007		1/18/2007		1/18/2007		1/18/2007	
<i>Sample Depth:</i>	11.5 to 14.5 ft bml		16.5 to 19.5 ft bml		21.5 to 24.5 ft bml		1.5 to 4.5 ft bml		6.5 to 9.5 ft bml		11.5 to 14.5 ft bml	
<i>elev_MLLW</i>	-14.9 to -17.9		-19.9 to -22.9		-24.9 to -27.9		-6 to -9		-11 to -14		-16 to -19	
<i>elev_NGVD</i>	-21.2 to -24.2		-26.2 to -29.2		-31.2 to -34.2		-12.3 to -15.3		-17.3 to -20.3		-22.3 to -25.3	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.29 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.33 J	0.97 J	0.16 U	0.16 U	0.32 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.96 J	0.21 J	0.24 J	0.78 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.18 J	0.16 U	0.16 U	0.29 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	3.2	5.6	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>NL-29</i>	<i>NL-29</i>	<i>NL-30</i>	<i>NL-30</i>	<i>NL-30</i>	<i>NL-30</i>
<i>Sample ID:</i>	<i>GW-011807-BS-NL-29-004</i>	<i>GW-011807-BS-NL-29-005</i>	<i>GW-011907-BS-NL-30-001</i>	<i>GW-011907-BS-NL-30-002</i>	<i>GW-011907-BS-NL-30-003</i>	<i>GW-011907-ILM-NL-30-004</i>
<i>Sample Date:</i>	<i>1/18/2007</i>	<i>1/18/2007</i>	<i>1/19/2007</i>	<i>1/19/2007</i>	<i>1/19/2007</i>	<i>1/19/2007</i>
<i>Sample Depth:</i>	<i>16.5 to 19.5 ft bml</i>	<i>21.5 to 24.5 ft bml</i>	<i>1.5 to 4.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>11.5 to 14.5 ft bml</i>	<i>16.5 to 19.5 ft bml</i>
<i>elev_MLLW</i>	<i>-21 to -24</i>	<i>-26 to -29</i>	<i>-24.75 to -27.75</i>	<i>-29.75 to -32.75</i>	<i>-34.75 to -37.75</i>	<i>-39.75 to -42.75</i>
<i>elev_NGVD</i>	<i>-27.3 to -30.3</i>	<i>-32.3 to -35.3</i>	<i>-31.1 to -34.1</i>	<i>-36.1 to -39.1</i>	<i>-41.1 to -44.1</i>	<i>-46.1 to -49.1</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.30 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>NL-30</i>	<i>1-1</i>	<i>1-2</i>	<i>1-3</i>	<i>1-4</i>	<i>2-1</i>	<i>2-2</i>	<i>2-3</i>	<i>2-4</i>	<i>3-1</i>
<i>Sample ID:</i>	<i>GW-011907-ILM-NL-30-005</i>	<i>14543</i>	<i>14544</i>	<i>14545</i>	<i>14546</i>	<i>14547</i>	<i>14548</i>	<i>14549</i>	<i>14550</i>	<i>14551</i>
<i>Sample Date:</i>	<i>1/19/2007</i>	<i>8/10/2004</i>	<i>8/10/2004</i>	<i>8/10/2004</i>	<i>8/10/2004</i>	<i>8/10/2004</i>	<i>8/10/2004</i>	<i>8/10/2004</i>	<i>8/10/2004</i>	<i>8/11/2004</i>
<i>Sample Depth:</i>	<i>21.5 to 24.5 ft bml</i>	<i>1 ft BML</i>	<i>1 ft BML</i>	<i>1 ft BML</i>	<i>1 ft BML</i>	<i>1 ft BML</i>	<i>1 ft BML</i>	<i>1 ft BML</i>	<i>1 ft BML</i>	<i>1 ft BML</i>
<i>elev_MLLW</i>	<i>-44.75 to -47.75</i>	<i>-27.67434821</i>	<i>-37.74857339</i>	<i>-39.42892423</i>	<i>-39.81020745</i>	<i>-36.63756755</i>	<i>-38.85680473</i>	<i>-39.28003269</i>	<i>-38.14432724</i>	<i>-38.39731264</i>
<i>elev_NGVD</i>	<i>-51.1 to -54.1</i>	<i>-34</i>	<i>-44.1</i>	<i>-45.7</i>	<i>-46.1</i>	<i>-43</i>	<i>-45.2</i>	<i>-45.6</i>	<i>-44.5</i>	<i>-44.7</i>

Parameters *Units CSI WG*

<i>VOAs</i>											
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	0.2 U	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	4.4	0.10 U	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1600	0.35 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	8.85	0.15 U	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	81	0.16 U	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2.4	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	3-1	3-1	3-1	3-1	3-2	3-3	3-4	4-1	4-2	4-3	4-4
Sample ID:	15393	15394	15395	15396	14552	14553	14554	14555	14556	14557	14558
Sample Date:	8/11/2004	8/11/2004	8/11/2004	8/11/2004	8/11/2004	8/11/2004	8/11/2004	8/10/2004	8/10/2004	8/10/2004	8/10/2004
Sample Depth:	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML
elev_MLLW	-38.39731264	-38.39731264	-38.39731264	-38.39731264	-39.70617223	-38.6830981	-37.17064362	-33.29906665	-43.60185258	-44.64964459	-42.69305785
elev_NGVD	-44.7	-44.7	-44.7	-44.7	-46	-45	-43.5	-39.6	-49.9	-51	-49

Parameters **Units** **CSI** **WG**

VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	16.00	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	8.85	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	10000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	81	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5-1	5-2	5-3	6-1	6-2	6-3	7-1	7-1	7-2	7-3	8-1
<i>Sample ID:</i>	14559	14560	14561	14562	14563	14564	14565	14586	14566	14567	14568
<i>Sample Date:</i>	8/10/2004	8/10/2004	8/10/2004	8/10/2004	8/10/2004	8/10/2004	8/10/2004	8/10/2004	8/10/2004	8/10/2004	8/10/2004
<i>Sample Depth:</i>	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML
<i>elev_MLLW</i>	-32.28670151	-38.85245325	-37.61358435	-31.93610037	-39.95495795	-39.36891121	-32.75152322	-32.75152322	-41.45405345	-43.52530459	-25.35518436
<i>elev_NGVD</i>	-38.6	-45.2	-43.9	-38.3	-46.3	-45.7	-39.1	-39.1	-47.8	-49.8	-31.7

(Duplicate)

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	3.3	3.1	3.4	1.0 U	1.0 U	3.1	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	16.00	1.0 U	1.0 U	1.0 U	3.1	4.6	1.2	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	8.85	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	10000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	81	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>		8-1	8-2	9-1	9-2	9-2	9-3	9-3	10-1	10-2	10-3	10-4
<i>Sample ID:</i>		14584	14569	14571	14572	14587	14573	14588	14574	14575	14576	14577
<i>Sample Date:</i>		8/10/2004	8/10/2004	8/10/2004	8/10/2004	8/10/2004	8/10/2004	8/10/2004	8/10/2004	8/10/2004	8/10/2004	8/10/2004
<i>Sample Depth:</i>		1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML	1 ft BML
<i>elev_MLLW</i>		-25.35518436	-39.80371964	-35.1678747	-40.01776791	-40.01776791	-42.4649409	-42.4649409	-34.8940002	-42.73651533	-43.81093229	-41.78556403
<i>elev_NGVD</i>		-31.7	-46.1	-41.5	-46.3	-46.3	-48.8	-48.8	-41.2	-49.1	-50.1	-48.1
						(Duplicate)		(Duplicate)				
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>									
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.8	1.8	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.9
cis-1,2-Dichloroethene	µg/L	16.00	1.0 U	1.0 U	1.1	4.8	31	113	138	1.0 U	2.7	1.4
Methylene chloride	µg/L	1600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	8.85	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	10000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.8	6.0	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	81	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2.4	1.0 U	1.8	1.9	71	75	4200	2200	2.9	3.3	3.5
												3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>10-5</i>	<i>Pier25-1</i>	<i>Pier25-1</i>	<i>Pier25-1</i>	<i>Pier25-1</i>	<i>Pier25-1</i>
<i>Sample ID:</i>	14578	GW-063005-PIER25-1-001	GW-070105-PIER25-1-002	GW-070105-PIER25-1-003	GW-070105-PIER25-1-004	GW-070505-PIER25-1-005
<i>Sample Date:</i>	8/10/2004	6/30/2005	7/1/2005	7/1/2005	7/1/2005	7/5/2005
<i>Sample Depth:</i>	1 ft BML	3 to 5 ft bml	14.5 to 16.5 ft bml	24.5 to 26.5 ft bml	24.5 to 26.5 ft bml	34.5 to 36.5 ft bml
<i>elev_MLLW</i>	-39.87961725	-40.6 to -42.6	-52.1 to -54.1	-62.1 to -64.1	-62.1 to -64.1	-72.1 to -74.1
<i>elev_NGVD</i>	-46.2	-46.9 to -48.9	-58.4 to -60.4	-68.4 to -70.4	-68.4 to -70.4	-78.4 to -80.4
<i>Parameters</i>	<i>Units CSI WG</i>					
<i>VOAs</i>						
1,1,2,2-Tetrachloroethane	µg/L	11	-	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	-	0.0939 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	1.0 U	0.177 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	-	0.137 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	1.0 U	0.181 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	3.1	0.154 U	0.0458 J	0.0433 U
Methylene chloride	µg/L	1600	1.0 U	0.155 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	-	0.144 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	1.0 U	0.145 U	0.0584 U	0.0584 U
Trichloroethene	µg/L	81	-	0.141 J	0.0803 J	0.0641 U
Vinyl chloride	µg/L	2.4	6.7	0.162 U	0.0604 U	0.0604 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-1		Pier25-1		Pier25-1		Pier25-1		Pier25-1		Pier25-2	
Sample ID:	GW-070505-PIER25-1-006		GW-072605-PIER25-1-007		GW-072605-PIER25-1-008		GW-072705-PIER25-1-009		GW-072705-PIER25-1-010		GW-071405-PIER25-2-001	
Sample Date:	7/5/2005		7/26/2005		7/26/2005		7/27/2005		7/27/2005		7/14/2005	
Sample Depth:	44.5 to 46.5 ft bml		54.5 to 56.5 ft bml		64.5 to 66.5 ft bml		74.5 to 76.5 ft bml		84.5 to 86.5 ft bml		6 to 9 ft bml	
elev_MLLW	-82.1 to -84.1		-92.1 to -94.1		-102.1 to -104.1		-112.1 to -114.1		-122.1 to -124.1		-41.2 to -44.2	
elev_NGVD	-88.4 to -90.4		-98.4 to -100.4		-108.4 to -110.4		-118.4 to -120.4		-128.4 to -130.4		-47.5 to -50.5	
Parameters	Units CSI WG											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 UJ	0.068 U	0.136 UJ	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 UJ	0.0627 U	0.125 UJ	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 UJ	0.0595 U	0.119 UJ	0.177 U	0.177 U	0.177 U	0.177 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 UJ	0.097 U	0.194 UJ	0.137 U	0.137 U	0.137 U	0.137 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 UJ	0.0717 U	0.143 UJ	0.181 U	0.181 U	0.181 U	0.181 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	0.0433 U	0.0433 UJ	0.0904 J	0.462 J	0.154 U	0.154 U	0.154 U	0.154 U	0.508 J	0.508 J
Methylene chloride	µg/L	1600	0.0752 U	0.0752 UJ	0.0752 U	0.15 UJ	0.155 U	0.155 U	0.155 U	0.155 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 UJ	0.0578 U	0.116 UJ	0.144 U	0.144 U	0.144 U	0.144 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 UJ	0.0584 U	0.117 UJ	0.145 U	0.145 U	0.145 U	0.145 U	0.0736 J	0.0736 J
Trichloroethene	µg/L	81	0.0641 U	0.0641 UJ	0.0641 U	0.128 UJ	0.126 U	0.126 U	0.126 U	0.126 U	0.106 J	0.106 J
Vinyl chloride	µg/L	2.4	0.0604 U	9.62 J	0.207 J	0.312 J	0.162 U	0.162 U	0.162 U	0.162 U	0.0604 U	0.0604 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-2</i>		<i>Pier25-2</i>		<i>Pier25-2</i>		<i>Pier25-2</i>		<i>Pier25-2</i>			
<i>Sample ID:</i>	<i>GW-071405-PIER25-2-002</i>		<i>GW-071405-PIER25-2-003</i>		<i>GW-071405-PIER25-2-004</i>		<i>GW-071505-PIER25-2-005</i>		<i>GW-071505-PIER25-2-006</i>		<i>GW-071505-PIER25-2-007</i>	
<i>Sample Date:</i>	<i>7/14/2005</i>		<i>7/14/2005</i>		<i>7/14/2005</i>		<i>7/15/2005</i>		<i>7/15/2005</i>		<i>7/15/2005</i>	
<i>Sample Depth:</i>	<i>16 to 19 ft bml</i>		<i>26 to 29 ft bml</i>		<i>36 to 39 ft bml</i>		<i>46 to 49 ft bml</i>		<i>56 to 59 ft bml</i>		<i>66 to 69 ft bml</i>	
<i>elev_MLLW</i>	<i>-51.2 to -54.2</i>		<i>-61.2 to -64.2</i>		<i>-71.2 to -74.2</i>		<i>-81.2 to -84.2</i>		<i>-91.2 to -94.2</i>		<i>-101.2 to -104.2</i>	
<i>elev_NGVD</i>	<i>-57.5 to -60.5</i>		<i>-67.5 to -70.5</i>		<i>-77.5 to -80.5</i>		<i>-87.5 to -90.5</i>		<i>-97.5 to -100.5</i>		<i>-107.5 to -110.5</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.703 J	0.0828 J	0.0828 J	0.0828 J
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	0.0804 J	0.0433 U	0.0727 J	0.0433 U	0.0433 U	0.0433 U	78.8	8.74	8.74	8.74
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0601 J	0.0601 J
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	9.91	1.02	1.02	1.02
Trichloroethene	µg/L	81	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.289 J	0.289 J	0.289 J
Vinyl chloride	µg/L	2.4	0.0604 U	0.0604 U	0.0604 U	0.0604 U	1.14	1.14	1030	45.3	45.3	45.3

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

Sample Location:	Pier25-2	Pier25-2	Pier25-2	Pier25-2	Pier25-2	Pier25-2
Sample ID:	GW-071805-PIER25-2-008	GW-071805-PIER25-2-009	GW-071905-PIER25-2-010	GW-081905-PIER25-2-011	GW-081905-PIER25-2-012	GW-081905-PIER25-2-013
Sample Date:	7/18/2005	7/18/2005	7/19/2005	8/19/2005	8/19/2005	8/19/2005
Sample Depth:	76 to 79 ft bml	86 to 89 ft bml	96 to 99 ft bml	106 to 109 ft bml	116 to 119 ft bml	126 to 129 ft bml
elev_MLLW	-111.2 to -114.2	-121.2 to -124.2	-131.2 to -134.2	-141.2 to -144.2	-151.2 to -154.2	-161.2 to -164.2
elev_NGVD	-117.5 to -120.5	-127.5 to -130.5	-137.5 to -140.5	-147.5 to -150.5	-157.5 to -160.5	-167.5 to -170.5

Parameters **Units CSI WG**

VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	68 U	6.8 U	0.34 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	178 J	29.1 J	0.6 J	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	320 J	41.6 J	0.887 J	0.0595 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	97 U	9.7 U	0.485 U	0.097 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	4760	753	11.7	0.0717 U	0.0717 U	0.259 J
cis-1,2-Dichloroethene	µg/L	16.00	53000	8240	158	1.06	0.0433 U	10.3
Methylene chloride	µg/L	1600	2430	458	6.03	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	57.8 U	5.78 U	0.289 U	0.0578 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	1320	249	3.7 J	0.0584 U	0.0584 U	0.278 J
Trichloroethene	µg/L	81	403 J	42.6 J	1.34 J	0.13 J	0.0739 J	2.31
Vinyl chloride	µg/L	2.4	14800	2120	43.3	0.0604 U	0.0604 U	2.56

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-2</i>	<i>Pier25-3</i>	<i>Pier25-3</i>	<i>Pier25-3</i>	<i>Pier25-3</i>	<i>Pier25-3</i>
<i>Sample ID:</i>	<i>GW-081905-PIER25-2-014</i>	<i>GW-081605-PIER25-3-001</i>	<i>GW-081605-PIER25-3-002</i>	<i>GW-081605-PIER25-3-003</i>	<i>GW-081605-PIER25-3-004</i>	<i>GW-081605-PIER25-3-005</i>
<i>Sample Date:</i>	<i>8/19/2005</i>	<i>8/16/2005</i>	<i>8/16/2005</i>	<i>8/16/2005</i>	<i>8/16/2005</i>	<i>8/16/2005</i>
<i>Sample Depth:</i>	<i>146 to 149 ft bml</i>	<i>36.7 to 39.7 ft bml</i>	<i>46.7 to 49.7 ft bml</i>	<i>56.7 to 59.7 ft bml</i>	<i>66.7 to 69.7 ft bml</i>	<i>76.7 to 79.7 ft bml</i>
<i>elev_MLLW</i>	<i>-181.2 to -184.2</i>	<i>-72.1 to -75.1</i>	<i>-82.1 to -85.1</i>	<i>-92.1 to -95.1</i>	<i>-102.1 to -105.1</i>	<i>-112.1 to -115.1</i>
<i>elev_NGVD</i>	<i>-187.5 to -190.5</i>	<i>-78.4 to -81.4</i>	<i>-88.4 to -91.4</i>	<i>-98.4 to -101.4</i>	<i>-108.4 to -111.4</i>	<i>-118.4 to -121.4</i>
<i>Parameters</i>	<i>Units CSI WG</i>					
<i>VOAs</i>						
1,1,2,2-Tetrachloroethane	µg/L 11	0.068 U	0.068 U	0.068 U	0.068 U	0.34 U
1,1,2-Trichloroethane	µg/L 42	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.314 U
1,1-Dichloroethene	µg/L 3.2	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.818 J
Carbon tetrachloride	µg/L 4.4	0.097 U	0.097 U	0.097 U	0.097 U	0.485 U
Chloroform (Trichloromethane)	µg/L 470	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.359 U
cis-1,2-Dichloroethene	µg/L 16.00	0.0433 U	0.0433 U	0.0505 J	0.0433 U	98.5
Methylene chloride	µg/L 1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.376 U
Tetrachloroethene	µg/L 8.85	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.289 U
trans-1,2-Dichloroethene	µg/L 10000	0.0584 U	0.0584 U	0.0584 U	0.0584 U	2.92 J
Trichloroethene	µg/L 81	0.0641 U	0.0641 U	0.0641 U	0.0641 U	0.321 U
Vinyl chloride	µg/L 2.4	0.0604 U	0.0604 U	0.0604 U	19.3	3.89
					35.6	

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	Pier25-3		Pier25-3		Pier25-3		Pier25-3		Pier25-3		Pier25-3	
Sample ID:	GW-081605-PIER25-3-006		GW-081705-PIER25-3-007		GW-081705-PIER25-3-008		GW-081705-PIER25-3-009		GW-081705-PIER25-3-010		GW-081705-PIER25-3-011	
Sample Date:	8/16/2005		8/17/2005		8/17/2005		8/17/2005		8/17/2005		8/17/2005	
Sample Depth:	86.7 to 89.7 ft bml		96.7 to 99.7 ft bml		106.7 to 109.7 ft bml		116.7 to 119.7 ft bml		126.7 to 129.7 ft bml		136.7 to 139.7 ft bml	
elev_MLLW	-122.1 to -125.1		-132.1 to -135.1		-142.1 to -145.1		-152.1 to -155.1		-162.1 to -165.1		-172.1 to -175.1	
elev_NGVD	-128.4 to -131.4		-138.4 to -141.4		-148.4 to -151.4		-158.4 to -161.4		-168.4 to -171.4		-178.4 to -181.4	
Parameters	Units CSI WG											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0722 J	0.0595 U	0.0702 J	0.0595 U	0.0702 J	0.0595 U	0.0702 J	0.0595 U	0.0702 J
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0996 J	0.0717 U	0.0996 J	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	6.12	6.99	0.246 J	11.5	0.246 J	11.5	4.4	6.12	6.99	0.246 J
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	0.201 J	0.173 J	0.0584 U	0.243 J	0.0584 U	0.243 J	0.11 J	0.201 J	0.173 J	0.0584 U
Trichloroethene	µg/L	81	0.0641 U	0.506 J	0.0641 U	1.3	0.0641 U	1.3	0.739 J	0.0641 U	0.506 J	0.0641 U
Vinyl chloride	µg/L	2.4	3.65	3.92	0.095 J	5.25	0.095 J	5.25	1.47	3.65	3.92	0.095 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:		Pier25-4	Pier25-4	Pier25-4	Pier25-4	Pier25-4	Pier25-5
Sample ID:		GW-081205-PIER25-4-001	GW-081205-PIER25-4-002	GW-081205-PIER25-4-003	GW-081205-PIER25-4-004	GW-081305-PIER25-4-005	GW-081505-PIER25-5-001
Sample Date:		8/12/2005	8/12/2005	8/12/2005	8/12/2005	8/13/2005	8/15/2005
Sample Depth:		37.1 to 40.1 ft bml	47.1 to 50.1 ft bml	67.1 to 70.1 ft bml	77.1 to 80.1 ft bml	87.1 to 90.1 ft bml	32 to 35 ft bml
elev_MLLW		-72.1 to -75.1	-82.1 to -85.1	-102.1 to -105.1	-112.1 to -115.1	-122.1 to -125.1	-73.6 to -76.6
elev_NGVD		-78.4 to -81.4	-88.4 to -91.4	-108.4 to -111.4	-118.4 to -121.4	-128.4 to -131.4	-79.9 to -82.9
Parameters	Units	CSI WG					
VOAs							
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	0.0433 U	0.0887 J	0.0657 J	0.0719 J	0.0433 U
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U
Trichloroethene	µg/L	81	0.0641 U	0.0651 J	0.0717 J	0.0667 J	0.0641 U
Vinyl chloride	µg/L	2.4	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.0604 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:		<i>Pier25-5</i>	<i>Pier25-5</i>	<i>Pier25-5</i>	<i>Pier25-5</i>	<i>Pier25-5</i>	<i>Pier25-6</i>
Sample ID:		GW-081505-PIER25-5-002	GW-081505-PIER25-5-003	GW-081605-PIER25-5-004	GW-081605-PIER25-5-005	GW-081605-PIER25-5-006	GW-020306-PIER25-6-001
Sample Date:		8/15/2005	8/15/2005	8/16/2005	8/16/2005	8/16/2005	2/3/2006
Sample Depth:		40.5 to 43.5 ft bml	50.5 to 53.5 ft bml	60.5 to 63.5 ft bml	60.5 to 63.5 ft bml	66.5 to 69.5 ft bml	0.5 to 3.5 ft bml
elev_MLLW		-82.1 to -85.1	-92.1 to -95.1	-102.1 to -105.1	-102.1 to -105.1	-108.1 to -111.1	-35.8 to -38.8
elev_NGVD		-88.4 to -91.4	-98.4 to -101.4	-108.4 to -111.4	-108.4 to -111.4 (Duplicate)	-114.4 to -117.4	-42.1 to -45.1
Parameters	Units	CSI WG					
VOAs							
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0939 U
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.177 U
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.097 U	0.097 U	0.137 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.181 U
cis-1,2-Dichloroethene	µg/L	16.00	0.0469 J	0.069 J	0.0433 U	0.0433 U	1.1
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.155 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.144 U
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.145 U
Trichloroethene	µg/L	81	0.0641 U	0.0641 U	0.0641 U	0.0641 U	1.05
Vinyl chloride	µg/L	2.4	0.0604 U	0.0604 U	0.0604 U	0.0604 U	0.162 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-6</i>		<i>Pier25-6</i>		<i>Pier25-6</i>		<i>Pier25-6</i>		<i>Pier25-6</i>			
<i>Sample ID:</i>	<i>GW-020406-PIER25-6-002</i>		<i>GW-020406-PIER25-6-003</i>		<i>GW-020406-PIER25-6-004</i>		<i>GW-020406-PIER25-6-005</i>		<i>GW-081805-PIER25-6-001</i>		<i>GW-081805-PIER25-6-002</i>	
<i>Sample Date:</i>	<i>2/4/2006</i>		<i>2/4/2006</i>		<i>2/4/2006</i>		<i>2/4/2006</i>		<i>8/18/2005</i>		<i>8/18/2005</i>	
<i>Sample Depth:</i>	<i>11 to 14 ft bml</i>		<i>21 to 24 ft bml</i>		<i>31 to 34 ft bml</i>		<i>41 to 44 ft bml</i>		<i>45.9 to 48.9 ft bml</i>		<i>55.9 to 58.9 ft bml</i>	
<i>elev_MLLW</i>	<i>-46.3 to -49.3</i>		<i>-56.3 to -59.3</i>		<i>-66.3 to -69.3</i>		<i>-76.3 to -79.3</i>		<i>-81.2 to -84.2</i>		<i>-91.2 to -94.2</i>	
<i>elev_NGVD</i>	<i>-52.6 to -55.6</i>		<i>-62.6 to -65.6</i>		<i>-72.6 to -75.6</i>		<i>-82.6 to -85.6</i>		<i>-87.5 to -90.5</i>		<i>-97.5 to -100.5</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	68 U	68 U			
1,1,2-Trichloroethane	µg/L	42	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0939 U	62.7 U	177 J			
1,1-Dichloroethene	µg/L	3.2	0.177 U	0.177 U	0.177 U	0.177 U	0.177 U	59.5 U	633 J			
Carbon tetrachloride	µg/L	4.4	0.137 U	0.137 U	0.137 U	0.137 U	0.137 U	97 U	97 U			
Chloroform (Trichloromethane)	µg/L	470	0.181 U	0.181 U	0.181 U	0.181 U	0.181 U	71.7 U	3190			
cis-1,2-Dichloroethene	µg/L	16.00	0.353 J	0.989 J	0.841 J	3.16	43.3 U	86000				
Methylene chloride	µg/L	1600	0.155 U	0.155 U	0.155 U	0.155 U	0.155 U	75.2 U	5220			
Tetrachloroethene	µg/L	8.85	0.144 U	0.144 U	0.144 U	0.144 U	0.144 U	57.8 U	57.8 U			
trans-1,2-Dichloroethene	µg/L	10000	0.145 U	0.145 U	0.145 U	0.145 U	0.145 U	58.4 U	2670			
Trichloroethene	µg/L	81	0.221 J	1.14	1.73	0.381 J	64.1 U	594 J				
Vinyl chloride	µg/L	2.4	0.162 U	0.162 U	0.162 U	8.6	7690	17700				

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

Sample Location:	Pier25-6	Pier25-6	Pier25-6	Pier25-6	Pier25-6	Pier25-6
Sample ID:	GW-081805-PIER25-6-003	GW-081805-PIER25-6-004	GW-081805-PIER25-6-005	GW-081805-PIER25-6-006	GW-081805-PIER25-6-007	GW-081905-PIER25-6-008
Sample Date:	8/18/2005	8/18/2005	8/18/2005	8/18/2005	8/18/2005	8/19/2005
Sample Depth:	65.9 to 68.9 ft bml	75.9 to 78.9 ft bml	85.9 to 88.9 ft bml	95.9 to 98.9 ft bml	105.9 to 108.9 ft bml	115.9 to 118.9 ft bml
elev_MLLW	-101.2 to -104.2	-111.2 to -114.2	-121.2 to -124.2	-131.2 to -134.2	-141.2 to -144.2	-151.2 to -154.2
elev_NGVD	-107.5 to -110.5	-117.5 to -120.5	-127.5 to -130.5	-137.5 to -140.5	-147.5 to -150.5	-157.5 to -160.5

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	68 U	0.68 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	181 J	2.11 J	0.119 J	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	448 J	5.15 J	0.519 J	0.231 J	0.086 J	0.0595 U
Carbon tetrachloride	µg/L	4.4	97 U	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	5710	48.6	1.87	0.679 J	0.499 J	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	56000	738	86.4	29.8	10.9	0.0433 U
Methylene chloride	µg/L	1600	3120	40.9	3.48	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	57.8 U	0.578 U	0.0578 U	0.0578 U	0.0736 J	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	1840	24.8	2.87	0.897 J	0.253 J	0.0584 U
Trichloroethene	µg/L	81	644 J	8.14 J	1.11	1.19	1.08	0.0641 U
Vinyl chloride	µg/L	2.4	14900	166	16.1	5.36	1.99	0.0604 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-7</i>	<i>Pier25-7</i>	<i>Pier25-7</i>	<i>Pier25-7</i>	<i>Pier25-7</i>	<i>Pier25-7</i>
<i>Sample ID:</i>	<i>GW-082405-PIER25-7-001</i>	<i>GW-082405-PIER25-7-002</i>	<i>GW-082405-PIER25-7-003</i>	<i>GW-082405-PIER25-7-004</i>	<i>GW-082405-PIER25-7-005</i>	<i>GW-082405-PIER25-7-006</i>
<i>Sample Date:</i>	<i>8/24/2005</i>	<i>8/24/2005</i>	<i>8/24/2005</i>	<i>8/24/2005</i>	<i>8/24/2005</i>	<i>8/24/2005</i>
<i>Sample Depth:</i>	<i>19.3 to 22.3 ft bml</i>	<i>29.3 to 32.3 ft bml</i>	<i>39.3 to 42.3 ft bml</i>	<i>49.3 to 52.3 ft bml</i>	<i>59.3 to 62.3 ft bml</i>	<i>69.3 to 72.3 ft bml</i>
<i>elev_MLLW</i>	<i>-61.2 to -64.2</i>	<i>-71.2 to -74.2</i>	<i>-81.2 to -84.2</i>	<i>-91.2 to -94.2</i>	<i>-101.2 to -104.2</i>	<i>-111.2 to -114.2</i>
<i>elev_NGVD</i>	<i>-67.5 to -70.5</i>	<i>-77.5 to -80.5</i>	<i>-87.5 to -90.5</i>	<i>-97.5 to -100.5</i>	<i>-107.5 to -110.5</i>	<i>-117.5 to -120.5</i>

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0939 U	0.0939 U	0.0939 U	0.0939 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.177 U	0.177 U	0.177 U	0.177 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	0.137 U	0.137 U	0.137 U	0.137 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	0.181 U	0.181 U	0.181 U	0.181 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	0.154 U	0.154 U	0.154 U	0.323 J	6.96	0.0433 U
Methylene chloride	µg/L	1600	0.155 U	0.155 U	0.155 U	0.155 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.144 U	0.144 U	0.144 U	0.144 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	0.145 U	0.145 U	0.145 U	0.145 U	0.083 J	0.0584 U
Trichloroethene	µg/L	81	0.126 U	0.126 U	0.126 U	0.126 U	0.0641 U	0.0641 U
Vinyl chloride	µg/L	2.4	0.162 U	0.162 U	0.765 J	305	16.9	0.0604 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	Pier25-7		Pier25-7		Pier25-7		Pier25-7		Pier25-7		Pier25-7	
Sample ID:	GW-082405-PIER25-7-007		GW-082405-PIER25-7-008		GW-082405-PIER25-7-009		GW-082405-PIER25-7-010		GW-082505-PIER25-7-011		GW-082505-PIER25-7-012	
Sample Date:	8/24/2005		8/24/2005		8/24/2005		8/24/2005		8/25/2005		8/25/2005	
Sample Depth:	79.3 to 82.3 ft bml		89.3 to 92.3 ft bml		99.3 to 102.3 ft bml		109.3 to 112.3 ft bml		119.3 to 122.3 ft bml		129.3 to 132.3 ft bml	
elev_MLLW	-121.2 to -124.2		-131.2 to -134.2		-141.2 to -144.2		-151.2 to -154.2		-161.2 to -164.2		-171.2 to -174.2	
elev_NGVD	-127.5 to -130.5		-137.5 to -140.5		-147.5 to -150.5		-157.5 to -160.5		-167.5 to -170.5		-177.5 to -180.5	
Parameters	Units CSI WG											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	0.0534 J	0.306 J	0.597 J	0.319 J	0.0433 U	0.264 J				
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U	0.0584 U
Trichloroethene	µg/L	81	0.0641 U	0.219 J	0.583 J	0.335 J	0.0641 U	0.136 J				
Vinyl chloride	µg/L	2.4	0.094 J	0.187 J	0.113 J	0.111 J	0.0604 U	0.0604 U				

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-8	Pier25-8	Pier25-8	Pier25-8	Pier25-8	Pier25-8
Sample ID:	GW-082505-PIER25-8-001	GW-082505-PIER25-8-002	GW-082605-PIER25-8-003	GW-082605-PIER25-8-004	GW-082605-PIER25-8-005	GW-082605-PIER25-8-006
Sample Date:	8/25/2005	8/25/2005	8/26/2005	8/26/2005	8/26/2005	8/26/2005
Sample Depth:	4 to 7 ft bml	14 to 17 ft bml	24 to 27 ft bml	34 to 47 ft bml	34 to 47 ft bml	44 to 47 ft bml
elev_MLLW	-40.1 to -43.1	-50.1 to -53.1	-60.1 to -63.1	-70.1 to -83.1	-70.1 to -83.1	-80.1 to -83.1
elev_NGVD	-46.4 to -49.4	-56.4 to -59.4	-66.4 to -69.4	-76.4 to -89.4	-76.4 to -89.4 (Duplicate)	-86.4 to -89.4
Parameters	Units CSI WG					
VOAs						
1,1,2,2-Tetrachloroethane	µg/L 11	0.068 U	0.068 U	0.068 U	0.068 U	34 U
1,1,2-Trichloroethane	µg/L 42	0.0627 U	0.0627 U	0.0627 U	0.0627 U	31.4 U
1,1-Dichloroethene	µg/L 3.2	0.0595 U	0.0595 U	0.0595 U	0.0595 U	258 J
Carbon tetrachloride	µg/L 4.4	0.097 U	0.097 U	0.097 U	0.097 U	48.5 U
Chloroform (Trichloromethane)	µg/L 470	0.0717 U	0.0717 U	0.0717 U	0.0717 U	35.9 U
cis-1,2-Dichloroethene	µg/L 16.00	0.305 J	0.25 J	0.0433 U	0.0433 U	25300
Methylene chloride	µg/L 1600	0.0752 U	0.0752 U	0.0752 U	0.0752 U	37.6 U
Tetrachloroethene	µg/L 8.85	0.0578 U	0.0578 U	0.0578 U	0.0578 U	28.9 U
trans-1,2-Dichloroethene	µg/L 10000	0.0584 U	0.0584 U	0.0584 U	0.0584 U	596
Trichloroethene	µg/L 81	0.0641 U	0.0641 U	0.0641 U	0.0641 U	32.1 U
Vinyl chloride	µg/L 2.4	0.0604 U	0.0604 U	0.0604 U	1.61	7030

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

Sample Location:	Pier25-8	Pier25-8	Pier25-8	Pier25-8	Pier25-8	Pier25-8
Sample ID:	GW-082605-PIER25-8-007	GW-082605-PIER25-8-008	GW-082605-PIER25-8-009	GW-082605-PIER25-8-010	GW-082605-PIER25-8-011	GW-082605-PIER25-8-012
Sample Date:	8/26/2005	8/26/2005	8/26/2005	8/26/2005	8/26/2005	8/26/2005
Sample Depth:	54 to 57 ft bml	64 to 67 ft bml	74 to 77 ft bml	84 to 87 ft bml	94 to 97 ft bml	104 to 107 ft bml
elev_MLLW	-90.1 to -93.1	-100.1 to -103.1	-110.1 to -113.1	-120.1 to -123.1	-130.1 to -133.1	-140.1 to -143.1
elev_NGVD	-96.4 to -99.4	-106.4 to -109.4	-116.4 to -119.4	-126.4 to -129.4	-136.4 to -139.4	-146.4 to -149.4

Parameters **Units CSI WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	13.6 U	3.4 U	0.068 U	0.068 U	0.068 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	12.5 U	3.14 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U
1,1-Dichloroethene	µg/L	3.2	109 J	9.16 J	0.219 J	0.224 J	0.0595 U	0.0595 U
Carbon tetrachloride	µg/L	4.4	19.4 U	4.85 U	0.097 U	0.097 U	0.097 U	0.097 U
Chloroform (Trichloromethane)	µg/L	470	26.2 J	3.59 U	0.0717 U	0.0717 U	0.0717 U	0.0717 U
cis-1,2-Dichloroethene	µg/L	16.00	12500	1050	35.3	28.2	0.336 J	4.75
Methylene chloride	µg/L	1600	15 U	3.76 U	0.0752 U	0.0752 U	0.0752 U	0.0752 U
Tetrachloroethene	µg/L	8.85	11.6 U	2.89 U	0.0578 U	0.0578 U	0.0578 U	0.0578 U
trans-1,2-Dichloroethene	µg/L	10000	370	32.4 J	1.15	1.1	0.0584 U	0.149 J
Trichloroethene	µg/L	81	12.8 U	3.21 U	0.0641 U	0.0641 U	0.0641 U	0.0641 U
Vinyl chloride	µg/L	2.4	5170	459	8.71	10.8	0.109 J	1.96

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-8</i>		<i>Pier25-8</i>		<i>Pier25-9</i>		<i>Pier25-9</i>		<i>Pier25-9</i>			
<i>Sample ID:</i>	<i>GW-082605-PIER25-8-013</i>		<i>GW-082605-PIER25-8-014</i>		<i>GW-102505-PIER25-9-001</i>		<i>GW-102505-PIER25-9-002</i>		<i>GW-102505-PIER25-9-003</i>		<i>GW-102505-PIER25-9-004</i>	
<i>Sample Date:</i>	<i>8/26/2005</i>		<i>8/26/2005</i>		<i>10/25/2005</i>		<i>10/25/2005</i>		<i>10/25/2005</i>		<i>10/25/2005</i>	
<i>Sample Depth:</i>	<i>114 to 117 ft bml</i>		<i>124 to 127 ft bml</i>		<i>31.5 to 34.5 ft bml</i>		<i>41.5 to 44.5 ft bml</i>		<i>41.5 to 44.5 ft bml</i>		<i>51.5 to 54.5 ft bml</i>	
<i>elev_MLLW</i>	<i>-150.1 to -153.1</i>		<i>-160.1 to -163.1</i>		<i>-71.1 to -74.1</i>		<i>-81.1 to -84.1</i>		<i>-81.1 to -84.1</i>		<i>-91.1 to -94.1</i>	
<i>elev_NGVD</i>	<i>-156.4 to -159.4</i>		<i>-166.4 to -169.4</i>		<i>-77.4 to -80.4</i>		<i>-87.4 to -90.4</i>		<i>-87.4 to -90.4</i>		<i>-97.4 to -100.4</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.068 U	0.068 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.0627 U	0.0627 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.12 J	0.0595 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.097 U	0.097 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.0717 U	0.0717 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	14.8	4.05	0.16 U	0.92 J	1.0 J	1.0 J	1.0 J	1.0 J	1.5 J	1.5 J
Methylene chloride	µg/L	1600	0.0752 U	0.0752 U	3.5 J	0.35 U	3.3 J	3.3 J	3.3 J	3.3 J	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.0578 U	0.0578 U	1.2 J	5.8	8.9	8.9	8.9	8.9	3.0 J	3.0 J
trans-1,2-Dichloroethene	µg/L	10000	0.44 J	0.131 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.34 J	0.158 J	2.2 J	23	22	22	22	22	12	12
Vinyl chloride	µg/L	2.4	4.51	1.33	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-9</i>		<i>Pier25-9</i>		<i>Pier25-9</i>		<i>Pier25-9</i>		<i>Pier25-9</i>		<i>Pier25-9</i>	
<i>Sample ID:</i>	<i>GW-102505-PIER25-9-005</i>		<i>GW-102505-PIER25-9-006</i>		<i>GW-102505-PIER25-9-007</i>		<i>GW-102505-PIER25-9-008</i>		<i>GW-102505-PIER25-9-009</i>		<i>GW-102605-PIER25-9-010</i>	
<i>Sample Date:</i>	<i>10/25/2005</i>		<i>10/25/2005</i>		<i>10/25/2005</i>		<i>10/25/2005</i>		<i>10/25/2005</i>		<i>10/26/2005</i>	
<i>Sample Depth:</i>	<i>61.5 to 64.5 ft bml</i>		<i>71.5 to 74.5 ft bml</i>		<i>71.5 to 74.5 ft bml</i>		<i>81.5 to 84.5 ft bml</i>		<i>91.5 to 94.5 ft bml</i>		<i>101.5 to 104.5 ft bml</i>	
<i>elev_MLLW</i>	<i>-101.1 to -104.1</i>		<i>-111.1 to -114.1</i>		<i>-111.1 to -114.1</i>		<i>-121.1 to -124.1</i>		<i>-131.1 to -134.1</i>		<i>-141.1 to -144.1</i>	
<i>elev_NGVD</i>	<i>-107.4 to -110.4</i>		<i>-117.4 to -120.4</i>		<i>-117.4 to -120.4</i>		<i>-127.4 to -130.4</i>		<i>-137.4 to -140.4</i>		<i>-147.4 to -150.4</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	1.2 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	2.0	1.2 J	1.1 J	8.3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	4.9	2.9	3.1	17	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-9</i>	<i>Pier25-9</i>	<i>Pier25-10</i>	<i>Pier25-10</i>	<i>Pier25-10</i>	<i>Pier25-10</i>
<i>Sample ID:</i>	<i>GW-102605-PIER25-9-011</i>	<i>GW-102605-PIER25-9-012</i>	<i>GW-102605-PIER25-10-001</i>	<i>GW-102705-PIER25-10-002</i>	<i>GW-102705-PIER25-10-003</i>	<i>GW-102705-PIER25-10-004</i>
<i>Sample Date:</i>	<i>10/26/2005</i>	<i>10/26/2005</i>	<i>10/26/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>
<i>Sample Depth:</i>	<i>111.5 to 114.5 ft bml</i>	<i>121.5 to 124.5 ft bml</i>	<i>26 to 29 ft bml</i>	<i>36 to 39 ft bml</i>	<i>46 to 49 ft bml</i>	<i>56 to 59 ft bml</i>
<i>elev_MLLW</i>	<i>-151.1 to -154.1</i>	<i>-161.1 to -164.1</i>	<i>-61.17 to -64.17</i>	<i>-71.17 to -74.17</i>	<i>-81.17 to -84.17</i>	<i>-91.17 to -94.17</i>
<i>elev_NGVD</i>	<i>-157.4 to -160.4</i>	<i>-167.4 to -170.4</i>	<i>-67.5 to -70.5</i>	<i>-77.5 to -80.5</i>	<i>-87.5 to -90.5</i>	<i>-97.5 to -100.5</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	170	
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	580	880	
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	2400	
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	57000	100000	
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	5900	
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	1700	3500	
Trichloroethene	µg/L	81	0.16 U	1.7 J	0.16 U	0.16 U	5.9	890	
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	410	18000	25000

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-10</i>	<i>Pier25-10</i>	<i>Pier25-10</i>	<i>Pier25-10</i>	<i>Pier25-10</i>	<i>Pier25-10</i>
<i>Sample ID:</i>	<i>GW-102705-PIER25-10-005</i>	<i>GW-102705-PIER25-10-006</i>	<i>GW-102705-PIER25-10-007</i>	<i>GW-102705-PIER25-10-008</i>	<i>GW-102705-PIER25-10-009</i>	<i>GW-102805-PIER25-10-010</i>
<i>Sample Date:</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/28/2005</i>
<i>Sample Depth:</i>	<i>66 to 69 ft bml</i>	<i>76 to 79 ft bml</i>	<i>86 to 89 ft bml</i>	<i>96 to 99 ft bml</i>	<i>96 to 99 ft bml</i>	<i>106 to 109 ft bml</i>
<i>elev_MLLW</i>	<i>-101.17 to -104.17</i>	<i>-111.17 to -114.17</i>	<i>-121.17 to -124.17</i>	<i>-131.17 to -134.17</i>	<i>-131.17 to -134.17</i>	<i>-141.17 to -144.17</i>
<i>elev_NGVD</i>	<i>-107.5 to -110.5</i>	<i>-117.5 to -120.5</i>	<i>-127.5 to -130.5</i>	<i>-137.5 to -140.5</i>	<i>-137.5 to -140.5</i>	<i>-147.5 to -150.5</i>

(Duplicate)

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L 11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L 42	79	1.2 J	2.4	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L 3.2	270	8.4	10	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L 4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L 470	1200	30	71	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L 16.00	31000	880	1300	2.4	2.8	14
Methylene chloride	µg/L 1600	1700	33	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L 8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L 10000	1100	29	42	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L 81	210	8.7	11	0.16 U	0.16 U	0.78 J
Vinyl chloride	µg/L 2.4	18000	300	530	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

Sample Location:	Pier25-10	Pier25-11	Pier25-11	Pier25-11	Pier25-11	Pier25-11
Sample ID:	GW-102805-PIER25-10-011	GW-100605-PIER25-11-001	GW-100605-PIER25-11-002	GW-100605-PIER25-11-003	GW-100605-PIER25-11-004	GW-100705-PIER25-11-005
Sample Date:	10/28/2005	10/6/2005	10/6/2005	10/6/2005	10/6/2005	10/7/2005
Sample Depth:	116 to 119 ft bml	25 to 28 ft bml	35 to 38 ft bml	35 to 38 ft bml	45 to 48 ft bml	55 to 58 ft bml
elev_MLLW	-151.17 to -154.17	-59.88 to -62.88	-69.88 to -72.88	-69.88 to -72.88	-79.88 to -82.88	-89.88 to -92.88
elev_NGVD	-157.5 to -160.5	-66.2 to -69.2	-76.2 to -79.2	-76.2 to -79.2	-86.2 to -89.2	-96.2 to -99.2
				<i>(Duplicate)</i>		

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.01 U	4 U	4 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.045 U	18 U	18 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.025 U	251	271	2.76	0.647
Carbon tetrachloride	µg/L	4.4	0.10 U	0.075 U	30 U	30 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.02 U	8 U	8 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	3.9	0.015 U	25000	25600	270	107
Methylene chloride	µg/L	1600	0.35 U	0.045 U	18 U	18 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.015 U	6 U	6 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.02 U	283	270	4.52	0.959
Trichloroethene	µg/L	81	0.24 J	0.02 U	8 U	8 U	0.02 U	1.21
Vinyl chloride	µg/L	2.4	0.23 U	0.025 U	18700	19100	251	56.9

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

Sample Location:	<i>Pier25-11</i>	<i>Pier25-11</i>	<i>Pier25-11</i>	<i>Pier25-11</i>	<i>Pier25-11</i>	<i>Pier25-11</i>
Sample ID:	<i>GW-100705-PIER25-11-006</i>	<i>GW-100705-PIER25-11-007</i>	<i>GW-100705-PIER25-11-008</i>	<i>GW-100705-PIER25-11-009</i>	<i>GW-100705-PIER25-11-010</i>	<i>GW-100805-PIER25-11-011</i>
Sample Date:	<i>10/7/2005</i>	<i>10/7/2005</i>	<i>10/7/2005</i>	<i>10/7/2005</i>	<i>10/7/2005</i>	<i>10/8/2005</i>
Sample Depth:	<i>65 to 68 ft bml</i>	<i>75 to 78 ft bml</i>	<i>85 to 88 ft bml</i>	<i>95 to 98 ft bml</i>	<i>105 to 108 ft bml</i>	<i>115 to 118 ft bml</i>
elev_MLLW	<i>-99.88 to -102.88</i>	<i>-109.88 to -112.88</i>	<i>-119.88 to -122.88</i>	<i>-129.88 to -132.88</i>	<i>-139.88 to -142.88</i>	<i>-149.88 to -152.88</i>
elev_NGVD	<i>-106.2 to -109.2</i>	<i>-116.2 to -119.2</i>	<i>-126.2 to -129.2</i>	<i>-136.2 to -139.2</i>	<i>-146.2 to -149.2</i>	<i>-156.2 to -159.2</i>

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ
cis-1,2-Dichloroethene	µg/L	16.00	0.388 J	2.01	7.41 J	0.249 J	0.774 J	0.143 J
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 UJ	0.045 UJ	0.045 UJ	0.045 UJ
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.158 J	0.015 UJ	0.015 UJ	0.015 UJ
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.02 U	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ
Trichloroethene	µg/L	81	0.02 U	0.396 J	2.45 J	0.02 UJ	0.313 J	0.02 UJ
Vinyl chloride	µg/L	2.4	0.124	0.84	1.88 J	0.025 UJ	0.182 J	0.025 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>
<i>Sample ID:</i>	GW-020106-PIER25-12-001	GW-020106-PIER25-12-002	GW-020106-PIER25-12-003	GW-020106-PIER25-12-004	GW-020106-PIER25-12-005	GW-020106-PIER25-12-006
<i>Sample Date:</i>	2/1/2006	2/1/2006	2/1/2006	2/1/2006	2/1/2006	2/1/2006
<i>Sample Depth:</i>	0 to 3 ft bml	10 to 13 ft bml	10 to 13 ft bml	20 to 23 ft bml	30 to 33 ft bml	40 to 43 ft bml
<i>elev_MLLW</i>	-39.7 to -42.7	-49.7 to -52.7	-49.7 to -52.7	-59.7 to -62.7	-69.7 to -72.7	-79.7 to -82.7
<i>elev_NGVD</i>	-46 to -49	-56 to -59	-56 to -59	-66 to -69	-76 to -79	-86 to -89
<i>Parameters</i>	<i>Units CSI WG</i>					
VOAs						
1,1,2,2-Tetrachloroethane	µg/L 11	0.068 U	0.068 U	0.068 U	0.068 U	6.8 U
1,1,2-Trichloroethane	µg/L 42	0.0939 U	0.0939 U	0.0939 U	0.0939 U	6.8 U
1,1-Dichloroethene	µg/L 3.2	0.177 U	0.177 U	0.177 U	0.532 J	6.8 U
Carbon tetrachloride	µg/L 4.4	0.137 U	0.137 U	0.137 U	0.137 U	13.7 U
Chloroform (Trichloromethane)	µg/L 470	0.181 U	0.181 U	0.181 U	0.181 U	13.7 U
cis-1,2-Dichloroethene	µg/L 16.00	1.76	0.289 J	0.231 J	9.33	13.7 U
Methylene chloride	µg/L 1600	0.155 U	0.155 U	0.155 U	0.155 U	13.7 U
Tetrachloroethene	µg/L 8.85	0.144 U	0.213 J	0.208 J	10.6 J	13.7 U
trans-1,2-Dichloroethene	µg/L 10000	0.145 U	0.145 U	0.145 U	0.25 J	4580
Trichloroethene	µg/L 81	0.757 J	0.607 J	0.566 J	54	1730
Vinyl chloride	µg/L 2.4	1.64	0.162 U	0.162 U	1.2	1730

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-13</i>	<i>Pier25-13</i>
<i>Sample ID:</i>	<i>GW-020106-PIER25-12-007</i>	<i>GW-020106-PIER25-12-008</i>	<i>GW-020106-PIER25-12-009</i>	<i>GW-020106-PIER25-12-010</i>	<i>GW-020206-PIER25-13-001</i>	<i>GW-020206-PIER25-13-002</i>
<i>Sample Date:</i>	<i>2/1/2006</i>	<i>2/1/2006</i>	<i>2/1/2006</i>	<i>2/1/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>
<i>Sample Depth:</i>	<i>50 to 53 ft bml</i>	<i>60 to 63 ft bml</i>	<i>70 to 73 ft bml</i>	<i>80 to 83 ft bml</i>	<i>0 to 3 ft bml</i>	<i>10 to 13 ft bml</i>
<i>elev_MLLW</i>	<i>-89.7 to -92.7</i>	<i>-99.7 to -102.7</i>	<i>-109.7 to -112.7</i>	<i>-119.7 to -122.7</i>	<i>-42.8 to -45.8</i>	<i>-52.8 to -55.8</i>
<i>elev_NGVD</i>	<i>-96 to -99</i>	<i>-106 to -109</i>	<i>-116 to -119</i>	<i>-126 to -129</i>	<i>-49.1 to -52.1</i>	<i>-59.1 to -62.1</i>

Parameters *Units CSI WG*

VOAs

1,1,2-Tetrachloroethane	µg/L 11	6.8 U	6.8 U	68 U	6.8 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L 42	9.39 U	9.39 U	93.9 U	9.39 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L 3.2	2800	1160	993 J	696	0.30 U	9.9
Carbon tetrachloride	µg/L 4.4	13.7 U	13.7 U	137 U	13.7 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L 470	55.4 J	18.1 U	181 U	18.1 U	1.6 J	1.9 J
cis-1,2-Dichloroethene	µg/L 16.00	126000	68900	47700	14900	0.16 U	420
Methylene chloride	µg/L 1600	15.5 U	175	155 U	15.5 U	0.35 U	0.35 U
Tetrachloroethene	µg/L 8.85	14.4 U	10800	463 J	3320 J	4.3 J	0.15 U
trans-1,2-Dichloroethene	µg/L 10000	2910	835	350 J	224	9.0	20
Trichloroethene	µg/L 81	577	90100	34000	108000	19	21
Vinyl chloride	µg/L 2.4	41500	21900	11000	607	62	2300

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>
<i>Sample ID:</i>	<i>GW-020206-PIER25-13-003</i>	<i>GW-020206-PIER25-13-004</i>	<i>GW-020206-PIER25-13-005</i>	<i>GW-020206-PIER25-13-006</i>	<i>GW-020206-PIER25-13-007</i>	<i>GW-020206-PIER25-13-008</i>
<i>Sample Date:</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>
<i>Sample Depth:</i>	<i>20 to 23 ft bml</i>	<i>30 to 33 ft bml</i>	<i>30 to 33 ft bml</i>	<i>40 to 43 ft bml</i>	<i>50 to 53 ft bml</i>	<i>60 to 63 ft bml</i>
<i>elev_MLLW</i>	<i>-62.8 to -65.8</i>	<i>-72.8 to -75.8</i>	<i>-72.8 to -75.8</i>	<i>-82.8 to -85.8</i>	<i>-92.8 to -95.8</i>	<i>-102.8 to -105.8</i>
<i>elev_NGVD</i>	<i>-69.1 to -72.1</i>	<i>-79.1 to -82.1</i>	<i>-79.1 to -82.1</i>	<i>-89.1 to -92.1</i>	<i>-99.1 to -102.1</i>	<i>-109.1 to -112.1</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L 11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L 42	93	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L 3.2	210	1100	930	68	970	430
Carbon tetrachloride	µg/L 4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L 470	870	6.9	6.1	7.6	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L 16.00	48000	76000	68000	2800	32000	7100
Methylene chloride	µg/L 1600	28	26	24	0.35 U	38	20
Tetrachloroethene	µg/L 8.85	15	3.5 J	3.7 J	180 J	1600	2700
trans-1,2-Dichloroethene	µg/L 10000	870	1500	1400	62	280	130
Trichloroethene	µg/L 81	33000	320	280	2100	96000	120000
Vinyl chloride	µg/L 2.4	2100	11000	9800	1500	16000	1200

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>
<i>Sample ID:</i>	<i>GW-020306-PIER25-13-009</i>	<i>GW-020306-PIER25-13-010</i>	<i>GW-020306-PIER25-13-011</i>	<i>GW-020306-PIER25-13-012</i>	<i>GW-020306-PIER25-13-013</i>	<i>GW-020306-PIER25-13-014</i>
<i>Sample Date:</i>	<i>2/3/2006</i>	<i>2/3/2006</i>	<i>2/3/2006</i>	<i>2/3/2006</i>	<i>2/3/2006</i>	<i>2/3/2006</i>
<i>Sample Depth:</i>	<i>70 to 73 ft bml</i>	<i>80 to 83 ft bml</i>	<i>90 to 93 ft bml</i>	<i>100 to 103 ft bml</i>	<i>110 to 113 ft bml</i>	<i>120 to 123 ft bml</i>
<i>elev_MLLW</i>	<i>-112.8 to -115.8</i>	<i>-122.8 to -125.8</i>	<i>-132.8 to -135.8</i>	<i>-142.8 to -145.8</i>	<i>-152.8 to -155.8</i>	<i>-162.8 to -165.8</i>
<i>elev_NGVD</i>	<i>-119.1 to -122.1</i>	<i>-129.1 to -132.1</i>	<i>-139.1 to -142.1</i>	<i>-149.1 to -152.1</i>	<i>-159.1 to -162.1</i>	<i>-169.1 to -172.1</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.068 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.0939 U
1,1-Dichloroethene	µg/L	3.2	570	190	1.9 J	1.9 J	0.30 U	0.177 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.137 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.181 U
cis-1,2-Dichloroethene	µg/L	16.00	34000	53000	160	120	34	9.34
Methylene chloride	µg/L	1600	21	19	0.35 U	0.35 U	0.35 U	0.155 U
Tetrachloroethene	µg/L	8.85	4800	0.67 J	3.8 J	12	0.15 U	0.366 J
trans-1,2-Dichloroethene	µg/L	10000	280	300	1.1 J	1.5 J	0.19 U	0.145 U
Trichloroethene	µg/L	81	61000	19	110	200	29	10.7 J
Vinyl chloride	µg/L	2.4	120	130	7.8	11	1.8 J	0.184 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

Sample Location:	<i>Pier25-14</i>	<i>Pier25-14</i>	<i>Pier25-14</i>	<i>Pier25-14</i>	<i>Pier25-14</i>	<i>Pier25-14</i>
Sample ID:	GW-111605-PIER25-14-001	GW-111605-PIER25-14-002	GW-111605-PIER25-14-003	GW-111605-PIER25-14-004	GW-111605-PIER25-14-005	GW-111605-PIER25-14-006
Sample Date:	11/16/2005	11/16/2005	11/16/2005	11/16/2005	11/16/2005	11/16/2005
Sample Depth:	24.1 to 27.1 ft bml	34.1 to 37.1 ft bml	44.1 to 47.1 ft bml	54.1 to 57.1 ft bml	54.1 to 57.1 ft bml	64.1 to 67.1 ft bml
elev_MLLW	-59.9 to -62.9	-69.9 to -72.9	-79.9 to -82.9	-89.9 to -92.9	-89.9 to -92.9	-99.9 to -102.9
elev_NGVD	-66.2 to -69.2	-76.2 to -79.2	-86.2 to -89.2	-96.2 to -99.2	-96.2 to -99.2	-106.2 to -109.2

Parameters **Units CSI WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	0.114 J	0.015 U	0.243 J	0.14 J	0.148 J	0.015 U
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Trichloroethene	µg/L	81	0.147 J	0.0765 J	0.254 J	0.277 J	0.272 J	0.02 U
Vinyl chloride	µg/L	2.4	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-14</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	
<i>Sample ID:</i>	<i>GW-111605-PIER25-14-007</i>	<i>GW-122205-PIER25-15-001</i>	<i>GW-122205-PIER25-15-002</i>	<i>GW-122205-PIER25-15-003</i>	<i>GW-113005-PIER25-15-001</i>	<i>GW-113005-PIER25-15-002</i>	
<i>Sample Date:</i>	<i>11/16/2005</i>	<i>12/22/2005</i>	<i>12/22/2005</i>	<i>12/22/2005</i>	<i>11/30/2005</i>	<i>11/30/2005</i>	
<i>Sample Depth:</i>	<i>74.1 to 77.1 ft bml</i>	<i>4.4 to 7.4 ft bml</i>	<i>14.4 to 17.4 ft bml</i>	<i>24.4 to 27.4 ft bml</i>	<i>29 to 32 ft bml</i>	<i>39 to 42 ft bml</i>	
<i>elev_MLLW</i>	<i>-109.9 to -112.9</i>	<i>-35.3 to -38.3</i>	<i>-45.3 to -48.3</i>	<i>-55.3 to -58.3</i>	<i>-59.9 to -62.9</i>	<i>-69.9 to -72.9</i>	
<i>elev_NGVD</i>	<i>-116.2 to -119.2</i>	<i>-41.6 to -44.6</i>	<i>-51.6 to -54.6</i>	<i>-61.6 to -64.6</i>	<i>-66.2 to -69.2</i>	<i>-76.2 to -79.2</i>	
Parameters	Units CSI WG						
VOAs							
1,1,2,2-Tetrachloroethane	µg/L 11	0.01 U	0.068 U	0.068 U	1.36 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L 42	0.045 U	0.0627 U	0.0627 U	1.25 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L 3.2	0.025 U	0.0595 U	0.0595 U	1.3 J	460	6.2
Carbon tetrachloride	µg/L 4.4	0.075 U	0.097 U	0.097 U	1.94 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L 470	0.02 U	0.0717 U	0.0717 U	1.43 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L 16.00	0.656	0.612 J	0.0433 U	88	41000	210
Methylene chloride	µg/L 1600	0.045 U	0.0752 U	0.0752 U	1.5 U	0.35 UJ	0.35 UJ
Tetrachloroethene	µg/L 8.85	0.015 U	0.0578 U	0.0578 U	1.16 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L 10000	0.02 U	0.0584 U	0.0584 U	1.42 J	580	24
Trichloroethene	µg/L 81	0.473 J	0.0641 U	0.0641 U	1.28 U	0.60 J	0.52 J
Vinyl chloride	µg/L 2.4	0.025 U	0.0604 U	0.0604 U	657	44000	7600

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	<i>Pier25-16</i>	<i>Pier25-16</i>
<i>Sample ID:</i>	<i>GW-113005-PIER25-15-003</i>	<i>GW-113005-PIER25-15-004</i>	<i>GW-120105-PIER25-15-005</i>	<i>GW-120105-PIER25-15-006</i>	<i>GW-121205-PIER25-16-001</i>	<i>GW-121205-PIER25-16-002</i>
<i>Sample Date:</i>	<i>11/30/2005</i>	<i>11/30/2005</i>	<i>12/1/2005</i>	<i>12/1/2005</i>	<i>12/12/2005</i>	<i>12/12/2005</i>
<i>Sample Depth:</i>	<i>49 to 52 ft bml</i>	<i>59 to 62 ft bml</i>	<i>69 to 72 ft bml</i>	<i>82 to 85 ft bml</i>	<i>2 to 5 ft bml</i>	<i>7 to 10 ft bml</i>
<i>elev_MLLW</i>	<i>-79.9 to -82.9</i>	<i>-89.9 to -92.9</i>	<i>-99.9 to -102.9</i>	<i>-112.9 to -115.9</i>	<i>-37.5 to -40.5</i>	<i>-42.5 to -45.5</i>
<i>elev_NGVD</i>	<i>-86.2 to -89.2</i>	<i>-96.2 to -99.2</i>	<i>-106.2 to -109.2</i>	<i>-119.2 to -122.2</i>	<i>-43.8 to -46.8</i>	<i>-48.8 to -51.8</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	30	6.9	0.16 U	0.16 U	0.498 J	0.589
Methylene chloride	µg/L	1600	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	0.97 J	0.19 U	0.19 U	0.19 U	0.02 U	0.02 U
Trichloroethene	µg/L	81	0.34 J	0.54 J	0.16 U	0.16 U	0.117 J	0.231 J
Vinyl chloride	µg/L	2.4	41	12	0.23 U	0.23 U	0.243	0.23

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-16</i>	<i>Pier25-16</i>	<i>Pier25-16</i>	<i>Pier25-16</i>	<i>Pier25-16</i>	<i>Pier25-16</i>
<i>Sample ID:</i>	<i>GW-121205-PIER25-16-003</i>	<i>GW-112205-PIER25-16-007</i>	<i>GW-112205-PIER25-16-008</i>	<i>GW-112205-PIER25-16-009</i>	<i>GW-112205-PIER25-16-010</i>	<i>GW-112205-PIER25-16-011</i>
<i>Sample Date:</i>	<i>12/12/2005</i>	<i>11/22/2005</i>	<i>11/22/2005</i>	<i>11/22/2005</i>	<i>11/22/2005</i>	<i>11/22/2005</i>
<i>Sample Depth:</i>	<i>14.4 to 17.4 ft bml</i>	<i>74.4 to 77.4 ft bml</i>	<i>84.4 to 87.4 ft bml</i>	<i>94.4 to 97.4 ft bml</i>	<i>104.4 to 107.4 ft bml</i>	<i>114.4 to 117.4 ft bml</i>
<i>elev_MLLW</i>	<i>-49.9 to -52.9</i>	<i>-109.9 to -112.9</i>	<i>-119.9 to -122.9</i>	<i>-129.9 to -132.9</i>	<i>-139.9 to -142.9</i>	<i>-149.9 to -152.9</i>
<i>elev_NGVD</i>	<i>-56.2 to -59.2</i>	<i>-116.2 to -119.2</i>	<i>-126.2 to -129.2</i>	<i>-136.2 to -139.2</i>	<i>-146.2 to -149.2</i>	<i>-156.2 to -159.2</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L 11	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L 42	0.045 U	0.9 U	0.09 U	0.045 U	0.187 J	0.045 U
1,1-Dichloroethene	µg/L 3.2	0.025 U	2.73 J	1.1	0.285 J	0.943	0.025 U
Carbon tetrachloride	µg/L 4.4	0.075 U	1.5 U	0.15 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L 470	0.02 U	6.18 J	0.704 J	0.265 J	4.18	0.355 J
cis-1,2-Dichloroethene	µg/L 16.00	1.03	472	95.7	23.3	126	10.5
Methylene chloride	µg/L 1600	0.045 U	0.9 U	0.09 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L 8.85	0.015 U	0.3 U	1.14	0.0985 J	0.134 J	0.0955 J
trans-1,2-Dichloroethene	µg/L 10000	0.02 U	9.45 J	4.57	0.989	2.79	0.135 J
Trichloroethene	µg/L 81	0.099 J	0.4 U	0.265 J	0.141 J	0.588	0.114 J
Vinyl chloride	µg/L 2.4	0.506	1870	525	101	94.1	2.57

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-17</i>	<i>Pier25-17</i>	<i>Pier25-17</i>	<i>Pier25-17</i>	<i>Pier25-17</i>	<i>Pier25-17</i>
<i>Sample ID:</i>	<i>GW-121205-PIER25-17-001</i>	<i>GW-121205-PIER25-17-002</i>	<i>GW-121205-PIER25-17-003</i>	<i>GW-111705-PIER25-17-001</i>	<i>GW-111705-PIER25-17-002</i>	<i>GW-111705-PIER25-17-003</i>
<i>Sample Date:</i>	<i>12/12/2005</i>	<i>12/12/2005</i>	<i>12/12/2005</i>	<i>11/17/2005</i>	<i>11/17/2005</i>	<i>11/17/2005</i>
<i>Sample Depth:</i>	<i>6.1 to 9.1 ft bml</i>	<i>15.5 to 18.5 ft bml</i>	<i>25.5 to 28.5 ft bml</i>	<i>33.7 to 36.7 ft bml</i>	<i>43.7 to 46.7 ft bml</i>	<i>53.7 to 56.7 ft bml</i>
<i>elev_MLLW</i>	<i>-43.6 to -46.6</i>	<i>-53 to -56</i>	<i>-63 to -66</i>	<i>-71.2 to -74.2</i>	<i>-81.2 to -84.2</i>	<i>-91.2 to -94.2</i>
<i>elev_NGVD</i>	<i>-49.9 to -52.9</i>	<i>-59.3 to -62.3</i>	<i>-69.3 to -72.3</i>	<i>-77.5 to -80.5</i>	<i>-87.5 to -90.5</i>	<i>-97.5 to -100.5</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L 11	0.01 U	0.01 U	2 U	0.27 U	0.27 U	0.27 U	
1,1,2-Trichloroethane	µg/L 42	0.045 U	0.045 U	108	390	4.8 J	0.2 U	
1,1-Dichloroethene	µg/L 3.2	0.025 U	0.0885 J	333	450	550 J	2000 J	
Carbon tetrachloride	µg/L 4.4	0.075 U	0.075 U	15 U	0.10 U	0.10 U	0.10 U	
Chloroform (Trichloromethane)	µg/L 470	0.02 U	0.02 U	444	2500	9.9 J	6.5	
cis-1,2-Dichloroethene	µg/L 16.00	0.42 J	1.14	54000	100000	60000	120000	
Methylene chloride	µg/L 1600	0.045 U	0.045 U	9 U	6900	30 J	56	
Tetrachloroethene	µg/L 8.85	0.015 U	0.015 U	3 U	13	0.15 U	13	
trans-1,2-Dichloroethene	µg/L 10000	0.02 U	0.868	1280	6000	650 J	2100 J	
Trichloroethene	µg/L 81	0.02 U	0.02 U	1440	22000	70 J	1900 J	
Vinyl chloride	µg/L 2.4	0.357		22.2	19800	4000	15000	46000

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-17</i>	<i>Pier25-17</i>	<i>Pier25-17</i>	<i>Pier25-17</i>	<i>Pier25-17</i>	<i>Pier25-18</i>
<i>Sample ID:</i>	<i>GW-111705-PIER25-17-004</i>	<i>GW-111705-PIER25-17-005</i>	<i>GW-111705-PIER25-17-006</i>	<i>GW-111705-PIER25-17-007</i>	<i>GW-112105-PIER25-17-008</i>	<i>GW-120805-PIER25-18-001</i>
<i>Sample Date:</i>	<i>11/17/2005</i>	<i>11/17/2005</i>	<i>11/17/2005</i>	<i>11/17/2005</i>	<i>11/21/2005</i>	<i>12/8/2005</i>
<i>Sample Depth:</i>	<i>63.7 to 66.7 ft bml</i>	<i>73.7 to 76.7 ft bml</i>	<i>83.7 to 86.7 ft bml</i>	<i>93.7 to 96.7 ft bml</i>	<i>103.7 to 106.7 ft bml</i>	<i>2 to 5 ft bml</i>
<i>elev_MLLW</i>	<i>-101.2 to -104.2</i>	<i>-111.2 to -114.2</i>	<i>-121.2 to -124.2</i>	<i>-131.2 to -134.2</i>	<i>-141.2 to -144.2</i>	<i>-36.5 to -39.5</i>
<i>elev_NGVD</i>	<i>-107.5 to -110.5</i>	<i>-117.5 to -120.5</i>	<i>-127.5 to -130.5</i>	<i>-137.5 to -140.5</i>	<i>-147.5 to -150.5</i>	<i>-42.8 to -45.8</i>

Parameters *Units CSI WG*

VOAs

1,1,2-Tetrachloroethane	µg/L	11	0.27 U	R	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	6.6	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	730	880	82	0.34 J	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	39	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	22000	25000	4400	27	2.9 J	1.8 J
Methylene chloride	µg/L	1600	170	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.41 J	25	0.15 U	0.39 J	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	610	720	180	0.40 J	0.19 U	0.19 U
Trichloroethene	µg/L	81	1000	7700	61	2.6 J	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	7400	15000	26000	8.9	6.0	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-18</i>		<i>Pier25-18</i>		<i>Pier25-18</i>		<i>Pier25-18</i>		<i>Pier25-18</i>			
<i>Sample ID:</i>	GW-120805-PIER25-18-002		GW-120805-PIER25-18-003		GW-120805-PIER25-18-004		GW-120805-PIER25-18-005		GW-120905-PIER25-18-006		GW-120905-PIER25-18-007	
<i>Sample Date:</i>	12/8/2005		12/8/2005		12/8/2005		12/9/2005		12/9/2005		12/9/2005	
<i>Sample Depth:</i>	12 to 15 ft bml		12 to 15 ft bml		22 to 25 ft bml		32 to 35 ft bml		42 to 45 ft bml		52 to 55 ft bml	
<i>elev_MLLW</i>	-46.5 to -49.5		-46.5 to -49.5		-56.5 to -59.5		-66.5 to -69.5		-76.5 to -79.5		-86.5 to -89.5	
<i>elev_NGVD</i>	-52.8 to -55.8		-52.8 to -55.8		-62.8 to -65.8		-72.8 to -75.8		-82.8 to -85.8		-92.8 to -95.8	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 UJ	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.68 J	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	2.1 J	2.4 J	2400	2800 J	1300	580				
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 UJ	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	20	21	110000	150000	110000	31000				
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	R	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 UJ	1.4 J	0.54 J				
trans-1,2-Dichloroethene	µg/L	10000	7.7	8.4	2500	3800 J	1100	950				
Trichloroethene	µg/L	81	0.16 U	0.16 U	6.2	0.16 U	19	62				
Vinyl chloride	µg/L	2.4	790	830	67000	72000	200000	110000				

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>
<i>Sample ID:</i>	<i>GW-120905-PIER25-18-008</i>	<i>GW-120905-PIER25-18-009</i>	<i>GW-120905-PIER25-18-010</i>	<i>GW-120905-PIER25-18-011</i>	<i>GW-120905-PIER25-18-012</i>	<i>GW-120905-PIER25-18-013</i>
<i>Sample Date:</i>	<i>12/9/2005</i>	<i>12/9/2005</i>	<i>12/9/2005</i>	<i>12/9/2005</i>	<i>12/9/2005</i>	<i>12/9/2005</i>
<i>Sample Depth:</i>	<i>62 to 65 ft bml</i>	<i>72 to 75 ft bml</i>	<i>82 to 85 ft bml</i>	<i>92 to 95 ft bml</i>	<i>102 to 105 ft bml</i>	<i>112 to 115 ft bml</i>
<i>elev_MLLW</i>	<i>-96.5 to -99.5</i>	<i>-106.5 to -109.5</i>	<i>-116.5 to -119.5</i>	<i>-126.5 to -129.5</i>	<i>-136.5 to -139.5</i>	<i>-146.5 to -149.5</i>
<i>elev_NGVD</i>	<i>-102.8 to -105.8</i>	<i>-112.8 to -115.8</i>	<i>-122.8 to -125.8</i>	<i>-132.8 to -135.8</i>	<i>-142.8 to -145.8</i>	<i>-152.8 to -155.8</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 UJ	0.27 UJ
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	560 J	550	4.4 J	3.6 J	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	64 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	11000	31000	170	190	0.16 U	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	2600	980	11	5.7	0.57 J	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	260 J	260	39	4.5 J	0.19 U	0.19 U
Trichloroethene	µg/L	81	97000	52000	270	190	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	1400	230	15000	240	0.23 U	15

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-18</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>
<i>Sample ID:</i>	<i>GW-120905-PIER25-18-014</i>	<i>GW-120705-PIER25-19-001</i>	<i>GW-120705-PIER25-19-002</i>	<i>GW-120705-PIER25-19-003</i>	<i>GW-120705-PIER25-19-005</i>	<i>GW-120705-PIER25-19-006</i>
<i>Sample Date:</i>	<i>12/9/2005</i>	<i>12/7/2005</i>	<i>12/7/2005</i>	<i>12/7/2005</i>	<i>12/7/2005</i>	<i>12/7/2005</i>
<i>Sample Depth:</i>	<i>122 to 125 ft bml</i>	<i>2.6 to 5.6 ft bml</i>	<i>12.6 to 15.6 ft bml</i>	<i>22.6 to 25.6 ft bml</i>	<i>42.6 to 45.6 ft bml</i>	<i>52.6 to 55.6 ft bml</i>
<i>elev_MLLW</i>	<i>-156.5 to -159.5</i>	<i>-39.2 to -42.2</i>	<i>-49.2 to -52.2</i>	<i>-59.2 to -62.2</i>	<i>-79.2 to -82.2</i>	<i>-89.2 to -92.2</i>
<i>elev_NGVD</i>	<i>-162.8 to -165.8</i>	<i>-45.5 to -48.5</i>	<i>-55.5 to -58.5</i>	<i>-65.5 to -68.5</i>	<i>-85.5 to -88.5</i>	<i>-95.5 to -98.5</i>
Parameters	Units CSI WG					
VOAs						
1,1,2,2-Tetrachloroethane	µg/L 11	0.27 UJ	0.01 U	0.01 U	0.2 U	4 U
1,1,2-Trichloroethane	µg/L 42	0.2 U	0.045 U	0.045 U	0.9 U	18 U
1,1-Dichloroethene	µg/L 3.2	0.30 U	0.025 U	0.025 U	0.5 U	1560
Carbon tetrachloride	µg/L 4.4	0.10 U	0.075 U	0.075 U	1.5 U	30 U
Chloroform (Trichloromethane)	µg/L 470	0.16 U	0.02 U	0.02 U	0.4 U	8 U
cis-1,2-Dichloroethene	µg/L 16.00	0.16 U	0.727	2.55	40.2	121000
Methylene chloride	µg/L 1600	0.35 U	0.045 U	0.045 U	0.9 U	18 U
Tetrachloroethene	µg/L 8.85	0.15 U	0.0605 J	0.015 U	0.3 U	6 U
trans-1,2-Dichloroethene	µg/L 10000	0.19 U	0.02 U	0.02 U	6.36 J	1450
Trichloroethene	µg/L 81	0.16 U	0.051 J	0.02 U	0.4 U	8 U
Vinyl chloride	µg/L 2.4	0.23 U	0.273	105	3250	69900
						3580

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>
<i>Sample ID:</i>	<i>GW-120705-PIER25-19-007</i>	<i>GW-120705-PIER25-19-008</i>	<i>GW-120705-PIER25-19-009</i>	<i>GW-120805-PIER25-19-010</i>	<i>GW-120805-PIER25-19-011</i>	<i>GW-120805-PIER25-19-012</i>
<i>Sample Date:</i>	<i>12/7/2005</i>	<i>12/7/2005</i>	<i>12/7/2005</i>	<i>12/8/2005</i>	<i>12/8/2005</i>	<i>12/8/2005</i>
<i>Sample Depth:</i>	<i>62.6 to 65.6 ft bml</i>	<i>72.6 to 75.6 ft bml</i>	<i>82.6 to 85.6 ft bml</i>	<i>92.6 to 95.6 ft bml</i>	<i>102.6 to 105.6 ft bml</i>	<i>112.6 to 115.6 ft bml</i>
<i>elev_MLLW</i>	<i>-99.2 to -102.2</i>	<i>-109.2 to -112.2</i>	<i>-119.2 to -122.2</i>	<i>-129.2 to -132.2</i>	<i>-139.2 to -142.2</i>	<i>-149.2 to -152.2</i>
<i>elev_NGVD</i>	<i>-105.5 to -108.5</i>	<i>-115.5 to -118.5</i>	<i>-125.5 to -128.5</i>	<i>-135.5 to -138.5</i>	<i>-145.5 to -148.5</i>	<i>-155.5 to -158.5</i>

Parameters *Units CSI WG*

VOAs

1,1,2-Tetrachloroethane	µg/L 11	4 U	0.2 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L 42	18 U	0.9 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L 3.2	741	25.9	3.3	0.025 U	0.025 U	0.357 J
Carbon tetrachloride	µg/L 4.4	30 U	1.5 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L 470	8 U	0.4 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L 16.00	66200	2220	286	1.26	2.74	52.7
Methylene chloride	µg/L 1600	25.8 J	0.9 U	0.045 U	0.045 U	0.088 J	0.0525 J
Tetrachloroethene	µg/L 8.85	6 U	0.3 U	0.098 J	0.015 U	0.056 J	0.105 J
trans-1,2-Dichloroethene	µg/L 10000	922	34.2	5.05	0.02 U	0.02 U	1.02
Trichloroethene	µg/L 81	828 J	47.6	0.557	0.02 U	0.0825 J	0.276 J
Vinyl chloride	µg/L 2.4	72300	2250	163	1.24	1.9	74.5

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-20</i>	<i>Pier25-20</i>	<i>Pier25-20</i>	<i>Pier25-20</i>	<i>Pier25-20</i>	<i>Pier25-20</i>
<i>Sample ID:</i>	<i>GW-120605-PIER25-20-001</i>	<i>GW-120605-PIER25-20-002</i>	<i>GW-120605-PIER25-20-003</i>	<i>GW-120605-PIER25-20-004</i>	<i>GW-120605-PIER25-20-005</i>	<i>GW-120605-PIER25-20-006</i>
<i>Sample Date:</i>	<i>12/6/2005</i>	<i>12/6/2005</i>	<i>12/6/2005</i>	<i>12/6/2005</i>	<i>12/6/2005</i>	<i>12/6/2005</i>
<i>Sample Depth:</i>	<i>2 to 5 ft bml</i>	<i>12 to 15 ft bml</i>	<i>12 to 15 ft bml</i>	<i>20 to 23 ft bml</i>	<i>30 to 33 ft bml</i>	<i>40 to 43 ft bml</i>
<i>elev_MLLW</i>	<i>-31.9 to -34.9</i>	<i>-41.9 to -44.9</i>	<i>-41.9 to -44.9</i>	<i>-49.9 to -52.9</i>	<i>-59.9 to -62.9</i>	<i>-69.9 to -72.9</i>
<i>elev_NGVD</i>	<i>-38.2 to -41.2</i>	<i>-48.2 to -51.2</i>	<i>-48.2 to -51.2</i>	<i>-56.2 to -59.2</i>	<i>-66.2 to -69.2</i>	<i>-76.2 to -79.2</i>
			<i>(Duplicate)</i>			
Parameters	Units CSI WG					
VOAs						
1,1,2,2-Tetrachloroethane	µg/L 11	0.27 U	0.27 U	0.27 UJ	0.27 UJ	0.27 U
1,1,2-Trichloroethane	µg/L 42	0.2 U	0.2 U	0.2 U	0.2 U	9.9
1,1-Dichloroethene	µg/L 3.2	0.30 U	0.30 U	0.30 U	0.30 U	170
Carbon tetrachloride	µg/L 4.4	0.10 U	0.10 U	0.10 U	0.10 U	770
Chloroform (Trichloromethane)	µg/L 470	0.16 U	0.16 U	1.9 J	2.3 J	38
cis-1,2-Dichloroethene	µg/L 16.00	0.16 U	0.16 U	0.16 U	36	14000
Methylene chloride	µg/L 1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L 8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L 10000	0.19 U	0.19 U	0.19 U	3.4 J	270 J
Trichloroethene	µg/L 81	0.16 U	0.16 U	0.16 U	0.16 U	1.3 J
Vinyl chloride	µg/L 2.4	0.23 U				2.8 J
			69	76	6600	25000
						17000

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-20</i>	<i>Pier25-20</i>	<i>Pier25-20</i>	<i>Pier25-20</i>	<i>Pier25-20</i>	<i>Pier25-20</i>
<i>Sample ID:</i>	<i>GW-120605-PIER25-20-007</i>	<i>GW-120605-PIER25-20-008</i>	<i>GW-120605-PIER25-20-009</i>	<i>GW-120605-PIER25-20-010</i>	<i>GW-120605-PIER25-20-011</i>	<i>GW-120605-PIER25-20-012</i>
<i>Sample Date:</i>	<i>12/6/2005</i>	<i>12/6/2005</i>	<i>12/6/2005</i>	<i>12/6/2005</i>	<i>12/6/2005</i>	<i>12/6/2005</i>
<i>Sample Depth:</i>	<i>50 to 53 ft bml</i>	<i>60 to 63 ft bml</i>	<i>70 to 73 ft bml</i>	<i>80 to 82 ft bml</i>	<i>90 to 93 ft bml</i>	<i>100 to 103 ft bml</i>
<i>elev_MLLW</i>	<i>-79.9 to -82.9</i>	<i>-89.9 to -92.9</i>	<i>-99.9 to -102.9</i>	<i>-109.9 to -111.9</i>	<i>-119.9 to -122.9</i>	<i>-129.9 to -132.9</i>
<i>elev_NGVD</i>	<i>-86.2 to -89.2</i>	<i>-96.2 to -99.2</i>	<i>-106.2 to -109.2</i>	<i>-116.2 to -118.2</i>	<i>-126.2 to -129.2</i>	<i>-136.2 to -139.2</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 UJ	0.27 UJ	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	23	1.2 J	0.30 U	0.76 J	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	3.4 J	0.16 U	0.16 U	2.4 J	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	1900	130	9.2	64	5.0	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 UJ	0.35 UJ	0.35 UJ
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 J	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	52	3.4 J	0.35 J	2.4 J	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.67 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	1300	55	4.1 J	36	2.5 J	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-21	Pier25-21	Pier25-21	Pier25-21	Pier25-21	Pier25-21
Sample ID:	GW-010306-PIER25-21-001	GW-010306-PIER25-21-002	GW-010306-PIER25-21-003	GW-010306-PIER25-21-004	GW-010306-PIER25-21-005	GW-010406-PIER25-21-006
Sample Date:	1/3/2006	1/3/2006	1/3/2006	1/3/2006	1/3/2006	1/4/2006
Sample Depth:	0.5 to 3.5 ft bml	10.5 to 13.5 ft bml	20.5 to 23.5 ft bml	20.5 to 23.5 ft bml	30.5 to 33.5 ft bml	50.5 to 53.5 ft bml
elev_MLLW	-32 to -35	-42 to -45	-52 to -55	-52 to -55	-62 to -65	-82 to -85
elev_NGVD	-38.3 to -41.3	-48.3 to -51.3	-58.3 to -61.3	-58.3 to -61.3	-68.3 to -71.3	-88.3 to -91.3

Parameters	Units	CSI	WG				
VOAs							
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 UJ	0.2 U	0.2 UJ	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	1.5 J
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-21</i>	<i>Pier25-21</i>	<i>Pier25-21</i>	<i>Pier25-21</i>	<i>Pier25-22</i>	<i>Pier25-22</i>
<i>Sample ID:</i>	<i>GW-010406-PIER25-21-007</i>	<i>GW-010406-PIER25-21-008</i>	<i>GW-010406-PIER25-21-009</i>	<i>GW-010406-PIER25-21-010</i>	<i>GW-011706-PIER25-22-001</i>	<i>GW-011706-PIER25-22-002</i>
<i>Sample Date:</i>	<i>1/4/2006</i>	<i>1/4/2006</i>	<i>1/4/2006</i>	<i>1/4/2006</i>	<i>1/17/2006</i>	<i>1/17/2006</i>
<i>Sample Depth:</i>	<i>60.5 to 63.5 ft bml</i>	<i>70.5 to 73.5 ft bml</i>	<i>80.5 to 83.5 ft bml</i>	<i>90.5 to 93.5 ft bml</i>	<i>0.5 to 3.5 ft bml</i>	<i>10.1 to 13.1 ft bml</i>
<i>elev_MLLW</i>	<i>-92 to -95</i>	<i>-102 to -105</i>	<i>-112 to -115</i>	<i>-122 to -125</i>	<i>-12.5 to -15.5</i>	<i>-22.1 to -25.1</i>
<i>elev_NGVD</i>	<i>-98.3 to -101.3</i>	<i>-108.3 to -111.3</i>	<i>-118.3 to -121.3</i>	<i>-128.3 to -131.3</i>	<i>-18.8 to -21.8</i>	<i>-28.4 to -31.4</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 UJ	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	2.5 J	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

Sample Location:	Pier25-22	Pier25-22	Pier25-22	Pier25-22	Pier25-22	Pier25-22
Sample ID:	GW-011706-PIER25-22-003	GW-011706-PIER25-22-004	GW-011806-PIER25-22-005	GW-011806-PIER25-22-006	GW-011806-PIER25-22-007	GW-011806-PIER25-22-008
Sample Date:	1/17/2006	1/17/2006	1/18/2006	1/18/2006	1/18/2006	1/18/2006
Sample Depth:	20.1 to 23.1 ft bml	30.1 to 33.1 ft bml	40.1 to 43.1 ft bml	50.1 to 53.1 ft bml	50.1 to 53.1 ft bml	60.1 to 63.1 ft bml
elev_MLLW	-32.1 to -35.1	-42.1 to -45.1	-52.1 to -55.1	-62.1 to -65.1	-62.1 to -65.1	-72.1 to -75.1
elev_NGVD	-38.4 to -41.4	-48.4 to -51.4	-58.4 to -61.4	-68.4 to -71.4	-68.4 to -71.4	-78.4 to -81.4

(Duplicate)

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	2.2 J	3.5 J
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	51	180	200
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	5.1
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	2400	14000	15000
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	140	630	680
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	2.3 J	2.3 J
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	29000	17000	18000
							79

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-22</i>		<i>Pier25-22</i>		<i>Pier25-22</i>		<i>Pier25-22</i>		<i>Pier25-22</i>		<i>Pier25-23</i>	
<i>Sample ID:</i>	GW-011806-PIER25-22-009		GW-011806-PIER25-22-010		GW-011806-PIER25-22-011		GW-011806-PIER25-22-012		GW-011806-PIER25-22-013		GW-011106-PIER25-23-001	
<i>Sample Date:</i>	1/18/2006		1/18/2006		1/18/2006		1/18/2006		1/18/2006		1/11/2006	
<i>Sample Depth:</i>	70.1 to 73.1 ft bml		80.1 to 83.1 ft bml		90.1 to 93.1 ft bml		100.1 to 103.1 ft bml		110.1 to 113.1 ft bml		2 to 5 ft bml	
<i>elev_MLLW</i>	-82.1 to -85.1		-92.1 to -95.1		-102.1 to -105.1		-112.1 to -115.1		-122.1 to -125.1		-12.4 to -15.4	
<i>elev_NGVD</i>	-88.4 to -91.4		-98.4 to -101.4		-108.4 to -111.4		-118.4 to -121.4		-128.4 to -131.4		-18.7 to -21.7	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	24	11	0.16 U	0.16 U	1.1 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	100	24	0.23 U	0.23 U	2.9 J	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-23</i>		<i>Pier25-23</i>		<i>Pier25-23</i>		<i>Pier25-23</i>		<i>Pier25-23</i>		<i>Pier25-23</i>			
<i>Sample ID:</i>	GW-011106-PIER25-23-002		GW-011106-PIER25-23-003		GW-011106-PIER25-23-004		GW-011106-PIER25-23-005		GW-011106-PIER25-23-006		GW-011106-PIER25-23-007			
<i>Sample Date:</i>	1/11/2006		1/11/2006		1/11/2006		1/11/2006		1/11/2006		1/11/2006			
<i>Sample Depth:</i>	13 to 16 ft bml		23 to 26 ft bml		23 to 26 ft bml		33 to 36 ft bml		43 to 46 ft bml		53 to 56 ft bml			
<i>elev_MLLW</i>	-23.4 to -26.4		-33.4 to -36.4		-33.4 to -36.4		-43.4 to -46.4		-53.4 to -56.4		-63.4 to -66.4			
<i>elev_NGVD</i>	-29.7 to -32.7		-39.7 to -42.7		-39.7 to -42.7		-49.7 to -52.7		-59.7 to -62.7		-69.7 to -72.7			
<i>Parameters</i>	<i>Units CSI WG</i>													
<i>VOAs</i>														
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U		
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	22		
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	160	690			
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U		
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	4.3 J	100			
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	1.6 J	1.5 J	1.5 J	1.5 J	1.5 J	1.5 J	9000	43000			
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U		
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U		
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	18	220	1000	1000			
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	11		
Vinyl chloride	µg/L	2.4	0.23 U							560	480	8900	8800	19000

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-23</i>	<i>Pier25-23</i>	<i>Pier25-23</i>	<i>Pier25-23</i>	<i>Pier25-23</i>	<i>Pier25-23</i>
<i>Sample ID:</i>	<i>GW-011106-PIER25-23-008</i>	<i>GW-011106-PIER25-23-009</i>	<i>GW-011106-PIER25-23-010</i>	<i>GW-011206-PIER25-23-011</i>	<i>GW-011206-PIER25-23-012</i>	<i>GW-011206-PIER25-23-013</i>
<i>Sample Date:</i>	<i>1/11/2006</i>	<i>1/11/2006</i>	<i>1/11/2006</i>	<i>1/12/2006</i>	<i>1/12/2006</i>	<i>1/12/2006</i>
<i>Sample Depth:</i>	<i>63 to 66 ft bml</i>	<i>73 to 76 ft bml</i>	<i>83 to 86 ft bml</i>	<i>93 to 96 ft bml</i>	<i>103 to 106 ft bml</i>	<i>113 to 116 ft bml</i>
<i>elev_MLLW</i>	<i>-73.4 to -76.4</i>	<i>-83.4 to -86.4</i>	<i>-93.4 to -96.4</i>	<i>-103.4 to -106.4</i>	<i>-113.4 to -116.4</i>	<i>-123.4 to -126.4</i>
<i>elev_NGVD</i>	<i>-79.7 to -82.7</i>	<i>-89.7 to -92.7</i>	<i>-99.7 to -102.7</i>	<i>-109.7 to -112.7</i>	<i>-119.7 to -122.7</i>	<i>-129.7 to -132.7</i>

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 UJ	0.27 UJ	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	13	0.30 U	0.41 J	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	2.2 J	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	16	660	130	32	2.3 J	1.3 J
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	20	4.0 J	0.87 J	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	160	430	56	7.8	2.3 J	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>
<i>Sample ID:</i>	<i>GW-011206-PIER25-24-001</i>	<i>GW-011206-PIER25-24-002</i>	<i>GW-011206-PIER25-24-003</i>	<i>GW-011206-PIER25-24-004</i>	<i>GW-011206-PIER25-24-005</i>	<i>GW-011206-PIER25-24-006</i>
<i>Sample Date:</i>	<i>1/12/2006</i>	<i>1/12/2006</i>	<i>1/12/2006</i>	<i>1/12/2006</i>	<i>1/12/2006</i>	<i>1/12/2006</i>
<i>Sample Depth:</i>	<i>0.5 to 3.5 ft bml</i>	<i>4.1 to 7.1 ft bml</i>	<i>14.1 to 17.1 ft bml</i>	<i>24.1 to 27.1 ft bml</i>	<i>34.1 to 37.1 ft bml</i>	<i>34.1 to 37.1 ft bml</i>
<i>elev_MLLW</i>	<i>-30.9 to -33.9</i>	<i>-34.5 to -37.5</i>	<i>-44.5 to -47.5</i>	<i>-54.5 to -57.5</i>	<i>-64.5 to -67.5</i>	<i>-64.5 to -67.5</i>
<i>elev_NGVD</i>	<i>-37.2 to -40.2</i>	<i>-40.8 to -43.8</i>	<i>-50.8 to -53.8</i>	<i>-60.8 to -63.8</i>	<i>-70.8 to -73.8</i>	<i>-70.8 to -73.8</i>
						<i>(Duplicate)</i>
Parameters	Units CSI WG					
VOAs						
1,1,2,2-Tetrachloroethane	µg/L 11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L 42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L 3.2	0.30 U	0.30 U	0.30 U	0.30 U	14
Carbon tetrachloride	µg/L 4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L 470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L 16.00	0.16 U	0.16 U	0.16 U	0.16 U	3200 J
Methylene chloride	µg/L 1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L 8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L 10000	0.19 U	0.19 U	0.19 U	0.19 U	21
Trichloroethene	µg/L 81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L 2.4	0.23 U	0.23 U	0.23 U	0.16 U	0.16 U
						55
						7500
						7600

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>
<i>Sample ID:</i>	GW-011206-PIER25-24-007	GW-011306-PIER25-24-008	GW-011306-PIER25-24-009	GW-011306-PIER25-24-010	GW-011306-PIER25-24-011	GW-011306-PIER25-24-012
<i>Sample Date:</i>	1/12/2006	1/13/2006	1/13/2006	1/13/2006	1/13/2006	1/13/2006
<i>Sample Depth:</i>	44.1 to 47.1 ft bml	54.1 to 57.1 ft bml	64.1 to 67.1 ft bml	74.1 to 77.1 ft bml	84.1 to 87.1 ft bml	94.1 to 97.1 ft bml
<i>elev_MLLW</i>	-74.5 to -77.5	-84.5 to -87.5	-94.5 to -97.5	-104.5 to -107.5	-114.5 to -117.5	-124.5 to -127.5
<i>elev_NGVD</i>	-80.8 to -83.8	-90.8 to -93.8	-100.8 to -103.8	-110.8 to -113.8	-120.8 to -123.8	-130.8 to -133.8

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L 11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L 42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L 3.2	330	420	55	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L 4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L 470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L 16.00	17000	24000	2000	35	12	2.6 J
Methylene chloride	µg/L 1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L 8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L 10000	370	900	220	2.4 J	0.19 U	0.19 U
Trichloroethene	µg/L 81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L 2.4	52000	95000	74000	590	77	21

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-25</i>
<i>Sample ID:</i>	GW-011306-PIER25-24-013	GW-011306-PIER25-24-014	GW-012006-PIER25-25-001	GW-012006-PIER25-25-002	GW-012006-PIER25-25-003	GW-012006-PIER25-25-004
<i>Sample Date:</i>	1/13/2006	1/13/2006	1/20/2006	1/20/2006	1/20/2006	1/20/2006
<i>Sample Depth:</i>	104.1 to 107.1 ft bml	114.1 to 117.1 ft bml	0 to 3 ft bml	10 to 13 ft bml	20 to 23 ft bml	30 to 33 ft bml
<i>elev_MLLW</i>	-134.5 to -137.5	-144.5 to -147.5	-33.6 to -36.6	-43.6 to -46.6	-53.6 to -56.6	-63.6 to -66.6
<i>elev_NGVD</i>	-140.8 to -143.8	-150.8 to -153.8	-39.9 to -42.9	-49.9 to -52.9	-59.9 to -62.9	-69.9 to -72.9
<i>Parameters</i>	<i>Units CSI WG</i>					
VOAs						
1,1,2,2-Tetrachloroethane	µg/L 11	0.27 U	0.27 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L 42	0.2 U	0.2 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L 3.2	0.30 U	0.30 U	0.025 U	0.025 U	1010
Carbon tetrachloride	µg/L 4.4	0.10 U	0.10 U	0.075 U	0.075 U	75 U
Chloroform (Trichloromethane)	µg/L 470	0.16 U	0.16 U	0.02 U	0.02 U	20 U
cis-1,2-Dichloroethene	µg/L 16.00	0.16 U	0.16 U	0.015 U	0.015 U	57200
Methylene chloride	µg/L 1600	0.35 U	0.35 U	0.045 U	0.045 U	45 UJ
Tetrachloroethene	µg/L 8.85	0.15 U	0.15 U	0.015 U	0.015 U	15 U
trans-1,2-Dichloroethene	µg/L 10000	0.19 U	0.19 U	0.02 U	0.02 U	1100
Trichloroethene	µg/L 81	0.16 U	0.16 U	0.02 U	0.02 U	0.308 J
Vinyl chloride	µg/L 2.4	0.23 U	0.23 U	15.8	0.305	69400
						115000

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-25</i>
<i>Sample ID:</i>	<i>GW-012006-PIER25-25-005</i>	<i>GW-012006-PIER25-25-006</i>	<i>GW-012006-PIER25-25-007</i>	<i>GW-012006-PIER25-25-008</i>	<i>GW-012006-PIER25-25-009</i>	<i>GW-012006-PIER25-25-010</i>
<i>Sample Date:</i>	<i>1/20/2006</i>	<i>1/20/2006</i>	<i>1/20/2006</i>	<i>1/20/2006</i>	<i>1/20/2006</i>	<i>1/20/2006</i>
<i>Sample Depth:</i>	<i>40 to 43 ft bml</i>	<i>50 to 52 ft bml</i>	<i>60 to 63 ft bml</i>	<i>70 to 73 ft bml</i>	<i>80 to 83 ft bml</i>	<i>90 to 93 ft bml</i>
<i>elev_MLLW</i>	<i>-73.6 to -76.6</i>	<i>-83.6 to -85.6</i>	<i>-93.6 to -96.6</i>	<i>-103.6 to -106.6</i>	<i>-113.6 to -116.6</i>	<i>-123.6 to -126.6</i>
<i>elev_NGVD</i>	<i>-79.9 to -82.9</i>	<i>-89.9 to -91.9</i>	<i>-99.9 to -102.9</i>	<i>-109.9 to -112.9</i>	<i>-119.9 to -122.9</i>	<i>-129.9 to -132.9</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L 11	2 U	2 U	10 U	0.02 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L 42	9 U	10.2 J	45 U	0.09 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L 3.2	23.7 J	567	245 J	2.36	0.025 U	0.102 J
Carbon tetrachloride	µg/L 4.4	15 U	15 U	75 U	0.15 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L 470	4 U	4 U	20 U	0.04 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L 16.00	926	45600	28200	253	1.31	6.02
Methylene chloride	µg/L 1600	9 UJ	9 UJ	45 UJ	0.09 UJ	0.045 UJ	0.045 UJ
Tetrachloroethene	µg/L 8.85	3 U	3 U	15 U	0.03 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L 10000	224	962	1220	6.86	0.02 U	0.02 U
Trichloroethene	µg/L 81	4 U	1760	31.5 J	0.303 J	0.02 U	0.023 J
Vinyl chloride	µg/L 2.4	86700	55300	122000	684	2.85	6.7

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-26	Pier25-26	Pier25-26	Pier25-26	Pier25-26	Pier25-26
Sample ID:	GW-012306-PIER25-26-001	GW-012306-PIER25-26-002	GW-012306-PIER25-26-003	GW-012306-PIER25-26-004	GW-012306-PIER25-26-005	GW-012306-PIER25-26-006
Sample Date:	1/23/2006	1/23/2006	1/23/2006	1/23/2006	1/23/2006	1/23/2006
Sample Depth:	1.5 to 4.5 ft bml	11.5 to 14.5 ft bml	21.5 to 24.5 ft bml	31.5 to 34.5 ft bml	41.5 to 44.5 ft bml	51.5 to 54.5 ft bml
elev_MLLW	-9.2 to -12.2	-19.2 to -22.2	-29.2 to -32.2	-39.2 to -42.2	-49.2 to -52.2	-59.2 to -62.2
elev_NGVD	-15.5 to -18.5	-25.5 to -28.5	-35.5 to -38.5	-45.5 to -48.5	-55.5 to -58.5	-65.5 to -68.5

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	30
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	1.4 J	0.16 U	0.16 U	0.16 U	28	1800
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	47
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	480	15000

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-26</i>	<i>Pier25-26</i>	<i>Pier25-26</i>	<i>Pier25-26</i>	<i>Pier25-26</i>	<i>Pier25-27</i>
<i>Sample ID:</i>	<i>GW-012406-PIER25-26-007</i>	<i>GW-012406-PIER25-26-008</i>	<i>GW-012406-PIER25-26-009</i>	<i>GW-012406-PIER25-26-010</i>	<i>GW-012406-PIER25-26-011</i>	<i>GW-011906-PIER25-27-001</i>
<i>Sample Date:</i>	<i>1/24/2006</i>	<i>1/24/2006</i>	<i>1/24/2006</i>	<i>1/24/2006</i>	<i>1/24/2006</i>	<i>1/19/2006</i>
<i>Sample Depth:</i>	<i>61.5 to 64.5 ft bml</i>	<i>71.5 to 74.5 ft bml</i>	<i>81.5 to 84.5 ft bml</i>	<i>91.5 to 94.5 ft bml</i>	<i>101.5 to 104.5 ft bml</i>	<i>0.5 to 3.5 ft bml</i>
<i>elev_MLLW</i>	<i>-69.2 to -72.2</i>	<i>-79.2 to -82.2</i>	<i>-89.2 to -92.2</i>	<i>-99.2 to -102.2</i>	<i>-109.2 to -112.2</i>	<i>-7.9 to -10.9</i>
<i>elev_NGVD</i>	<i>-75.5 to -78.5</i>	<i>-85.5 to -88.5</i>	<i>-95.5 to -98.5</i>	<i>-105.5 to -108.5</i>	<i>-115.5 to -118.5</i>	<i>-14.2 to -17.2</i>

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	23	0.30 U	0.30 U	0.30 U	0.30 U	0.025 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	1100	53	9.1	4.6 J	0.16 U	1.15
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.045 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.015 U
trans-1,2-Dichloroethene	µg/L	10000	290	0.69 J	0.19 U	0.19 U	0.19 U	0.19 J
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.02 U
Vinyl chloride	µg/L	2.4	59000 J	20000	190	53	0.23 U	121

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-27</i>	<i>Pier25-27</i>	<i>Pier25-27</i>	<i>Pier25-27</i>	<i>Pier25-27</i>	<i>Pier25-27</i>
<i>Sample ID:</i>	GW-011906-PIER25-27-002	GW-011906-PIER25-27-003	GW-011906-PIER25-27-004	GW-011906-PIER25-27-005	GW-011906-PIER25-27-006	GW-011906-PIER25-27-007
<i>Sample Date:</i>	1/19/2006	1/19/2006	1/19/2006	1/19/2006	1/19/2006	1/19/2006
<i>Sample Depth:</i>	10.5 to 13.5 ft bml	10.5 to 13.5 ft bml	20.5 to 23.5 ft bml	30.5 to 33.5 ft bml	40.5 to 43.5 ft bml	50.5 to 53.5 ft bml
<i>elev_MLLW</i>	-17.9 to -20.9	-17.9 to -20.9	-27.9 to -30.9	-37.9 to -40.9	-47.9 to -50.9	-57.9 to -60.9
<i>elev_NGVD</i>	-24.2 to -27.2	-24.2 to -27.2	-34.2 to -37.2	-44.2 to -47.2	-54.2 to -57.2	-64.2 to -67.2
<i>Parameters</i>	<i>Units CSI WG</i>					
VOAs						
1,1,2,2-Tetrachloroethane	µg/L 11	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L 42	0.045 U	0.045 U	0.045 U	0.045 U	0.82
1,1-Dichloroethene	µg/L 3.2	0.025 U	0.025 U	0.025 U	76.1	212
Carbon tetrachloride	µg/L 4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L 470	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L 16.00	0.015 U	0.015 U	0.015 U	5680	16400
Methylene chloride	µg/L 1600	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L 8.85	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L 10000	0.02 U	0.02 U	0.02 U	82	455
Trichloroethene	µg/L 81	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vinyl chloride	µg/L 2.4	0.245	0.025 U	1.49	9520	11700
						122

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-27</i>		<i>Pier25-27</i>		<i>Pier25-27</i>		<i>Pier25-27</i>		<i>Pier25-28</i>		<i>Pier25-28</i>	
<i>Sample ID:</i>	GW-011906-PIER25-27-008		GW-011906-PIER25-27-009		GW-011906-PIER25-27-010		GW-011906-PIER25-27-011		GW-012406-PIER25-28-001		GW-012406-PIER25-28-002	
<i>Sample Date:</i>	1/19/2006		1/19/2006		1/19/2006		1/19/2006		1/24/2006		1/24/2006	
<i>Sample Depth:</i>	60.5 to 63.5 ft bml		70.5 to 73.5 ft bml		80.5 to 83.5 ft bml		90.5 to 93.5 ft bml		0 to 3 ft bml		10 to 13 ft bml	
<i>elev_MLLW</i>	-67.9 to -70.9		-77.9 to -80.9		-87.9 to -90.9		-97.9 to -100.9		-7.1 to -10.1		-17.1 to -20.1	
<i>elev_NGVD</i>	-74.2 to -77.2		-84.2 to -87.2		-94.2 to -97.2		-104.2 to -107.2		-13.4 to -16.4		-23.4 to -26.4	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.9 U
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.5 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	1.5 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.4 U
cis-1,2-Dichloroethene	µg/L	16.00	2.5	2.11	0.864	0.644	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	21
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.124 J	0.124 J	0.124 J	0.9 U
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.3 U
trans-1,2-Dichloroethene	µg/L	10000	0.145 J	0.083 J	0.02 U	0.02 U	0.02 U	0.02 U	0.0275 J	0.0275 J	0.0275 J	0.4 U
Trichloroethene	µg/L	81	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.4 U
Vinyl chloride	µg/L	2.4	1.62	1.45	2.4	0.552	0.454	0.025 U	0.025 U	0.025 U	0.025 U	3030

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-28</i>	<i>Pier25-28</i>	<i>Pier25-28</i>	<i>Pier25-29</i>	<i>Pier25-29</i>	<i>Pier25-29</i>
<i>Sample ID:</i>	<i>GW-012406-PIER25-28-003</i>	<i>GW-012406-PIER25-28-004</i>	<i>GW-012506-PIER25-28-005</i>	<i>GW-020606-PIER25-29-001</i>	<i>GW-020606-PIER25-29-002</i>	<i>GW-020606-PIER25-29-003</i>
<i>Sample Date:</i>	<i>1/24/2006</i>	<i>1/24/2006</i>	<i>1/25/2006</i>	<i>2/6/2006</i>	<i>2/6/2006</i>	<i>2/6/2006</i>
<i>Sample Depth:</i>	<i>20 to 23 ft bml</i>	<i>30 to 33 ft bml</i>	<i>40 to 43 ft bml</i>	<i>0 to 3 ft bml</i>	<i>2 to 5 ft bml</i>	<i>12 to 15 ft bml</i>
<i>elev_MLLW</i>	<i>-27.1 to -30.1</i>	<i>-37.1 to -40.1</i>	<i>-47.1 to -50.1</i>	<i>-6.6 to -9.6</i>	<i>-8.6 to -11.6</i>	<i>-18.6 to -21.6</i>
<i>elev_NGVD</i>	<i>-33.4 to -36.4</i>	<i>-43.4 to -46.4</i>	<i>-53.4 to -56.4</i>	<i>-12.9 to -15.9</i>	<i>-14.9 to -17.9</i>	<i>-24.9 to -27.9</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	2 U	0.01 U	0.01 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	9 U	0.045 U	0.045 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	88.4 J	0.0985 J	0.057 J	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	15 U	0.075 U	0.075 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	4 U	0.02 U	0.02 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	4240	4.8	18.2	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	9 U	0.045 U	0.045 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	3 U	0.015 U	0.015 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	167	0.219 J	0.599	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	4 U	0.02 U	0.02 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	12900	95.6	38.4	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

Sample Location:	Pier25-29	Pier25-29	Pier25-29	Pier25-29	Pier25-29	Pier25-29
Sample ID:	GW-020606-PIER25-29-004	GW-020606-PIER25-29-005	GW-020606-PIER25-29-006	GW-020606-PIER25-29-007	GW-020706-PIER25-29-008	GW-020706-PIER25-29-009
Sample Date:	2/6/2006	2/6/2006	2/6/2006	2/6/2006	2/7/2006	2/7/2006
Sample Depth:	22 to 25 ft bml	32 to 35 ft bml	42 to 45 ft bml	52 to 55 ft bml	62 to 65 ft bml	72 to 75 ft bml
elev_MLLW	-28.6 to -31.6	-38.6 to -41.6	-48.6 to -51.6	-58.6 to -61.6	-68.6 to -71.6	-78.6 to -81.6
elev_NGVD	-34.9 to -37.9	-44.9 to -47.9	-54.9 to -57.9	-64.9 to -67.9	-74.9 to -77.9	-84.9 to -87.9

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	2.2 J	0.16 U	0.16 U	1.2 J	2.6 J	2.8 J
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 UJ	0.16 U
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-29</i>	<i>Pier25-29</i>	<i>Pier25-29</i>	<i>Pier25-30</i>	<i>Pier25-30</i>	<i>Pier25-30</i>
<i>Sample ID:</i>	<i>GW-020706-PIER25-29-010</i>	<i>GW-020706-PIER25-29-011</i>	<i>GW-020706-PIER25-29-012</i>	<i>GW-012606-PIER25-30-001</i>	<i>GW-012606-PIER25-30-002</i>	<i>GW-012706-PIER25-30-003</i>
<i>Sample Date:</i>	<i>2/7/2006</i>	<i>2/7/2006</i>	<i>2/7/2006</i>	<i>1/26/2006</i>	<i>1/26/2006</i>	<i>1/27/2006</i>
<i>Sample Depth:</i>	<i>82 to 85 ft bml</i>	<i>92 to 95 ft bml</i>	<i>102 to 105 ft bml</i>	<i>0 to 3 ft bml</i>	<i>10 to 13 ft bml</i>	<i>20 to 23 ft bml</i>
<i>elev_MLLW</i>	<i>-88.6 to -91.6</i>	<i>-98.6 to -101.6</i>	<i>-108.6 to -111.6</i>	<i>-7.8 to -10.8</i>	<i>-17.8 to -20.8</i>	<i>-27.8 to -30.8</i>
<i>elev_NGVD</i>	<i>-94.9 to -97.9</i>	<i>-104.9 to -107.9</i>	<i>-114.9 to -117.9</i>	<i>-14.1 to -17.1</i>	<i>-24.1 to -27.1</i>	<i>-34.1 to -37.1</i>
<i>Parameters</i>	<i>Units CSI WG</i>					
<i>VOAs</i>						
1,1,2,2-Tetrachloroethane	µg/L 11	0.27 U	0.27 U	0.27 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L 42	0.2 U	0.2 U	0.2 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L 3.2	0.30 U	0.30 U	0.30 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L 4.4	0.10 U	0.10 U	0.10 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L 470	0.16 U	0.16 U	0.16 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L 16.00	4.7 J	2.6 J	0.16 U	0.015 U	0.264 J
Methylene chloride	µg/L 1600	0.35 U	0.35 U	13	0.045 U	0.045 U
Tetrachloroethene	µg/L 8.85	0.15 U	0.15 U	0.15 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L 10000	0.19 U	0.19 U	0.19 U	0.02 U	0.02 U
Trichloroethene	µg/L 81	6.8	6.4	0.16 U	0.02 U	0.02 U
Vinyl chloride	µg/L 2.4	0.71 J	0.23 U	1.6 J	0.025 U	0.204
						299

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-30</i>	<i>Pier25-30</i>	<i>Pier25-30</i>	<i>Pier25-30</i>	<i>Pier25-30</i>	<i>Pier25-30</i>
<i>Sample ID:</i>	<i>GW-012706-PIER25-30-004</i>	<i>GW-012706-PIER25-30-005</i>	<i>GW-012706-PIER25-30-006</i>	<i>GW-012706-PIER25-30-007</i>	<i>GW-012706-PIER25-30-008</i>	<i>GW-012706-PIER25-30-009</i>
<i>Sample Date:</i>	<i>1/27/2006</i>	<i>1/27/2006</i>	<i>1/27/2006</i>	<i>1/27/2006</i>	<i>1/27/2006</i>	<i>1/27/2006</i>
<i>Sample Depth:</i>	<i>30 to 33 ft bml</i>	<i>40 to 43 ft bml</i>	<i>50 to 53 ft bml</i>	<i>60 to 63 ft bml</i>	<i>70 to 73 ft bml</i>	<i>80 to 83 ft bml</i>
<i>elev_MLLW</i>	<i>-37.8 to -40.8</i>	<i>-47.8 to -50.8</i>	<i>-57.8 to -60.8</i>	<i>-67.8 to -70.8</i>	<i>-77.8 to -80.8</i>	<i>-87.8 to -90.8</i>
<i>elev_NGVD</i>	<i>-44.1 to -47.1</i>	<i>-54.1 to -57.1</i>	<i>-64.1 to -67.1</i>	<i>-74.1 to -77.1</i>	<i>-84.1 to -87.1</i>	<i>-94.1 to -97.1</i>

Parameters *Units CSI WG*

VOAs

1,1,2-Tetrachloroethane	µg/L 11	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L 42	0.045 U	0.9 U	0.045 U	1.57 J	0.045 U	0.045 U
1,1-Dichloroethene	µg/L 3.2	0.025 U	7.99 J	0.025 U	20.5	0.178 J	0.072 J
Carbon tetrachloride	µg/L 4.4	0.075 U	1.5 U	1.5 U	1.5 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L 470	0.02 U	0.4 U	0.02 U	0.4 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L 16.00	0.015 U	631	2.85 J	3070	40	8.87
Methylene chloride	µg/L 1600	0.045 U	0.9 U	0.045 U	0.9 U	0.045 U	0.045 U
Tetrachloroethene	µg/L 8.85	0.015 U	0.3 U	0.3 U	0.3 U	0.015 U	0.015 U
trans-1,2-Dichloroethene	µg/L 10000	0.02 U	3.78 J	0.02 U	41	0.549	0.145 J
Trichloroethene	µg/L 81	0.02 U	0.4 U	0.02 U	0.4 U	0.0415 J	0.02 U
Vinyl chloride	µg/L 2.4	7.43	7780	534	4790	44.4	15.2

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-30</i>	<i>Pier25-30</i>	<i>Pier25-31</i>	<i>Pier25-31</i>	<i>Pier25-31</i>
<i>Sample ID:</i>		<i>GW-012706-PIER25-30-010</i>	<i>GW-012706-PIER25-30-011</i>	<i>GW-051006-PIER25-31-LH-001</i>	<i>GW-051006-PIER25-31-LH-002</i>	<i>GW-051006-PIER25-31-LH-003</i>
<i>Sample Date:</i>		<i>1/27/2006</i>	<i>1/27/2006</i>	<i>5/10/2006</i>	<i>5/10/2006</i>	<i>5/10/2006</i>
<i>Sample Depth:</i>		<i>90 to 93 ft bml</i>	<i>100 to 103 ft bml</i>	<i>9 to 13 ft bgs</i>	<i>19 to 23 ft bgs</i>	<i>29 to 33 ft bgs</i>
<i>elev_MLLW</i>		<i>-97.8 to -100.8</i>	<i>-107.8 to -110.8</i>	<i>5.95 to 1.95</i>	<i>-4.05 to -8.05</i>	<i>-14.05 to -18.05</i>
<i>elev_NGVD</i>		<i>-104.1 to -107.1</i>	<i>-114.1 to -117.1</i>	<i>-0.4 to -4.4</i>	<i>-10.4 to -14.4</i>	<i>-20.4 to -24.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>VOAs</i>						
1,1,2,2-Tetrachloroethane	µg/L	11	0.01 U	0.01 U	0.081 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	0.045 U	0.045 U	0.082 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	0.025 U	0.025 U	0.086 U	0.086 U
Carbon tetrachloride	µg/L	4.4	0.075 U	0.075 U	0.082 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	0.02 U	0.02 U	0.070 U	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	3.56	0.015 U	0.062 U	0.062 U
Methylene chloride	µg/L	1600	0.045 U	0.045 U	0.31 U	0.31 U
Tetrachloroethene	µg/L	8.85	0.015 U	0.015 U	0.066 U	0.066 U
trans-1,2-Dichloroethene	µg/L	10000	0.02 U	0.02 U	0.091 U	0.091 U
Trichloroethene	µg/L	81	0.043 J	0.02 U	0.055 U	0.055 U
Vinyl chloride	µg/L	2.4	5.43	0.025 U	0.14 U	0.14 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-31</i>		<i>Pier25-31</i>		<i>Pier25-31</i>		<i>Pier25-31</i>		<i>Pier25-31</i>	
<i>Sample ID:</i>	<i>GW-051006-PIER25-31-LH-004</i>		<i>GW-051006-PIER25-31-LH-005</i>		<i>GW-051106-PIER25-31-LH-006</i>		<i>GW-051106-PIER25-31-LH-007</i>		<i>GW-051106-PIER25-31-LH-008</i>	
<i>Sample Date:</i>	<i>5/10/2006</i>		<i>5/10/2006</i>		<i>5/11/2006</i>		<i>5/11/2006</i>		<i>5/11/2006</i>	
<i>Sample Depth:</i>	<i>39 to 43 ft bgs</i>		<i>49 to 53 ft bgs</i>		<i>59 to 63 ft bgs</i>		<i>69 to 73 ft bgs</i>		<i>69 to 73 ft bgs</i>	
<i>elev_MLLW</i>	<i>-24.05 to -28.05</i>		<i>-34.05 to -38.05</i>		<i>-44.05 to -48.05</i>		<i>-54.05 to -58.05</i>		<i>-54.05 to -58.05</i>	
<i>elev_NGVD</i>	<i>-30.4 to -34.4</i>		<i>-40.4 to -44.4</i>		<i>-50.4 to -54.4</i>		<i>-60.4 to -64.4</i>		<i>-60.4 to -64.4</i>	
<i>Parameters</i>	<i>Units CSI WG</i>									
<i>VOAs</i>										
1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.16 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.16 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	0.086 U	0.17 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U
Carbon tetrachloride	µg/L	4.4	0.082 U	0.16 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	0.14 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	0.062 U	0.12 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
Methylene chloride	µg/L	1600	0.31 U	0.62 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Tetrachloroethene	µg/L	8.85	0.066 U	0.13 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
trans-1,2-Dichloroethene	µg/L	10000	0.091 U	0.18 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
Trichloroethene	µg/L	81	0.055 U	0.11 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U
Vinyl chloride	µg/L	2.4	0.14 U	0.28 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-31	Pier25-31	Pier25-31	Pier25-31	Pier25-32
Sample ID:	GW-051106-PIER25-31-LH-009	GW-051106-PIER25-31-LH-010	GW-051206-PIER25-31-LH-011	GW-051206-PIER25-31-LH-012	GW-040406-PIER25-32-001
Sample Date:	5/11/2006	5/11/2006	5/12/2006	5/12/2006	4/4/2006
Sample Depth:	79 to 83 ft bgs	89 to 93 ft bgs	99 to 103 ft bgs	111 to 112 ft bgs	9 to 12 ft bgs
elev_MLLW	-64.05 to -68.05	-74.05 to -78.05	-84.05 to -88.05	-96.05 to -97.05	6 to 3
elev_NGVD	-70.4 to -74.4	-80.4 to -84.4	-90.4 to -94.4	-102.4 to -103.4	-0.3 to -3.3

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.081 U	0.081 U	0.16 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.082 U	0.082 U	0.16 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.086 U	0.086 U	0.086 U	0.17 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.082 U	0.082 U	0.082 U	0.16 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	0.070 U	0.070 U	0.14 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.062 U	0.062 U	0.062 U	0.12 U	0.63 J
Methylene chloride	µg/L	1600	0.31 U	0.31 U	0.31 U	0.62 U	7.0
Tetrachloroethene	µg/L	8.85	0.066 U	0.066 U	0.066 U	0.13 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.091 U	0.091 U	0.091 U	0.18 U	0.19 U
Trichloroethene	µg/L	81	0.055 U	0.055 U	0.055 U	0.11 U	0.16 U
Vinyl chloride	µg/L	2.4	0.14 U	0.14 U	0.14 U	0.28 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-32</i>		<i>Pier25-32</i>		<i>Pier25-32</i>		<i>Pier25-32</i>		<i>Pier25-32</i>		<i>Pier25-32</i>	
<i>Sample ID:</i>	<i>GW-040406-PIER25-32-002</i>		<i>GW-040406-PIER25-32-003</i>		<i>GW-040506-PIER25-32-004</i>		<i>GW-040506-PIER25-32-005</i>		<i>GW-040606-PIER25-32-006</i>		<i>GW-040606-PIER25-32-007</i>	
<i>Sample Date:</i>	<i>4/4/2006</i>		<i>4/4/2006</i>		<i>4/5/2006</i>		<i>4/5/2006</i>		<i>4/6/2006</i>		<i>4/6/2006</i>	
<i>Sample Depth:</i>	<i>20 to 23 ft bgs</i>		<i>30 to 34 ft bgs</i>		<i>44 to 47 ft bgs</i>		<i>44 to 47 ft bgs</i>		<i>54 to 58 ft bgs</i>		<i>67 to 71 ft bgs</i>	
<i>elev_MLLW</i>	<i>-5 to -8</i>		<i>-15 to -19</i>		<i>-29 to -32</i>		<i>-29 to -32</i>		<i>-39 to -43</i>		<i>-52 to -56</i>	
<i>elev_NGVD</i>	<i>-11.3 to -14.3</i>		<i>-21.3 to -25.3</i>		<i>-35.3 to -38.3</i>		<i>-35.3 to -38.3</i>		<i>-45.3 to -49.3</i>		<i>-58.3 to -62.3</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	5.5	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-32</i>	<i>Pier25-32</i>	<i>Pier25-33</i>	<i>Pier25-33</i>	<i>Pier25-33</i>
<i>Sample ID:</i>		<i>GW-040706-PIER25-32-008</i>	<i>GW-040706-PIER25-32-009</i>	<i>GW-050806-Pier25-33-BS-001</i>	<i>GW-050806-Pier25-33-BS-002</i>	<i>GW-050806-Pier25-33-BS-003</i>
<i>Sample Date:</i>		<i>4/7/2006</i>	<i>4/7/2006</i>	<i>5/8/2006</i>	<i>5/8/2006</i>	<i>5/8/2006</i>
<i>Sample Depth:</i>		<i>78 to 82 ft bgs</i>	<i>88 to 92 ft bgs</i>	<i>9 to 13 ft bgs</i>	<i>19 to 23 ft bgs</i>	<i>29 to 33 ft bgs</i>
<i>elev_MLLW</i>		<i>-63 to -67</i>	<i>-73 to -77</i>	<i>4.95 to 0.95</i>	<i>-5.05 to -9.05</i>	<i>-15.05 to -19.05</i>
<i>elev_NGVD</i>		<i>-69.3 to -73.3</i>	<i>-79.3 to -83.3</i>	<i>-1.4 to -5.4</i>	<i>-11.4 to -15.4</i>	<i>-21.4 to -25.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
VOAs						
1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.081 U	0.081 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.082 U	0.082 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	0.086 U	0.086 U	0.086 U	0.086 U
Carbon tetrachloride	µg/L	4.4	0.082 U	0.082 U	0.082 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	0.070 U	0.070 U	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	0.062 U	0.062 U	0.85 J	0.062 U
Methylene chloride	µg/L	1600	0.31 U	0.31 U	0.31 U	0.31 U
Tetrachloroethene	µg/L	8.85	0.066 U	0.066 U	0.066 U	0.066 U
trans-1,2-Dichloroethene	µg/L	10000	0.091 U	0.091 U	0.25 J	0.091 U
Trichloroethene	µg/L	81	0.055 U	0.055 U	0.10 J	0.055 U
Vinyl chloride	µg/L	2.4	0.14 U	0.14 U	0.14 U	0.14 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:		Pier25-33	Pier25-33	Pier25-33	Pier25-33	Pier25-33
Sample ID:		<i>GW-050806-Pier25-33-BS-004</i>	<i>GW-050906-Pier25-33-LH-005</i>	<i>GW-050906-Pier25-33-LH-006</i>	<i>GW-050906-Pier25-33-LH-007</i>	<i>GW-050906-Pier25-33-LH-008</i>
Sample Date:		<i>5/8/2006</i>	<i>5/9/2006</i>	<i>5/9/2006</i>	<i>5/9/2006</i>	<i>5/9/2006</i>
Sample Depth:		<i>39 to 43 ft bgs</i>	<i>49 to 53 ft bgs</i>	<i>59 to 63 ft bgs</i>	<i>69 to 73 ft bgs</i>	<i>79 to 83 ft bgs</i>
elev_MLLW		<i>-25.05 to -29.05</i>	<i>-35.05 to -39.05</i>	<i>-45.05 to -49.05</i>	<i>-55.05 to -59.05</i>	<i>-65.05 to -69.05</i>
elev_NGVD		<i>-31.4 to -35.4</i>	<i>-41.4 to -45.4</i>	<i>-51.4 to -55.4</i>	<i>-61.4 to -65.4</i>	<i>-71.4 to -75.4</i>
Parameters	Units	CSI	WG			
VOAs						
1,1,2,2-Tetrachloroethane	µg/L	11	0.081 U	0.081 U	0.081 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	0.082 U	0.082 U	0.082 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	0.086 U	0.086 U	0.086 U	0.086 U
Carbon tetrachloride	µg/L	4.4	0.082 U	0.082 U	0.082 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	0.070 U	0.070 U	0.070 U	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	0.062 U	0.062 U	0.062 U	0.062 U
Methylene chloride	µg/L	1600	0.31 U	0.31 U	0.31 U	0.31 U
Tetrachloroethene	µg/L	8.85	0.066 U	0.066 U	0.066 U	0.066 U
trans-1,2-Dichloroethene	µg/L	10000	0.091 U	0.091 U	0.091 U	0.091 U
Trichloroethene	µg/L	81	0.055 U	0.055 U	0.055 U	0.055 U
Vinyl chloride	µg/L	2.4	0.14 U	0.14 U	0.14 U	0.14 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-33</i>	<i>Pit-89</i>	<i>PT-3</i>	<i>PT-3</i>	<i>PT-3</i>	<i>PT-3</i>	<i>PT-3</i>
<i>Sample ID:</i>		<i>GW-050906-Pier25-33-LH-009</i>	<i>Pit Water</i>	<i>G-072503-VSP-PT3-001</i>	<i>G-072503-VSP-PT3-003</i>	<i>G-072503-VSP-PT3-002</i>	<i>G-072503-VSP-PT3-004</i>	<i>G-072503-VSP-PT3-005</i>
<i>Sample Date:</i>		<i>5/9/2006</i>	<i>9/19/1989</i>	<i>7/25/2003</i>	<i>7/25/2003</i>	<i>7/25/2003</i>	<i>7/25/2003</i>	<i>7/25/2003</i>
<i>Sample Depth:</i>		<i>89 to 93 ft bgs</i>		<i>2 to 4 ft bml</i>	<i>2 to 4 ft bml</i>	<i>4 to 6 ft bml</i>	<i>6 to 8 ft bml</i>	<i>8 to 10 ft bml</i>
<i>elev_MLLW</i>		<i>-75.05 to -79.05</i>		<i>-43.45 to -45.45</i>	<i>-43.45 to -45.45</i>	<i>-45.45 to -47.45</i>	<i>-47.45 to -49.45</i>	<i>-49.45 to -51.45</i>
<i>elev_NGVD</i>		<i>-81.4 to -85.4</i>		<i>-49.8 to -51.8</i>	<i>-49.8 to -51.8</i>	<i>-51.8 to -53.8</i>	<i>-53.8 to -55.8</i>	<i>-55.8 to -57.8</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
VOAs								
1,1,2-Tetrachloroethane	µg/L	11	0.081 U	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	0.082 U	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	0.086 U	5 U	-	-	-	-
Carbon tetrachloride	µg/L	4.4	0.082 U	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	0.070 U	5 U	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16.00	0.062 U	-	-	-	-	-
Methylene chloride	µg/L	1600	0.31 U	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	0.066 U	27	8.36 J	8.51	63.8	6.44
trans-1,2-Dichloroethene	µg/L	10000	0.091 U	-	-	-	-	-
Trichloroethene	µg/L	81	0.055 U	5 U	62.7 J	66.2	15.2	5 U
Vinyl chloride	µg/L	2.4	0.14 U	10 U	-	-	-	-
								50.1 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>PT-4</i>	<i>PT-4</i>	<i>PT-4</i>	<i>PT-4</i>	<i>PT-5</i>	<i>PT-5</i>	<i>PT-5</i>
<i>Sample ID:</i>	<i>G-072203-VSP-PT4-001</i>	<i>G-072203-VSP-PT4-002</i>	<i>G-072203-VSP-PT4-003</i>	<i>G-072203-VSP-PT4-004</i>	<i>G-072503-VSP-PT5-001</i>	<i>G-072503-VSP-PT5-002</i>	<i>G-072503-VSP-PT5-004</i>
<i>Sample Date:</i>	<i>7/22/2003</i>	<i>7/22/2003</i>	<i>7/22/2003</i>	<i>7/22/2003</i>	<i>7/25/2003</i>	<i>7/25/2003</i>	<i>7/25/2003</i>
<i>Sample Depth:</i>	<i>0 to 2 ft bml</i>	<i>2 to 4 ft bml</i>	<i>4 to 6 ft bml</i>	<i>6 to 8 ft bml</i>	<i>0 to 2 ft bml</i>	<i>2 to 4 ft bml</i>	<i>2 to 4 ft bml</i>
<i>elev_MLLW</i>	<i>-41.35 to -43.35</i>	<i>-43.35 to -45.35</i>	<i>-45.35 to -47.35</i>	<i>-47.35 to -49.35</i>	<i>-38.46 to -40.46</i>	<i>-40.46 to -42.46</i>	<i>-40.46 to -42.46</i>
<i>elev_NGVD</i>	<i>-47.7 to -49.7</i>	<i>-49.7 to -51.7</i>	<i>-51.7 to -53.7</i>	<i>-53.7 to -55.7</i>	<i>-44.8 to -46.8</i>	<i>-46.8 to -48.8</i>	<i>-46.8 to -48.8</i>

(Duplicate)

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16.00	-	-	-	-	-	-
Methylene chloride	µg/L	1600	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	4.03 J	244	51.2 J	691	6610	4940 J
trans-1,2-Dichloroethene	µg/L	10000	-	-	-	-	-	-
Trichloroethene	µg/L	81	3.04 J	176	41.1 J	807	45200	70700 J
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>PT-5</i>	<i>PT-6</i>	<i>PT-6</i>	<i>PT-6</i>	<i>PT-6</i>	<i>PT-6</i>	<i>PT-7</i>
<i>Sample ID:</i>	<i>G-072503-VSP-PT5-003</i>	<i>G-072503-VSP-PT6-001</i>	<i>G-072503-VSP-PT6-002</i>	<i>G-072503-VSP-PT6-003</i>	<i>G-072503-VSP-PT6-004</i>	<i>G-072503-VSP-PT6-005</i>	<i>G-072403-VSP-PT7-001</i>
<i>Sample Date:</i>	<i>7/25/2003</i>	<i>7/25/2003</i>	<i>7/25/2003</i>	<i>7/25/2003</i>	<i>7/25/2003</i>	<i>7/25/2003</i>	<i>7/24/2003</i>
<i>Sample Depth:</i>	<i>6 to 8 ft bml</i>	<i>2 to 4 ft bml</i>	<i>4 to 6 ft bml</i>	<i>6 to 8 ft bml</i>	<i>8 to 10 ft bml</i>	<i>8 to 10 ft bml</i>	<i>2 to 4 ft bml</i>
<i>elev_MLLW</i>	<i>-44.46 to -46.46</i>	<i>-43.29 to -45.29</i>	<i>-45.29 to -47.29</i>	<i>-47.29 to -49.29</i>	<i>-49.29 to -51.29</i>	<i>-49.29 to -51.29</i>	<i>-45.78 to -47.78</i>
<i>elev_NGVD</i>	<i>-50.8 to -52.8</i>	<i>-49.6 to -51.6</i>	<i>-51.6 to -53.6</i>	<i>-53.6 to -55.6</i>	<i>-55.6 to -57.6</i>	<i>-55.6 to -57.6</i>	<i>-52.1 to -54.1</i>

(Duplicate)

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L 11	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L 42	-	-	-	-	-	-
1,1-Dichloroethene	µg/L 3.2	-	-	-	-	-	-
Carbon tetrachloride	µg/L 4.4	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L 470	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L 16.00	-	-	-	-	-	-
Methylene chloride	µg/L 1600	-	-	-	-	-	-
Tetrachloroethene	µg/L 8.85	3830	144	41.9 J	38	5810	5770
trans-1,2-Dichloroethene	µg/L 10000	-	-	-	-	-	-
Trichloroethene	µg/L 81	38900	259	54.3 J	47.1	54500	43900
Vinyl chloride	µg/L 2.4	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>PT-7</i>	<i>PT-7</i>	<i>PT-7</i>	<i>PT-7</i>	<i>PT-10</i>	<i>PT-11</i>	<i>PT-11</i>
<i>Sample ID:</i>	G-072403-VSP-PT7-002	G-072403-VSP-PT7-003	G-072403-VSP-PT7-004	G-072403-VSP-PT7-005	GW-061404-PT10-010	GW-061404-PT11-007	GW-061404-PT11-008
<i>Sample Date:</i>	7/24/2003	7/24/2003	7/24/2003	7/24/2003	6/14/2004	6/14/2004	6/14/2004
<i>Sample Depth:</i>	2 to 4 ft bml	4 to 6 ft bml	6 to 8 ft bml	8 to 10 ft bml	39.5 to 40 ft bml	20.5 to 21 ft bml	40.5 to 41 ft bml
<i>elev_MLLW</i>	-45.78 to -47.78	-47.78 to -49.78	-49.78 to -51.78	-51.78 to -53.78	-52.64 to -53.14	-30.64 to -31.14	-50.64 to -51.14
<i>elev_NGVD</i>	-52.1 to -54.1	-54.1 to -56.1	-56.1 to -58.1	-58.1 to -60.1	-59 to -59.5	-37 to -37.5	-57 to -57.5
	<i>(Duplicate)</i>						
<i>Parameters</i>	<i>Units CSI WG</i>						
VOAs							
1,1,2,2-Tetrachloroethane	µg/L 11	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L 42	-	-	-	-	-	-
1,1-Dichloroethene	µg/L 3.2	-	-	-	-	-	-
Carbon tetrachloride	µg/L 4.4	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L 470	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L 16.00	-	-	-	-	-	-
Methylene chloride	µg/L 1600	-	-	-	-	-	-
Tetrachloroethene	µg/L 8.85	35700 J	471	24.1	26.9	12	0.15 U
trans-1,2-Dichloroethene	µg/L 10000	-	-	-	-	-	-
Trichloroethene	µg/L 81	63500 J	2620	12.7	14.8	3.8 J	7.6
Vinyl chloride	µg/L 2.4	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PT-12</i>	<i>PT-12</i>	<i>PT-12A</i>	<i>PT-12A</i>	<i>PT-12A</i>	<i>PT-12A</i>	<i>PT-13</i>	
<i>Sample ID:</i>		<i>GW-061004-PT12-003</i>	<i>GW-061004-PT12-004</i>	<i>GW-102405-PT-12A-001</i>	<i>GW-102405-PT-12A-002</i>	<i>GW-102405-PT-12A-003</i>	<i>GW-102405-PT-12A-004</i>	<i>GW-060904-PT13-001</i>	
<i>Sample Date:</i>		<i>6/10/2004</i>	<i>6/10/2004</i>	<i>10/24/2005</i>	<i>10/24/2005</i>	<i>10/24/2005</i>	<i>10/24/2005</i>	<i>6/9/2004</i>	
<i>Sample Depth:</i>		<i>22.5 to 23 ft bml</i>	<i>42 to 42.5 ft bml</i>	<i>68.9 to 71.9 ft bml</i>	<i>68.9 to 71.9 ft bml</i>	<i>78.9 to 81.9 ft bml</i>	<i>88.9 to 91.9 ft bml</i>	<i>20 to 20.5 ft bml</i>	
<i>elev_MLLW</i>		<i>-55.44 to -55.94</i>	<i>-74.94 to -75.44</i>	<i>-92.4 to -95.4</i>	<i>-92.4 to -95.4</i>	<i>-102.4 to -105.4</i>	<i>-112.4 to -115.4</i>	<i>-48.88 to -49.38</i>	
<i>elev_NGVD</i>		<i>-61.8 to -62.3</i>	<i>-81.3 to -81.8</i>	<i>-98.7 to -101.7</i>	<i>-98.7 to -101.7</i>	<i>-108.7 to -111.7</i>	<i>-118.7 to -121.7</i>	<i>-55.2 to -55.7</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>	<i>(Duplicate)</i>					
VOAs									
1,1,2,2-Tetrachloroethane	µg/L	11	-	0.27 U	0.27 U	R	0.27 U	-	
1,1,2-Trichloroethane	µg/L	42	-	0.2 U	0.2 U	0.2 U	0.2 U	-	
1,1-Dichloroethene	µg/L	3.2	-	54	47	410	30	-	
Carbon tetrachloride	µg/L	4.4	-	0.10 U	0.10 U	0.10 UJ	0.10 U	-	
Chloroform (Trichloromethane)	µg/L	470	-	0.16 U	0.16 U	0.16 U	0.16 U	-	
cis-1,2-Dichloroethene	µg/L	16.00	-	240	210	1700	580	-	
Methylene chloride	µg/L	1600	-	0.35 U	0.35 U	0.35 U	0.35 U	-	
Tetrachloroethene	µg/L	8.85	230	200	41000	44000	12000	9100	78000 J
trans-1,2-Dichloroethene	µg/L	10000	-	19	16	210	28	-	
Trichloroethene	µg/L	81	280	3200	39000	42000	82000	15000	90000 J
Vinyl chloride	µg/L	2.4	-	120	110	47 J	15	-	

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PT-13</i>	<i>PT-13A</i>	<i>PT-13A</i>	<i>PT-13A</i>	<i>PT-13A</i>	<i>PT-13A</i>	
<i>Sample ID:</i>		<i>GW-060904-PT13-002</i>	<i>GW-110905-PT-13A-001</i>	<i>GW-110905-PT-13A-002</i>	<i>GW-110905-PT-13A-003</i>	<i>GW-110905-PT-13A-004</i>	<i>GW-111005-PT-13A-005</i>	
<i>Sample Date:</i>		<i>6/9/2004</i>	<i>11/9/2005</i>	<i>11/9/2005</i>	<i>11/9/2005</i>	<i>11/9/2005</i>	<i>11/10/2005</i>	
<i>Sample Depth:</i>		<i>42.5 to 43 ft bml</i>	<i>11.8 to 14.8 ft bml</i>	<i>21.8 to 24.8 ft bml</i>	<i>61.9 to 64.9 ft bml</i>	<i>71.9 to 74.9 ft bml</i>	<i>81.9 to 84.9 ft bml</i>	
<i>elev_MLLW</i>		<i>-71.38 to -71.88</i>	<i>-31.91 to -34.91</i>	<i>-41.91 to -44.91</i>	<i>-82.01 to -85.01</i>	<i>-92.01 to -95.01</i>	<i>-102.01 to -105.01</i>	
<i>elev_NGVD</i>		<i>-77.7 to -78.2</i>	<i>-38.2 to -41.2</i>	<i>-48.2 to -51.2</i>	<i>-88.3 to -91.3</i>	<i>-98.3 to -101.3</i>	<i>-108.3 to -111.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
VOAs								
1,1,2-Tetrachloroethane	µg/L	11	-	-	-	68 U	3.4 U	3.4 U
1,1,2-Trichloroethane	µg/L	42	-	-	-	62.7 U	3.14 U	3.14 U
1,1-Dichloroethene	µg/L	3.2	-	-	-	59.5 U	5.22 J	2.98 U
Carbon tetrachloride	µg/L	4.4	-	-	-	97 U	4.85 U	4.85 U
Chloroform (Trichloromethane)	µg/L	470	-	-	-	71.7 U	3.59 U	3.59 U
cis-1,2-Dichloroethene	µg/L	16.00	-	-	-	620 J	115	25.4 J
Methylene chloride	µg/L	1600	-	-	-	75.2 U	3.76 U	3.76 U
Tetrachloroethene	µg/L	8.85	7900 J	34300	1510	20300	1650	1200
trans-1,2-Dichloroethene	µg/L	10000	-	-	-	58.4 U	7.12 J	2.92 U
Trichloroethene	µg/L	81	52000 J	-	-	31500	4700 J	1120
Vinyl chloride	µg/L	2.4	-	-	-	200 J	3.02 U	3.02 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>PT-13A</i>		<i>PT-13A</i>		<i>PT-13A</i>		<i>PT-13A</i>		<i>PT-13A</i>			
<i>Sample ID:</i>	<i>GW-111005-PT-13A-006</i>		<i>GW-111005-PT-13A-007</i>		<i>GW-111005-PT-13A-008</i>		<i>GW-111005-PT-13A-009</i>		<i>GW-111005-PT-13A-010</i>		<i>GW-111105-PT-13A-011</i>	
<i>Sample Date:</i>	<i>11/10/2005</i>		<i>11/10/2005</i>		<i>11/10/2005</i>		<i>11/10/2005</i>		<i>11/10/2005</i>		<i>11/11/2005</i>	
<i>Sample Depth:</i>	<i>91.9 to 94.9 ft bml</i>		<i>101.9 to 104.9 ft bml</i>		<i>111.9 to 114.9 ft bml</i>		<i>121.9 to 124.9 ft bml</i>		<i>131.9 to 134.9 ft bml</i>		<i>141.9 to 144.9 ft bml</i>	
<i>elev_MLLW</i>	<i>-112.01 to -115.01</i>		<i>-122.01 to -125.01</i>		<i>-132.01 to -135.01</i>		<i>-142.01 to -145.01</i>		<i>-152.01 to -155.01</i>		<i>-162.01 to -165.01</i>	
<i>elev_NGVD</i>	<i>-118.3 to -121.3</i>		<i>-128.3 to -131.3</i>		<i>-138.3 to -141.3</i>		<i>-148.3 to -151.3</i>		<i>-158.3 to -161.3</i>		<i>-168.3 to -171.3</i>	
Parameters	Units CSI WG											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.34 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.314 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	0.298 U	0.025 U	0.025 U	0.025 U	0.605	0.025 U	0.025 U	0.025 U	0.025 U	0.147 J
Carbon tetrachloride	µg/L	4.4	0.485 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	0.359 J	0.0885 J	0.02 U	0.13 J	0.082 J	0.082 J	0.082 J	0.082 J	0.082 J	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	2.92 J	1.09	1.28	55	0.287 J	0.287 J	0.287 J	0.287 J	0.287 J	8.42
Methylene chloride	µg/L	1600	0.376 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	148	19.6	8.32	132	3.47	3.47	3.47	3.47	3.47	38.4
trans-1,2-Dichloroethene	µg/L	10000	0.292 U	0.02 U	0.02 U	0.498 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0885 J
Trichloroethene	µg/L	81	136	16.1	10	345	3.12	3.12	3.12	3.12	3.12	60.1
Vinyl chloride	µg/L	2.4	2.64 J	2.05	1.77	95.7	0.502	0.502	0.502	0.502	0.502	21.4

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PT-14</i>	<i>PT-14</i>	<i>PT-15</i>	<i>PT-15</i>	<i>PT-15A</i>	<i>PT-15A</i>	<i>PT-15A</i>	
<i>Sample ID:</i>		<i>GW-062104-PT14-013</i>	<i>GW-062104-PT14-014</i>	<i>GW-062904-PT15-019</i>	<i>GW-062904-PT15-020</i>	<i>GW-110905-PT-15A-001</i>	<i>GW-110905-PT-15A-002</i>	<i>GW-111005-PT-15A-004</i>	
<i>Sample Date:</i>		<i>6/21/2004</i>	<i>6/21/2004</i>	<i>6/29/2004</i>	<i>6/29/2004</i>	<i>11/9/2005</i>	<i>11/9/2005</i>	<i>11/10/2005</i>	
<i>Sample Depth:</i>		<i>22 to 23 ft bml</i>	<i>40 to 41 ft bml</i>	<i>18 to 19 ft bml</i>	<i>49.42 to 50.42 ft bml</i>	<i>56 to 57 ft bml</i>	<i>66 to 67 ft bml</i>	<i>101 to 104 ft bml</i>	
<i>elev_MLLW</i>		<i>-16.14 to -17.14</i>	<i>-34.14 to -35.14</i>	<i>-30.14 to -31.14</i>	<i>-61.56 to -62.56</i>	<i>-69 to -70</i>	<i>-79 to -80</i>	<i>-114 to -117</i>	
<i>elev_NGVD</i>		<i>-22.5 to -23.5</i>	<i>-40.5 to -41.5</i>	<i>-36.5 to -37.5</i>	<i>-67.9 to -68.9</i>	<i>-75.3 to -76.3</i>	<i>-85.3 to -86.3</i>	<i>-120.3 to -123.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
VOAs									
1,1,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	0.2 U	
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	0.9 U	
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	4.73 J	
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	1.5 U	
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	5.39 J	
cis-1,2-Dichloroethene	µg/L	16.00	-	-	-	-	-	71	
Methylene chloride	µg/L	1600	-	-	-	-	-	0.9 UJ	
Tetrachloroethene	µg/L	8.85	1600	870	19000	840	4540	9400	1610
trans-1,2-Dichloroethene	µg/L	10000	-	-	-	-	-	-	10.8
Trichloroethene	µg/L	81	1800	490	6300	85	-	-	3370
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	7.14

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PT-15A</i>	<i>PT-15A</i>	<i>PT-15A</i>	<i>PT-15A</i>	<i>PT-15A</i>	<i>PT-15A</i>	
<i>Sample ID:</i>		<i>GW-111005-PT-15A-005</i>	<i>GW-111105-PT-15A-006</i>	<i>GW-111105-PT-15A-007</i>	<i>GW-111405-PT-15A-008</i>	<i>GW-111405-PT-15A-009</i>	<i>GW-111405-PT-15A-010</i>	
<i>Sample Date:</i>		<i>11/10/2005</i>	<i>11/11/2005</i>	<i>11/11/2005</i>	<i>11/14/2005</i>	<i>11/14/2005</i>	<i>11/14/2005</i>	
<i>Sample Depth:</i>		<i>111 to 114 ft bml</i>	<i>121 to 124 ft bml</i>	<i>131 to 134 ft bml</i>	<i>141 to 144 ft bml</i>	<i>151 to 154 ft bml</i>	<i>151 to 154 ft bml</i>	
<i>elev_MLLW</i>		<i>-124 to -127</i>	<i>-134 to -137</i>	<i>-144 to -147</i>	<i>-154 to -157</i>	<i>-164 to -167</i>	<i>-164 to -167</i>	
<i>elev_NGVD</i>		<i>-130.3 to -133.3</i>	<i>-140.3 to -143.3</i>	<i>-150.3 to -153.3</i>	<i>-160.3 to -163.3</i>	<i>-170.3 to -173.3</i>	<i>-170.3 to -173.3</i> <i>(Duplicate)</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.2 U	0.01 U	0.0675 J	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	µg/L	42	0.9 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
1,1-Dichloroethene	µg/L	3.2	6.75 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Carbon tetrachloride	µg/L	4.4	1.5 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Chloroform (Trichloromethane)	µg/L	470	3.57 J	0.214 J	0.177 J	0.02 U	0.02 U	0.02 U
cis-1,2-Dichloroethene	µg/L	16.00	156	2	1.28	6.35	0.315 J	0.284 J
Methylene chloride	µg/L	1600	0.9 UJ	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Tetrachloroethene	µg/L	8.85	1350	15.7	12.4	83.8	11.9	10.8
trans-1,2-Dichloroethene	µg/L	10000	3.13 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Trichloroethene	µg/L	81	2360	9.25	8.71	73.4	5.27	4.97
Vinyl chloride	µg/L	2.4	7.85	0.464	0.388	1.05	0.025 U	0.025 U

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>PT-15A</i>	<i>PT-16</i>	<i>PT-16</i>	<i>PT-17</i>	<i>PT-17</i>	<i>PT-18</i>	<i>PT-18</i>
<i>Sample ID:</i>	<i>GW-111505-PT-15A-011</i>	<i>GW-061104-PT16-005</i>	<i>GW-061104-PT16-006</i>	<i>GW-062404-PT17-017</i>	<i>GW-062404-PT17-018</i>	<i>GW-062204-PT18-015</i>	<i>GW-062204-PT18-016</i>
<i>Sample Date:</i>	<i>11/15/2005</i>	<i>6/11/2004</i>	<i>6/11/2004</i>	<i>6/24/2004</i>	<i>6/24/2004</i>	<i>6/22/2004</i>	<i>6/22/2004</i>
<i>Sample Depth:</i>	<i>161 to 164 ft bml</i>	<i>20.5 to 21 ft bml</i>	<i>40.5 to 41 ft bml</i>	<i>18 to 19 ft bml</i>	<i>38 to 39 ft bml</i>	<i>38 to 39 ft bml</i>	<i>39 to 42 ft bml</i>
<i>elev_MLLW</i>	<i>-174 to -177</i>	<i>-62.93 to -63.43</i>	<i>-82.93 to -83.43</i>	<i>-42.14 to -43.14</i>	<i>-62.14 to -63.14</i>	<i>-39.14 to -40.14</i>	<i>-40.14 to -43.14</i>
<i>elev_NGVD</i>	<i>-180.3 to -183.3</i>	<i>-69.2 to -69.8</i>	<i>-89.2 to -89.8</i>	<i>-48.5 to -49.5</i>	<i>-68.5 to -69.5</i>	<i>-45.5 to -46.5</i>	<i>-46.5 to -49.5</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.02 U	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	0.09 U	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	0.218 J	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	0.15 U	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	1.5 U	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16.00	27.9	-	-	-	-	-	-
Methylene chloride	µg/L	1600	0.09 U	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	393	340	140	2100	21	17	6.5 J
trans-1,2-Dichloroethene	µg/L	10000	0.131 J	-	-	-	-	-	-
Trichloroethene	µg/L	81	339	75 J	75 J	310	0.16 U	7.5	0.16 UJ
Vinyl chloride	µg/L	2.4	7.4	-	-	-	-	-	-

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>PT-18</i>	<i>PZ-1</i>	<i>PZ-2</i>	<i>PZ-4</i>	<i>PZ-7</i>
<i>Sample ID:</i>	<i>GW-062204-FD2</i>	<i>PZ-1</i>	<i>PZ-2</i>	<i>PZ-4</i>	<i>PZ-7</i>
<i>Sample Date:</i>	<i>6/22/2004</i>	<i>7/1/2004</i>	<i>7/1/2004</i>	<i>7/1/2004</i>	<i>7/1/2004</i>
<i>Sample Depth:</i>	<i>39 to 42 ft bml</i>	<i>2 to 3 ft BML</i>	<i>2 to 3 ft BML</i>	<i>0.5 to 1.5 ft BML</i>	<i>2 to 3 ft BML</i>
<i>elev_MLLW</i>	<i>-40.14 to -43.14</i>	<i>-38.25027087 to -39.25027087</i>	<i>-42.02901095 to -43.02901095</i>	<i>-25.57614158 to -26.57614158</i>	<i>-21.51413147 to -22.51413147</i>
<i>elev_NGVD</i>	<i>-46.5 to -49.5</i>	<i>-44.6 to -45.6</i>	<i>-48.3 to -49.3</i>	<i>-31.9 to -32.9</i>	<i>-27.8 to -28.8</i>
<i>Parameters</i>	<i>(Duplicate)</i>				
	<i>Units CSI WG</i>				
VOAs					
1,1,2-Tetrachloroethane	µg/L 11	-	10 U	-	50 U
1,1,2-Trichloroethane	µg/L 42	-	10 U	-	51
1,1-Dichloroethene	µg/L 3.2	-	10 U	-	340
Carbon tetrachloride	µg/L 4.4	-	10 U	-	50 U
Chloroform (Trichloromethane)	µg/L 470	-	10 U	-	840
cis-1,2-Dichloroethene	µg/L 16.00	-	150	-	230000
Methylene chloride	µg/L 1600	-	10 U	-	140
Tetrachloroethene	µg/L 8.85	15	10 U	-	15000
trans-1,2-Dichloroethene	µg/L 10000	-	10 U	-	330
Trichloroethene	µg/L 81	6.0 J	10 U	83	180000
Vinyl chloride	µg/L 2.4	-	700	28	4.4
					7200

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>PZ-8</i>	<i>PZ-9</i>	<i>PZ-SHI-1-33</i>	<i>PZ-SHI-1-75</i>	<i>PZ-SHI-1-100</i>
<i>Sample ID:</i>	<i>PZ-8</i>	<i>PZ-9</i>	<i>GW-042706-TR-PZ-SHI-1-4</i>	<i>GW-042706-TS-PZ-SHI-1-75</i>	<i>GW-042706-TR-PZ-SHI-1-100</i>
<i>Sample Date:</i>	<i>7/1/2004</i>	<i>7/1/2004</i>	<i>4/27/2006</i>	<i>4/27/2006</i>	<i>4/27/2006</i>
<i>Sample Depth:</i>	<i>1.5 to 2.5 ft BML</i>	<i>4 to 5 ft BML</i>	<i>2.25 to 3.25 ft bml</i>	<i>41 to 46 ft bml</i>	<i>66 to 71 ft bml</i>
<i>elev_MLLW</i>	<i>-43.15165518 to -44.15165518</i>	<i>-42.3135332 to -43.3135332</i>	<i>-14.07 to -15.07</i>	<i>-52.8 to -57.8</i>	<i>-77.79 to -82.79</i>
<i>elev_NGVD</i>	<i>-49.5 to -50.5</i>	<i>-48.6 to -49.6</i>	<i>-20.4 to -21.4</i>	<i>-59.1 to -64.1</i>	<i>-84.1 to -89.1</i>
<i>Parameters</i>	<i>Units CSI WG</i>				
VOAs					
1,1,2-Tetrachloroethane	µg/L 11	-	0.81 U	0.081 U	81 U
1,1,2-Trichloroethane	µg/L 42	-	0.82 U	0.090 J	82 U
1,1-Dichloroethene	µg/L 3.2	-	2.3 J	0.086 U	86 U
Carbon tetrachloride	µg/L 4.4	-	0.82 U	0.082 U	82 U
Chloroform (Trichloromethane)	µg/L 470	-	2.2 J	0.10 J	70 U
cis-1,2-Dichloroethene	µg/L 16.00	-	390	7.3	32000
Methylene chloride	µg/L 1600	-	4.8 J	0.31 U	310 U
Tetrachloroethene	µg/L 8.85	-	0.66 U	0.066 U	66 U
trans-1,2-Dichloroethene	µg/L 10000	-	5.7 J	2.4	870 J
Trichloroethene	µg/L 81	150	130	1.7	910 J
Vinyl chloride	µg/L 2.4	8800	150	0.15 J	17000

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>PZ-SHI-1-126</i>	<i>PZ-SHI-2-25</i>	<i>PZ-SHI-2-25</i>	<i>PZ-SHI-2-75</i>	<i>PZ-SHI-2-100</i>	
<i>Sample ID:</i>	GW-042706-TR-PZ-SHI-1-130	GW-042806-TR-PZ-SHI-2-4	GW-042806-TR-PZ-SHI-2-5	WG-082512-AMK-PZ-SHI-2-75-291	WG-082512-LP-PZ-SHI-2-100-292	
<i>Sample Date:</i>	4/27/2006	4/28/2006	4/28/2006	8/25/2012	8/25/2012	
<i>Sample Depth:</i>	96 to 101 ft bml	3.75 to 4.75 ft bml	3.75 to 4.75 ft bml	75 ft BGS	100 ft BGS	
<i>elev_MLLW</i>	-105.82 to -110.82	-6 to -7	-6 to -7	-72.86	-99.62	
<i>elev_NGVD</i>	-112.1 to -117.1	-12.3 to -13.3	-12.3 to -13.3	-79.2	-105.9	
<i>Parameters</i>	<i>Units CSI WG</i>					
VOAs						
1,1,2,2-Tetrachloroethane	µg/L 11	160 U	81 U	400 U	1300 U	50 U
1,1,2-Trichloroethane	µg/L 42	160 U	82 U	400 U	1300 U	50 U
1,1-Dichloroethene	µg/L 3.2	760 J	86 U	400 U	1300 U	50 U
Carbon tetrachloride	µg/L 4.4	160 U	-	400 U	1300 U	50 U
Chloroform (Trichloromethane)	µg/L 470	840 J	220 J	400 U	1300 U	50 U
cis-1,2-Dichloroethene	µg/L 16.00	65000	37000	28400	54000	180
Methylene chloride	µg/L 1600	1100 J	310 U	2000 U	600 J	26 J
Tetrachloroethene	µg/L 8.85	130 U	66 U	400 U	350 J	370
trans-1,2-Dichloroethene	µg/L 10000	1300 J	150 J	400 U	500 J	50 U
Trichloroethene	µg/L 81	21000 J	21000	28300	14000	2700
Vinyl chloride	µg/L 2.4	17000	12000	11900	7000	50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	PZ-SHI-3-42	PZ-SHI-3-75	PZ-SHI-3-100	SB-B-DEEP	SB-B-DEEP
Sample ID:	GW-042706-TR-PZ-SHI-3-4	WG-082512-AMK-PZ-SHI-3-75-293	GW-042706-TR-PZ-SHI-3-100	GW-080613-KB-SB-B-DEEP-01	GW-080613-KB-SB-B-DEEP-02
Sample Date:	4/27/2006	8/25/2012	4/27/2006	8/6/2013	8/6/2013
Sample Depth:	14.5 to 15.5 ft bml	75 ft BGS	70 to 75 ft bml	72 to 74 ft BGS	82 to 84 ft BGS
elev_MLLW	-21.96 to -22.96	-81.96	-76.96 to -81.96	-55.13 to -57.13	-65.13 to -67.13
elev_NGVD	-28.3 to -29.3	-88.3	-83.3 to -88.3	-61.4 to -63.4	-71.4 to -73.4

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.81 U	0.50 U	0.081 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	42	0.82 U	0.50 U	0.082 U	0.14 J	0.50 U
1,1-Dichloroethene	µg/L	3.2	0.86 U	0.50 U	0.086 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L	4.4	0.82 U	0.50 U	0.082 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	0.70 U	0.50 U	0.070 U	0.090 J	0.50 U
cis-1,2-Dichloroethene	µg/L	16.00	140	0.43 J	0.14 J	2.2	1.5
Methylene chloride	µg/L	1600	3.1 U	2.0 U	0.31 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	8.85	4.5 J	0.50 U	0.066 U	0.12 J	0.25 J
trans-1,2-Dichloroethene	µg/L	10000	3.7 J	1.2	0.091 U	0.15 J	0.30 J
Trichloroethene	µg/L	81	0.55 U	0.29 J	0.055 U	0.77	1.5
Vinyl chloride	µg/L	2.4	220	0.93	0.14 U	0.11 J	0.090 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP
Sample ID:	GW-080713-KB-SB-B-DEEP-03	GW-080713-KB-SB-B-DEEP-04	GW-080713-KB-SB-B-DEEP-05	GW-080813-KB-SB-B-DEEP-06	GW-080813-KB-SB-B-DEEP-07
Sample Date:	8/7/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
Sample Depth:	92 to 94 ft BGS	102 to 104 ft BGS	112 to 114 ft BGS	122 to 124 ft BGS	132 to 134 ft BGS
elev_MLLW	-75.13 to -77.13	-85.13 to -87.13	-95.13 to -97.13	-105.13 to -107.13	-115.13 to -117.13
elev_NGVD	-81.4 to -83.4	-91.4 to -93.4	-101.4 to -103.4	-111.4 to -113.4	-121.4 to -123.4

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.50 U	250 U	130 U	250 U	50 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	320	110 J	250 U	50 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	370	280	560	990
Carbon tetrachloride	µg/L	4.4	0.50 U	250 U	130 U	250 U	50 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	3300	340	80 J	50 U
cis-1,2-Dichloroethene	µg/L	16.00	0.58	140000	100000	46000	36000
Methylene chloride	µg/L	1600	2.0 U	1000 U	500 U	1000 U	340
Tetrachloroethene	µg/L	8.85	0.50 U	250 U	130 U	250 U	1800
trans-1,2-Dichloroethene	µg/L	10000	0.50 U	2000	880	850	660
Trichloroethene	µg/L	81	0.67	17000	15000	170 J	30000
Vinyl chloride	µg/L	2.4	0.50 U	13000	19000	98000	3600

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP
Sample ID:	GW-080813-KB-SB-B-DEEP-08	GW-080813-KB-SB-B-DEEP-09	GW-080913-KB-SB-B-DEEP-10	GW-080913-KB-SB-B-DEEP-11	GW-081213-KB-SB-B-DEEP-12
Sample Date:	8/8/2013	8/8/2013	8/9/2013	8/9/2013	8/12/2013
Sample Depth:	142 to 144 ft BGS	152 to 154 ft BGS	162 to 164 ft BGS	172 to 174 ft BGS	182 to 184 ft BGS
elev_MLLW	-125.13 to -127.13	-135.13 to -137.13	-145.13 to -147.13	-155.13 to -157.13	-165.13 to -167.13
elev_NGVD	-131.4 to -133.4	-141.4 to -143.4	-151.4 to -153.4	-161.4 to -163.4	-171.4 to -173.4

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	50 U	100 U	13 UJ	5.0 UJ	10 U
1,1,2-Trichloroethane	µg/L	42	50 U	100 U	13 U	5.0 U	10 U
1,1-Dichloroethene	µg/L	3.2	350	510	64	29	13
Carbon tetrachloride	µg/L	4.4	50 U	100 U	13 U	5.0 U	10 U
Chloroform (Trichloromethane)	µg/L	470	30 J	16 J	29	15	23
cis-1,2-Dichloroethene	µg/L	16.00	9100	12000	3100	1900	3800
Methylene chloride	µg/L	1600	200 U	400 U	50 U	20 U	15 J
Tetrachloroethene	µg/L	8.85	2500	13000	1500	550	170
trans-1,2-Dichloroethene	µg/L	10000	210	460	75	38	47
Trichloroethene	µg/L	81	31000	75000	6900 J	2800 J	2900
Vinyl chloride	µg/L	2.4	1700	860	1300	520	240

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>SB-B-DEEP</i>	<i>SB-B-DEEP</i>	<i>SP-1</i>	<i>SP-1</i>	<i>SP-1</i>	<i>SP-1</i>	
<i>Sample ID:</i>		<i>GW-081213-KB-SB-B-DEEP-13</i>	<i>GW-081213-KB-SB-B-DEEP-14</i>	<i>GW-062306-LH-SP1-001</i>	<i>GW-062306-LH-SP1-002</i>	<i>GW-062306-LH-SP1-003</i>	<i>GW-062306-LH-SP1-004</i>	
<i>Sample Date:</i>		<i>8/12/2013</i>	<i>8/12/2013</i>	<i>6/23/2006</i>	<i>6/23/2006</i>	<i>6/23/2006</i>	<i>6/23/2006</i>	
<i>Sample Depth:</i>		<i>192 to 194 ft BGS</i>	<i>192 to 194 ft BGS</i>	<i>9 to 12 ft bgs</i>	<i>18 to 21 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>34 to 37 ft bgs</i>	
<i>elev_MLLW</i>		<i>-175.13 to -177.13</i>	<i>-175.13 to -177.13</i>	<i>8.92 to 5.92</i>	<i>-0.08 to -3.08</i>	<i>-5.08 to -8.08</i>	<i>-16.08 to -19.08</i>	
<i>elev_NGVD</i>		<i>-181.4 to -183.4</i>	<i>-181.4 to -183.4</i>	<i>2.6 to -0.4</i>	<i>-6.4 to -9.4</i>	<i>-11.4 to -14.4</i>	<i>-22.4 to -25.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>VOAs</i>								
1,1,2-Tetrachloroethane	µg/L	11	0.50 U	0.50 U	1.00 U	50.0 U	100 U	20.0 U
1,1,2-Trichloroethane	µg/L	42	0.50 U	0.50 U	1.00 U	50.0 U	100 U	20.0 U
1,1-Dichloroethene	µg/L	3.2	0.50 U	0.50 U	1.00 U	51.5	100 U	20.0 U
Carbon tetrachloride	µg/L	4.4	0.50 U	0.50 U	1.00 U	50.0 U	100 U	20.0 U
Chloroform (Trichloromethane)	µg/L	470	0.50 U	0.50 U	44.9	50.0 U	100 U	20.0 U
cis-1,2-Dichloroethene	µg/L	16.00	2.1	1.9	0.850 J	501	236	1690
Methylene chloride	µg/L	1600	2.0 U	2.0 U	5.00 U	250 U	500 U	100 U
Tetrachloroethene	µg/L	8.85	1.2	1.3	45.1	2980	5660	346
trans-1,2-Dichloroethene	µg/L	10000	0.10 J	0.080 J	1.00 U	50.0 U	100 U	8.80 J
Trichloroethene	µg/L	81	7.7	7.3	9.82	8060	12200	356
Vinyl chloride	µg/L	2.4	0.41 J	0.32 J	1.00 U	1030	100 U	1470

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-1</i>	<i>SP-1</i>	<i>SP-1</i>	<i>SP-1</i>	<i>SP-1</i>	<i>SP-1</i>	
<i>Sample ID:</i>		<i>GW-062606-LH-SP1-005</i>	<i>GW-062606-LH-SP1-006</i>	<i>GW-062606-LH-SP1-007</i>	<i>GW-062606-LH-SP1-008</i>	<i>GW-062706-DR-SP1-010</i>	<i>GW-062806-DR-SP1-011</i>	
<i>Sample Date:</i>		<i>6/26/2006</i>	<i>6/26/2006</i>	<i>6/26/2006</i>	<i>6/26/2006</i>	<i>6/27/2006</i>	<i>6/28/2006</i>	
<i>Sample Depth:</i>		<i>43 to 46 ft bgs</i>	<i>48 to 51 ft bgs</i>	<i>58 to 61 ft bgs</i>	<i>68 to 71 ft bgs</i>	<i>78 to 81 ft bgs</i>	<i>88 to 91 ft bgs</i>	
<i>elev_MLLW</i>		<i>-25.08 to -28.08</i>	<i>-30.08 to -33.08</i>	<i>-40.08 to -43.08</i>	<i>-50.08 to -53.08</i>	<i>-60.08 to -63.08</i>	<i>-70.08 to -73.08</i>	
<i>elev_NGVD</i>		<i>-31.4 to -34.4</i>	<i>-36.4 to -39.4</i>	<i>-46.4 to -49.4</i>	<i>-56.4 to -59.4</i>	<i>-66.4 to -69.4</i>	<i>-76.4 to -79.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	200 U	200 U	40.0 U	40.0 U	5.00 U	5.00 U
1,1,2-Trichloroethane	µg/L	42	200 U	200 U	40.0 U	40.0 U	5.00 U	5.00 U
1,1-Dichloroethene	µg/L	3.2	200 U	200 U	157	158	5.00 U	5.00 U
Carbon tetrachloride	µg/L	4.4	200 U	200 U	40.0 U	40.0 U	5.00 U	5.00 U
Chloroform (Trichloromethane)	µg/L	470	200 U	200 U	40.0 U	40.0 U	5.00 U	5.00 U
cis-1,2-Dichloroethene	µg/L	16.00	274	200 U	21700	3950	127	10.6
Methylene chloride	µg/L	1600	1000 U	1000 U	200 U	200 U	25.0 U	25.0 U
Tetrachloroethene	µg/L	8.85	42.0 J	100 J	288	255	5.00 U	26.2
trans-1,2-Dichloroethene	µg/L	10000	448	422	782	48.8	5.00 U	5.00 U
Trichloroethene	µg/L	81	48.0 J	158 J	20000	23200	5.00 U	37.2
Vinyl chloride	µg/L	2.4	150000	132000	54400	610	5.10	49.2

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-1</i>	<i>SP-1</i>	<i>SP-1</i>	<i>SP-1</i>	<i>SP-1</i>	<i>SP-1</i>	<i>SP-1</i>
<i>Sample ID:</i>		<i>GW-062706-LH-SP1-009</i>	<i>GW-090606-JL-SP1-013</i>	<i>GW-090606-JL-SP1-014</i>	<i>GW-090706-JL-SP1-015</i>	<i>GW-090706-JL-SP1-016</i>	<i>GW-090706-JL-SP1-017</i>	<i>GW-090706-JL-SP1-018</i>
<i>Sample Date:</i>		<i>6/27/2006</i>	<i>9/6/2006</i>	<i>9/6/2006</i>	<i>9/7/2006</i>	<i>9/7/2006</i>	<i>9/7/2006</i>	<i>9/7/2006</i>
<i>Sample Depth:</i>		<i>98 to 101 ft bgs</i>	<i>118 to 122 ft bgs</i>	<i>128 to 132 ft bgs</i>	<i>138 to 142 ft bgs</i>	<i>148 to 152 ft bgs</i>	<i>158 to 162 ft bgs</i>	<i>168 to 172 ft bgs</i>
<i>elev_MLLW</i>		<i>-80.08 to -83.08</i>	<i>-100.08 to -104.08</i>	<i>-110.08 to -114.08</i>	<i>-120.08 to -124.08</i>	<i>-130.08 to -134.08</i>	<i>-140.08 to -144.08</i>	<i>-150.08 to -154.08</i>
<i>elev_NGVD</i>		<i>-86.4 to -89.4</i>	<i>-106.4 to -110.4</i>	<i>-116.4 to -120.4</i>	<i>-126.4 to -130.4</i>	<i>-136.4 to -140.4</i>	<i>-146.4 to -150.4</i>	<i>-156.4 to -160.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>VOAs</i>								
1,1,2,2-Tetrachloroethane	µg/L	11	10.0 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	10.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	10.1	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	10.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	4.50 J	0.23 J	0.16 U	14	0.39 J	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	1420	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	50.0 U	0.35 U	1.6 J	1.5 J	1.4 J	0.35 U
Tetrachloroethene	µg/L	8.85	439	0.15 U	0.15 U	0.71 J	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	63.6	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	1790	0.17 J	0.25 J	0.74 J	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	3740	0.23 U	0.23 U	0.40 J	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-1</i>		<i>SP-1</i>		<i>SP-1</i>		<i>SP-1</i>		<i>SP-2</i>		<i>SP-2</i>	
<i>Sample ID:</i>	<i>GW-090806-JL-SP1-019</i>		<i>GW-090806-JL-SP1-020</i>		<i>GW-090806-JL-SP1-021</i>		<i>GW-091106-JL-SP1-022</i>		<i>GW-070706-DR-SP2-001</i>		<i>GW-070706-DR-SP2-002</i>	
<i>Sample Date:</i>	<i>9/8/2006</i>		<i>9/8/2006</i>		<i>9/8/2006</i>		<i>9/11/2006</i>		<i>7/7/2006</i>		<i>7/7/2006</i>	
<i>Sample Depth:</i>	<i>178 to 182 ft bgs</i>		<i>188 to 192 ft bgs</i>		<i>198 to 200 ft bgs</i>		<i>208 to 212 ft bgs</i>		<i>8 to 11 ft bgs</i>		<i>18 to 21 ft bgs</i>	
<i>elev_MLLW</i>	<i>-160.08 to -164.08</i>		<i>-170.08 to -174.08</i>		<i>-180.08 to -182.08</i>		<i>-190.08 to -194.08</i>		<i>9.92 to 6.92</i>		<i>-0.08 to -3.08</i>	
<i>elev_NGVD</i>	<i>-166.4 to -170.4</i>		<i>-176.4 to -180.4</i>		<i>-186.4 to -188.4</i>		<i>-196.4 to -200.4</i>		<i>3.6 to 0.6</i>		<i>-6.4 to -9.4</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
VOAs												
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.7
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	1.6 J	0.35 J	7.3	19	9.7	0.16 U	9.7	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	17	0.16 U	0.16 U	200
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	20	0.15 U	0.15 U	3.1
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	1.2 J	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.5 J	0.16 U	0.16 U	19
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	8.6	0.23 U	0.23 U	19
									490000			2.0

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	
<i>Sample ID:</i>		<i>GW-070706-DR-SP2-003</i>	<i>GW-070706-DR-SP2-004</i>	<i>GW-070706-DR-SP2-005</i>	<i>GW-071006-LH-SP2-006</i>	<i>GW-071006-LH-SP2-007</i>	<i>GW-071006-LH-SP2-008</i>	
<i>Sample Date:</i>		<i>7/7/2006</i>	<i>7/7/2006</i>	<i>7/7/2006</i>	<i>7/10/2006</i>	<i>7/10/2006</i>	<i>7/10/2006</i>	
<i>Sample Depth:</i>		<i>23 to 26 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>33 to 36 ft bgs</i>	<i>43 to 46 ft bgs</i>	<i>48 to 51 ft bgs</i>	<i>58 to 61 ft bgs</i>	
<i>elev_MLLW</i>		<i>-5.08 to -8.08</i>	<i>-5.08 to -8.08</i>	<i>-15.08 to -18.08</i>	<i>-25.08 to -28.08</i>	<i>-30.08 to -33.08</i>	<i>-40.08 to -43.08</i>	
<i>elev_NGVD</i>		<i>-11.4 to -14.4</i>	<i>-11.4 to -14.4</i>	<i>-21.4 to -24.4</i>	<i>-31.4 to -34.4</i>	<i>-36.4 to -39.4</i>	<i>-46.4 to -49.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>VOAs</i>								
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	R	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	2.5	2.6 J	3.2	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	R	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.17 J	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	58	56 J	1100	29	69	81 J
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	11	10 J	13	11	8.0	7.0 J
trans-1,2-Dichloroethene	µg/L	10000	0.59 J	0.59 J	2.9	0.19 J	1.4	7.8 J
Trichloroethene	µg/L	81	86	83 J	96	28 J	20	21 J
Vinyl chloride	µg/L	2.4	2.4	2.3 J	230	3.4	59	98 J

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	
<i>Sample ID:</i>		<i>GW-071106-LH-SP2-009</i>	<i>GW-071106-LH-SP2-010</i>	<i>GW-071206-LH-SP2-011</i>	<i>GW-071206-LH-SP2-012</i>	<i>GW-091206-JL-SP2-012</i>	<i>GW-091206-JL-SP2-013</i>	
<i>Sample Date:</i>		<i>7/11/2006</i>	<i>7/11/2006</i>	<i>7/12/2006</i>	<i>7/12/2006</i>	<i>9/12/2006</i>	<i>9/12/2006</i>	
<i>Sample Depth:</i>		<i>68 to 71 ft bgs</i>	<i>78 to 81 ft bgs</i>	<i>88 to 91 ft bgs</i>	<i>98 to 101 ft bgs</i>	<i>108 to 112 ft bgs</i>	<i>121 to 122 ft bgs</i>	
<i>elev_MLLW</i>		<i>-50.08 to -53.08</i>	<i>-60.08 to -63.08</i>	<i>-70.08 to -73.08</i>	<i>-80.08 to -83.08</i>	<i>-90.08 to -94.08</i>	<i>-103.08 to -104.08</i>	
<i>elev_NGVD</i>		<i>-56.4 to -59.4</i>	<i>-66.4 to -69.4</i>	<i>-76.4 to -79.4</i>	<i>-86.4 to -89.4</i>	<i>-96.4 to -100.4</i>	<i>-109.4 to -110.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	R	0.27 UJ	0.27 U	27.00 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	R	0.2 UJ	0.2 U	20.0 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	R	0.30 UJ	0.30 U	30.00 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	R	0.10 UJ	0.10 U	10.00 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	R	0.16 UJ	64	16.00 U
cis-1,2-Dichloroethene	µg/L	16.00	36 J	38	77 J	85 J	0.16 U	16.00 U
Methylene chloride	µg/L	1600	0.35 U	0.35 U	R	0.35 UJ	0.35 U	740 J
Tetrachloroethene	µg/L	8.85	3.2 J	3.1	1.2 J	3.3 J	0.34 J	15.00 U
trans-1,2-Dichloroethene	µg/L	10000	1.8 J	1.5	0.91 J	1.6 J	0.19 U	19.00 U
Trichloroethene	µg/L	81	11 J	8.6	3.9 J	8.4 J	0.16 U	16.00 U
Vinyl chloride	µg/L	2.4	24 J	21	34 J	43 J	0.23 U	23.00 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-2</i>		<i>SP-2</i>		<i>SP-2</i>		<i>SP-2</i>		<i>SP-2</i>		<i>SP-2</i>			
<i>Sample ID:</i>	<i>GW-091306-JL-SP2-014</i>		<i>GW-091306-JL-SP2-015</i>		<i>GW-091306-JL-SP2-016</i>		<i>GW-091306-JL-SP2-017</i>		<i>GW-091306-JL-SP2-018</i>		<i>GW-091406-JL-SP2-019</i>		<i>GW-091406-JL-SP2-020</i>	
<i>Sample Date:</i>	<i>9/13/2006</i>		<i>9/13/2006</i>		<i>9/13/2006</i>		<i>9/13/2006</i>		<i>9/13/2006</i>		<i>9/14/2006</i>		<i>9/14/2006</i>	
<i>Sample Depth:</i>	<i>128 to 132 ft bgs</i>		<i>138 to 142 ft bgs</i>		<i>148 to 152 ft bgs</i>		<i>158 to 162 ft bgs</i>		<i>168 to 172 ft bgs</i>		<i>178 to 182 ft bgs</i>		<i>188 to 192 ft bgs</i>	
<i>elev_MLLW</i>	<i>-110.08 to -114.08</i>		<i>-120.08 to -124.08</i>		<i>-130.08 to -134.08</i>		<i>-140.08 to -144.08</i>		<i>-150.08 to -154.08</i>		<i>-160.08 to -164.08</i>		<i>-170.08 to -174.08</i>	
<i>elev_NGVD</i>	<i>-116.4 to -120.4</i>		<i>-126.4 to -130.4</i>		<i>-136.4 to -140.4</i>		<i>-146.4 to -150.4</i>		<i>-156.4 to -160.4</i>		<i>-166.4 to -170.4</i>		<i>-176.4 to -180.4</i>	
<i>Parameters</i>	<i>Units CSI WG</i>													
<i>VOAs</i>														
1,1,2,2-Tetrachloroethane	µg/L	11	27.00 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	20.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	30.00 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	10.00 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	16.00 U	38	17	37	1.8 J	36	7.5					
cis-1,2-Dichloroethene	µg/L	16.00	16.00 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	320 J	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	15.00 U	0.16 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	19.00 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	16.00 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	23.00 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>	
<i>Sample ID:</i>		<i>GW-091406-JL-SP2-021</i>	<i>GW-091406-JL-SP2-022</i>	<i>GW-091406-JL-SP2-023</i>	<i>GW-091806-JL-SP2-024</i>	<i>GW-061406-LH-SP3-001</i>	<i>GW-061406-LH-SP3-002</i>	<i>GW-061406-LH-SP3-003</i>	
<i>Sample Date:</i>		<i>9/14/2006</i>	<i>9/14/2006</i>	<i>9/14/2006</i>	<i>9/18/2006</i>	<i>6/14/2006</i>	<i>6/14/2006</i>	<i>6/14/2006</i>	
<i>Sample Depth:</i>		<i>198 to 202 ft bgs</i>	<i>208 to 212 ft bgs</i>	<i>218 to 222 ft bgs</i>	<i>228 to 232 ft bgs</i>	<i>7 to 10 ft bgs</i>	<i>18 to 21 ft bgs</i>	<i>23 to 26 ft bgs</i>	
<i>elev_MLLW</i>		<i>-180.08 to -184.08</i>	<i>-190.08 to -194.08</i>	<i>-200.08 to -204.08</i>	<i>-210.08 to -214.08</i>	<i>10.92 to 7.92</i>	<i>-0.08 to -3.08</i>	<i>-5.08 to -8.08</i>	
<i>elev_NGVD</i>		<i>-186.4 to -190.4</i>	<i>-196.4 to -200.4</i>	<i>-206.4 to -210.4</i>	<i>-216.4 to -220.4</i>	<i>4.6 to 1.6</i>	<i>-6.4 to -9.4</i>	<i>-11.4 to -14.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>VOAs</i>									
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	1.00 UJ	500 UJ	2000 UJ
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	1.00 UJ	500 UJ	2000 UJ
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	1.00 UJ	500 UJ	660 J
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	1.00 UJ	500 UJ	920 J
Chloroform (Trichloromethane)	µg/L	470	1.6 J	7.7	1.3 J	3.4	6.16 J	2420 J	19500 J
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.51 J	2.23 J	325 J	2000 UJ
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	5.00 UJ	2500 UJ	10000 UJ
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.48 J	98.6 J	6070 J	35600 J
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	1.00 UJ	500 UJ	2000 UJ
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	1.3 J	29.7 J	63900 J	381000 J
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	2.00 J	500 UJ	2000 UJ

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>
<i>Sample ID:</i>	<i>GW-061506-LH-SP3-004</i>	<i>GW-061506-LH-SP3-005</i>	<i>GW-061506-LH-SP3-006</i>	<i>GW-061506-LH-SP3-007</i>	<i>GW-061506-LH-SP3-008</i>	<i>GW-061906-LH-SP3-010</i>
<i>Sample Date:</i>	<i>6/15/2006</i>	<i>6/15/2006</i>	<i>6/15/2006</i>	<i>6/15/2006</i>	<i>6/15/2006</i>	<i>6/19/2006</i>
<i>Sample Depth:</i>	<i>33 to 36 ft bgs</i>	<i>43 to 46 ft bgs</i>	<i>48 to 51 ft bgs</i>	<i>58 to 61 ft bgs</i>	<i>68 to 71 ft bgs</i>	<i>78 to 81 ft bgs</i>
<i>elev_MLLW</i>	<i>-15.08 to -18.08</i>	<i>-25.08 to -28.08</i>	<i>-30.08 to -33.08</i>	<i>-40.08 to -43.08</i>	<i>-50.08 to -53.08</i>	<i>-60.08 to -63.08</i>
<i>elev_NGVD</i>	<i>-21.4 to -24.4</i>	<i>-31.4 to -34.4</i>	<i>-36.4 to -39.4</i>	<i>-46.4 to -49.4</i>	<i>-56.4 to -59.4</i>	<i>-66.4 to -69.4</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	2000 U	500 U	200 U	40.0 U	400 U	20.0 UJ
1,1,2-Trichloroethane	µg/L	42	2000 U	500 U	200 U	40.0 U	400 U	20.0 UJ
1,1-Dichloroethene	µg/L	3.2	2000 U	500 U	200 U	40.0 U	400 U	20.0 UJ
Carbon tetrachloride	µg/L	4.4	2000 U	500 U	200 U	40.0 U	400 U	20.0 UJ
Chloroform (Trichloromethane)	µg/L	470	2000 U	500 U	62.0 J	52.0	568	67.4 J
cis-1,2-Dichloroethene	µg/L	16.00	940 J	885	568	21.2 J	400 U	9.00 J
Methylene chloride	µg/L	1600	10000 U	2500 U	1000 U	200 U	2000 U	100 UJ
Tetrachloroethene	µg/L	8.85	29900	20300	2460	594	11500	1830 J
trans-1,2-Dichloroethene	µg/L	10000	2000 U	500 U	200 U	40.0 U	400 U	20.0 UJ
Trichloroethene	µg/L	81	84700	41200	10700	1810	28900	3060 J
Vinyl chloride	µg/L	2.4	660 J	500 U	200 U	40.0 U	400 U	7.20 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	SP-3	SP-3	SP-3	SP-3	SP-3	SP-3	SP-3
Sample ID:	GW-061906-DR-SP3-011	GW-061606-LH-SP3-009	GW-092606-JC-SP3-012	GW-092606-JC-SP3-013	GW-092706-JC-SP3-014	GW-092706-JC-SP3-015	GW-092706-JC-SP3-016
Sample Date:	6/19/2006	6/16/2006	9/26/2006	9/26/2006	9/27/2006	9/27/2006	9/27/2006
Sample Depth:	87 to 90 ft bgs	99 to 101 ft bgs	108 to 112 ft bgs	118 to 122 ft bgs	128 to 132 ft bgs	138 to 142 ft bgs	148 to 152 ft bgs
elev_MLLW	-69.08 to -72.08	-81.08 to -83.08	-90.08 to -94.08	-100.08 to -104.08	-110.08 to -114.08	-120.08 to -124.08	-130.08 to -134.08
elev_NGVD	-75.4 to -78.4	-87.4 to -89.4	-96.4 to -100.4	-106.4 to -110.4	-116.4 to -120.4	-126.4 to -130.4	-136.4 to -140.4

Parameters **Units CSI WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	20.0 UJ	40.0 U	2.70 U	R	2.70 U	2.70 U	2.70 U
1,1,2-Trichloroethane	µg/L	42	20.0 UJ	40.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	µg/L	3.2	7.20 J	40.0 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Carbon tetrachloride	µg/L	4.4	20.0 UJ	40.0 U	1.00 U	R	1.00 U	1.00 U	1.00 U
Chloroform (Trichloromethane)	µg/L	470	54.6 J	66.0	1.60 U	1.60 UJ	6.8 J	1.60 U	28 J
cis-1,2-Dichloroethene	µg/L	16.00	12.4 J	28.4 J	1.60 U	1.60 UJ	1.60 U	1.60 U	1.60 U
Methylene chloride	µg/L	1600	100 UJ	200 U	89	130	110	160	200
Tetrachloroethene	µg/L	8.85	1420 J	1400	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U
trans-1,2-Dichloroethene	µg/L	10000	20.0 UJ	40.0 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U
Trichloroethene	µg/L	81	2810 J	3110	1.60 U	1.60 U	20 J	1.60 U	14 J
Vinyl chloride	µg/L	2.4	20.0 UJ	40.0 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-3</i>		<i>SP-3</i>		<i>SP-3</i>		<i>SP-3</i>		<i>SP-3</i>		<i>SP-4</i>	
<i>Sample ID:</i>	<i>GW-092806-JC-SP3-017</i>		<i>GW-092806-ILM-SP3-018</i>		<i>GW-092906-ILM-SP3-019</i>		<i>GW-093006-ILM-SP3-020</i>		<i>GW-100206-ILM-SP3-021</i>		<i>GW-062006-DR-SP4-001</i>	
<i>Sample Date:</i>	<i>9/28/2006</i>		<i>9/28/2006</i>		<i>9/29/2006</i>		<i>9/30/2006</i>		<i>10/2/2006</i>		<i>6/20/2006</i>	
<i>Sample Depth:</i>	<i>158 to 162 ft bgs</i>		<i>168 to 172 ft bgs</i>		<i>178 to 182 ft bgs</i>		<i>188 to 192 ft bgs</i>		<i>198 to 202 ft bgs</i>		<i>9 to 12 ft bgs</i>	
<i>elev_MLLW</i>	<i>-140.08 to -144.08</i>		<i>-150.08 to -154.08</i>		<i>-160.08 to -164.08</i>		<i>-170.08 to -174.08</i>		<i>-180.08 to -184.08</i>		<i>8.92 to 5.92</i>	
<i>elev_NGVD</i>	<i>-146.4 to -150.4</i>		<i>-156.4 to -160.4</i>		<i>-166.4 to -170.4</i>		<i>-176.4 to -180.4</i>		<i>-186.4 to -190.4</i>		<i>2.6 to -0.4</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	2.70 U	2.70 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	1.00 U	1.00 U
1,1,2-Trichloroethane	µg/L	42	2.0 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.00 U	1.00 U
1,1-Dichloroethene	µg/L	3.2	3.00 U	3.00 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.00 U	1.00 U
Carbon tetrachloride	µg/L	4.4	1.00 U	1.00 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.00 U	1.00 U
Chloroform (Trichloromethane)	µg/L	470	1.60 U	12 J	11	2.8	11	11	11	11	1.00 U	1.00 U
cis-1,2-Dichloroethene	µg/L	16.00	1.60 U	1.60 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	6.89	6.89
Methylene chloride	µg/L	1600	37 J	27 J	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	5.00 U	5.00 U
Tetrachloroethene	µg/L	8.85	1.50 U	1.50 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	6.89	6.89
trans-1,2-Dichloroethene	µg/L	10000	1.90 U	1.90 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.230 J	0.230 J
Trichloroethene	µg/L	81	1.60 U	1.60 U	0.22 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	7.83	7.83
Vinyl chloride	µg/L	2.4	2.30 U	2.30 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	10.5	10.5

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>
<i>Sample ID:</i>	<i>GW-062006-DR-SP4-002</i>	<i>GW-062006-DR-SP4-003</i>	<i>GW-062006-DR-SP4-004</i>	<i>GW-062006-DR-SP4-005</i>	<i>GW-062106-DR-SP4-006</i>	<i>GW-062106-DR-SP4-007</i>
<i>Sample Date:</i>	<i>6/20/2006</i>	<i>6/20/2006</i>	<i>6/20/2006</i>	<i>6/20/2006</i>	<i>6/21/2006</i>	<i>6/21/2006</i>
<i>Sample Depth:</i>	<i>18 to 21 ft bgs</i>	<i>18 to 21 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>33 to 36 ft bgs</i>	<i>43 to 46 ft bgs</i>	<i>48 to 51 ft bgs</i>
<i>elev_MLLW</i>	<i>-0.08 to -3.08</i>	<i>-0.08 to -3.08</i>	<i>-5.08 to -8.08</i>	<i>-15.08 to -18.08</i>	<i>-25.08 to -28.08</i>	<i>-30.08 to -33.08</i>
<i>elev_NGVD</i>	<i>-6.4 to -9.4</i>	<i>-6.4 to -9.4</i>	<i>-11.4 to -14.4</i>	<i>-21.4 to -24.4</i>	<i>-31.4 to -34.4</i>	<i>-36.4 to -39.4</i>

(Duplicate)

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	5480	4840	100 U	149	100 U	94.5
1,1,2-Trichloroethane	µg/L	42	1000 U	166	100 U	20.0 U	100 U	50.0 U
1,1-Dichloroethene	µg/L	3.2	1000 U	162	100 U	20.0 U	100 U	50.0 U
Carbon tetrachloride	µg/L	4.4	1000 U	100 U	88.0 J	20.0 U	100 U	50.0 U
Chloroform (Trichloromethane)	µg/L	470	79800	76200	1010	190	100 U	348
cis-1,2-Dichloroethene	µg/L	16.00	800 J	535	100 U	40.0	157	2410
Methylene chloride	µg/L	1600	5000 U	846	500 U	100 U	500 U	250 U
Tetrachloroethene	µg/L	8.85	32700	10500	12200	2970	694	3480
trans-1,2-Dichloroethene	µg/L	10000	1000 U	141	100 U	45.0	100 U	50.0 U
Trichloroethene	µg/L	81	114000	118000	8110	1590	774	5160
Vinyl chloride	µg/L	2.4	360 J	458	92.0 J	6850	12400	7750

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>
<i>Sample ID:</i>	<i>GW-062106-DR-SP4-008</i>	<i>GW-062106-DR-SP4-009</i>	<i>GW-062206-DR-SP4-010</i>	<i>GW-062206-DR-SP4-011</i>	<i>GW-092006-JL-SP4-012</i>	<i>GW-092106-JL-SP4-013</i>
<i>Sample Date:</i>	<i>6/21/2006</i>	<i>6/21/2006</i>	<i>6/22/2006</i>	<i>6/22/2006</i>	<i>9/20/2006</i>	<i>9/21/2006</i>
<i>Sample Depth:</i>	<i>58 to 61 ft bgs</i>	<i>68 to 71 ft bgs</i>	<i>78 to 81 ft bgs</i>	<i>88 to 91 ft bgs</i>	<i>108 to 112 ft bgs</i>	<i>118 to 122 ft bgs</i>
<i>elev_MLLW</i>	<i>-40.08 to -43.08</i>	<i>-50.08 to -53.08</i>	<i>-60.08 to -63.08</i>	<i>-70.08 to -73.08</i>	<i>-90.08 to -94.08</i>	<i>-100.08 to -104.08</i>
<i>elev_NGVD</i>	<i>-46.4 to -49.4</i>	<i>-56.4 to -59.4</i>	<i>-66.4 to -69.4</i>	<i>-76.4 to -79.4</i>	<i>-96.4 to -100.4</i>	<i>-106.4 to -110.4</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	267	3610	20.0 U	20.0 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	50.0 U	40.0 U	20.0 U	20.0 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	50.0 U	77.6	31.0	16.2 J	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	50.0 U	40.0 U	20.0 U	20.0 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	344	7760	8.60 J	889	28	3.6
cis-1,2-Dichloroethene	µg/L	16.00	50.0 U	454	7390	772	0.16 U	0.16 U
Methylene chloride	µg/L	1600	250 U	200 U	16.8 J	100 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	4280	13300	3300	5390	1.0 J	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	882	42.8	17.8 J	61.4	0.19 U	0.19 U
Trichloroethene	µg/L	81	1950	18200	2400	3990	0.78 J	0.16 U
Vinyl chloride	µg/L	2.4	6810	718	1420	740	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-5</i>	
<i>Sample ID:</i>		<i>GW-092106-JL-SP4-014</i>	<i>GW-092106-JL-SP4-015</i>	<i>GW-092106-JL-SP4-016</i>	<i>GW-092206-LH-SP4-017</i>	<i>GW-092206-JC-SP4-018</i>	<i>GW-092506-JC-SP4-019</i>	<i>GW-060206-DR-SP5-001</i>	
<i>Sample Date:</i>		<i>9/21/2006</i>	<i>9/21/2006</i>	<i>9/21/2006</i>	<i>9/22/2006</i>	<i>9/22/2006</i>	<i>9/25/2006</i>	<i>6/2/2006</i>	
<i>Sample Depth:</i>		<i>128 to 132 ft bgs</i>	<i>138 to 142 ft bgs</i>	<i>148 to 152 ft bgs</i>	<i>158 to 162 ft bgs</i>	<i>168 to 172 ft bgs</i>	<i>178 to 182 ft bgs</i>	<i>9 to 12 ft bgs</i>	
<i>elev_MLLW</i>		<i>-110.08 to -114.08</i>	<i>-120.08 to -124.08</i>	<i>-130.08 to -134.08</i>	<i>-140.08 to -144.08</i>	<i>-150.08 to -154.08</i>	<i>-160.08 to -164.08</i>	<i>8.92 to 5.92</i>	
<i>elev_NGVD</i>		<i>-116.4 to -120.4</i>	<i>-126.4 to -130.4</i>	<i>-136.4 to -140.4</i>	<i>-146.4 to -150.4</i>	<i>-156.4 to -160.4</i>	<i>-166.4 to -170.4</i>	<i>2.6 to -0.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>VOAs</i>									
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	2.70 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	3.00 U	0.96 J
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.00 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	40	5.2	32	4.7	32	1.60 U	44
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.60 U	26
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	76	0.35 U
Tetrachloroethene	µg/L	8.85	0.37 J	0.64 J	0.18 J	0.21 J	0.23 J	1.50 U	410
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	1.90 U	2.4 J
Trichloroethene	µg/L	81	0.39 J	0.51 J	0.17 J	0.38 J	0.35 J	1.60 U	160
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	2.30 U	200

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-5</i>	<i>SP-5</i>	<i>SP-5</i>	<i>SP-5</i>	<i>SP-5</i>	<i>SP-5</i>
<i>Sample ID:</i>	<i>GW-060206-DR-SP5-002</i>	<i>GW-060206-DR-SP5-003</i>	<i>GW-060506-LH-SP5-004</i>	<i>GW-060906-LH-SP5-005</i>	<i>GW-061206-LH-SP5-006</i>	<i>GW-061206-LH-SP5-007</i>
<i>Sample Date:</i>	<i>6/2/2006</i>	<i>6/2/2006</i>	<i>6/5/2006</i>	<i>6/9/2006</i>	<i>6/12/2006</i>	<i>6/12/2006</i>
<i>Sample Depth:</i>	<i>18 to 21 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>33 to 36 ft bgs</i>	<i>43 to 46 ft bgs</i>	<i>48 to 51 ft bgs</i>	<i>58 to 61 ft bgs</i>
<i>elev_MLLW</i>	<i>-0.08 to -3.08</i>	<i>-5.08 to -8.08</i>	<i>-15.08 to -18.08</i>	<i>-25.08 to -28.08</i>	<i>-30.08 to -33.08</i>	<i>-40.08 to -43.08</i>
<i>elev_NGVD</i>	<i>-6.4 to -9.4</i>	<i>-11.4 to -14.4</i>	<i>-21.4 to -24.4</i>	<i>-31.4 to -34.4</i>	<i>-36.4 to -39.4</i>	<i>-46.4 to -49.4</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	27.00 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	14	0.2 U	0.2 U	20.0 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	1000	660	230	30.00 U	33	460
Carbon tetrachloride	µg/L	4.4	200	8.9	7.3	10.00 U	0.10 U	2.6 J
Chloroform (Trichloromethane)	µg/L	470	18000	26000	1400	2400	440	620
cis-1,2-Dichloroethene	µg/L	16.00	240	510	34000	280 J	68	2500
Methylene chloride	µg/L	1600	460	70.00 U	690	35.00 U	20	690
Tetrachloroethene	µg/L	8.85	50000	70000	48000	9100	6900 J	80000
trans-1,2-Dichloroethene	µg/L	10000	70	170	110	200 J	250	350
Trichloroethene	µg/L	81	63000	130000	61000	14000	6100 J	110000
Vinyl chloride	µg/L	2.4	110	8.7	3800	18000	25000 J	4500

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-5</i>	<i>SP-5</i>	<i>SP-5</i>	<i>SP-5</i>	<i>SP-5</i>	<i>SP-5</i>
<i>Sample ID:</i>	<i>GW-061206-LH-SP5-008</i>	<i>GW-061206-LH-SP5-009</i>	<i>GW-061306-LH-SP5-010</i>	<i>GW-061306-LH-SP5-011</i>	<i>GW-073106-DR-SP5-012</i>	<i>GW-080106-DR-SP5-013</i>
<i>Sample Date:</i>	<i>6/12/2006</i>	<i>6/12/2006</i>	<i>6/13/2006</i>	<i>6/13/2006</i>	<i>7/31/2006</i>	<i>8/1/2006</i>
<i>Sample Depth:</i>	<i>68 to 71 ft bgs</i>	<i>78 to 81 ft bgs</i>	<i>88 to 91 ft bgs</i>	<i>98 to 101 ft bgs</i>	<i>108 to 112 ft bgs</i>	<i>118 to 122 ft bgs</i>
<i>elev_MLLW</i>	<i>-50.08 to -53.08</i>	<i>-60.08 to -63.08</i>	<i>-70.08 to -73.08</i>	<i>-80.08 to -83.08</i>	<i>-90.08 to -94.08</i>	<i>-100.08 to -104.08</i>
<i>elev_NGVD</i>	<i>-56.4 to -59.4</i>	<i>-66.4 to -69.4</i>	<i>-76.4 to -79.4</i>	<i>-86.4 to -89.4</i>	<i>-96.4 to -100.4</i>	<i>-106.4 to -110.4</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	R	27.00 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	2.0 U	20.0 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	1000	180	3.00 U	140 J	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	1.00 U	10.00 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	810	1800	100	2200	0.16 U	0.53 J
cis-1,2-Dichloroethene	µg/L	16.00	73000	15000	97	640	0.16 U	0.16 U
Methylene chloride	µg/L	1600	11000	210	3.50 U	280 J	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	17000	41000	5300 J	62000	74	8.6 J
trans-1,2-Dichloroethene	µg/L	10000	880	120	1.90 U	19.00 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	110000	29000	3700 J	55000	21	3.2 J
Vinyl chloride	µg/L	2.4	75	180	2.30 U	750	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-5</i>	<i>SP-5</i>	<i>SP-6</i>	<i>SP-6</i>	<i>SP-6</i>	<i>SP-6</i>	
<i>Sample ID:</i>		<i>GW-080106-DR-SP5-014</i>	<i>GW-080106-DR-SP5-015</i>	<i>GW-060506-DR-SP6-001</i>	<i>GW-060506-DR-SP6-002</i>	<i>GW-060606-LH-SP6-003</i>	<i>GW-060606-LH-SP6-004</i>	
<i>Sample Date:</i>		<i>8/1/2006</i>	<i>8/1/2006</i>	<i>6/5/2006</i>	<i>6/5/2006</i>	<i>6/6/2006</i>	<i>6/6/2006</i>	
<i>Sample Depth:</i>		<i>128 to 132 ft bgs</i>	<i>138 to 142 ft bgs</i>	<i>7 to 10 ft bgs</i>	<i>18 to 21 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>33 to 36 ft bgs</i>	
<i>elev_MLLW</i>		<i>-110.08 to -114.08</i>	<i>-120.08 to -124.08</i>	<i>10.92 to 7.92</i>	<i>-0.08 to -3.08</i>	<i>-5.08 to -8.08</i>	<i>-15.08 to -18.08</i>	
<i>elev_NGVD</i>		<i>-116.4 to -120.4</i>	<i>-126.4 to -130.4</i>	<i>4.6 to 1.6</i>	<i>-6.4 to -9.4</i>	<i>-11.4 to -14.4</i>	<i>-21.4 to -24.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	190	16	1000
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.23 J	0.16 U	11	18	23	430
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	8.3	980	61	180000
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	0.35 U	1.4 J	330
Tetrachloroethene	µg/L	8.85	2.8	0.24 J	790	15000	19000	24000
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	27	5.6	850 J
Trichloroethene	µg/L	81	0.82 J	0.16 U	220	10000	28000	45000
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	11	4000	16	4600

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-6</i>	<i>SP-6</i>	<i>SP-6</i>	<i>SP-6</i>	<i>SP-6</i>	<i>SP-6</i>	
<i>Sample ID:</i>		<i>GW-060606-DR-SP6-005</i>	<i>GW-060606-DR-SP6-006</i>	<i>GW-060606-DR-SP6-007</i>	<i>GW-060706-DR-SP6-008</i>	<i>GW-060706-DR-SP6-009</i>	<i>GW-060706-LH-SP6-010</i>	
<i>Sample Date:</i>		<i>6/6/2006</i>	<i>6/6/2006</i>	<i>6/6/2006</i>	<i>6/7/2006</i>	<i>6/7/2006</i>	<i>6/7/2006</i>	
<i>Sample Depth:</i>		<i>43 to 46 ft bgs</i>	<i>48 to 51 ft bgs</i>	<i>48 to 51 ft bgs</i>	<i>58 to 61 ft bgs</i>	<i>68 to 71 ft bgs</i>	<i>78 to 81 ft bgs</i>	
<i>elev_MLLW</i>		<i>-25.08 to -28.08</i>	<i>-30.08 to -33.08</i>	<i>-30.08 to -33.08</i>	<i>-40.08 to -43.08</i>	<i>-50.08 to -53.08</i>	<i>-60.08 to -63.08</i>	
<i>elev_NGVD</i>		<i>-31.4 to -34.4</i>	<i>-36.4 to -39.4</i>	<i>-36.4 to -39.4</i>	<i>-46.4 to -49.4</i>	<i>-56.4 to -59.4</i>	<i>-66.4 to -69.4</i>	
				<i>(Duplicate)</i>				
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>VOAs</i>								
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 UJ	2.70 U	6.75 U	14 J	6.75 UJ
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 UJ	2.0 U	5.0 U	2.1 J	5.0 UJ
1,1-Dichloroethene	µg/L	3.2	770	150.00 U	1100 J	530 J	80 J	7.50 UJ
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 UJ	1.00 U	2.50 U	1.00 U	2.50 UJ
Chloroform (Trichloromethane)	µg/L	470	25	64 J	1.60 U	4.00 U	10 J	14 J
cis-1,2-Dichloroethene	µg/L	16.00	150000	170000	150000	8700	3600	2200 J
Methylene chloride	µg/L	1600	1.8 J	820 J	800	220	18 J	8.75 UJ
Tetrachloroethene	µg/L	8.85	170	14000	12000	20000	14000	43000 J
trans-1,2-Dichloroethene	µg/L	10000	980 J	1900 J	1200	810	27 J	4.75 UJ
Trichloroethene	µg/L	81	110	160000	130000	100000	9000	21000 J
Vinyl chloride	µg/L	2.4	85000	15000	12000	210	65	150 J

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-6</i>	<i>SP-6</i>	<i>SP-6</i>	<i>SP-6</i>	<i>SP-6</i>	<i>SP-6</i>
<i>Sample ID:</i>		<i>GW-060706-LH-SP6-011</i>	<i>GW-060806-LH-SP6-012</i>	<i>GW-082306-BG-SP6-013</i>	<i>GW-082406-JC-SP6-014</i>	<i>GW-082406-JC-SP6-015</i>	<i>GW-082806-JW-SP6-016</i>
<i>Sample Date:</i>		<i>6/7/2006</i>	<i>6/8/2006</i>	<i>8/23/2006</i>	<i>8/24/2006</i>	<i>8/24/2006</i>	<i>8/28/2006</i>
<i>Sample Depth:</i>		<i>88 to 91 ft bgs</i>	<i>98 to 101 ft bgs</i>	<i>117 to 121 ft bgs</i>	<i>127 to 131 ft bgs</i>	<i>137 to 141 ft bgs</i>	<i>157 to 161 ft bgs</i>
<i>elev_MLLW</i>		<i>-70.08 to -73.08</i>	<i>-80.08 to -83.08</i>	<i>-99.08 to -103.08</i>	<i>-109.08 to -113.08</i>	<i>-119.08 to -123.08</i>	<i>-139.08 to -143.08</i>
<i>elev_NGVD</i>		<i>-76.4 to -79.4</i>	<i>-86.4 to -89.4</i>	<i>-105.4 to -109.4</i>	<i>-115.4 to -119.4</i>	<i>-125.4 to -129.4</i>	<i>-145.4 to -149.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>VOAs</i>							
1,1,2,2-Tetrachloroethane	µg/L	11	1.35 UJ	6.75 U	27.00 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	1.0 UJ	5.0 U	20.0 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	1.50 UJ	61 J	30.00 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.50 UJ	2.50 U	10.00 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	3.2 J	85 J	16.00 U	0.71 J	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	700 J	11000	16.00 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	1.75 UJ	99 J	35.00 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	3400 J	26000	15.00 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.95 UJ	81 J	19.00 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	1800 J	27000	16.00 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	52 J	600	23.00 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-6</i>	<i>SP-6</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	
<i>Sample ID:</i>		<i>GW-082806-JW-SP6-017</i>	<i>GW-082906-JW-SP6-018</i>	<i>GW-062806-LH-SP7-001</i>	<i>GW-062806-LH-SP7-002</i>	<i>GW-062806-LH-SP7-003</i>	<i>GW-062906-LH-SP7-004</i>	
<i>Sample Date:</i>		<i>8/28/2006</i>	<i>8/29/2006</i>	<i>6/28/2006</i>	<i>6/28/2006</i>	<i>6/28/2006</i>	<i>6/29/2006</i>	
<i>Sample Depth:</i>		<i>167 to 171 ft bgs</i>	<i>177 to 181 ft bgs</i>	<i>8 to 11 ft bgs</i>	<i>18 to 21 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>33 to 36 ft bgs</i>	
<i>elev_MLLW</i>		<i>-149.08 to -153.08</i>	<i>-159.08 to -163.08</i>	<i>9.92 to 6.92</i>	<i>-0.08 to -3.08</i>	<i>-5.08 to -8.08</i>	<i>-15.08 to -18.08</i>	
<i>elev_NGVD</i>		<i>-155.4 to -159.4</i>	<i>-165.4 to -169.4</i>	<i>3.6 to 0.6</i>	<i>-6.4 to -9.4</i>	<i>-11.4 to -14.4</i>	<i>-21.4 to -24.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>VOAs</i>								
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	13.50 U	1.35 U	1.35 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	10.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	15.00 U	8.1 J	5.6 J
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	5.00 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L	470	3.5	1.2	68	8.00 U	0.80 U	2.5 J
cis-1,2-Dichloroethene	µg/L	16.00	0.31 J	0.16 U	0.16 U	790	380	3800
Methylene chloride	µg/L	1600	0.35 U	0.35 U	0.35 U	17.50 U	1.75 U	5.3 J
Tetrachloroethene	µg/L	8.85	0.25 J	0.15 U	6.6	2400	470	110
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	9.50 U	0.95 U	8.9 J
Trichloroethene	µg/L	81	0.71 J	0.30 J	0.16 U	25000	2700	610
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	180 J	1.15 U	130

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>
<i>Sample ID:</i>	GW-062906-LH-SP7-005	GW-063006-LH-SP7-006	GW-070506-DR-SP7-007	GW-070506-DR-SP7-008	GW-070506-DR-SP7-009	GW-070606-DR-SP7-010
<i>Sample Date:</i>	6/29/2006	6/30/2006	7/5/2006	7/5/2006	7/5/2006	7/6/2006
<i>Sample Depth:</i>	43 to 46 ft bgs	48 to 51 ft bgs	58 to 61 ft bgs	68 to 71 ft bgs	78 to 81 ft bgs	88 to 91 ft bgs
<i>elev_MLLW</i>	-25.08 to -28.08	-30.08 to -33.08	-40.08 to -43.08	-50.08 to -53.08	-60.08 to -63.08	-70.08 to -73.08
<i>elev_NGVD</i>	-31.4 to -34.4	-36.4 to -39.4	-46.4 to -49.4	-56.4 to -59.4	-66.4 to -69.4	-76.4 to -79.4

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	27.00 U	6.75 U	1.35 U	0.27 U	13.50 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	20.0 U	5.0 U	1.0 U	0.2 U	10.0 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	270 J	20 J	44	0.30 U	7.38 J	2.8 J
Carbon tetrachloride	µg/L	4.4	10.00 U	2.50 U	0.50 U	0.10 U	5.00 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	16.00 U	4.00 U	3.7 J	0.16 U	8.00 U	0.73 J
cis-1,2-Dichloroethene	µg/L	16.00	62000	14000	2500	82	2700	530
Methylene chloride	µg/L	1600	210 J	36 J	1.75 U	0.35 U	4.1 J	0.35 U
Tetrachloroethene	µg/L	8.85	15.00 U	75 J	140	14	150	32
trans-1,2-Dichloroethene	µg/L	10000	700	92 J	8.0 J	1.1 J	22 J	5.3
Trichloroethene	µg/L	81	6700	3300	600	63	1500	240
Vinyl chloride	µg/L	2.4	2000	260	44	6.8	88	27

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>
<i>Sample ID:</i>	<i>GW-083006-JW-SP7-012</i>	<i>GW-083006-JW-SP7-013</i>	<i>GW-083006-JW-SP7-014</i>	<i>GW-083106-JW-SP7-015</i>	<i>GW-083106-JW-SP7-016</i>	<i>GW-083106-JW-SP7-017</i>
<i>Sample Date:</i>	<i>8/30/2006</i>	<i>8/30/2006</i>	<i>8/30/2006</i>	<i>8/31/2006</i>	<i>8/31/2006</i>	<i>8/31/2006</i>
<i>Sample Depth:</i>	<i>107 to 111 ft bgs</i>	<i>117 to 121 ft bgs</i>	<i>127 to 131 ft bgs</i>	<i>137 to 141 ft bgs</i>	<i>147 to 151 ft bgs</i>	<i>157 to 161 ft bgs</i>
<i>elev_MLLW</i>	<i>-89.08 to -93.08</i>	<i>-99.08 to -103.08</i>	<i>-109.08 to -113.08</i>	<i>-119.08 to -123.08</i>	<i>-129.08 to -133.08</i>	<i>-139.08 to -143.08</i>
<i>elev_NGVD</i>	<i>-95.4 to -99.4</i>	<i>-105.4 to -109.4</i>	<i>-115.4 to -119.4</i>	<i>-125.4 to -129.4</i>	<i>-135.4 to -139.4</i>	<i>-145.4 to -149.4</i>
<i>Parameters</i>	<i>Units CSI WG</i>					
<i>VOAs</i>						
1,1,2,2-Tetrachloroethane	µg/L 11	0.27 UJ	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L 42	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L 3.2	0.30 UJ	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L 4.4	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L 470	0.22 J	0.16 U	8.0	0.16 U	0.81 J
cis-1,2-Dichloroethene	µg/L 16.00	1.5 J	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L 1600	0.35 UJ	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L 8.85	0.15 UJ	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L 10000	0.19 UJ	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L 81	1.1 J	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L 2.4	0.23 UJ	0.23 U	0.23 U	0.23 U	0.23 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-7</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	
<i>Sample ID:</i>		<i>GW-083106-JW-SP7-018</i>	<i>GW-071306-LH-SP8-001</i>	<i>GW-071306-LH-SP8-002</i>	<i>GW-071306-LH-SP8-003</i>	<i>GW-071406-LH-SP8-004</i>	<i>GW-071406-LH-SP8-005</i>	
<i>Sample Date:</i>		<i>8/31/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/14/2006</i>	<i>7/14/2006</i>	
<i>Sample Depth:</i>		<i>167 to 171 ft bgs</i>	<i>10 to 13 ft bgs</i>	<i>18 to 21 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>33 to 36 ft bgs</i>	<i>43 to 46 ft bgs</i>	
<i>elev_MLLW</i>		<i>-149.08 to -153.08</i>	<i>7.92 to 4.92</i>	<i>-0.08 to -3.08</i>	<i>-5.08 to -8.08</i>	<i>-15.08 to -18.08</i>	<i>-25.08 to -28.08</i>	
<i>elev_NGVD</i>		<i>-155.4 to -159.4</i>	<i>1.6 to -1.4</i>	<i>-6.4 to -9.4</i>	<i>-11.4 to -14.4</i>	<i>-21.4 to -24.4</i>	<i>-31.4 to -34.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	1.00 U	1.00 U	40.0 U	1.00 U	100 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	1.00 U	1.00 U	40.0 U	1.00 U	100 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	1.50	1.00 U	40.0 U	1.00 U	43.0 J
Carbon tetrachloride	µg/L	4.4	0.10 U	1.00 U	1.00 U	40.0 U	1.00 U	100 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	5.56	1.46	40.0 U	0.840 J	100 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	134	8.75	40.0 U	8.26	17100
Methylene chloride	µg/L	1600	0.35 U	5.00 U	5.00 U	200 U	5.00 U	500 U
Tetrachloroethene	µg/L	8.85	0.15 U	20.3	7.38	17.2 J	42.2	883
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	2.84	7.74	27.2 J	25.2	146
Trichloroethene	µg/L	81	0.16 U	43.4	11.4	8.80 J	25.8	4210
Vinyl chloride	µg/L	2.4	0.23 U	214	104	7670	1060	56200

TABLE 4.17

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	
<i>Sample ID:</i>		<i>GW-071406-LH-SP8-006</i>	<i>GW-071706-TR-SP8-007</i>	<i>GW-071706-TR-SP8-008</i>	<i>GW-071706-TR-SP8-009</i>	<i>GW-071806-TR-SP8-010</i>	<i>GW-071806-TR-SP8-011</i>	
<i>Sample Date:</i>		<i>7/14/2006</i>	<i>7/17/2006</i>	<i>7/17/2006</i>	<i>7/17/2006</i>	<i>7/18/2006</i>	<i>7/18/2006</i>	
<i>Sample Depth:</i>		<i>48 to 51 ft bgs</i>	<i>58 to 61 ft bgs</i>	<i>68 to 71 ft bgs</i>	<i>78 to 81 ft bgs</i>	<i>88 to 91 ft bgs</i>	<i>98 to 101 ft bgs</i>	
<i>elev_MLLW</i>		<i>-30.08 to -33.08</i>	<i>-40.08 to -43.08</i>	<i>-50.08 to -53.08</i>	<i>-60.08 to -63.08</i>	<i>-70.08 to -73.08</i>	<i>-80.08 to -83.08</i>	
<i>elev_NGVD</i>		<i>-36.4 to -39.4</i>	<i>-46.4 to -49.4</i>	<i>-56.4 to -59.4</i>	<i>-66.4 to -69.4</i>	<i>-76.4 to -79.4</i>	<i>-86.4 to -89.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
VOAs								
1,1,2-Tetrachloroethane	µg/L	11	200 U	20.0 U	500 U	4.00 U	100 UJ	10.0 UJ
1,1,2-Trichloroethane	µg/L	42	200 U	20.0 U	500 U	4.00 U	100 UJ	10.0 UJ
1,1-Dichloroethene	µg/L	3.2	200 U	130	500 U	4.00 U	100 UJ	10.0 UJ
Carbon tetrachloride	µg/L	4.4	200 U	20.0 U	500 U	4.00 U	100 UJ	10.0 UJ
Chloroform (Trichloromethane)	µg/L	470	200 U	20.0 U	500 U	4.00 U	100 UJ	10.0 UJ
cis-1,2-Dichloroethene	µg/L	16.00	786	20400	885	23.6	40.0 J	11.3 J
Methylene chloride	µg/L	1600	1000 U	100 U	2500 U	20.0 U	500 UJ	50.0 UJ
Tetrachloroethene	µg/L	8.85	200 U	1140	1390	14.2	34.0 J	14.2 J
trans-1,2-Dichloroethene	µg/L	10000	200 U	64.8	1780	1.24 J	100 UJ	10.0 UJ
Trichloroethene	µg/L	81	200 U	47800	2140	17.9	47.0 J	17.2 J
Vinyl chloride	µg/L	2.4	16900	23400	71800	372	14100 J	112 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-8</i>		<i>SP-8</i>		<i>SP-8</i>		<i>SP-8</i>		<i>SP-8</i>			
<i>Sample ID:</i>	<i>GW-100306-ILM-SP8-012</i>		<i>GW-071906-LH-SP8-012</i>		<i>GW-072006-LH-SP8-013</i>		<i>GW-100306-ILM-SP8-013</i>		<i>GW-100406-ILM-SP8-014</i>		<i>GW-100406-ILM-SP8-015</i>	
<i>Sample Date:</i>	<i>10/3/2006</i>		<i>7/19/2006</i>		<i>7/20/2006</i>		<i>10/3/2006</i>		<i>10/4/2006</i>		<i>10/4/2006</i>	
<i>Sample Depth:</i>	<i>104 to 108 ft bgs</i>		<i>108 to 111 ft bgs</i>		<i>112 to 115 ft bgs</i>		<i>114 to 118 ft bgs</i>		<i>124 to 128 ft bgs</i>		<i>134 to 138 ft bgs</i>	
<i>elev_MLLW</i>	<i>-86.08 to -90.08</i>		<i>-90.08 to -93.08</i>		<i>-94.08 to -97.08</i>		<i>-96.08 to -100.08</i>		<i>-106.08 to -110.08</i>		<i>-116.08 to -120.08</i>	
<i>elev_NGVD</i>	<i>-92.4 to -96.4</i>		<i>-96.4 to -99.4</i>		<i>-100.4 to -103.4</i>		<i>-102.4 to -106.4</i>		<i>-112.4 to -116.4</i>		<i>-122.4 to -126.4</i>	
<i>Parameters</i>	<i>Units CSI WG</i>											
<i>VOAs</i>												
1,1,2,2-Tetrachloroethane	µg/L	11	2.70 U	400 UJ	10.0 UJ	0.27 U	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ
1,1,2-Trichloroethane	µg/L	42	2.0 U	400 UJ	10.0 UJ	0.2 U	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
1,1-Dichloroethene	µg/L	3.2	3.00 U	400 UJ	10.0 UJ	0.30 U	0.30 UJ	0.30 UJ	0.30 UJ	0.30 UJ	0.30 UJ	0.30 UJ
Carbon tetrachloride	µg/L	4.4	1.00 U	400 UJ	10.0 UJ	0.10 U	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ
Chloroform (Trichloromethane)	µg/L	470	1.60 U	400 UJ	10.0 UJ	8.2	1.2 J	1.2 J	1.2 J	1.2 J	1.2 J	13 J
cis-1,2-Dichloroethene	µg/L	16.00	9.9 J	400 UJ	10.0 UJ	2.0 J	7.4 J	7.4 J	7.4 J	7.4 J	7.4 J	0.27 J
Methylene chloride	µg/L	1600	26 J	2000 UJ	50.0 UJ	1.0 J	0.60 J	0.60 J	0.60 J	0.60 J	0.60 J	0.35 UJ
Tetrachloroethene	µg/L	8.85	2200	23500 J	10.0 UJ	120	2.2 J	2.2 J	2.2 J	2.2 J	2.2 J	0.48 J
trans-1,2-Dichloroethene	µg/L	10000	27 J	1260 J	10.0 UJ	0.19 U	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ
Trichloroethene	µg/L	81	590	37900 J	10.0 UJ	12	1.5 J	1.5 J	1.5 J	1.5 J	1.5 J	0.44 J
Vinyl chloride	µg/L	2.4	79	616 J	10.0 UJ	0.23 U	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>T1-25</i>	<i>T1-50</i>	
<i>Sample ID:</i>		<i>GW-100406-ILM-SP8-016</i>	<i>GW-100506-ILM-SP8-017</i>	<i>GW-100506-ILM-SP8-018</i>	<i>GW-100506-ILM-SP8-019</i>	<i>GW-041206-TR-T1-25</i>	<i>GW-041206-TR-T1-50</i>	
<i>Sample Date:</i>		<i>10/4/2006</i>	<i>10/5/2006</i>	<i>10/5/2006</i>	<i>10/5/2006</i>	<i>4/12/2006</i>	<i>4/12/2006</i>	
<i>Sample Depth:</i>		<i>144 to 148 ft bgs</i>	<i>154 to 158 ft bgs</i>	<i>164 to 168 ft bgs</i>	<i>164 to 168 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	
<i>elev_MLLW</i>		<i>-126.08 to -130.08</i>	<i>-136.08 to -140.08</i>	<i>-146.08 to -150.08</i>	<i>-146.08 to -150.08</i>	<i>-7.96</i>	<i>-33.03</i>	
<i>elev_NGVD</i>		<i>-132.4 to -136.4</i>	<i>-142.4 to -146.4</i>	<i>-152.4 to -156.4</i>	<i>-152.4 to -156.4</i>	<i>-14.3</i>	<i>-39.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
VOAs								
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.081 U	41 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.2 U	0.2 U	0.2 U	0.082 U	41 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.17 J	43 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.082 U	41 U
Chloroform (Trichloromethane)	µg/L	470	2.9	1.1	0.16 U	0.16 U	10	35 U
cis-1,2-Dichloroethene	µg/L	16.00	0.16 U	0.16 U	0.16 U	0.16 U	21	150 J
Methylene chloride	µg/L	1600	0.40 J	0.35 U	0.35 U	0.35 U	0.31 U	150 U
Tetrachloroethene	µg/L	8.85	0.69 J	1.5	0.15 U	0.15 U	28	33 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.95 J	46 U
Trichloroethene	µg/L	81	0.16 U	0.16 J	0.16 U	0.16 U	16	73 J
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	13	28000

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>T1-100</i>	<i>T3-50</i>	<i>T3-50</i>	<i>T5-25</i>	<i>T5-60</i>	<i>T5-120</i>	<i>T6-25</i>	
<i>Sample ID:</i>		<i>GW-041206-TR-T1-100</i>	<i>WG-072912-PR-T3-50-294</i>	<i>WG-072912-PR-FD16-313</i>	<i>GW-042706-TV-T5-25</i>	<i>GW-041106-TR-T5-60</i>	<i>WG-082512-LP-T5-120-295</i>	<i>GW-041206-TS-T6-25</i>	
<i>Sample Date:</i>		<i>4/12/2006</i>	<i>7/29/2012</i>	<i>7/29/2012</i>	<i>4/27/2006</i>	<i>4/11/2006</i>	<i>8/25/2012</i>	<i>4/12/2006</i>	
<i>Sample Depth:</i>		<i>100 ft bgs</i>	<i>50 ft BGS</i>	<i>50 ft BGS</i>	<i>25 ft bgs</i>	<i>60 ft bgs</i>	<i>120 ft BGS</i>	<i>25 ft bgs</i>	
<i>elev_MLLW</i>		<i>-83.11</i>	<i>-33.01</i>	<i>-33.01</i>	<i>-6.98</i>	<i>-42.04</i>	<i>-102.09</i>	<i>-7.83</i>	
<i>elev_NGVD</i>		<i>-89.4</i>	<i>-39.3</i>	<i>-39.3</i>	<i>-13.3</i>	<i>-48.4</i>	<i>-108.4</i>	<i>-14.2</i>	
				<i>(Duplicate)</i>					
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
VOAs									
1,1,2,2-Tetrachloroethane	µg/L	11	81 U	0.50 U	0.50 U	0.081 U	0.41 U	2.5 U	8.1 U
1,1,2-Trichloroethane	µg/L	42	82 U	0.50 U	0.50 U	0.082 U	0.41 U	2.5 U	8.2 U
1,1-Dichloroethene	µg/L	3.2	130 J	0.50 U	0.50 U	0.20 J	0.43 U	2.5 U	8.6 U
Carbon tetrachloride	µg/L	4.4	82 U	0.50 U	0.50 U	0.082 U	0.41 U	2.5 U	8.2 U
Chloroform (Trichloromethane)	µg/L	470	1900	0.53	0.52	0.070 U	0.35 U	2.5 U	12 J
cis-1,2-Dichloroethene	µg/L	16.00	61000	0.48 J	0.46 J	8.6	0.36 J	2.5 U	960
Methylene chloride	µg/L	1600	310 U	2.0 U	2.0 U	0.31 U	1.5 U	0.95 J	31 U
Tetrachloroethene	µg/L	8.85	66 U	0.12 J	0.12 J	0.20 J	0.33 U	2.5 U	6.6 U
trans-1,2-Dichloroethene	µg/L	10000	1400	0.50	0.51	0.15 J	0.46 U	2.5 U	71 J
Trichloroethene	µg/L	81	3100	0.21 J	0.25 J	1.7	0.28 U	2.5 U	69 J
Vinyl chloride	µg/L	2.4	27000	1.4	1.4	21	100	2.5 U	4800

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>T6-60</i>	<i>WMUA-11</i>	<i>WMUA-12</i>	<i>WMUA-12</i>	<i>WMUA-13</i>
<i>Sample ID:</i>	<i>WG-082412-LP-T6-60-296</i>	<i>GW-080206-LH-WMUA11-001</i>	<i>GW-080206-LH-WMUA12-001</i>	<i>GW-080306-LH-WMUA12-002</i>	<i>GW-080306-LH-WMUA13-001</i>
<i>Sample Date:</i>	<i>8/24/2012</i>	<i>8/2/2006</i>	<i>8/2/2006</i>	<i>8/3/2006</i>	<i>8/3/2006</i>
<i>Sample Depth:</i>	<i>60 ft BGS</i>	<i>17.5 to 18.5 ft bgs</i>	<i>17.5 to 19.5 ft bgs</i>	<i>21.5 to 22.5 ft bgs</i>	<i>15 to 16 ft bgs</i>
<i>elev_MLLW</i>	<i>-42.91</i>	<i>0.42 to -0.58</i>	<i>0.42 to -1.58</i>	<i>-3.58 to -4.58</i>	<i>2.92 to 1.92</i>
<i>elev_NGVD</i>	<i>-49.2</i>	<i>-5.9 to -6.9</i>	<i>-5.9 to -7.9</i>	<i>-9.9 to -10.9</i>	<i>-3.4 to -4.4</i>

Parameters **Units** **CSI** **WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	5.0 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	5.0 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	5.0 U	26	56	75	12
Carbon tetrachloride	µg/L	4.4	5.0 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	5.0 U	0.16 U	0.54 J	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16.00	3.5 J	6100	8700	32000	4600
Methylene chloride	µg/L	1600	2.6 J	0.35 U	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	5.0 U	21000	150000	570	180
trans-1,2-Dichloroethene	µg/L	10000	5.0 U	100	130	1300	180
Trichloroethene	µg/L	81	5.0 U	22000	130000	650	270
Vinyl chloride	µg/L	2.4	58	220 J	1100 J	19000	38

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	WMUA-13	WMUA-14	WMUA-14	WMUA-15	WMUA-15
Sample ID:	GW-080306-LH-WMUA13-002	GW-080806-LH-WMUA14-001	GW-080806-LH-WMUA14-002	GW-080706-LH-WMUA15-001	GW-080706-LH-WMUA15-002
Sample Date:	8/3/2006	8/8/2006	8/8/2006	8/7/2006	8/7/2006
Sample Depth:	19 to 20 ft bgs	18.5 to 19.5 ft bgs	21.5 to 22.5 ft bgs	14.5 to 15.5 ft bgs	23.5 to 24.5 ft bgs
elev_MLLW	-1.08 to -2.08	-0.58 to -1.58	-3.58 to -4.58	3.42 to 2.42	-5.58 to -6.58
elev_NGVD	-7.4 to -8.4	-6.9 to -7.9	-9.9 to -10.9	-2.9 to -3.9	-11.9 to -12.9

Parameters **Units CSI WG**

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	27.00 U	27.00 U	27.00 U	27.00 UJ
1,1,2-Trichloroethane	µg/L	42	0.2 U	20.0 U	20.0 U	20.0 U	20.0 UJ
1,1-Dichloroethene	µg/L	3.2	200	420 J	220 J	30.00 U	420 J
Carbon tetrachloride	µg/L	4.4	0.10 U	10.00 U	10.00 U	10.00 U	10.00 UJ
Chloroform (Trichloromethane)	µg/L	470	0.16 U	16.00 U	16.00 U	16.00 U	16.00 UJ
cis-1,2-Dichloroethene	µg/L	16.00	120000	320000 J	94000	2500	100000
Methylene chloride	µg/L	1600	0.35 U	240 J	270 J	35.00 U	35.00 UJ
Tetrachloroethene	µg/L	8.85	3100	12000	26000 J	170000	25000 J
trans-1,2-Dichloroethene	µg/L	10000	1800	3100	1700	19.00 U	2200 J
Trichloroethene	µg/L	81	42000	87000	190000 J	88000	180000
Vinyl chloride	µg/L	2.4	400 J	390 J	1100	23.00 U	7100 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	WMUA-18		WMUA-18		WMUA-18		WMUA-18		WMUA-18		
<i>Sample ID:</i>	GW-080406-LH-WMUA18-001		GW-080706-LH-WMUA18-004		GW-080706-LH-WMUA18-005		GW-080406-LH-WMUA18-002		GW-080406-LH-WMUA18-003		
<i>Sample Date:</i>	8/4/2006		8/7/2006		8/7/2006		8/4/2006		8/4/2006		
<i>Sample Depth:</i>	13.5 to 14.5 ft bgs		26.5 to 27.5 ft bgs		26.5 to 27.5 ft bgs		38.5 to 39.5 ft bgs		72.5 to 73.5 ft bgs		
<i>elev_MLLW</i>	4.42 to 3.42		-8.58 to -9.58		-8.58 to -9.58		-20.58 to -21.58		-54.58 to -55.58		
<i>elev_NGVD</i>	-1.9 to -2.9		-14.9 to -15.9		-14.9 to -15.9		-26.9 to -27.9		-60.9 to -61.9		
<i>Parameters</i>	<i>Units CSI WG</i>										
VOAs											
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	27.00 U	27.00 U	16	0.27 U				
1,1,2-Trichloroethane	µg/L	42	0.2 U	20.0 U	20.0 U	14	0.2 U				
1,1-Dichloroethene	µg/L	3.2	0.32 J	180 J	30.00 U	180	190				
Carbon tetrachloride	µg/L	4.4	0.10 U	10.00 U	10.00 U	0.10 U	0.10 U				
Chloroform (Trichloromethane)	µg/L	470	2.0	170 J	170 J	560	310				
cis-1,2-Dichloroethene	µg/L	16.00	16	36000	36000	17000	41000				
Methylene chloride	µg/L	1600	0.35 U	35.00 U	35.00 U	3.4	190				
Tetrachloroethene	µg/L	8.85	4.0	100000	100000	12000	220 J				
trans-1,2-Dichloroethene	µg/L	10000	8.1	350	350	330 J	320				
Trichloroethene	µg/L	81	10	110000	110000	86000	2600				
Vinyl chloride	µg/L	2.4	1000	9300	9300	13000	15000				

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WMUA-19</i>	<i>WMUL-01</i>	<i>WMUL-02</i>	<i>WMUM-01</i>	<i>WMUM-01</i>
<i>Sample ID:</i>		<i>GW-080306-LH-WMUA19-001</i>	<i>GW-060712-NE-WMUL01-001</i>	<i>GW-061212-MD-WMUL02-001</i>	<i>GW-061312-SP-WMUM01-001</i>	<i>GW-061312-SP-FD-001</i>
<i>Sample Date:</i>		<i>8/3/2006</i>	<i>6/7/2012</i>	<i>6/12/2012</i>	<i>6/13/2012</i>	<i>6/13/2012</i>
<i>Sample Depth:</i>		<i>18.5 to 19.5 ft bgs</i>	<i>15 to 15 ft BGS</i>	<i>15 to 15 ft BGS</i>	<i>15 to 15 ft BGS</i>	<i>15 to 15 ft BGS</i>
<i>elev_MLLW</i>		<i>-0.58 to -1.58</i>	<i>3.18 to 3.18</i>	<i>3.21 to 3.21</i>	<i>3.06 to 3.06</i>	<i>3.06 to 3.06</i>
<i>elev_NGVD</i>		<i>-6.9 to -7.9</i>	<i>-3.1 to -3.1</i>	<i>-3.1 to -3.1</i>	<i>-3.3 to -3.3</i>	<i>-3.3 to -3.3</i> <i>(Duplicate)</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
VOAs						
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.50 UJ	0.50 UJ	0.50 UJ
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.50 UJ	0.50 UJ	0.50 UJ
1,1-Dichloroethene	µg/L	3.2	170	0.20 J	0.16 J	0.50 UJ
Carbon tetrachloride	µg/L	4.4	0.10 U	0.50 UJ	0.50 UJ	0.50 UJ
Chloroform (Trichloromethane)	µg/L	470	30	0.080 J	0.50 UJ	0.50 UJ
cis-1,2-Dichloroethene	µg/L	16.00	5300	24 J	5.0 J	0.62 J
Methylene chloride	µg/L	1600	1.7 J	2.0 UJ	2.0 UJ	2.0 UJ
Tetrachloroethene	µg/L	8.85	17000	1.5 J	2.6 J	0.83 J
trans-1,2-Dichloroethene	µg/L	10000	140	3.9 J	0.13 J	0.13 J
Trichloroethene	µg/L	81	33000	25 J	5.0 J	0.81 J
Vinyl chloride	µg/L	2.4	870	0.21 J	0.50 UJ	0.50 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>WMUM-02</i>	<i>WW-A1D</i>	<i>WW-A1D</i>	<i>WW-A1D</i>	<i>WW-A1D</i>
<i>Sample ID:</i>	<i>GW-061412-SP-WMUM02-001</i>	<i>GW-082612-KB-WWA1D-001</i>	<i>GW-082612-KB-WWA1D-002</i>	<i>GW-082612-KB-WWA1D-003</i>	<i>GW-082812-KB-WWA1D-005</i>
<i>Sample Date:</i>	<i>6/14/2012</i>	<i>8/26/2012</i>	<i>8/26/2012</i>	<i>8/26/2012</i>	<i>8/28/2012</i>
<i>Sample Depth:</i>	<i>15 to 15 ft BGS</i>	<i>2 to 2 ft BML</i>	<i>6 to 6 ft BML</i>	<i>11 to 11 ft BML</i>	<i>47 to 47 ft BML</i>
<i>elev_MLLW</i>	<i>3.18 to 3.18</i>	<i>-38.08 to -38.08</i>	<i>-42.08 to -42.08</i>	<i>-47.08 to -47.08</i>	<i>-83.08 to -83.08</i>
<i>elev_NGVD</i>	<i>-3.1 to -3.1</i>	<i>-44.4 to -44.4</i>	<i>-48.4 to -48.4</i>	<i>-53.4 to -53.4</i>	<i>-89.4 to -89.4</i>
<i>Parameters</i>	<i>Units CSI WG</i>				
<i>VOAs</i>					
1,1,2,2-Tetrachloroethane	µg/L 11	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L 42	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L 3.2	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	µg/L 4.4	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L 470	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	µg/L 16.00	1.8	0.26 J	0.12 J	0.50 U
Methylene chloride	µg/L 1600	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L 8.85	0.68	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L 10000	0.080 J	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L 81	0.72	0.11 J	0.50 U	0.50 U
Vinyl chloride	µg/L 2.4	0.50 U	0.50 U	0.50 U	0.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>WW-A1D</i>	<i>WW-A1D</i>	<i>WW-A1D</i>	<i>WW-A1D</i>	<i>WW-A1D</i>	<i>WW-A1D</i>
<i>Sample ID:</i>	GW-082812-KB-FD001	GW-082912-KB-WWA1D-006	GW-082912-KB-WWA1D-007	GW-082912-KB-WWA1D-008	GW-083012-KB-WWA1D-009	GW-083112-KB-WWA1D-010
<i>Sample Date:</i>	8/28/2012	8/29/2012	8/29/2012	8/29/2012	8/30/2012	8/31/2012
<i>Sample Depth:</i>	47 to 47 ft BML	67 to 67 ft BML	77 to 77 ft BML	87 to 87 ft BML	97 to 97 ft BML	110 to 110 ft BML
<i>elev_MLLW</i>	-83.08 to -83.08	-103.08 to -103.08	-113.08 to -113.08	-123.08 to -123.08	-133.08 to -133.08	-146.08 to -146.08
<i>elev_NGVD</i>	-89.4 to -89.4	-109.4 to -109.4	-119.4 to -119.4	-129.4 to -129.4	-139.4 to -139.4	-152.4 to -152.4
<i>Parameters</i>	<i>(Duplicate)</i>					
	<i>Units CSI WG</i>					
VOAs						
1,1,2,2-Tetrachloroethane	µg/L 11	0.50 U	0.50 U	0.50 U	0.50 U	2.5 U
1,1,2-Trichloroethane	µg/L 42	0.50 U	0.50 U	0.50 U	0.50 U	2.5 U
1,1-Dichloroethene	µg/L 3.2	0.50 U	0.50 U	0.50 U	0.50 U	2.5 U
Carbon tetrachloride	µg/L 4.4	0.50 U	0.50 U	0.50 U	0.50 U	2.5 U
Chloroform (Trichloromethane)	µg/L 470	0.50 U	0.50 U	0.50 U	0.50 U	2.5 U
cis-1,2-Dichloroethene	µg/L 16.00	0.50 U	0.50 U	0.070 J	0.50 U	2.5 U
Methylene chloride	µg/L 1600	2.0 U	2.0 U	2.0 U	2.0 U	10 U
Tetrachloroethene	µg/L 8.85	0.50 U	0.50 U	0.50 U	0.50 U	2.5 U
trans-1,2-Dichloroethene	µg/L 10000	0.50 U	0.50 U	0.50 U	0.50 U	2.5 U
Trichloroethene	µg/L 81	0.50 U	0.50 U	0.50 U	0.50 U	2.5 U
Vinyl chloride	µg/L 2.4	0.50 U	0.50 U	0.50 U	0.50 U	2.5 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>WW-A1R</i>	<i>WW-A1R</i>	<i>WW-A1R</i>	<i>WW-A1R</i>	<i>WW-A1R</i>
<i>Sample ID:</i>	<i>GW-082112-MD-WWA1R-001</i>	<i>GW-082112-MD-WWA1R-002</i>	<i>GW-082112-MD-WWA1R-003</i>	<i>GW-082212-MD-WW-A1R-004</i>	<i>GW-082212-MD-WW-A1R-005</i>
<i>Sample Date:</i>	<i>8/21/2012</i>	<i>8/21/2012</i>	<i>8/21/2012</i>	<i>8/22/2012</i>	<i>8/22/2012</i>
<i>Sample Depth:</i>	<i>2 to 2 ft BML</i>	<i>6 to 6 ft BML</i>	<i>11 to 11 ft BML</i>	<i>20 to 20 ft BML</i>	<i>30 to 30 ft BML</i>
<i>elev_MLLW</i>	<i>-36.18 to -36.18</i>	<i>-40.18 to -40.18</i>	<i>-45.18 to -45.18</i>	<i>-54.18 to -54.18</i>	<i>-64.18 to -64.18</i>
<i>elev_NGVD</i>	<i>-42.5 to -42.5</i>	<i>-46.5 to -46.5</i>	<i>-51.5 to -51.5</i>	<i>-60.5 to -60.5</i>	<i>-70.5 to -70.5</i>
<i>Parameters</i>	<i>Units CSI WG</i>				
<i>VOAs</i>					
1,1,2,2-Tetrachloroethane	µg/L 11	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L 42	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L 3.2	0.50 U	0.50 U	0.50 U	0.63
Carbon tetrachloride	µg/L 4.4	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform (Trichloromethane)	µg/L 470	0.50 U	0.50 U	0.50 U	0.090 J
cis-1,2-Dichloroethene	µg/L 16.00	0.50 U	0.49 J	0.38 J	0.11 J
Methylene chloride	µg/L 1600	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L 8.85	0.50 U	0.50 U	0.50 U	0.10 J
trans-1,2-Dichloroethene	µg/L 10000	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L 81	0.50 U	0.14 J	0.50 U	0.50 U
Vinyl chloride	µg/L 2.4	0.50 U	0.50 U	0.50 U	0.50 U

30

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>WW-A1R</i>	<i>WW-A1R</i>	<i>WW-A1R</i>	<i>WW-A1R</i>	<i>WW-A1R</i>
<i>Sample ID:</i>	<i>GW-082212-MD-WW-A1R-006</i>	<i>GW-082212-MD-WW-A1R-007</i>	<i>GW-082312-MD-WW-A1R-008</i>	<i>GW-082312-MD-WW-A1R-009</i>	<i>GW-082412-MD-WWA1R-010</i>
<i>Sample Date:</i>	<i>8/22/2012</i>	<i>8/22/2012</i>	<i>8/23/2012</i>	<i>8/23/2012</i>	<i>8/24/2012</i>
<i>Sample Depth:</i>	<i>45 to 45 ft BML</i>	<i>55 to 55 ft BML</i>	<i>65 to 65 ft BML</i>	<i>75 to 75 ft BML</i>	<i>85 to 85 ft BML</i>
<i>elev_MLLW</i>	<i>-79.18 to -79.18</i>	<i>-89.18 to -89.18</i>	<i>-99.18 to -99.18</i>	<i>-109.18 to -109.18</i>	<i>-119.18 to -119.18</i>
<i>elev_NGVD</i>	<i>-85.5 to -85.5</i>	<i>-95.5 to -95.5</i>	<i>-105.5 to -105.5</i>	<i>-115.5 to -115.5</i>	<i>-125.5 to -125.5</i>

Parameters *Units CSI WG*

VOAs

1,1,2,2-Tetrachloroethane	µg/L	11	2500 U	2500 U	2500 U	1000 U	50 U
1,1,2-Trichloroethane	µg/L	42	2500 U	2500 U	2500 U	1000 U	50 U
1,1-Dichloroethene	µg/L	3.2	600 J	1100 J	1900 J	1300	31 J
Carbon tetrachloride	µg/L	4.4	2500 U	2500 U	2500 U	1000 U	50 U
Chloroform (Trichloromethane)	µg/L	470	550 J	800 J	2500 U	1000 U	50 U
cis-1,2-Dichloroethene	µg/L	16.00	100000	100000	100000	34000	2300
Methylene chloride	µg/L	1600	10000 U	10000 U	10000 U	4000 U	25 J
Tetrachloroethene	µg/L	8.85	2500 U	2500 U	2500 U	1000 U	50 U
trans-1,2-Dichloroethene	µg/L	10000	2500 J	2600	2000 J	340 J	33 J
Trichloroethene	µg/L	81	12000	1600 J	1200 J	25000	630
Vinyl chloride	µg/L	2.4	17000	38000	32000	4200	430

TABLE 4.17

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>WW-A1R</i>	<i>WW-A1R</i>	<i>WW-B4</i>	<i>WW-B4</i>	<i>WW-B4</i>	
<i>Sample ID:</i>		<i>GW-082512-KB-WWA1R-011</i>	<i>GW-082512-KB-WWA1R-012</i>	<i>GW-050206-WW-B4-DR-004</i>	<i>GW-050206-WW-B4-DR-005</i>	<i>GW-050206-WW-B4-MM-006</i>	
<i>Sample Date:</i>		<i>8/25/2012</i>	<i>8/25/2012</i>	<i>5/2/2006</i>	<i>5/2/2006</i>	<i>5/2/2006</i>	
<i>Sample Depth:</i>		<i>95 to 95 ft BML</i>	<i>106 to 106 ft BML</i>	<i>80 to 82 ft bml</i>	<i>85 to 87 ft bml</i>	<i>90 to 92 ft bml</i>	
<i>elev_MLLW</i>		<i>-129.18 to -129.18</i>	<i>-140.18 to -140.18</i>	<i>-75.8 to -77.8</i>	<i>-80.8 to -82.8</i>	<i>-85.8 to -87.8</i>	
<i>elev_NGVD</i>		<i>-135.5 to -135.5</i>	<i>-146.5 to -146.5</i>	<i>-82.1 to -84.1</i>	<i>-87.1 to -89.1</i>	<i>-92.1 to -94.1</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
VOAs							
1,1,2,2-Tetrachloroethane	µg/L	11	25 U	5.0 U	0.081 U	0.081 U	0.081 U
1,1,2-Trichloroethane	µg/L	42	25 U	5.0 U	0.082 U	0.082 U	0.082 U
1,1-Dichloroethene	µg/L	3.2	8.0 J	2.1 J	0.086 U	0.086 U	0.086 U
Carbon tetrachloride	µg/L	4.4	25 U	5.0 U	0.082 U	0.082 U	0.082 U
Chloroform (Trichloromethane)	µg/L	470	25 U	5.0 U	0.070 U	0.070 U	0.070 U
cis-1,2-Dichloroethene	µg/L	16.00	820	330	0.50 J	0.26 J	0.062 U
Methylene chloride	µg/L	1600	8.5 J	1.5 J	0.31 U	0.31 U	0.31 U
Tetrachloroethene	µg/L	8.85	5.5 J	5.0 U	0.066 U	0.066 U	0.066 U
trans-1,2-Dichloroethene	µg/L	10000	12 J	3.9 J	0.091 U	0.091 U	0.091 U
Trichloroethene	µg/L	81	210	59	0.055 U	0.055 U	0.055 U
Vinyl chloride	µg/L	2.4	200	56	0.15 J	0.14 U	0.14 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	WW-B4
Sample ID:	GW-050306-WW-B4-MM-007
Sample Date:	5/3/2006
Sample Depth:	115 to 117 ft bml
elev_MLLW	-110.8 to -112.8
elev_NGVD	-117.1 to -119.1

Parameters	Units CSI WG
-------------------	---------------------

VOAs

1,1,2,2-Tetrachloroethane	μg/L	11	0.081 U
1,1,2-Trichloroethane	μg/L	42	0.082 U
1,1-Dichloroethene	μg/L	3.2	0.086 U
Carbon tetrachloride	μg/L	4.4	0.082 U
Chloroform (Trichloromethane)	μg/L	470	0.070 U
cis-1,2-Dichloroethene	μg/L	16.00	0.26 J
Methylene chloride	μg/L	1600	0.31 U
Tetrachloroethene	μg/L	8.85	0.066 U
trans-1,2-Dichloroethene	μg/L	10000	0.091 U
Trichloroethene	μg/L	81	0.055 U
Vinyl chloride	μg/L	2.4	0.28 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (VOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Notes:

- (1) Site COCs per Tables 3.1 and 3.2 of the Statement of Work (January 2005). Additional non-COC analytical results are presented in the eDAT located in Appendix F.
- (2) Groundwater Cleanup Levels per Table 4.8.
- BGS Below ground surface.
- MLLW Mean lower low water.
- NGVD National geodetic vertical datum.
- COCs Constituents of concern.
- µg/L Microgram per liter.
- MS/cm Milliseimens per centimeter.
- s.u. Standard units.
- Deg C Degree Celsius.
- ntu Nepheletic turbidity units.
- NV No cleanup level has been established for this parameter.
- * Cleanup Level established at a concentration equal to the practical quantitation limit for that chemical in accordance the WAC 173-340-700 (6)(d). Value may decrease with improvements in analytical methods.
- 500** Concentration exceeds the Groundwater Cleanup Level.
- Not analyzed.
- U Not detected at associated concentration.
- J Estimated concentration.
- R Rejected.

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>3-25</i>	<i>14-25R</i>	<i>14-50R</i>	<i>15-120</i>	<i>16-25</i>	<i>16-50</i>
<i>Sample ID:</i>	<i>WG-082812-JN-3-25-001</i>	<i>WG-081312-TS-14-25R-029</i>	<i>WG-081312-TS-14-50R-030</i>	<i>WG-081512-TS-15-120-032</i>	<i>GW-16-25-TR-0704</i>	<i>GW-16-50-TR-0704</i>
<i>Sample Date:</i>	<i>8/28/2012</i>	<i>8/13/2012</i>	<i>8/13/2012</i>	<i>8/15/2012</i>	<i>7/5/2004</i>	<i>7/5/2004</i>
<i>Sample Depth:</i>	<i>25 ft BGS</i>	<i>25 ft BGS</i>	<i>50 ft BGS</i>	<i>120 ft BGS</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>
<i>elev_MLLW</i>	<i>-6.05</i>	<i>-7.39</i>	<i>-32.25</i>	<i>-102.43</i>	<i>-6.93</i>	<i>-31.86</i>
<i>elev_NGVD</i>	<i>-12.4</i>	<i>-13.7</i>	<i>-38.6</i>	<i>-108.8</i>	<i>-13.2</i>	<i>-38.2</i>

Parameters *Units* *CSI* *WG*

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	1.9 U	0.20 U	0.20 U	2.0 U	1.33 U	1.33 U
Hexachlorobenzene (dissolved)	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	1.9 U	0.20 U	0.20 U	2.0 U	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	9.5 U	1.0 U	1.9	10 U	1.87 U	1.87 U
Pentachlorophenol (dissolved)	µg/L	7.9	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

Sample Location:	17-24	17-50R	17-50R	17C-25	17C-25	17C-50
Sample ID:	GW-17-24-TR-0704	GW-17-50R-0604	GW-17-50R-TR-0704	WG-080612-AMK-17C-25-033	WG-080612-AMK-FD02-299	WG-080612-ALK-17C-50-034
Sample Date:	7/20/2004	6/1/2004	7/5/2004	8/6/2012	8/6/2012	8/6/2012
Sample Depth:	24 ft bgs	50 ft bgs	50 ft bgs	25 ft BGS	25 ft BGS	50 ft BGS
elev_MLLW	-6.36	-32.32	-32.32	-7.01	-7.01	-32.01
elev_NGVD	-12.7	-38.6	-38.6	-13.3	-13.3	-38.3
					(Duplicate)	

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	1.33 U	-	1.33 U	0.20 U	0.20 U	0.19 U
Hexachlorobenzene (dissolved)	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	1.0 U	-	0.20 U	0.20 U	0.19 U
Hexachlorobutadiene (dissolved)	µg/L	0.013	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	1.87 U	-	1.87 U	0.97 U	0.97 U	0.95 U
Pentachlorophenol (dissolved)	µg/L	7.9	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		60-50	65-15	65-25	65-25	65-50	66-15	66-25	66-50	
<i>Sample ID:</i>		WG-081512-TS-60-50-099	GW-65-15-TR-0704	GW-65-25-TR-0704	GW-FD1-TR-0704	GW-65-50-TR-0704	GW-66-15-TR-0704	GW-66-25-TR-0704	GW-66-50-TR-0704	
<i>Sample Date:</i>		8/15/2012	7/18/2004	7/18/2004	7/18/2004	7/10/2004	7/10/2004	7/10/2004	7/10/2004	
<i>Sample Depth:</i>		50 ft BGS	15 ft bgs	25 ft bgs	25 ft bgs	50 ft bgs	15 ft bgs	25 ft bgs	50 ft bgs	
<i>elev_MLLW</i>		-32.55	2.79	-7.23	-7.23	-32.22	3.07	-6.88	-31.88	
<i>elev_NGVD</i>		-38.9	-3.5	-13.6	-13.6	-38.5	-3.2	-13.2	-38.2	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>							
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/L	0.00077	0.40 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U
Hexachlorobenzene (dissolved)	µg/L	0.00077	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	0.40 U	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	2.0 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U
Pentachlorophenol (dissolved)	µg/L	7.9	-	-	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		67-25	67-50	68-25	68-50	69-25	69-50	70-25	70-50
<i>Sample ID:</i>		GW-67-25-TR-0704	GW-67-50-TR-0704	GW-68-25-TR-0704	GW-68-50-TR-0704	GW-69-25-TR-0704	GW-69-50-TR-0704	GW-70-25-TR-0704	GW-70-50-TR-0704
<i>Sample Date:</i>		7/15/2004	7/15/2004	7/14/2004	7/14/2004	7/14/2004	7/14/2004	7/13/2004	7/13/2004
<i>Sample Depth:</i>		25 ft bgs	50 ft bgs	25 ft bgs	50 ft bgs	25 ft bgs	50 ft bgs	25 ft bgs	50 ft bgs
<i>elev_MLLW</i>		-7.34	-32.24	-7.33	-32.35	-8.29	-33.28	-8.17	-33.18
<i>elev_NGVD</i>		-13.7	-38.6	-13.6	-38.7	-14.6	-39.6	-14.5	-39.5
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
Semi-volatile Organic Compounds									
Hexachlorobenzene	µg/L	0.00077		1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U
Hexachlorobenzene (dissolved)	µg/L	0.00077		-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013		-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013		-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9		1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U
Pentachlorophenol (dissolved)	µg/L	7.9		-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>			70-50	71-25	71-50	72-25	72-50	73-25	73-50	90C-75
<i>Sample ID:</i>			GW-0704-TR-FD1	GW-71-25-TR-0704	GW-71-50-TR-0704	GW-72-25-TR-0704	GW-72-50-TR-0704	GW-73-25-TR-0704	GW-73-50-TR-0704	GW-092513-NH-90C-75
<i>Sample Date:</i>			7/13/2004	7/13/2004	7/13/2004	7/12/2004	7/12/2004	7/12/2004	7/12/2004	9/25/2013
<i>Sample Depth:</i>			50 ft bgs	25 ft bgs	50 ft bgs	25 ft bgs	50 ft bgs	25 ft bgs	50 ft bgs	
<i>elev_MLLW</i>			-33.18	-7.86	-32.98	-8.4	-33.51	-8.18	-33.29	
<i>elev_NGVD</i>			-39.5	-14.2	-39.3	-14.7	-39.8	-14.5	-39.6	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>							
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/L	0.00077	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	0.0040 U
Hexachlorobenzene (dissolved)	µg/L	0.00077	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	0.0067 U
Hexachlorobutadiene (dissolved)	µg/L	0.013	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 UJ	1.87 U	-
Pentachlorophenol (dissolved)	µg/L	7.9	-	-	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	94C-75	94C-100	94C-130	5106-1	5106-1	5106-1
Sample ID:	GW-092413-NH-94C-75	GW-092413-NH-94C-100	GW-092413-NH-94C-130	GW-092705-5106-1-001	GW-092705-5106-1-002	GW-092705-5106-1-003
Sample Date:	9/24/2013	9/24/2013	9/24/2013	9/27/2005	9/27/2005	9/27/2005
Sample Depth:				6 to 9 ft bml	10 to 13 ft bml	15 to 18 ft bml
elev_MLLW				-48.3 to -51.3	-52.3 to -55.3	-57.3 to -60.3
elev_NGVD				-54.6 to -57.6	-58.6 to -61.6	-63.6 to -66.6

Parameters Units CSI WG

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	0.00067 J	0.0041 J	0.026	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	-	-	-	0.00355 U	0.00355 U	0.00355 U
Hexachlorobutadiene	µg/L	0.013	1.5 U	3.8 U	0.79 U	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	-	-	-	0.00243 U	0.00243 U	0.00243 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	-	-	-	0.0234 U	0.0329 J	0.0234 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-1	5106-1	5106-1	5106-1	5106-1	5106-1
<i>Sample ID:</i>		GW-092705-5106-1-004	GW-092705-5106-1-005	GW-092705-5106-1-006	GW-092705-5106-1-008	GW-092705-5106-1-009	GW-092705-5106-1-010
<i>Sample Date:</i>		9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005
<i>Sample Depth:</i>		20 to 23 ft bml	25 to 28 ft bml	30 to 33 ft bml	35 to 38 ft bml	40 to 43 ft bml	45 to 48 ft bml
<i>elev_MLLW</i>		-62.3 to -65.3	-67.3 to -70.3	-72.3 to -75.3	-77.3 to -80.3	-82.3 to -85.3	-87.3 to -90.3
<i>elev_NGVD</i>		-68.6 to -71.6	-73.6 to -76.6	-78.6 to -81.6	-83.6 to -86.6	-88.6 to -91.6	-93.6 to -96.6
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00355 U	0.00356 U	0.00352 U	0.00355 U	0.00355 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00243 U	0.00244 U	0.00241 U	0.00243 U	0.00243 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0234 U	0.0479	0.994	0.0234 U	0.0234 U

0.00843 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-1</i>		<i>5106-1</i>		<i>5106-1</i>		<i>5106-1</i>		<i>5106-1</i>	
<i>Sample ID:</i>	<i>GW-092805-5106-1-011</i>	<i>GW-092805-5106-1-012</i>	<i>GW-092805-5106-1-013</i>	<i>GW-092805-5106-1-014</i>	<i>GW-092805-5106-1-015</i>	<i>GW-092805-5106-1-016</i>				
<i>Sample Date:</i>	<i>9/28/2005</i>	<i>9/28/2005</i>	<i>9/28/2005</i>	<i>9/28/2005</i>	<i>9/28/2005</i>	<i>9/28/2005</i>				
<i>Sample Depth:</i>	<i>50 to 53 ft bml</i>	<i>55 to 58 ft bml</i>	<i>60 to 63 ft bml</i>	<i>65 to 68 ft bml</i>	<i>70 to 73 ft bml</i>	<i>75 to 78 ft bml</i>				
<i>elev_MLLW</i>	<i>-92.3 to -95.3</i>	<i>-97.3 to -100.3</i>	<i>-102.3 to -105.3</i>	<i>-107.3 to -110.3</i>	<i>-112.3 to -115.3</i>	<i>-117.3 to -120.3</i>				
<i>elev_NGVD</i>	<i>-98.6 to -101.6</i>	<i>-103.6 to -106.6</i>	<i>-108.6 to -111.6</i>	<i>-113.6 to -116.6</i>	<i>-118.6 to -121.6</i>	<i>-123.6 to -126.6</i>				
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>							
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00353 U	0.00351 U	0.00356 U	0.00355 UJ	0.00355 U	0.00355 U	0.00355 U	0.00355 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00242 U	0.0024 U	0.00244 U	0.00243 UJ	0.00243 U	0.00243 U	0.00243 U	0.00243 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	1.1	0.659	0.0235 U	0.0234 U	0.0234 U	0.0234 U	0.0234 U	0.0234 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-1</i>		<i>5106-1</i>		<i>5106-1</i>		<i>5106-1</i>		<i>5106-2</i>		<i>5106-2</i>	
<i>Sample ID:</i>	<i>GW-092805-5106-1-017</i>		<i>GW-092805-5106-1-018</i>		<i>GW-092805-5106-1-019</i>		<i>GW-092905-5106-1-020</i>		<i>GW-013006-5106-2-001</i>		<i>GW-013006-5106-2-002</i>	
<i>Sample Date:</i>	<i>9/28/2005</i>		<i>9/28/2005</i>		<i>9/29/2005</i>		<i>9/29/2005</i>		<i>1/30/2006</i>		<i>1/30/2006</i>	
<i>Sample Depth:</i>	<i>80 to 83 ft bml</i>		<i>85 to 88 ft bml</i>		<i>90 to 93 ft bml</i>		<i>95 to 98 ft bml</i>		<i>0 to 3 ft bml</i>		<i>4 to 7 ft bml</i>	
<i>elev_MLLW</i>	<i>-122.3 to -125.3</i>		<i>-127.3 to -130.3</i>		<i>-132.3 to -135.3</i>		<i>-137.3 to -140.3</i>		<i>-44.6 to -47.6</i>		<i>-48.6 to -51.6</i>	
<i>elev_NGVD</i>	<i>-128.6 to -131.6</i>		<i>-133.6 to -136.6</i>		<i>-138.6 to -141.6</i>		<i>-143.6 to -146.6</i>		<i>-50.9 to -53.9</i>		<i>-54.9 to -57.9</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>									
<i>Semi-volatile Organic Compounds</i>												
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00356 U	0.00358 U	0.00356 U	0.00356 U	0.00356 U	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00244 U	0.00245 U	0.00244 U	0.00244 U	0.00244 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0235 U	0.0236 U	0.0235 U	0.0235 U	0.0235 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	5106-2	5106-2	5106-2	5106-2	5106-2	5106-2
Sample ID:	GW-013006-5106-2-003	GW-013006-5106-2-004	GW-013006-5106-2-005	GW-013006-5106-2-006	GW-013106-5106-2-007	GW-013106-5106-2-008
Sample Date:	1/30/2006	1/30/2006	1/30/2006	1/30/2006	1/31/2006	1/31/2006
Sample Depth:	14 to 17 ft bml	24 to 27 ft bml	34 to 37 ft bml	44 to 47 ft bml	54 to 57 ft bml	64 to 67 ft bml
elev_MLLW	-58.6 to -61.6	-68.6 to -71.6	-78.6 to -81.6	-88.6 to -91.6	-98.6 to -101.6	-108.6 to -111.6
elev_NGVD	-64.9 to -67.9	-74.9 to -77.9	-84.9 to -87.9	-94.9 to -97.9	-104.9 to -107.9	-114.9 to -117.9

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	18	1.50 U	62	1.50 U	2.3 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>5106-2</i>	<i>5106-2</i>	<i>5106-2</i>	<i>5106-2</i>	<i>5106-2</i>	<i>5106-3</i>
<i>Sample ID:</i>		<i>GW-013106-5106-2-009</i>	<i>GW-013106-5106-2-010</i>	<i>GW-013106-5106-2-011</i>	<i>GW-013106-5106-2-012</i>	<i>GW-013106-5106-2-013</i>	<i>GW-091905-5106-3-001</i>
<i>Sample Date:</i>		<i>1/31/2006</i>	<i>1/31/2006</i>	<i>1/31/2006</i>	<i>1/31/2006</i>	<i>1/31/2006</i>	<i>9/19/2005</i>
<i>Sample Depth:</i>		<i>64 to 67 ft bml</i>	<i>74 to 77 ft bml</i>	<i>84 to 87 ft bml</i>	<i>94 to 97 ft bml</i>	<i>104 to 107 ft bml</i>	<i>4 to 7 ft bml</i>
<i>elev_MLLW</i>		<i>-108.6 to -111.6</i>	<i>-118.6 to -121.6</i>	<i>-128.6 to -131.6</i>	<i>-138.6 to -141.6</i>	<i>-148.6 to -151.6</i>	<i>-46 to -49</i>
<i>elev_NGVD</i>		<i>-114.9 to -117.9</i>	<i>-124.9 to -127.9</i>	<i>-134.9 to -137.9</i>	<i>-144.9 to -147.9</i>	<i>-154.9 to -157.9</i>	<i>-52.3 to -55.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.080 UJ	0.080 U	0.016 U	0.016 U	0.00355 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.25 UJ	0.25 U	0.05 U	0.05 U	0.00243 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	1.50 U	1.50 U	0.30 UJ	0.30 U	0.0234 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-3</i>		<i>5106-3</i>		<i>5106-3</i>		<i>5106-3</i>		<i>5106-3</i>	
<i>Sample ID:</i>	<i>GW-091905-5106-3-002</i>	<i>GW-091905-5106-3-003</i>	<i>GW-091905-5106-3-004</i>	<i>GW-091905-5106-3-005</i>	<i>GW-092005-5106-3-006</i>	<i>GW-092005-5106-3-007</i>				
<i>Sample Date:</i>	<i>9/19/2005</i>	<i>9/19/2005</i>	<i>9/19/2005</i>	<i>9/19/2005</i>	<i>9/20/2005</i>	<i>9/20/2005</i>				
<i>Sample Depth:</i>	<i>9 to 12 ft bml</i>	<i>14 to 17 ft bml</i>	<i>19 to 22 ft bml</i>	<i>25 to 28 ft bml</i>	<i>29 to 32 ft bml</i>	<i>35 to 38 ft bml</i>				
<i>elev_MLLW</i>	<i>-51 to -54</i>	<i>-56 to -59</i>	<i>-61 to -64</i>	<i>-67 to -70</i>	<i>-71 to -74</i>	<i>-77 to -80</i>				
<i>elev_NGVD</i>	<i>-57.3 to -60.3</i>	<i>-62.3 to -65.3</i>	<i>-67.3 to -70.3</i>	<i>-73.3 to -76.3</i>	<i>-77.3 to -80.3</i>	<i>-83.3 to -86.3</i>				
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>							
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00365 U	0.00358 U	0.00354 UJ	0.00355 U	0.00355 UJ	0.00352 UJ	0.00352 UJ	
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.0025 U	0.00245 U	0.00242 UJ	0.00243 U	0.00243 UJ	0.00241 UJ	0.00241 UJ	
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.991 J	2.21 J	0.39 J	0.0234 UJ	0.0234 UJ	0.0232 UJ	0.0232 UJ	

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-3	5106-3	5106-3	5106-3	5106-3	5106-3
<i>Sample ID:</i>		GW-092105-5106-3-015	GW-092105-5106-3-016	GW-092105-5106-3-017	GW-092105-5106-3-018	GW-092105-5106-3-019	GW-092105-5106-3-020
<i>Sample Date:</i>		9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/21/2005
<i>Sample Depth:</i>		74 to 77 ft bml	79 to 82 ft bml	79 to 82 ft bml	84 to 87 ft bml	89 to 92 ft bml	94 to 97 ft bml
<i>elev_MLLW</i>		-116 to -119	-121 to -124	-121 to -124	-126 to -129	-131 to -134	-136 to -139
<i>elev_NGVD</i>		-122.3 to -125.3	-127.3 to -130.3	-127.3 to -130.3 (Duplicate)	-132.3 to -135.3	-137.3 to -140.3	-142.3 to -145.3
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.0471	0.00355 U	0.00354 U	0.00353 U	0.00354 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00244 U	0.00243 U	0.00242 U	0.0024 U	0.00242 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0235 UJ	0.0234 UJ	0.0233 UJ	0.0233 UJ	0.0233 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>5106-3</i>	<i>5106-3</i>	<i>5106-3</i>	<i>5106-3</i>	<i>5106-5</i>	<i>5106-5</i>
<i>Sample ID:</i>		<i>GW-092205-5106-3-021</i>	<i>GW-092205-5106-3-022</i>	<i>GW-092205-5106-3-023</i>	<i>GW-092205-5106-3-024</i>	<i>GW-090905-5106-5-001</i>	<i>GW-090905-5106-5-002</i>
<i>Sample Date:</i>		<i>9/22/2005</i>	<i>9/22/2005</i>	<i>9/22/2005</i>	<i>9/22/2005</i>	<i>9/9/2005</i>	<i>9/9/2005</i>
<i>Sample Depth:</i>		<i>99 to 102 ft bml</i>	<i>104 to 107 ft bml</i>	<i>109 to 112 ft bml</i>	<i>114 to 117 ft bml</i>	<i>4 to 7 ft bml</i>	<i>9 to 12 ft bml</i>
<i>elev_MLLW</i>		<i>-141 to -144</i>	<i>-146 to -149</i>	<i>-151 to -154</i>	<i>-156 to -159</i>	<i>-46.1 to -49.1</i>	<i>-51.1 to -54.1</i>
<i>elev_NGVD</i>		<i>-147.3 to -150.3</i>	<i>-152.3 to -155.3</i>	<i>-157.3 to -160.3</i>	<i>-162.3 to -165.3</i>	<i>-52.4 to -55.4</i>	<i>-57.4 to -60.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00361 U	0.00368 U	0.00353 U	0.00353 U	0.00358 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00247 U	0.00252 U	0.00241 U	0.00241 U	0.00245 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0238 UJ	0.0243 UJ	0.0233 U	0.0233 U	0.826

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-5</i>		<i>5106-5</i>		<i>5106-5</i>		<i>5106-5</i>		<i>5106-5</i>	
<i>Sample ID:</i>	<i>GW-090905-5106-5-003</i>	<i>GW-090905-5106-5-004</i>	<i>GW-090905-5106-5-005</i>	<i>GW-090905-5106-5-006</i>	<i>GW-090905-5106-5-007</i>	<i>GW-090905-5106-5-008</i>				
<i>Sample Date:</i>	<i>9/9/2005</i>	<i>9/9/2005</i>	<i>9/9/2005</i>	<i>9/9/2005</i>	<i>9/9/2005</i>	<i>9/9/2005</i>				
<i>Sample Depth:</i>	<i>14 to 17 ft bml</i>	<i>19 to 22 ft bml</i>	<i>24 to 27 ft bml</i>	<i>29 to 32 ft bml</i>	<i>34 to 37 ft bml</i>	<i>39 to 42 ft bml</i>				
<i>elev_MLLW</i>	<i>-56.1 to -59.1</i>	<i>-61.1 to -64.1</i>	<i>-66.1 to -69.1</i>	<i>-71.1 to -74.1</i>	<i>-76.1 to -79.1</i>	<i>-81.1 to -84.1</i>				
<i>elev_NGVD</i>	<i>-62.4 to -65.4</i>	<i>-67.4 to -70.4</i>	<i>-72.4 to -75.4</i>	<i>-77.4 to -80.4</i>	<i>-82.4 to -85.4</i>	<i>-87.4 to -90.4</i>				
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>							
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00355 U	0.00357 U	0.00357 U	0.00357 U	0.00361 U	0.00358 U	0.00358 U	0.00358 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00243 U	0.00244 U	0.00244 U	0.00244 U	0.00247 U	0.00245 U	0.00245 U	0.00245 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0234 U	0.0235 U	0.0235 U	0.0235 U	0.0238 U	0.0236 U	0.0236 U	0.0236 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>5106-5</i>	<i>5106-5</i>	<i>5106-5</i>	<i>5106-5</i>	<i>5106-5</i>	<i>5106-5</i>
<i>Sample ID:</i>		<i>GW-090905-5106-5-009</i>	<i>GW-090905-5106-5-010</i>	<i>GW-090905-5106-5-011</i>	<i>GW-091005-5106-5-012</i>	<i>GW-091005-5106-5-013</i>	<i>GW-091205-5106-5-014</i>
<i>Sample Date:</i>		<i>9/9/2005</i>	<i>9/9/2005</i>	<i>9/9/2005</i>	<i>9/10/2005</i>	<i>9/10/2005</i>	<i>9/12/2005</i>
<i>Sample Depth:</i>		<i>44 to 47 ft bml</i>	<i>49 to 52 ft bml</i>	<i>54 to 57 ft bml</i>	<i>59 to 61 ft bml</i>	<i>64 to 67 ft bml</i>	<i>69 to 72 ft bml</i>
<i>elev_MLLW</i>		<i>-86.1 to -89.1</i>	<i>-91.1 to -94.1</i>	<i>-96.1 to -99.1</i>	<i>-101.1 to -103.1</i>	<i>-106.1 to -109.1</i>	<i>-111.1 to -114.1</i>
<i>elev_NGVD</i>		<i>-92.4 to -95.4</i>	<i>-97.4 to -100.4</i>	<i>-102.4 to -105.4</i>	<i>-107.4 to -109.4</i>	<i>-112.4 to -115.4</i>	<i>-117.4 to -120.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00392 U	0.0036 U	0.00354 U	0.00375 U	0.00357 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00268 U	0.00246 U	0.00242 U	0.00256 U	0.00244 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0258 U	0.0237 U	0.0233 U	0.0247 U	0.0235 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	5106-5	5106-5	5106-6	5106-6	5106-6	5106-6
Sample ID:	GW-091205-5106-5-015	GW-091205-5106-5-016	GW-101705-5106-6-001	GW-101705-5106-6-002	GW-101705-5106-6-003	GW-101705-5106-6-004
Sample Date:	9/12/2005	9/12/2005	10/17/2005	10/17/2005	10/17/2005	10/17/2005
Sample Depth:	74 to 77 ft bml	79 to 82 ft bml	8 to 11 ft bml	13 to 16 ft bml	18 to 21 ft bml	23 to 26 ft bml
elev_MLLW	-116.1 to -119.1	-121.1 to -124.1	-50.6 to -53.6	-55.6 to -58.6	-60.6 to -63.6	-65.6 to -68.6
elev_NGVD	-122.4 to -125.4	-127.4 to -130.4	-56.9 to -59.9	-61.9 to -64.9	-66.9 to -69.9	-71.9 to -74.9

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00357 U	0.00359 U	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00244 U	0.00246 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0235 U	0.0237 U	2.1	0.30 U	1.6	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>5106-6</i>	<i>5106-6</i>	<i>5106-6</i>	<i>5106-6</i>	<i>5106-6</i>	<i>5106-6</i>
<i>Sample ID:</i>		<i>GW-101705-5106-6-005</i>	<i>GW-101805-5106-6-006</i>	<i>GW-101805-5106-6-007</i>	<i>GW-101805-5106-6-008</i>	<i>GW-101805-5106-6-009</i>	<i>GW-101805-5106-6-010</i>
<i>Sample Date:</i>		<i>10/17/2005</i>	<i>10/18/2005</i>	<i>10/18/2005</i>	<i>10/18/2005</i>	<i>10/18/2005</i>	<i>10/18/2005</i>
<i>Sample Depth:</i>		<i>23 to 26 ft bml</i>	<i>28 to 31 ft bml</i>	<i>33 to 36 ft bml</i>	<i>38 to 41 ft bml</i>	<i>43 to 46 ft bml</i>	<i>48 to 51 ft bml</i>
<i>elev_MLLW</i>		<i>-65.6 to -68.6</i>	<i>-70.6 to -73.6</i>	<i>-75.6 to -78.6</i>	<i>-80.6 to -83.6</i>	<i>-85.6 to -88.6</i>	<i>-90.6 to -93.6</i>
<i>elev_NGVD</i>		<i>-71.9 to -74.9</i>	<i>-76.9 to -79.9</i>	<i>-81.9 to -84.9</i>	<i>-86.9 to -89.9</i>	<i>-91.9 to -94.9</i>	<i>-96.9 to -99.9</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 UJ	0.016 UJ
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	1.7	0.30 U	0.30 U	0.81 J	0.30 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	5106-6	5106-6	5106-6	5106-6	5106-6	5106-6
Sample ID:	GW-101805-5106-6-011	GW-101805-5106-6-012	GW-101805-5106-6-013	GW-101805-5106-6-014	GW-101805-5106-6-015	GW-101905-5106-6-016
Sample Date:	10/18/2005	10/18/2005	10/18/2005	10/18/2005	10/18/2005	10/19/2005
Sample Depth:	53 to 56 ft bml	58 to 61 ft bml	63 to 66 ft bml	68 to 71 ft bml	73 to 76 ft bml	78 to 81 ft bml
elev_MLLW	-95.6 to -98.6	-100.6 to -103.6	-105.6 to -108.6	-110.6 to -113.6	-115.6 to -118.6	-120.6 to -123.6
elev_NGVD	-101.9 to -104.9	-106.9 to -109.9	-111.9 to -114.9	-116.9 to -119.9	-121.9 to -124.9	-126.9 to -129.9

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.81 J	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-6	5106-6	5106-6	5106-6	5106-6	5106-7
Sample ID:	GW-101905-5106-6-017	GW-101905-5106-6-018	GW-101905-5106-6-019	GW-101905-5106-6-020	GW-101905-5106-6-021	GW-081005-5106-7-001
Sample Date:	10/19/2005	10/19/2005	10/19/2005	10/19/2005	10/19/2005	8/10/2005
Sample Depth:	83 to 86 ft bml	88 to 91 ft bml	93 to 96 ft bml	98 to 101 ft bml	103 to 106 ft bml	6 to 9 ft bml
elev_MLLW	-125.6 to -128.6	-130.6 to -133.6	-135.6 to -138.6	-140.6 to -143.6	-145.6 to -148.6	-47.73 to -50.73
elev_NGVD	-131.9 to -134.9	-136.9 to -139.9	-141.9 to -144.9	-146.9 to -149.9	-151.9 to -154.9	-54 to -57

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.00353 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.00241 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.0232 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>5106-7</i>	<i>5106-7</i>	<i>5106-7</i>	<i>5106-7</i>	<i>5106-7</i>	<i>5106-7</i>
<i>Sample ID:</i>			<i>GW-081005-5106-7-002</i>	<i>GW-081005-5106-7-003</i>	<i>GW-081005-5106-7-004</i>	<i>GW-081005-5106-7-005</i>	<i>GW-081005-5106-7-006</i>	<i>GW-081005-5106-7-007</i>
<i>Sample Date:</i>			<i>8/10/2005</i>	<i>8/10/2005</i>	<i>8/10/2005</i>	<i>8/10/2005</i>	<i>8/10/2005</i>	<i>8/10/2005</i>
<i>Sample Depth:</i>			<i>11 to 14 ft bml</i>	<i>16 to 19 ft bml</i>	<i>21 to 24 ft bml</i>	<i>21 to 24 ft bml</i>	<i>26 to 29 ft bml</i>	<i>31 to 34 ft bml</i>
<i>elev_MLLW</i>			<i>-52.73 to -55.73</i>	<i>-57.73 to -60.73</i>	<i>-62.73 to -65.73</i>	<i>-62.73 to -65.73</i>	<i>-67.73 to -70.73</i>	<i>-72.73 to -75.73</i>
<i>elev_NGVD</i>			<i>-59 to -62</i>	<i>-64 to -67</i>	<i>-69 to -72</i>	<i>-69 to -72</i> <i>(Duplicate)</i>	<i>-74 to -77</i>	<i>-79 to -82</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00366 U	0.00361 UJ	0.00364 UJ	0.00361 UJ	0.00353 U	0.00358 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.0025 U	0.00247 UJ	0.00249 UJ	0.00247 UJ	0.00242 U	0.00245 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0241 U	0.0238 U	0.024 U	0.0238 U	0.0233 U	0.0236 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	5106-7	5106-7	5106-7	5106-7	5106-7	5106-7
Sample ID:	GW-081005-5106-7-008	GW-081105-5106-7-009	GW-081105-5106-7-010	GW-081105-5106-7-011	GW-081105-5106-7-012	GW-081105-5106-7-013
Sample Date:	8/10/2005	8/11/2005	8/11/2005	8/11/2005	8/11/2005	8/11/2005
Sample Depth:	36 to 39 ft bml	41 to 44 ft bml	46 to 49 ft bml	51 to 54 ft bml	56 to 59 ft bml	61 to 64 ft bml
elev_MLLW	-77.73 to -80.73	-82.73 to -85.73	-87.73 to -90.73	-92.73 to -95.73	-97.73 to -100.73	-102.73 to -105.73
elev_NGVD	-84 to -87	-89 to -92	-94 to -97	-99 to -102	-104 to -107	-109 to -112

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.0238	0.00364 U	0.00556 J	0.00616 J	0.00556 J	0.00348 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00249 U	0.00249 U	0.00283 J	0.00245 U	0.0024 U	0.00238 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.024 U	0.024 U	0.0232 U	0.0236 U	0.0231 U	0.0229 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-7	5106-7	5106-7	5106-7	5106-8	5106-8
Sample ID:	GW-081105-5106-7-014	GW-081105-5106-7-015	GW-081205-5106-7-016	GW-081205-5106-7-017	GW-080305-5106-8-001	GW-080305-5106-8-002
Sample Date:	8/11/2005	8/11/2005	8/12/2005	8/12/2005	8/3/2005	8/3/2005
Sample Depth:	66 to 69 ft bml	71 to 74 ft bml	76 to 79 ft bml	81 to 84 ft bml	14 to 17 ft bml	19 to 22 ft bml
elev_MLLW	-107.73 to -110.73	-112.73 to -115.73	-117.73 to -120.73	-122.73 to -125.73	-39.2 to -42.2	-44.2 to -47.2
elev_NGVD	-114 to -117	-119 to -122	-124 to -127	-129 to -132	-45.5 to -48.5	-50.5 to -53.5

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00494 J	0.00359 U	0.00478 J	0.00358 U	0.00361 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00246 U	0.00246 U	0.00249 U	0.00245 U	0.00247 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0237 U	0.0237 U	0.024 U	0.0236 U	0.0238 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-8</i>		<i>5106-8</i>		<i>5106-8</i>		<i>5106-8</i>		<i>5106-8</i>	
<i>Sample ID:</i>	<i>GW-080405-5106-8-003</i>	<i>GW-080405-5106-8-004</i>	<i>GW-080405-5106-8-005</i>	<i>GW-080405-5106-8-006</i>	<i>GW-080505-5106-8-007</i>	<i>GW-080505-5106-8-008</i>				
<i>Sample Date:</i>	<i>8/4/2005</i>	<i>8/4/2005</i>	<i>8/4/2005</i>	<i>8/4/2005</i>	<i>8/5/2005</i>	<i>8/5/2005</i>				
<i>Sample Depth:</i>	<i>24 to 27 ft bml</i>	<i>29 to 32 ft bml</i>	<i>34 to 37 ft bml</i>	<i>39 to 42 ft bml</i>	<i>44 to 47 ft bml</i>	<i>49 to 52 ft bml</i>				
<i>elev_MLLW</i>	<i>-49.2 to -52.2</i>	<i>-54.2 to -57.2</i>	<i>-59.2 to -62.2</i>	<i>-64.2 to -67.2</i>	<i>-69.2 to -72.2</i>	<i>-74.2 to -77.2</i>				
<i>elev_NGVD</i>	<i>-55.5 to -58.5</i>	<i>-60.5 to -63.5</i>	<i>-65.5 to -68.5</i>	<i>-70.5 to -73.5</i>	<i>-75.5 to -78.5</i>	<i>-80.5 to -83.5</i>				
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>							
<i>Semi-volatile Organic Compounds</i>										
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.0036 UJ	0.00347 UJ	0.00359 U	0.00356 U	0.00361 U	0.00362 U	0.00362 U	
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00246 UJ	0.00237 UJ	0.00246 U	0.00243 U	0.00247 U	0.00248 U	0.00248 U	
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0237 UJ	0.0229 U	0.0237 U	0.0401 J	0.0238 U	0.0239 U	0.0239 U	

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-8	5106-8	5106-8	5106-8	5106-8	5106-8	
<i>Sample ID:</i>		GW-080505-5106-8-009	GW-080805-5106-8-010	GW-080805-5106-8-011	GW-080805-5106-8-012	GW-080805-5106-8-013	GW-080805-5106-8-014	
<i>Sample Date:</i>		8/5/2005	8/8/2005	8/8/2005	8/8/2005	8/8/2005	8/8/2005	
<i>Sample Depth:</i>		54 to 57 ft bml	69 to 72 ft bml	74 to 77 ft bml	79 to 82 ft bml	84 to 87 ft bml	89 to 92 ft bml	
<i>elev_MLLW</i>		-79.2 to -82.2	-94.2 to -97.2	-99.2 to -102.2	-104.2 to -107.2	-109.2 to -112.2	-114.2 to -117.2	
<i>elev_NGVD</i>		-85.5 to -88.5	-100.5 to -103.5	-105.5 to -108.5	-110.5 to -113.5	-115.5 to -118.5	-120.5 to -123.5	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00357 U	0.00351 U	0.00362 U	0.00358 U	0.00355 U	0.00876 J
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00244 U	0.0024 U	0.00248 U	0.00245 U	0.00243 U	0.00242 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	
Pentachlorophenol (dissolved)	µg/L	7.9	0.0235 U	0.0231 U	0.0239 U	0.0236 U	0.0234 U	0.0233 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-8</i>	<i>5106-8</i>	<i>5106-8</i>	<i>5106-8</i>	<i>5106-8</i>	<i>5106-10</i>
<i>Sample ID:</i>	<i>GW-080905-5106-8-015</i>	<i>GW-080905-5106-8-016</i>	<i>GW-080905-5106-8-017</i>	<i>GW-080905-5106-8-018</i>	<i>GW-080905-5106-8-019</i>	<i>GW-110205-5106-10-001</i>
<i>Sample Date:</i>	<i>8/9/2005</i>	<i>8/9/2005</i>	<i>8/9/2005</i>	<i>8/9/2005</i>	<i>8/9/2005</i>	<i>11/2/2005</i>
<i>Sample Depth:</i>	<i>94 to 97 ft bml</i>	<i>94 to 97 ft bml</i>	<i>99 to 102 ft bml</i>	<i>104 to 107 ft bml</i>	<i>109 to 112 ft bml</i>	<i>2 to 5 ft bml</i>
<i>elev_MLLW</i>	<i>-119.2 to -122.2</i>	<i>-119.2 to -122.2</i>	<i>-124.2 to -127.2</i>	<i>-129.2 to -132.2</i>	<i>-134.2 to -137.2</i>	<i>-38.9 to -41.9</i>
<i>elev_NGVD</i>	<i>-125.5 to -128.5</i>	<i>-125.5 to -128.5</i>	<i>-130.5 to -133.5</i>	<i>-135.5 to -138.5</i>	<i>-140.5 to -143.5</i>	<i>-45.2 to -48.2</i>
		<i>(Duplicate)</i>				
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Semi-volatile Organic Compounds</i>						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.0101	0.00537 J	0.00356 U	0.00356 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00239 U	0.00242 U	0.00243 U	0.00244 U
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.023 U	0.0233 U	0.0234 U	0.0235 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	5106-10	5106-10	5106-10	5106-10	5106-10	5106-10
Sample ID:	GW-110205-5106-10-002	GW-110305-5106-10-003	GW-110305-5106-10-004	GW-110305-5106-10-005	GW-110305-5106-10-006	GW-110305-5106-10-007
Sample Date:	11/2/2005	11/3/2005	11/3/2005	11/3/2005	11/3/2005	11/3/2005
Sample Depth:	7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml	32 to 35 ft bml
elev_MLLW	-43.9 to -46.9	-48.9 to -51.9	-53.9 to -56.9	-58.9 to -61.9	-63.9 to -66.9	-68.9 to -71.9
elev_NGVD	-50.2 to -53.2	-55.2 to -58.2	-60.2 to -63.2	-65.2 to -68.2	-70.2 to -73.2	-75.2 to -78.2

Parameters Units CSI WG

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	R	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>5106-10</i>	<i>5106-10</i>	<i>5106-10</i>	<i>5106-10</i>	<i>5106-10</i>	<i>5106-10</i>
<i>Sample ID:</i>		<i>GW-110305-5106-10-008</i>	<i>GW-110305-5106-10-009</i>	<i>GW-110305-5106-10-010</i>	<i>GW-110305-5106-10-011</i>	<i>GW-110305-5106-10-012</i>	<i>GW-110305-5106-10-013</i>
<i>Sample Date:</i>		<i>11/3/2005</i>	<i>11/3/2005</i>	<i>11/3/2005</i>	<i>11/3/2005</i>	<i>11/3/2005</i>	<i>11/3/2005</i>
<i>Sample Depth:</i>		<i>32 to 35 ft bml</i>	<i>37 to 40 ft bml</i>	<i>42 to 45 ft bml</i>	<i>47 to 50 ft bml</i>	<i>52 to 55 ft bml</i>	<i>57 to 60 ft bml</i>
<i>elev_MLLW</i>		<i>-68.9 to -71.9</i>	<i>-73.9 to -76.9</i>	<i>-78.9 to -81.9</i>	<i>-83.9 to -86.9</i>	<i>-88.9 to -91.9</i>	<i>-93.9 to -96.9</i>
<i>elev_NGVD</i>		<i>-75.2 to -78.2</i>	<i>-80.2 to -83.2</i>	<i>-85.2 to -88.2</i>	<i>-90.2 to -93.2</i>	<i>-95.2 to -98.2</i>	<i>-100.2 to -103.2</i>
		<i>(Duplicate)</i>					
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	5106-10	5106-10	5106-10	5106-10	5106-10	5106-10
Sample ID:	GW-110305-5106-10-014	GW-110405-5106-10-015	GW-110405-5106-10-016	GW-110405-5106-10-017	GW-110405-5106-10-018	GW-110405-5106-10-019
Sample Date:	11/3/2005	11/4/2005	11/4/2005	11/4/2005	11/4/2005	11/4/2005
Sample Depth:	62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml	77 to 80 ft bml	82 to 85 ft bml	87 to 90 ft bml
elev_MLLW	-98.9 to -101.9	-103.9 to -106.9	-108.9 to -111.9	-113.9 to -116.9	-118.9 to -121.9	-123.9 to -126.9
elev_NGVD	-105.2 to -108.2	-110.2 to -113.2	-115.2 to -118.2	-120.2 to -123.2	-125.2 to -128.2	-130.2 to -133.2

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-10</i>	<i>5106-10</i>	<i>5106-10</i>	<i>5106-10</i>	<i>5106-10</i>	<i>5106-10</i>
<i>Sample ID:</i>	<i>GW-110405-5106-10-020</i>	<i>GW-110705-5106-10-021</i>	<i>GW-110705-5106-10-022</i>	<i>GW-110705-5106-10-023</i>	<i>GW-110705-5106-10-024</i>	<i>GW-110705-5106-10-025</i>
<i>Sample Date:</i>	<i>11/4/2005</i>	<i>11/7/2005</i>	<i>11/7/2005</i>	<i>11/7/2005</i>	<i>11/7/2005</i>	<i>11/7/2005</i>
<i>Sample Depth:</i>	<i>92 to 95 ft bml</i>	<i>97 to 100 ft bml</i>	<i>102 to 105 ft bml</i>	<i>107 to 110 ft bml</i>	<i>107 to 110 ft bml</i>	<i>112 to 115 ft bml</i>
<i>elev_MLLW</i>	<i>-128.9 to -131.9</i>	<i>-133.9 to -136.9</i>	<i>-138.9 to -141.9</i>	<i>-143.9 to -146.9</i>	<i>-143.9 to -146.9</i>	<i>-148.9 to -151.9</i>
<i>elev_NGVD</i>	<i>-135.2 to -138.2</i>	<i>-140.2 to -143.2</i>	<i>-145.2 to -148.2</i>	<i>-150.2 to -153.2</i>	<i>-150.2 to -153.2</i>	<i>-155.2 to -158.2</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			<i>(Duplicate)</i>
<i>Semi-volatile Organic Compounds</i>						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>5106-10</i>	<i>5106-10</i>	<i>5106-12</i>	<i>5106-12</i>	<i>5106-12</i>	<i>5106-12</i>
<i>Sample ID:</i>		<i>GW-110705-5106-10-026</i>	<i>GW-110705-5106-10-027</i>	<i>GW-101005-5106-12-001</i>	<i>GW-101105-5106-12-002</i>	<i>GW-101105-5106-12-003</i>	<i>GW-101105-5106-12-004</i>
<i>Sample Date:</i>		<i>11/7/2005</i>	<i>11/7/2005</i>	<i>10/10/2005</i>	<i>10/11/2005</i>	<i>10/11/2005</i>	<i>10/11/2005</i>
<i>Sample Depth:</i>		<i>117 to 120 ft bml</i>	<i>122 to 125 ft bml</i>	<i>2 to 5 ft bml</i>	<i>7 to 10 ft bml</i>	<i>12 to 15 ft bml</i>	<i>12 to 15 ft bml</i>
<i>elev_MLLW</i>		<i>-153.9 to -156.9</i>	<i>-158.9 to -161.9</i>	<i>-38.2 to -41.2</i>	<i>-43.2 to -46.2</i>	<i>-48.2 to -51.2</i>	<i>-48.2 to -51.2</i>
<i>elev_NGVD</i>		<i>-160.2 to -163.2</i>	<i>-165.2 to -168.2</i>	<i>-44.5 to -47.5</i>	<i>-49.5 to -52.5</i>	<i>-54.5 to -57.5</i>	<i>-54.5 to -57.5</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.00372 UJ	0.0038 UJ	0.00422 UJ
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.00254 UJ	0.0026 UJ	0.00288 UJ
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.093 J	0.025 UJ	0.0278 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-12</i>	<i>5106-12</i>	<i>5106-12</i>	<i>5106-12</i>	<i>5106-12</i>	<i>5106-12</i>
<i>Sample ID:</i>	<i>GW-101105-5106-12-005</i>	<i>GW-101105-5106-12-006</i>	<i>GW-101105-5106-12-007</i>	<i>GW-101105-5106-12-008</i>	<i>GW-101105-5106-12-009</i>	<i>GW-101105-5106-12-010</i>
<i>Sample Date:</i>	<i>10/11/2005</i>	<i>10/11/2005</i>	<i>10/11/2005</i>	<i>10/11/2005</i>	<i>10/11/2005</i>	<i>10/11/2005</i>
<i>Sample Depth:</i>	<i>17 to 20 ft bml</i>	<i>22 to 25 ft bml</i>	<i>27 to 30 ft bml</i>	<i>32 to 35 ft bml</i>	<i>37 to 40 ft bml</i>	<i>42 to 45 ft bml</i>
<i>elev_MLLW</i>	<i>-53.2 to -56.2</i>	<i>-58.2 to -61.2</i>	<i>-63.2 to -66.2</i>	<i>-68.2 to -71.2</i>	<i>-73.2 to -76.2</i>	<i>-78.2 to -81.2</i>
<i>elev_NGVD</i>	<i>-59.5 to -62.5</i>	<i>-64.5 to -67.5</i>	<i>-69.5 to -72.5</i>	<i>-74.5 to -77.5</i>	<i>-79.5 to -82.5</i>	<i>-84.5 to -87.5</i>

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00422 U	0.00422 U	0.00422 U	0.00422 U	0.00365 U	0.00368 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00288 U	0.00288 U	0.00288 U	0.00288 U	0.0025 U	0.00252 UJ
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0278 U	0.0539 J	0.0278 U	0.0278 U	0.024 U	0.0243 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-12	5106-12	5106-12	5106-12	5106-12	5106-12
Sample ID:	GW-101105-5106-12-011	GW-101105-5106-12-012	GW-101205-5106-12-013	GW-101205-5106-12-014	GW-101205-5106-12-015	GW-101205-5106-12-016
Sample Date:	10/11/2005	10/11/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005
Sample Depth:	47 to 50 ft bml	52 to 55 ft bml	57 to 60 ft bml	62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml
elev_MLLW	-83.2 to -86.2	-88.2 to -91.2	-93.2 to -96.2	-98.2 to -101.2	-103.2 to -106.2	-108.2 to -111.2
elev_NGVD	-89.5 to -92.5	-94.5 to -97.5	-99.5 to -102.5	-104.5 to -107.5	-109.5 to -112.5	-114.5 to -117.5

Parameters Units CSI WG

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00361 U	0.00361 U	0.00365 UJ	0.00365 UJ	0.00361 UJ	0.00913 J
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00247 UJ	0.00247 UJ	0.0025 UJ	R	0.00247 UJ	0.00245 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0238 U	0.0238 U	R	0.024 U	0.0238 U	0.042 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>5106-12</i>	<i>5106-12</i>	<i>5106-12</i>	<i>5106-12</i>	<i>5106-12</i>	<i>5106-12</i>
<i>Sample ID:</i>	<i>GW-101205-5106-12-017</i>	<i>GW-101205-5106-12-018</i>	<i>GW-101205-5106-12-019</i>	<i>GW-101205-5106-12-020</i>	<i>GW-101205-5106-12-021</i>	<i>GW-101205-5106-12-022</i>
<i>Sample Date:</i>	<i>10/12/2005</i>	<i>10/12/2005</i>	<i>10/12/2005</i>	<i>10/12/2005</i>	<i>10/12/2005</i>	<i>10/12/2005</i>
<i>Sample Depth:</i>	<i>77 to 80 ft bml</i>	<i>82 to 85 ft bml</i>	<i>87 to 90 ft bml</i>	<i>92 to 95 ft bml</i>	<i>97 to 100 ft bml</i>	<i>102 to 105 ft bml</i>
<i>elev_MLLW</i>	<i>-113.2 to -116.2</i>	<i>-118.2 to -121.2</i>	<i>-123.2 to -126.2</i>	<i>-128.2 to -131.2</i>	<i>-133.2 to -136.2</i>	<i>-138.2 to -141.2</i>
<i>elev_NGVD</i>	<i>-119.5 to -122.5</i>	<i>-124.5 to -127.5</i>	<i>-129.5 to -132.5</i>	<i>-134.5 to -137.5</i>	<i>-139.5 to -142.5</i>	<i>-144.5 to -147.5</i>

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00355 U	0.00356 U	0.00355 U	0.00355 U	0.00356 U	0.00358 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00243 U	0.00244 U	0.00243 U	0.00243 U	0.00244 U	0.00245 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0234 U	0.0235 U	0.0234 U	0.0234 U	0.0235 U	0.0236 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-12	5106-12	5106-16	5106-16	5106-16	5106-16
Sample ID:	GW-101205-5106-12-023	GW-101205-5106-12-024	GW-111405-5106-16-001	GW-111405-5106-16-002	GW-111405-5106-16-003	GW-111405-5106-16-004
Sample Date:	10/12/2005	10/12/2005	11/14/2005	11/14/2005	11/14/2005	11/14/2005
Sample Depth:	107 to 110 ft bml	112 to 115 ft bml	1 to 4 ft bml	11 to 14 ft bml	21 to 24 ft bml	31 to 34 ft bml
elev_MLLW	-143.2 to -146.2	-148.2 to -151.2	-36.1 to -39.1	-46.1 to -49.1	-56.1 to -59.1	-66.1 to -69.1
elev_NGVD	-149.5 to -152.5	-154.5 to -157.5	-42.4 to -45.4	-52.4 to -55.4	-62.4 to -65.4	-72.4 to -75.4

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00365 U	0.00805 J	0.016 UJ	0.016 UJ	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.0025 U	0.00247 U	0.05 UJ	R	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.024 U	0.0238 U	0.30 UJ	0.30 UJ	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>5106-16</i>	<i>5106-16</i>	<i>5106-16</i>	<i>5106-16</i>	<i>5106-16</i>	<i>5106-16</i>
<i>Sample ID:</i>		<i>GW-111405-5106-16-005</i>	<i>GW-111405-5106-16-006</i>	<i>GW-111405-5106-16-007</i>	<i>GW-111405-5106-16-008</i>	<i>GW-111505-5106-16-009</i>	<i>GW-111505-5106-16-010</i>
<i>Sample Date:</i>		<i>11/14/2005</i>	<i>11/14/2005</i>	<i>11/14/2005</i>	<i>11/14/2005</i>	<i>11/15/2005</i>	<i>11/15/2005</i>
<i>Sample Depth:</i>		<i>31 to 34 ft bml</i>	<i>41 to 44 ft bml</i>	<i>51 to 54 ft bml</i>	<i>51 to 54 ft bml</i>	<i>61 to 64 ft bml</i>	<i>71 to 74 ft bml</i>
<i>elev_MLLW</i>		<i>-66.1 to -69.1</i>	<i>-76.1 to -79.1</i>	<i>-86.1 to -89.1</i>	<i>-86.1 to -89.1</i>	<i>-96.1 to -99.1</i>	<i>-106.1 to -109.1</i>
<i>elev_NGVD</i>		<i>-72.4 to -75.4</i>	<i>-82.4 to -85.4</i>	<i>-92.4 to -95.4</i>	<i>-92.4 to -95.4</i>	<i>-102.4 to -105.4</i>	<i>-112.4 to -115.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 UJ	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		5106-16	5106-16	5106-16	5106-16	721-MW5-15	721-MW5-25	721-MW5-50	
Sample ID:		GW-111505-5106-16-011	GW-111505-5106-16-012	GW-111505-5106-16-013	GW-111505-5106-16-014	04-11416-GW23D	04-11418-GW23F	04-11419-GW23G	
Sample Date:		11/15/2005	11/15/2005	11/15/2005	11/15/2005	7/19/2004	7/19/2004	7/19/2004	
Sample Depth:		71 to 74 ft bml	81 to 84 ft bml	91 to 94 ft bml	101 to 104 ft bml	15 ft BGS	25 ft BGS	50 ft BGS	
elev_MLLW		-106.1 to -109.1	-116.1 to -119.1	-126.1 to -129.1	-136.1 to -139.1	2.8	-7.21	-32.29	
elev_NGVD		-112.4 to -115.4	-122.4 to -125.4	-132.4 to -135.4	-142.4 to -145.4	-3.5	-13.5	-38.6	
Parameters	Units	CSI	WG						
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	1.0 U	1.0 U	1.0 U
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.098 J	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	2.0 U Dup 5.0 U	5.0 U Dup 2.0 U	2.0 U Dup 5.0 U
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	5.0 U	5.0 U	5.0 U
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	-	-	-

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

Sample Location:	721-MW6-15	721-MW6-25	721-MW6-50	721-MW7-15	721-MW8-15	721-MW9-15	721-MW9-25	721-MW9-25
Sample ID:	04-11413-GW23A	04-11414-GW23B	04-11415-GW23C	04-11420-GW23H	04-11425-GW23M	04-11421-GW23I	04-11422-GW23J	04-11423-GW23K
Sample Date:	7/19/2004	7/19/2004	7/19/2004	7/19/2004	7/20/2004	7/20/2004	7/20/2004	7/20/2004
Sample Depth:	15 ft BGS	25 ft BGS	50 ft BGS	15 ft BGS	15 ft BGS	15 ft BGS	25 ft BGS	25 ft BGS
elev_MLLW	2.62	-7.41	-32.5	2.51	2.34	2.69	-7.28	-7.28
elev_NGVD	-3.7	-13.7	-38.8	-3.8	-4	-3.6	-13.6	-13.6

(Duplicate)

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene (dissolved)	µg/L	0.00077	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	2.0 U Dup 5.0 U	2.0 U Dup 5.0 U	2.0 U Dup 5.0 U	2.0 U Dup 5.0 U	5.0 U Dup 2.0 U	5.0 U Dup 2.0 U	2.0 U Dup 5.0 U	2.0 U Dup 5.0 U
Hexachlorobutadiene (dissolved)	µg/L	0.013	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Pentachlorophenol (dissolved)	µg/L	7.9	-	-	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	721-MW9-50	721-GP4	721-GP6	Dock2-1	Dock2-1	Dock2-1	Dock2-1
Sample ID:	04-11424-GW23L	04-10149-GU31I	04-10148-GU31H	GW-072005-DOCK2-1-001	GW-072005-DOCK2-1-002	GW-072005-DOCK2-1-003	GW-072005-DOCK2-1-004
Sample Date:	7/20/2004	6/29/2004	6/28/2004	7/20/2005	7/20/2005	7/20/2005	7/20/2005
Sample Depth:	50 ft BGS	15 ft BGS	15 ft BGS	4.5 to 7.5 ft bml	8 to 11 ft bml	13 to 16 ft bml	18 to 21 ft bml
elev_MLLW	-32.28	2.92	2.92	-47.4 to -50.4	-50.9 to -53.9	-55.9 to -58.9	-60.9 to -63.9
elev_NGVD	-38.6	-3.4	-3.4	-53.7 to -56.7	-57.2 to -60.2	-62.2 to -65.2	-67.2 to -70.2

Parameters Units CSI WG

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	1.0 U	1.0 U	1.0 U	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	-	-	-	0.00352 UJ	0.00347 UJ	0.00347 U	0.00347 UJ
Hexachlorobutadiene	µg/L	0.013	2.0 U Dup 5.0 U	5.0 U Dup 1.0 U	5.0 U Dup 1.0 U	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	-	-	-	0.00241 UJ	0.00237 UJ	0.00237 U	0.00237 UJ
Pentachlorophenol	µg/L	7.9	5.0 U	5.1 U	5.2 U	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	-	-	-	0.19 J	0.0229 U	0.0229 U	0.0229 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-1</i>	<i>Dock2-1</i>	<i>Dock2-1</i>	<i>Dock2-1</i>	<i>Dock2-2</i>	<i>Dock2-2</i>
<i>Sample ID:</i>		<i>GW-072105-DOCK2-1-005</i>	<i>GW-072105-DOCK2-1-006</i>	<i>GW-072105-DOCK2-1-007</i>	<i>GW-072105-DOCK2-1-008</i>	<i>GW-071105-DOCK2-2-001</i>	<i>GW-071205-DOCK2-2-002</i>
<i>Sample Date:</i>		<i>7/21/2005</i>	<i>7/21/2005</i>	<i>7/21/2005</i>	<i>7/21/2005</i>	<i>7/11/2005</i>	<i>7/12/2005</i>
<i>Sample Depth:</i>		<i>23 to 26 ft bml</i>	<i>28 to 31 ft bml</i>	<i>33 to 36 ft bml</i>	<i>38 to 41 ft bml</i>	<i>7.5 to 10.5 ft bml</i>	<i>12.5 to 15.5 ft bml</i>
<i>elev_MLLW</i>		<i>-65.9 to -68.9</i>	<i>-70.9 to -73.9</i>	<i>-75.9 to -78.9</i>	<i>-80.9 to -83.9</i>	<i>-49.2 to -52.2</i>	<i>-54.2 to -57.2</i>
<i>elev_NGVD</i>		<i>-72.2 to -75.2</i>	<i>-77.2 to -80.2</i>	<i>-82.2 to -85.2</i>	<i>-87.2 to -90.2</i>	<i>-55.5 to -58.5</i>	<i>-60.5 to -63.5</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.013	0.00349 U	0.00355 U	0.0105	0.00358 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.0024 U	0.00239 U	0.00243 U	0.00237 U	0.00254 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0524	0.023 U	0.0234 U	0.0228 U	0.0245 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-2</i>	<i>Dock2-2</i>	<i>Dock2-2</i>	<i>Dock2-2</i>	<i>Dock2-3</i>	<i>Dock2-3</i>
<i>Sample ID:</i>		<i>GW-071205-DOCK2-2-003</i>	<i>GW-071205-DOCK2-2-004</i>	<i>GW-071205-DOCK2-2-005</i>	<i>GW-071305-DOCK2-2-006</i>	<i>GW-072205-DOCK2-3-001</i>	<i>GW-072205-DOCK2-3-002</i>
<i>Sample Date:</i>		<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/13/2005</i>	<i>7/22/2005</i>	<i>7/22/2005</i>
<i>Sample Depth:</i>		<i>17.5 to 20.5 ft bml</i>	<i>22.5 to 25.5 ft bml</i>	<i>27.5 to 30.5 ft bml</i>	<i>32.5 to 35.5 ft bml</i>	<i>3 to 6 ft bml</i>	<i>3 to 6 ft bml</i>
<i>elev_MLLW</i>		<i>-59.2 to -62.2</i>	<i>-64.2 to -67.2</i>	<i>-69.2 to -72.2</i>	<i>-74.2 to -77.2</i>	<i>-45.6 to -48.6</i>	<i>-45.6 to -48.6</i>
<i>elev_NGVD</i>		<i>-65.5 to -68.5</i>	<i>-70.5 to -73.5</i>	<i>-75.5 to -78.5</i>	<i>-80.5 to -83.5</i>	<i>-51.9 to -54.9</i>	<i>-51.9 to -54.9</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				<i>(Duplicate)</i>
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00358 U	0.00358 U	0.0035 U	0.00356 U	0.00358 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00245 U	0.00245 U	0.0024 U	0.00243 U	0.00245 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0236 U	0.0236 U	0.0231 U	0.0235 U	0.0552

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-3</i>	<i>Dock2-3</i>	<i>Dock2-3</i>	<i>Dock2-3</i>	<i>Dock2-3</i>	<i>Dock2-4</i>
<i>Sample ID:</i>		<i>GW-072205-DOCK2-3-003</i>	<i>GW-072505-DOCK2-3-004</i>	<i>GW-072505-DOCK2-3-005</i>	<i>GW-072505-DOCK2-3-006</i>	<i>GW-072505-DOCK2-3-007</i>	<i>GW-072805-DOCK2-4-001</i>
<i>Sample Date:</i>		<i>7/22/2005</i>	<i>7/25/2005</i>	<i>7/25/2005</i>	<i>7/25/2005</i>	<i>7/25/2005</i>	<i>7/28/2005</i>
<i>Sample Depth:</i>		<i>8 to 11 ft bml</i>	<i>13 to 16 ft bml</i>	<i>18 to 21 ft bml</i>	<i>23 to 26 ft bml</i>	<i>28 to 31 ft bml</i>	<i>4 to 7 ft bml</i>
<i>elev_MLLW</i>		<i>-50.6 to -53.6</i>	<i>-55.6 to -58.6</i>	<i>-60.6 to -63.6</i>	<i>-65.6 to -68.6</i>	<i>-70.6 to -73.6</i>	<i>-46.2 to -49.2</i>
<i>elev_NGVD</i>		<i>-56.9 to -59.9</i>	<i>-61.9 to -64.9</i>	<i>-66.9 to -69.9</i>	<i>-71.9 to -74.9</i>	<i>-76.9 to -79.9</i>	<i>-52.5 to -55.5</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.0036 U	0.0036 U	0.00351 U	0.0035 U	0.00347 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00246 U	0.00246 U	0.0024 U	0.00239 U	0.00237 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0237 U	0.0237 U	0.0231 U	0.0231 U	0.0228 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Dock2-4</i>	<i>Dock2-4</i>	<i>Dock2-4</i>	<i>Dock2-4</i>	<i>Dock2-4</i>	<i>Dock2-4</i>
<i>Sample ID:</i>			<i>GW-072805-DOCK2-4-002</i>	<i>GW-072805-DOCK2-4-003</i>	<i>GW-072805-DOCK2-4-004</i>	<i>GW-072905-DOCK2-4-005</i>	<i>GW-072905-DOCK2-4-006</i>	<i>GW-072905-DOCK2-4-007</i>
<i>Sample Date:</i>			<i>7/28/2005</i>	<i>7/28/2005</i>	<i>7/28/2005</i>	<i>7/29/2005</i>	<i>7/29/2005</i>	<i>7/29/2005</i>
<i>Sample Depth:</i>			<i>9 to 12 ft bml</i>	<i>14 to 17 ft bml</i>	<i>19 to 22 ft bml</i>	<i>24 to 27 ft bml</i>	<i>24 to 27 ft bml</i>	<i>29 to 32 ft bml</i>
<i>elev_MLLW</i>			<i>-51.2 to -54.2</i>	<i>-56.2 to -59.2</i>	<i>-61.2 to -64.2</i>	<i>-66.2 to -69.2</i>	<i>-66.2 to -69.2</i>	<i>-71.2 to -74.2</i>
<i>elev_NGVD</i>			<i>-57.5 to -60.5</i>	<i>-62.5 to -65.5</i>	<i>-67.5 to -70.5</i>	<i>-72.5 to -75.5</i>	<i>-72.5 to -75.5</i> <i>(Duplicate)</i>	<i>-77.5 to -80.5</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00354 U	0.00355 U	0.0145	0.00349 U	0.00355 U	0.00353 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00242 U	0.00243 U	0.00242 U	0.00239 U	0.00243 U	0.00242 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0233 U	0.0234 U	0.0233 U	0.023 U	0.0234 U	0.0233 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-4</i>	<i>Dock2-5</i>	<i>Dock2-5</i>	<i>Dock2-5</i>	<i>Dock2-5</i>	<i>Dock2-5</i>
<i>Sample ID:</i>		<i>GW-072905-DOCK2-4-008</i>	<i>GW-080105-DOCK2-5-001</i>	<i>GW-080105-DOCK2-5-002</i>	<i>GW-080105-DOCK2-5-003</i>	<i>GW-080105-DOCK2-5-004</i>	<i>GW-080205-DOCK2-5-005</i>
<i>Sample Date:</i>		<i>7/29/2005</i>	<i>8/1/2005</i>	<i>8/1/2005</i>	<i>8/1/2005</i>	<i>8/1/2005</i>	<i>8/2/2005</i>
<i>Sample Depth:</i>		<i>34 to 37 ft bml</i>	<i>2 to 5 ft bml</i>	<i>2 to 5 ft bml</i>	<i>7 to 10 ft bml</i>	<i>12 to 15 ft bml</i>	<i>17 to 20 ft bml</i>
<i>elev_MLLW</i>		<i>-76.2 to -79.2</i>	<i>-37 to -40</i>	<i>-37 to -40</i>	<i>-42 to -45</i>	<i>-47 to -50</i>	<i>-52 to -55</i>
<i>elev_NGVD</i>		<i>-82.5 to -85.5</i>	<i>-43.3 to -46.3</i>	<i>-43.3 to -46.3</i> <i>(Duplicate)</i>	<i>-48.3 to -51.3</i>	<i>-53.3 to -56.3</i>	<i>-58.3 to -61.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00372 U	0.00352 UJ	0.0432 J	0.00753 J	0.0316
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00254 U	0.00241 U	0.00249 U	0.00244 U	0.00246 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0245 U	0.0232 U	0.024 U	0.0235 U	0.0237 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-5</i>	<i>Dock2-5</i>	<i>Dock2-5</i>	<i>Dock2-5</i>	<i>Dock2-6</i>	<i>Dock2-6</i>
<i>Sample ID:</i>	<i>GW-080205-DOCK2-5-006</i>	<i>GW-080205-DOCK2-5-007</i>	<i>GW-080205-DOCK2-5-008</i>	<i>GW-080205-DOCK2-5-009</i>	<i>GW-090605-DOCK2-6-001</i>	<i>GW-090605-DOCK2-6-002</i>
<i>Sample Date:</i>	<i>8/2/2005</i>	<i>8/2/2005</i>	<i>8/2/2005</i>	<i>8/2/2005</i>	<i>9/6/2005</i>	<i>9/6/2005</i>
<i>Sample Depth:</i>	<i>22 to 25 ft bml</i>	<i>27 to 30 ft bml</i>	<i>32 to 35 ft bml</i>	<i>37 to 40 ft bml</i>	<i>0.7 to 3.7 ft bml</i>	<i>5.7 to 8.7 ft bml</i>
<i>elev_MLLW</i>	<i>-57 to -60</i>	<i>-62 to -65</i>	<i>-67 to -70</i>	<i>-72 to -75</i>	<i>-36.8 to -39.8</i>	<i>-41.8 to -44.8</i>
<i>elev_NGVD</i>	<i>-63.3 to -66.3</i>	<i>-68.3 to -71.3</i>	<i>-73.3 to -76.3</i>	<i>-78.3 to -81.3</i>	<i>-43.1 to -46.1</i>	<i>-48.1 to -51.1</i>

<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.0036 U	0.00359 U	0.00362 U	0.00358 U	0.00362 U	0.00353 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00246 U	0.00246 U	0.00248 U	0.00245 U	0.00247 U	0.00241 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0237 U	0.0237 U	0.0239 U	0.0236 U	0.0238 U	0.0233 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-6</i>
<i>Sample ID:</i>		<i>GW-090605-DOCK2-6-003</i>	<i>GW-090605-DOCK2-6-004</i>	<i>GW-090605-DOCK2-6-005</i>	<i>GW-090605-DOCK2-6-006</i>	<i>GW-090605-DOCK2-6-007</i>	<i>GW-090705-DOCK2-6-008</i>
<i>Sample Date:</i>		<i>9/6/2005</i>	<i>9/6/2005</i>	<i>9/6/2005</i>	<i>9/6/2005</i>	<i>9/6/2005</i>	<i>9/7/2005</i>
<i>Sample Depth:</i>		<i>10.7 to 13.7 ft bml</i>	<i>15.7 to 18.7 ft bml</i>	<i>20.7 to 23.7 ft bml</i>	<i>25.7 to 28.7 ft bml</i>	<i>25.7 to 28.7 ft bml</i>	<i>30.7 to 33.7 ft bml</i>
<i>elev_MLLW</i>		<i>-46.8 to -49.8</i>	<i>-51.8 to -54.8</i>	<i>-56.8 to -59.8</i>	<i>-61.8 to -64.8</i>	<i>-61.8 to -64.8</i>	<i>-66.8 to -69.8</i>
<i>elev_NGVD</i>		<i>-53.1 to -56.1</i>	<i>-58.1 to -61.1</i>	<i>-63.1 to -66.1</i>	<i>-68.1 to -71.1</i>	<i>-68.1 to -71.1</i> <i>(Duplicate)</i>	<i>-73.1 to -76.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00357 U	0.00354 U	0.00355 U	0.00357 U	0.00355 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	R	0.00242 U	0.00243 U	0.00244 U	0.00243 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0235 U	0.0233 U	0.0436 J	0.174 J	0.0695 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-7</i>	<i>Dock2-7</i>	<i>Dock2-7</i>	<i>Dock2-7</i>
<i>Sample ID:</i>		<i>GW-090705-DOCK2-6-009</i>	<i>GW-090705-DOCK2-6-010</i>	<i>GW-090705-DOCK2-7-001</i>	<i>GW-090705-DOCK2-7-002</i>	<i>GW-090705-DOCK2-7-003</i>	<i>GW-090705-DOCK2-7-004</i>
<i>Sample Date:</i>		<i>9/7/2005</i>	<i>9/7/2005</i>	<i>9/7/2005</i>	<i>9/7/2005</i>	<i>9/7/2005</i>	<i>9/7/2005</i>
<i>Sample Depth:</i>		<i>35.7 to 38.7 ft bml</i>	<i>40.7 to 43.7 ft bml</i>	<i>3 to 6 ft bml</i>	<i>8 to 11 ft bml</i>	<i>13 to 16 ft bml</i>	<i>18 to 21 ft bml</i>
<i>elev_MLLW</i>		<i>-71.8 to -74.8</i>	<i>-76.8 to -79.8</i>	<i>-39.7 to -42.7</i>	<i>-44.7 to -47.7</i>	<i>-49.7 to -52.7</i>	<i>-54.7 to -57.7</i>
<i>elev_NGVD</i>		<i>-78.1 to -81.1</i>	<i>-83.1 to -86.1</i>	<i>-46 to -49</i>	<i>-51 to -54</i>	<i>-56 to -59</i>	<i>-61 to -64</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00354 U	0.00357 U	0.00357 U	0.0036 U	0.00355 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	R	0.00244 U	0.00244 U	0.00246 U	0.00243 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0448 J	0.0235 U	0.0235 U	0.0237 U	0.0234 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-7</i>	<i>Dock2-7</i>	<i>Dock2-7</i>	<i>Dock2-7</i>	<i>Dock2-8</i>	<i>Dock2-8</i>
<i>Sample ID:</i>		<i>GW-090705-DOCK2-7-005</i>	<i>GW-090705-DOCK2-7-006</i>	<i>GW-090705-DOCK2-7-007</i>	<i>GW-090705-DOCK2-7-008</i>	<i>GW-082005-DOCK2-8-001</i>	<i>GW-082205-DOCK2-8-002</i>
<i>Sample Date:</i>		<i>9/7/2005</i>	<i>9/7/2005</i>	<i>9/7/2005</i>	<i>9/7/2005</i>	<i>8/20/2005</i>	<i>8/22/2005</i>
<i>Sample Depth:</i>		<i>23 to 26 ft bml</i>	<i>23 to 26 ft bml</i>	<i>28 to 31 ft bml</i>	<i>33 to 36 ft bml</i>	<i>4 to 7 ft bml</i>	<i>9 to 12 ft bml</i>
<i>elev_MLLW</i>		<i>-59.7 to -62.7</i>	<i>-59.7 to -62.7</i>	<i>-64.7 to -67.7</i>	<i>-69.7 to -72.7</i>	<i>-46.3 to -49.3</i>	<i>-51.3 to -54.3</i>
<i>elev_NGVD</i>		<i>-66 to -69</i>	<i>-66 to -69</i>	<i>-71 to -74</i>	<i>-76 to -79</i>	<i>-52.6 to -55.6</i>	<i>-57.6 to -60.6</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00352 U	0.00356 U	0.00355 U	0.00354 U	0.00373 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00241 U	0.00244 U	0.00243 U	0.00242 U	0.00255 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0232 U	0.0235 U	0.0234 U	0.0233 U	0.0246 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>
<i>Sample ID:</i>		<i>GW-082205-DOCK2-8-003</i>	<i>GW-082205-DOCK2-8-004</i>	<i>GW-082205-DOCK2-8-005</i>	<i>GW-082205-DOCK2-8-006</i>	<i>GW-082205-DOCK2-8-007</i>	<i>GW-082205-DOCK2-8-008</i>
<i>Sample Date:</i>		<i>8/22/2005</i>	<i>8/22/2005</i>	<i>8/22/2005</i>	<i>8/22/2005</i>	<i>8/22/2005</i>	<i>8/22/2005</i>
<i>Sample Depth:</i>		<i>14 to 17 ft bml</i>	<i>19 to 22 ft bml</i>	<i>24 to 27 ft bml</i>	<i>24 to 27 ft bml</i>	<i>29 to 32 ft bml</i>	<i>34 to 37 ft bml</i>
<i>elev_MLLW</i>		<i>-56.3 to -59.3</i>	<i>-61.3 to -64.3</i>	<i>-66.3 to -69.3</i>	<i>-66.3 to -69.3</i>	<i>-71.3 to -74.3</i>	<i>-76.3 to -79.3</i>
<i>elev_NGVD</i>		<i>-62.6 to -65.6</i>	<i>-67.6 to -70.6</i>	<i>-72.6 to -75.6</i>	<i>-72.6 to -75.6</i> (Duplicate)	<i>-77.6 to -80.6</i>	<i>-82.6 to -85.6</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00352 U	0.00347 U	0.0035 U	0.0035 U	0.00352 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00241 U	0.00237 U	0.0024 U	0.00239 U	0.00241 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0232 U	0.0229 U	0.0231 U	0.023 U	0.0573

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>
<i>Sample ID:</i>	<i>GW-082205-DOCK2-8-009</i>	<i>GW-082205-DOCK2-8-010</i>	<i>GW-082205-DOCK2-8-011</i>	<i>GW-082205-DOCK2-8-012</i>	<i>GW-082205-DOCK2-8-013</i>	<i>GW-082205-DOCK2-8-014</i>
<i>Sample Date:</i>	<i>8/22/2005</i>	<i>8/22/2005</i>	<i>8/22/2005</i>	<i>8/22/2005</i>	<i>8/22/2005</i>	<i>8/22/2005</i>
<i>Sample Depth:</i>	<i>39 to 42 ft bml</i>	<i>44 to 47 ft bml</i>	<i>49 to 52 ft bml</i>	<i>54 to 57 ft bml</i>	<i>59 to 62 ft bml</i>	<i>64 to 67 ft bml</i>
<i>elev_MLLW</i>	<i>-81.3 to -84.3</i>	<i>-86.3 to -89.3</i>	<i>-91.3 to -94.3</i>	<i>-96.3 to -99.3</i>	<i>-101.3 to -104.3</i>	<i>-106.3 to -109.3</i>
<i>elev_NGVD</i>	<i>-87.6 to -90.6</i>	<i>-92.6 to -95.6</i>	<i>-97.6 to -100.6</i>	<i>-102.6 to -105.6</i>	<i>-107.6 to -110.6</i>	<i>-112.6 to -115.6</i>

<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00352 U	0.00355 U	0.00352 U	0.00353 U	0.00361 U	0.0036 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00241 U	0.00243 U	0.00241 U	0.00241 U	0.00247 U	0.00246 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0232 U	0.0234 U	0.0232 U	0.0233 U	0.0238 U	0.0237 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>
<i>Sample ID:</i>	<i>GW-082205-DOCK2-8-015</i>	<i>GW-082305-DOCK2-8-016</i>	<i>GW-082305-DOCK2-8-017</i>	<i>GW-082305-DOCK2-8-018</i>	<i>GW-082305-DOCK2-8-019</i>	<i>GW-082305-DOCK2-8-020</i>
<i>Sample Date:</i>	<i>8/22/2005</i>	<i>8/23/2005</i>	<i>8/23/2005</i>	<i>8/23/2005</i>	<i>8/23/2005</i>	<i>8/23/2005</i>
<i>Sample Depth:</i>	<i>69 to 72 ft bml</i>	<i>74 to 77 ft bml</i>	<i>79 to 82 ft bml</i>	<i>84 to 87 ft bml</i>	<i>89 to 92 ft bml</i>	<i>94 to 97 ft bml</i>
<i>elev_MLLW</i>	<i>-111.3 to -114.3</i>	<i>-116.3 to -119.3</i>	<i>-121.3 to -124.3</i>	<i>-126.3 to -129.3</i>	<i>-131.3 to -134.3</i>	<i>-136.3 to -139.3</i>
<i>elev_NGVD</i>	<i>-117.6 to -120.6</i>	<i>-122.6 to -125.6</i>	<i>-127.6 to -130.6</i>	<i>-132.6 to -135.6</i>	<i>-137.6 to -140.6</i>	<i>-142.6 to -145.6</i>

<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00357 U	0.00354 U	0.00351 U	0.00356 U	0.00354 U	0.00356 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00244 U	0.00242 U	0.0024 U	0.00243 U	0.00242 U	0.00244 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0235 U	0.0233 U	0.0231 U	0.0234 U	0.0233 U	0.0235 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

Sample Location:	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-9</i>
Sample ID:	GW-090805-DOCK2-9-001	GW-090805-DOCK2-9-002	GW-090805-DOCK2-9-003	GW-090805-DOCK2-9-004	GW-090805-DOCK2-9-005	GW-090805-DOCK2-9-006
Sample Date:	9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/8/2005
Sample Depth:	4 to 7 ft bml	9 to 12 ft bml	14 to 17 ft bml	19 to 22 ft bml	24 to 27 ft bml	29 to 32 ft bml
elev_MLLW	-40.2 to -43.2	-45.2 to -48.2	-50.2 to -53.2	-55.2 to -58.2	-60.2 to -63.2	-65.2 to -68.2
elev_NGVD	-46.5 to -49.5	-51.5 to -54.5	-56.5 to -59.5	-61.5 to -64.5	-66.5 to -69.5	-71.5 to -74.5

Parameters	Units	CSI	WG					
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00362 U	0.0036 U	0.00365 U	0.00363 U	0.00349 U	0.0216
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00247 U	0.00246 U	0.0025 U	0.00248 U	0.00239 U	0.00246 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0651	0.0594	0.024 U	0.0239 U	0.023 U	0.0237 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-9</i>
<i>Sample ID:</i>		<i>GW-090805-DOCK2-9-007</i>	<i>GW-090805-DOCK2-9-008</i>	<i>GW-090805-DOCK2-9-009</i>	<i>GW-090805-DOCK2-9-010</i>	<i>GW-090805-DOCK2-9-011</i>	<i>GW-090805-DOCK2-9-012</i>
<i>Sample Date:</i>		<i>9/8/2005</i>	<i>9/8/2005</i>	<i>9/8/2005</i>	<i>9/8/2005</i>	<i>9/8/2005</i>	<i>9/8/2005</i>
<i>Sample Depth:</i>		<i>34 to 37 ft bml</i>	<i>39 to 42 ft bml</i>	<i>44 to 47 ft bml</i>	<i>49 to 52 ft bml</i>	<i>54 to 57 ft bml</i>	<i>59 to 62 ft bml</i>
<i>elev_MLLW</i>		<i>-70.2 to -73.2</i>	<i>-75.2 to -78.2</i>	<i>-80.2 to -83.2</i>	<i>-85.2 to -88.2</i>	<i>-90.2 to -93.2</i>	<i>-95.2 to -98.2</i>
<i>elev_NGVD</i>		<i>-76.5 to -79.5</i>	<i>-81.5 to -84.5</i>	<i>-86.5 to -89.5</i>	<i>-91.5 to -94.5</i>	<i>-96.5 to -99.5</i>	<i>-101.5 to -104.5</i>
Parameters	Units	CSI	WG				
Semi-volatile Organic Compounds							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00358 U	0.00355 U	0.0166	0.0337	0.00357 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00245 U	0.00243 U	0.00241 U	0.00243 U	0.00244 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0236 U	0.0234 U	0.0232 U	0.0234 U	0.0235 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-10</i>	<i>Dock2-10</i>	<i>Dock2-10</i>	<i>Dock2-10</i>	<i>Dock2-10</i>
<i>Sample ID:</i>		<i>GW-091205-DOCK2-10-001</i>	<i>GW-091205-DOCK2-10-002</i>	<i>GW-091205-DOCK2-10-003</i>	<i>GW-091305-DOCK2-10-004</i>	<i>GW-091305-DOCK2-10-005</i>
<i>Sample Date:</i>		<i>9/12/2005</i>	<i>9/12/2005</i>	<i>9/12/2005</i>	<i>9/13/2005</i>	<i>9/13/2005</i>
<i>Sample Depth:</i>		<i>2.6 to 5.6 ft bml</i>	<i>2.6 to 5.6 ft bml</i>	<i>7.6 to 10.6 ft bml</i>	<i>12.6 to 15.6 ft bml</i>	<i>17.9 to 20.6 ft bml</i>
<i>elev_MLLW</i>		<i>-38 to -41</i>	<i>-38 to -41</i>	<i>-43 to -46</i>	<i>-48 to -51</i>	<i>-53.3 to -56</i>
<i>elev_NGVD</i>		<i>-44.3 to -47.3</i>	<i>-44.3 to -47.3</i>	<i>-49.3 to -52.3</i>	<i>-54.3 to -57.3</i>	<i>-59.6 to -62.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Semi-volatile Organic Compounds</i>						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00356 U	0.0216 J	0.00357 U	0.00355 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00244 U	0.00242 U	0.00244 U	0.00243 U
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0235 U	0.0233 U	0.0235 U	0.0234 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-10</i>	<i>Dock2-10</i>	<i>Dock2-10</i>	<i>Dock2-10</i>	<i>Dock2-11</i>
<i>Sample ID:</i>		<i>GW-091305-DOCK2-10-006</i>	<i>GW-091305-DOCK2-10-007</i>	<i>GW-091305-DOCK2-10-008</i>	<i>GW-091305-DOCK2-10-009</i>	<i>GW-101905-DOCK2-11-001</i>
<i>Sample Date:</i>		<i>9/13/2005</i>	<i>9/13/2005</i>	<i>9/13/2005</i>	<i>9/13/2005</i>	<i>10/19/2005</i>
<i>Sample Depth:</i>		<i>22.6 to 25.6 ft bml</i>	<i>27.6 to 30.6 ft bml</i>	<i>32.6 to 35.6 ft bml</i>	<i>37.6 to 40.6 ft bml</i>	<i>2 to 5 ft bml</i>
<i>elev_MLLW</i>		<i>-58 to -61</i>	<i>-63 to -66</i>	<i>-68 to -71</i>	<i>-73 to -76</i>	<i>-37.5 to -40.5</i>
<i>elev_NGVD</i>		<i>-64.3 to -67.3</i>	<i>-69.3 to -72.3</i>	<i>-74.3 to -77.3</i>	<i>-79.3 to -82.3</i>	<i>-43.8 to -46.8</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Semi-volatile Organic Compounds</i>						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00354 U	0.00352 U	0.00352 U	0.00355 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00242 U	0.00241 U	0.00241 U	0.00243 U
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0233 U	0.0232 U	0.0232 U	0.0234 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>
<i>Sample ID:</i>		<i>GW-101905-DOCK2-11-002</i>	<i>GW-102005-DOCK2-11-003</i>	<i>GW-102005-DOCK2-11-004</i>	<i>GW-102005-DOCK2-11-005</i>	<i>GW-102005-DOCK2-11-006</i>
<i>Sample Date:</i>		<i>10/19/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>
<i>Sample Depth:</i>		<i>7 to 10 ft bml</i>	<i>12 to 15 ft bml</i>	<i>17 to 20 ft bml</i>	<i>17 to 20 ft bml</i>	<i>22 to 25 ft bml</i>
<i>elev_MLLW</i>		<i>-42.5 to -45.5</i>	<i>-47.5 to -50.5</i>	<i>-52.5 to -55.5</i>	<i>-52.5 to -55.5</i>	<i>-57.5 to -60.5</i>
<i>elev_NGVD</i>		<i>-48.8 to -51.8</i>	<i>-53.8 to -56.8</i>	<i>-58.8 to -61.8</i>	<i>-58.8 to -61.8</i>	<i>-63.8 to -66.8</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			<i>(Duplicate)</i>
<i>Semi-volatile Organic Compounds</i>						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 UJ	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 UJ	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 UJ	0.30 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Dock2-11	Dock2-11	Dock2-11	Dock2-11	Dock2-11
Sample ID:	GW-102005-DOCK2-11-007	GW-102005-DOCK2-11-008	GW-102005-DOCK2-11-009	GW-102005-DOCK2-11-010	GW-102005-DOCK2-11-011
Sample Date:	10/20/2005	10/20/2005	10/20/2005	10/20/2005	10/20/2005
Sample Depth:	27 to 30 ft bml	32 to 35 ft bml	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml
elev_MLLW	-62.5 to -65.5	-67.5 to -70.5	-72.5 to -75.5	-77.5 to -80.5	-82.5 to -85.5
elev_NGVD	-68.8 to -71.8	-73.8 to -76.8	-78.8 to -81.8	-83.8 to -86.8	-88.8 to -91.8

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Dock2-11	Dock2-11	Dock2-11	Dock2-11	Dock2-11
Sample ID:	GW-102005-DOCK2-11-012	GW-102005-DOCK2-11-013	GW-102005-DOCK2-11-014	GW-102005-DOCK2-11-015	GW-102005-DOCK2-11-018
Sample Date:	10/20/2005	10/20/2005	10/20/2005	10/20/2005	10/20/2005
Sample Depth:	52 to 55 ft bml	57 to 60 ft bml	62 to 65 ft bml	67 to 70 ft bml	82 to 85 ft bml
elev_MLLW	-87.5 to -90.5	-92.5 to -95.5	-97.5 to -100.5	-102.5 to -105.5	-117.5 to -120.5
elev_NGVD	-93.8 to -96.8	-98.8 to -101.8	-103.8 to -106.8	-108.8 to -111.8	-123.8 to -126.8

Parameters	Units	CSI	WG				
Semi-volatile Organic Compounds							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-12</i>	<i>Dock2-12</i>
<i>Sample ID:</i>		<i>GW-102105-DOCK2-11-019</i>	<i>GW-102105-DOCK2-11-021</i>	<i>GW-102105-DOCK2-11-022</i>	<i>GW-110805-DOCK2-12-001</i>	<i>GW-110805-DOCK2-12-002</i>
<i>Sample Date:</i>		<i>10/21/2005</i>	<i>10/21/2005</i>	<i>10/21/2005</i>	<i>11/8/2005</i>	<i>11/8/2005</i>
<i>Sample Depth:</i>		<i>87 to 90 ft bml</i>	<i>97 to 100 ft bml</i>	<i>102 to 105 ft bml</i>	<i>2 to 5 ft bml</i>	<i>7 to 10 ft bml</i>
<i>elev_MLLW</i>		<i>-122.5 to -125.5</i>	<i>-132.5 to -135.5</i>	<i>-137.5 to -140.5</i>	<i>-38.6 to -41.6</i>	<i>-43.6 to -46.6</i>
<i>elev_NGVD</i>		<i>-128.8 to -131.8</i>	<i>-138.8 to -141.8</i>	<i>-143.8 to -146.8</i>	<i>-44.9 to -47.9</i>	<i>-49.9 to -52.9</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Semi-volatile Organic Compounds</i>						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>
<i>Sample ID:</i>	<i>GW-110805-DOCK2-12-003</i>	<i>GW-110805-DOCK2-12-004</i>	<i>GW-110805-DOCK2-12-005</i>	<i>GW-110805-DOCK2-12-006</i>	<i>GW-110805-DOCK2-12-007</i>
<i>Sample Date:</i>	<i>11/8/2005</i>	<i>11/8/2005</i>	<i>11/8/2005</i>	<i>11/8/2005</i>	<i>11/8/2005</i>
<i>Sample Depth:</i>	<i>12 to 15 ft bml</i>	<i>17 to 20 ft bml</i>	<i>22 to 25 ft bml</i>	<i>27 to 30 ft bml</i>	<i>32 to 35 ft bml</i>
<i>elev_MLLW</i>	<i>-48.6 to -51.6</i>	<i>-53.6 to -56.6</i>	<i>-58.6 to -61.6</i>	<i>-63.6 to -66.6</i>	<i>-68.6 to -71.6</i>
<i>elev_NGVD</i>	<i>-54.9 to -57.9</i>	<i>-59.9 to -62.9</i>	<i>-64.9 to -67.9</i>	<i>-69.9 to -72.9</i>	<i>-74.9 to -77.9</i>

<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	Dock2-12	Dock2-12	Dock2-12	Dock2-12	Dock2-12
Sample ID:	GW-110805-DOCK2-12-008	GW-110805-DOCK2-12-009	GW-110805-DOCK2-12-010	GW-110805-DOCK2-12-011	GW-110805-DOCK2-12-012
Sample Date:	11/8/2005	11/8/2005	11/8/2005	11/8/2005	11/8/2005
Sample Depth:	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml	57 to 60 ft bml
elev_MLLW	-73.6 to -76.6	-78.6 to -81.6	-83.6 to -86.6	-88.6 to -91.6	-93.6 to -96.6
elev_NGVD	-79.9 to -82.9	-84.9 to -87.9	-89.9 to -92.9	-94.9 to -97.9	-99.9 to -102.9

Parameters	Units	CSI	WG				
Semi-volatile Organic Compounds							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-14</i>
<i>Sample ID:</i>		<i>GW-110805-DOCK2-12-013</i>	<i>GW-110905-DOCK2-12-014</i>	<i>GW-110905-DOCK2-12-015</i>	<i>GW-110905-DOCK2-12-016</i>	<i>GW-102805-DOCK2-14-001</i>
<i>Sample Date:</i>		<i>11/8/2005</i>	<i>11/9/2005</i>	<i>11/9/2005</i>	<i>11/9/2005</i>	<i>10/28/2005</i>
<i>Sample Depth:</i>		<i>57 to 60 ft bml</i>	<i>62 to 65 ft bml</i>	<i>67 to 70 ft bml</i>	<i>72 to 75 ft bml</i>	<i>2 to 5 ft bml</i>
<i>elev_MLLW</i>		<i>-93.6 to -96.6</i>	<i>-98.6 to -101.6</i>	<i>-103.6 to -106.6</i>	<i>-108.6 to -111.6</i>	<i>-36.8 to -39.8</i>
<i>elev_NGVD</i>		<i>-99.9 to -102.9</i>	<i>-104.9 to -107.9</i>	<i>-109.9 to -112.9</i>	<i>-114.9 to -117.9</i>	<i>-43.1 to -46.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Semi-volatile Organic Compounds</i>						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Dock2-14	Dock2-14	Dock2-14	Dock2-14	Dock2-14
Sample ID:	GW-102805-DOCK2-14-002	GW-102805-DOCK2-14-003	GW-102905-DOCK2-14-004	GW-102905-DOCK2-14-005	GW-102905-DOCK2-14-006
Sample Date:	10/28/2005	10/28/2005	10/29/2005	10/29/2005	10/29/2005
Sample Depth:	12 to 15 ft bml	22 to 25 ft bml	32 to 35 ft bml	42 to 45 ft bml	52 to 55 ft bml
elev_MLLW	-46.8 to -49.8	-56.8 to -59.8	-66.8 to -69.8	-76.8 to -79.8	-86.8 to -89.8
elev_NGVD	-53.1 to -56.1	-63.1 to -66.1	-73.1 to -76.1	-83.1 to -86.1	-93.1 to -96.1

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Dock2-14	Dock2-14	Dock2-14	Dock2-14	Dock2-14
Sample ID:	GW-102905-DOCK2-14-007	GW-103105-DOCK2-14-008	GW-103105-DOCK2-14-009	GW-103105-DOCK2-14-010	GW-103105-DOCK2-14-011
Sample Date:	10/29/2005	10/31/2005	10/31/2005	10/31/2005	10/31/2005
Sample Depth:	62 to 65 ft bml	72 to 75 ft bml	82 to 85 ft bml	92 to 95 ft bml	102 to 105 ft bml
elev_MLLW	-96.8 to -99.8	-106.8 to -109.8	-116.8 to -119.8	-126.8 to -129.8	-136.8 to -139.8
elev_NGVD	-103.1 to -106.1	-113.1 to -116.1	-123.1 to -126.1	-133.1 to -136.1	-143.1 to -146.1

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.14 J	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-14</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>
<i>Sample ID:</i>		<i>GW-103105-DOCK2-14-012</i>	<i>GW-092205-EA-1-001</i>	<i>GW-092205-EA-1-002</i>	<i>GW-092205-EA-1-003</i>	<i>GW-092205-EA-1-004</i>	<i>GW-092305-EA-1-005</i>	<i>GW-092305-EA-1-006</i>	
<i>Sample Date:</i>		<i>10/31/2005</i>	<i>9/22/2005</i>	<i>9/22/2005</i>	<i>9/22/2005</i>	<i>9/22/2005</i>	<i>9/23/2005</i>	<i>9/23/2005</i>	
<i>Sample Depth:</i>		<i>112 to 115 ft bml</i>	<i>19.5 to 22.5 ft bgs</i>	<i>24.5 to 27.5 ft bgs</i>	<i>31.5 to 34.5 ft bgs</i>	<i>36.5 to 39.5 ft bgs</i>	<i>41.5 to 44.5 ft bgs</i>	<i>46.5 to 49.5 ft bgs</i>	
<i>elev_MLLW</i>		<i>-146.8 to -149.8</i>	<i>-1.5 to -4.5</i>	<i>-6.5 to -9.5</i>	<i>-13.5 to -16.5</i>	<i>-18.5 to -21.5</i>	<i>-23.5 to -26.5</i>	<i>-28.5 to -31.5</i>	
<i>elev_NGVD</i>		<i>-153.1 to -156.1</i>	<i>-7.8 to -10.8</i>	<i>-12.8 to -15.8</i>	<i>-19.8 to -22.8</i>	<i>-24.8 to -27.8</i>	<i>-29.8 to -32.8</i>	<i>-34.8 to -37.8</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.00358 U	0.00356 U	0.00353 U	0.00361 U	0.00359 U	0.00351 UJ
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.00245 U	0.00243 U	0.00241 U	0.00247 U	0.00246 U	0.0882 J
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.0236 U	0.325	0.0304 J	0.0238 U	0.0237 U	0.0829 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	EA-1	EA-1	EA-1	EA-1	EA-1	EA-1	EA-1
Sample ID:	GW-092305-EA-1-007	GW-092305-EA-1-008	GW-092605-EA-1-009	GW-092605-EA-1-010	GW-092705-EA-1-011	GW-092705-EA-1-012	GW-092705-EA-1-013
Sample Date:	9/23/2005	9/23/2005	9/26/2005	9/26/2005	9/27/2005	9/27/2005	9/27/2005
Sample Depth:	51.5 to 54.5 ft bgs	56.5 to 59.5 ft bgs	61.5 to 64.5 ft bgs	66.5 to 69.5 ft bgs	71.5 to 74.5 ft bgs	76.5 to 79.5 ft bgs	81.5 to 84.5 ft bgs
elev_MLLW	-33.5 to -36.5	-38.5 to -41.5	-43.5 to -46.5	-48.5 to -51.5	-53.5 to -56.5	-58.5 to -61.5	-63.5 to -66.5
elev_NGVD	-39.8 to -42.8	-44.8 to -47.8	-49.8 to -52.8	-54.8 to -57.8	-59.8 to -62.8	-64.8 to -67.8	-69.8 to -72.8

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00356 U	0.0467	0.00378 U	0.00361 U	0.00356 U	0.00361 U	0.00355 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00244 U	0.00245 U	0.00258 U	0.00247 U	0.00244 U	0.00247 U	0.00243 UJ
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0235 UJ	0.0236 U	0.0249 U	0.0238 U	0.0235 U	0.0277 J	0.0234 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	EA-1	EA-1	EA-1	EA-1	EA-1	EA-1	EA-1
Sample ID:	GW-092705-EA-1-014	GW-092805-EA-1-015	GW-092805-EA-1-016	GW-092805-EA-1-017	GW-092805-EA-1-018	GW-100305-EA-1-019	GW-100305-EA-1-020
Sample Date:	9/27/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	10/3/2005	10/3/2005
Sample Depth:	86.5 to 89.5 ft bgs	91.5 to 94.5 ft bgs	96.5 to 99.5 ft bgs	101.5 to 104.5 ft bgs	106.5 to 109.5 ft bgs	111.5 to 114.5 ft bgs	116.5 to 119.5 ft bgs
elev_MLLW	-68.5 to -71.5	-73.5 to -76.5	-78.5 to -81.5	-83.5 to -86.5	-88.5 to -91.5	-93.5 to -96.5	-98.5 to -101.5
elev_NGVD	-74.8 to -77.8	-79.8 to -82.8	-84.8 to -87.8	-89.8 to -92.8	-94.8 to -97.8	-99.8 to -102.8	-104.8 to -107.8

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00357 U	0.00357 U	0.00365 U	0.00355 U	0.0217	0.00372 U	0.0038 UJ
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00244 U	0.00244 U	0.0025 U	0.00243 U	0.0711 J	0.00254 U	0.0026 UJ
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0235 U	2.06 J	0.024 U	0.0234 U	0.0234 U	0.0245 U	0.025 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

Sample Location:	EA-1	EA-1	EA-1	EA-1	EA-1	EA-1	EA-1
Sample ID:	GW-100405-EA-1-021	GW-100405-EA-1-022	GW-100405-EA-1-023	GW-100505-EA-1-024	GW-100505-EA-1-025	GW-100605-EA-1-026	GW-100605-EA-1-027
Sample Date:	10/4/2005	10/4/2005	10/4/2005	10/5/2005	10/5/2005	10/6/2005	10/6/2005
Sample Depth:	121.5 to 124.5 ft bgs	126.5 to 129.5 ft bgs	126.5 to 129.5 ft bgs	131.5 to 134.5 ft bgs	136.5 to 139.5 ft bgs	141.5 to 144.5 ft bgs	146.5 to 149.5 ft bgs
elev_MLLW	-103.5 to -106.5	-108.5 to -111.5	-108.5 to -111.5	-113.5 to -116.5	-118.5 to -121.5	-123.5 to -126.5	-128.5 to -131.5
elev_NGVD	-109.8 to -112.8	-114.8 to -117.8	-114.8 to -117.8	-119.8 to -122.8	-124.8 to -127.8	-129.8 to -132.8	-134.8 to -137.8

(Duplicate)

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00358 U	0.00361 U	0.00355 U	0.00474 U	0.0038 U	0.00361 U	0.00365 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00245 U	0.00247 U	0.00243 U	0.00324 U	0.0026 U	0.00247 U	0.0025 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0236 U	0.0238 U	0.0234 U	0.0313 U	0.025 U	0.0238 U	0.024 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-1</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	
<i>Sample ID:</i>		<i>GW-100705-EA-1-028</i>	<i>GW-101005-EA-2-001</i>	<i>GW-101005-EA-2-002</i>	<i>GW-101005-EA-2-003</i>	<i>GW-101105-EA-2-004</i>	<i>GW-101105-EA-2-005</i>	<i>GW-101105-EA-2-006</i>	
<i>Sample Date:</i>		<i>10/7/2005</i>	<i>10/10/2005</i>	<i>10/10/2005</i>	<i>10/10/2005</i>	<i>10/11/2005</i>	<i>10/11/2005</i>	<i>10/11/2005</i>	
<i>Sample Depth:</i>		<i>151.5 to 154.5 ft bgs</i>	<i>15 to 18 ft bgs</i>	<i>20 to 23 ft bgs</i>	<i>25 to 28 ft bgs</i>	<i>30 to 33 ft bgs</i>	<i>35 to 38 ft bgs</i>	<i>40 to 43 ft bgs</i>	
<i>elev_MLLW</i>		<i>-133.5 to -136.5</i>	<i>3 to 0</i>	<i>-2 to -5</i>	<i>-7 to -10</i>	<i>-12 to -15</i>	<i>-17 to -20</i>	<i>-22 to -25</i>	
<i>elev_NGVD</i>		<i>-139.8 to -142.8</i>	<i>-3.3 to -6.3</i>	<i>-8.3 to -11.3</i>	<i>-13.3 to -16.3</i>	<i>-18.3 to -21.3</i>	<i>-23.3 to -26.3</i>	<i>-28.3 to -31.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00361 U	0.00361 U	0.00361 U	0.00361 U	0.00358 UJ	0.00356 UJ	0.00355 UJ
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00247 U	0.00247 UJ	0.00247 UJ	0.00247 UJ	0.00245 UJ	0.00244 UJ	0.00243 UJ
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0238 U	0.0238 U	0.0238 UJ	0.0238 U	0.0236 UJ	0.0235 UJ	1.37 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	
<i>Sample ID:</i>		<i>GW-101105-EA-2-007</i>	<i>GW-101105-EA-2-008</i>	<i>GW-101205-EA-2-009</i>	<i>GW-101205-EA-2-010</i>	<i>GW-101205-EA-2-011</i>	<i>GW-101205-EA-2-012</i>	<i>GW-101305-EA-2-013</i>	
<i>Sample Date:</i>		<i>10/11/2005</i>	<i>10/11/2005</i>	<i>10/12/2005</i>	<i>10/12/2005</i>	<i>10/12/2005</i>	<i>10/12/2005</i>	<i>10/13/2005</i>	
<i>Sample Depth:</i>		<i>45 to 48 ft bgs</i>	<i>50 to 53 ft bgs</i>	<i>55 to 58 ft bgs</i>	<i>60 to 63 ft bgs</i>	<i>65 to 68 ft bgs</i>	<i>70 to 73 ft bgs</i>	<i>75 to 78 ft bgs</i>	
<i>elev_MLLW</i>		<i>-27 to -30</i>	<i>-32 to -35</i>	<i>-37 to -40</i>	<i>-42 to -45</i>	<i>-47 to -50</i>	<i>-52 to -55</i>	<i>-57 to -60</i>	
<i>elev_NGVD</i>		<i>-33.3 to -36.3</i>	<i>-38.3 to -41.3</i>	<i>-43.3 to -46.3</i>	<i>-48.3 to -51.3</i>	<i>-53.3 to -56.3</i>	<i>-58.3 to -61.3</i>	<i>-63.3 to -66.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00358 UJ	0.00361 UJ	0.00365 UJ	0.00358 UJ	0.00361 UJ	0.00372 UJ	0.00422 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00245 UJ	0.00247 UJ	0.0025 UJ	0.00245 UJ	0.00247 UJ	0.00254 UJ	0.00288 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.776 J	0.0714 J	0.257 J	0.0917 J	0.0488 J	0.0599 J	0.0278 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	
<i>Sample ID:</i>		<i>GW-101305-EA-2-014</i>	<i>GW-101305-EA-2-015</i>	<i>GW-101405-EA-2-016</i>	<i>GW-101405-EA-2-017</i>	<i>GW-101705-EA-2-018</i>	<i>GW-101705-EA-2-020</i>	<i>GW-101805-EA-2-021</i>	
<i>Sample Date:</i>		<i>10/13/2005</i>	<i>10/13/2005</i>	<i>10/14/2005</i>	<i>10/14/2005</i>	<i>10/17/2005</i>	<i>10/17/2005</i>	<i>10/18/2005</i>	
<i>Sample Depth:</i>		<i>80 to 83 ft bgs</i>	<i>85 to 88 ft bgs</i>	<i>90 to 93 ft bgs</i>	<i>95 to 98 ft bgs</i>	<i>100 to 103 ft bgs</i>	<i>110 to 113 ft bgs</i>	<i>115 to 118 ft bgs</i>	
<i>elev_MLLW</i>		<i>-62 to -65</i>	<i>-67 to -70</i>	<i>-72 to -75</i>	<i>-77 to -80</i>	<i>-82 to -85</i>	<i>-92 to -95</i>	<i>-97 to -100</i>	
<i>elev_NGVD</i>		<i>-68.3 to -71.3</i>	<i>-73.3 to -76.3</i>	<i>-78.3 to -81.3</i>	<i>-83.3 to -86.3</i>	<i>-88.3 to -91.3</i>	<i>-98.3 to -101.3</i>	<i>-103.3 to -106.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00399 U	0.00365 U	0.00399 U	0.00376 U	0.00387 U	0.00365 U	0.00399 UJ
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00273 U	0.0025 U	0.00273 U	0.00257 U	0.00265 U	0.0025 U	0.00273 UJ
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0263 U	0.129	0.0263 U	0.0248 U	0.0255 U	0.024 U	0.0263 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	
<i>Sample ID:</i>		<i>GW-101805-EA-2-022</i>	<i>GW-101805-EA-2-023</i>	<i>GW-101905-EA-2-024</i>	<i>GW-101905-EA-2-025</i>	<i>GW-102005-EA-2-026</i>	<i>GW-102005-EA-2-027</i>	<i>GW-102005-EA-2-028</i>	
<i>Sample Date:</i>		<i>10/18/2005</i>	<i>10/18/2005</i>	<i>10/19/2005</i>	<i>10/19/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	
<i>Sample Depth:</i>		<i>115 to 118 ft bgs</i>	<i>120 to 123 ft bgs</i>	<i>125 to 128 ft bgs</i>	<i>130 to 133 ft bgs</i>	<i>135 to 138 ft bgs</i>	<i>140 to 143 ft bgs</i>	<i>145 to 148 ft bgs</i>	
<i>elev_MLLW</i>		<i>-97 to -100</i>	<i>-102 to -105</i>	<i>-107 to -110</i>	<i>-112 to -115</i>	<i>-117 to -120</i>	<i>-122 to -125</i>	<i>-127 to -130</i>	
<i>elev_NGVD</i>		<i>-103.3 to -106.3</i>	<i>-108.3 to -111.3</i>	<i>-113.3 to -116.3</i>	<i>-118.3 to -121.3</i>	<i>-123.3 to -126.3</i>	<i>-128.3 to -131.3</i>	<i>-133.3 to -136.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00365 UJ	0.00358 UJ	0.00422 UJ	0.00413 UJ	0.00357 U	0.00358 U	0.00355 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.0025 UJ	0.00245 UJ	0.00288 UJ	0.00282 UJ	0.00244 U	0.00245 U	0.00243 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.024 U	0.0236 U	0.0278 U	0.115	0.0431 J	0.0236 U	0.0234 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>EA-2</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>
<i>Sample ID:</i>	<i>GW-102105-EA-2-029</i>	<i>GW-102405-EA-3-001</i>	<i>GW-102505-EA-3-002</i>	<i>GW-102505-EA-3-003</i>	<i>GW-102505-EA-3-004</i>	<i>GW-102505-EA-3-005</i>	<i>GW-102505-EA-3-006</i>	
<i>Sample Date:</i>	<i>10/21/2005</i>	<i>10/24/2005</i>	<i>10/25/2005</i>	<i>10/25/2005</i>	<i>10/25/2005</i>	<i>10/25/2005</i>	<i>10/25/2005</i>	<i>10/25/2005</i>
<i>Sample Depth:</i>	<i>150 to 153 ft bgs</i>	<i>12 to 15 ft bgs</i>	<i>20 to 23 ft bgs</i>	<i>25 to 28 ft bgs</i>	<i>30 to 33 ft bgs</i>	<i>35 to 38 ft bgs</i>	<i>40 to 43 ft bgs</i>	
<i>elev_MLLW</i>	<i>-132 to -135</i>	<i>6 to 3</i>	<i>-2 to -5</i>	<i>-7 to -10</i>	<i>-12 to -15</i>	<i>-17 to -20</i>	<i>-22 to -25</i>	
<i>elev_NGVD</i>	<i>-138.3 to -141.3</i>	<i>-0.3 to -3.3</i>	<i>-8.3 to -11.3</i>	<i>-13.3 to -16.3</i>	<i>-18.3 to -21.3</i>	<i>-23.3 to -26.3</i>	<i>-28.3 to -31.3</i>	

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00356 U	0.016 UJ	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00244 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0235 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>
<i>Sample ID:</i>		<i>GW-102605-EA-3-007</i>	<i>GW-102605-EA-3-008</i>	<i>GW-102605-EA-3-009</i>	<i>GW-102605-EA-3-010</i>	<i>GW-102705-EA-3-011</i>	<i>GW-102705-EA-3-012</i>	<i>GW-102705-EA-3-013</i>
<i>Sample Date:</i>		<i>10/26/2005</i>	<i>10/26/2005</i>	<i>10/26/2005</i>	<i>10/26/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>
<i>Sample Depth:</i>		<i>45 to 48 ft bgs</i>	<i>50 to 53 ft bgs</i>	<i>55 to 58 ft bgs</i>	<i>60 to 63 ft bgs</i>	<i>65 to 68 ft bgs</i>	<i>70 to 73 ft bgs</i>	<i>75 to 78 ft bgs</i>
<i>elev_MLLW</i>		<i>-27 to -30</i>	<i>-32 to -35</i>	<i>-37 to -40</i>	<i>-42 to -45</i>	<i>-47 to -50</i>	<i>-52 to -55</i>	<i>-57 to -60</i>
<i>elev_NGVD</i>		<i>-33.3 to -36.3</i>	<i>-38.3 to -41.3</i>	<i>-43.3 to -46.3</i>	<i>-48.3 to -51.3</i>	<i>-53.3 to -56.3</i>	<i>-58.3 to -61.3</i>	<i>-63.3 to -66.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	2.5	2.8

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>
<i>Sample ID:</i>		<i>GW-102705-EA-3-014</i>	<i>GW-102705-EA-3-015</i>	<i>GW-102805-EA-3-016</i>	<i>GW-102805-EA-3-017</i>	<i>GW-102805-EA-3-018</i>	<i>GW-103105-EA-3-019</i>	<i>GW-103105-EA-3-020</i>
<i>Sample Date:</i>		<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/28/2005</i>	<i>10/28/2005</i>	<i>10/28/2005</i>	<i>10/31/2005</i>	<i>10/31/2005</i>
<i>Sample Depth:</i>		<i>80 to 83 ft bgs</i>	<i>85 to 88 ft bgs</i>	<i>90 to 93 ft bgs</i>	<i>95 to 98 ft bgs</i>	<i>95 to 98 ft bgs</i>	<i>100 to 103 ft bgs</i>	<i>105 to 108 ft bgs</i>
<i>elev_MLLW</i>		<i>-62 to -65</i>	<i>-67 to -70</i>	<i>-72 to -75</i>	<i>-77 to -80</i>	<i>-77 to -80</i>	<i>-82 to -85</i>	<i>-87 to -90</i>
<i>elev_NGVD</i>		<i>-68.3 to -71.3</i>	<i>-73.3 to -76.3</i>	<i>-78.3 to -81.3</i>	<i>-83.3 to -86.3</i>	<i>-83.3 to -86.3</i> <i>(Duplicate)</i>	<i>-88.3 to -91.3</i>	<i>-93.3 to -96.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.080 U	0.080 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.25 U	0.25 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	1.50 U	1.50 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>
<i>Sample ID:</i>		<i>GW-110105-DC-EA-3-021</i>	<i>GW-110105-DC-EA-3-022</i>	<i>GW-110205-EA-3-023</i>	<i>GW-110205-EA-3-024</i>	<i>GW-110305-EA-3-025</i>	<i>GW-110305-EA-3-026</i>	<i>GW-110305-EA-3-027</i>
<i>Sample Date:</i>		<i>11/1/2005</i>	<i>11/1/2005</i>	<i>11/2/2005</i>	<i>11/2/2005</i>	<i>11/3/2005</i>	<i>11/3/2005</i>	<i>11/3/2005</i>
<i>Sample Depth:</i>		<i>110 to 113 ft bgs</i>	<i>115 to 118 ft bgs</i>	<i>120 to 123 ft bgs</i>	<i>125 to 128 ft bgs</i>	<i>130 to 133 ft bgs</i>	<i>135 to 138 ft bgs</i>	<i>140 to 143 ft bgs</i>
<i>elev_MLLW</i>		<i>-92 to -95</i>	<i>-97 to -100</i>	<i>-102 to -105</i>	<i>-107 to -110</i>	<i>-112 to -115</i>	<i>-117 to -120</i>	<i>-122 to -125</i>
<i>elev_NGVD</i>		<i>-98.3 to -101.3</i>	<i>-103.3 to -106.3</i>	<i>-108.3 to -111.3</i>	<i>-113.3 to -116.3</i>	<i>-118.3 to -121.3</i>	<i>-123.3 to -126.3</i>	<i>-128.3 to -131.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	EA-3	EA-3	EA-3	EXT-9-Deep	EXT-9-Int
Sample ID:	GW-110405-EA-3-028	GW-110405-EA-3-029	GW-110705-EA-3-030	GW-092713-MD-MW-ext-9-Deep	GW-092713-MD-MW-ext-9-Intermediate
Sample Date:	11/4/2005	11/4/2005	11/7/2005	9/27/2013	9/27/2013
Sample Depth:	145 to 148 ft bgs	150 to 153 ft bgs	155 to 158 ft bgs		
elev_MLLW	-127 to -130	-132 to -135	-137 to -140		
elev_NGVD	-133.3 to -136.3	-138.3 to -141.3	-143.3 to -146.3		

Parameters	Units	CSI	WG				
Semi-volatile Organic Compounds							
Hexachlorobenzene	µg/L	0.00077	-	-	-	0.00034 J	0.0064
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	0.013 U	1.1 U
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	-	-

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>EXT-9-Shallow</i>	<i>F-Deep</i>	<i>F-Int</i>	<i>F-Shallow-New</i>	<i>G</i>	<i>G-Int</i>		
<i>Sample ID:</i>	<i>GW-092713-MD-MW-ext-9-Shallow</i>	<i>GW-092613-NH-MW-F-D</i>	<i>GW-092613-NH-MW-F-I</i>	<i>GW-101113-MD-F-Shallow</i>	<i>GW-092513-NH-MW-G-D</i>	<i>GW-092613-NH-MW-G-I</i>		
<i>Sample Date:</i>	<i>9/27/2013</i>	<i>9/26/2013</i>	<i>9/26/2013</i>	<i>10/11/2013</i>	<i>9/25/2013</i>	<i>9/26/2013</i>		
<i>Sample Depth:</i>								
<i>elev_MLLW</i>								
<i>elev_NGVD</i>								
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	0.00089 J	0.00099 U	0.001 U	0.0011 U	0.00097 U	0.00099 U
Hexachlorobenzene (dissolved)	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	0.073 U	0.00099 U	0.00034 J	0.0011 U	0.00097 U	0.0073 U
Hexachlorobutadiene (dissolved)	µg/L	0.013	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>G-Int</i>	<i>G-Shallow</i>	<i>H-01</i>	<i>HC08-EP18</i>	<i>HC-N11-5</i>	<i>HC-N11-6</i>	<i>HC-N11-8</i>	<i>HC-N12342526-6</i>	<i>HC-N12342526-7</i>	
<i>Sample ID:</i>	GW-092613-NH-FD1	GW-092513-NH-MW-G-S	GW-092713-NH-H-01	HC08-EP18	HC-N11-5	HC-N11-6	HC-N11-8	HC-N12342526-6	HC-N12342526-7	
<i>Sample Date:</i>	9/26/2013	9/25/2013	9/27/2013	10/24/2008	11/9/2011	11/9/2011	11/9/2011	11/10/2011	11/10/2011	
<i>Sample Depth:</i>				12 ft BGS						
<i>elev_MLLW</i>										
<i>elev_NGVD</i>										
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>	<i>(Duplicate)</i>						
Semi-volatile Organic Compounds										
Hexachlorobenzene	µg/L	0.00077	0.00097 U	0.0011 U	0.001 U	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	0.00097 U	0.0029 U	0.0076	15 U	1.0 U	2.0 U	0.20 U	0.20 U
Hexachlorobutadiene (dissolved)	µg/L	0.013	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	-	-	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	HC-N12342526-8	HC-N6-1	HC-N6-2	HC-N6-3	HC-N6-4	HYD-1	HYD-1	HYD-1
Sample ID:	HC-N12342526-8	HC-N6-1 GW	HC-N6-2 GW	HC-N6-3 GW	HC-N6-4 GW	GW-083105-HYD-1-001	GW-083105-HYD-1-002	GW-083105-HYD-1-003
Sample Date:	11/10/2011	9/22/2010	9/22/2010	9/22/2010	9/22/2010	8/31/2005	8/31/2005	8/31/2005
Sample Depth:		10 to 12 ft BGS	10 to 12 ft BGS	10 to 12 ft BGS	10 to 12 ft BGS	4 to 7 ft bml	14 to 17 ft bml	24 to 27 ft bml
elev_MLLW		7 to 5	7 to 5	7 to 5	7 to 5	-40.3 to -43.3	-50.3 to -53.3	-60.3 to -63.3
elev_NGVD		0.7 to -1.3	0.7 to -1.3	0.7 to -1.3	0.7 to -1.3	-46.6 to -49.6	-56.6 to -59.6	-66.6 to -69.6

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	-	-	-	-	0.00356 U	0.00354 U	0.00355 U
Hexachlorobutadiene	µg/L	0.013	4.0 U	500 U	50 U	60 U	100 U	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	-	-	-	-	0.00243 U	0.00242 U	0.00243 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	-	-	-	-	0.0234 U	0.0233 U	0.0234 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	HYD-1	HYD-1	HYD-1	HYD-1	HYD-1	HYD-1
Sample ID:	GW-083105-HYD-1-004	GW-090105-HYD-1-005	GW-090105-HYD-1-006	GW-090105-HYD-1-007	GW-090105-HYD-1-008	GW-090105-HYD-1-009
Sample Date:	8/31/2005	9/1/2005	9/1/2005	9/1/2005	9/1/2005	9/1/2005
Sample Depth:	34 to 37 ft bml	44 to 47 ft bml	54 to 57 ft bml	64 to 67 ft bml	74 to 77 ft bml	84 to 87 ft bml
elev_MLLW	-70.3 to -73.3	-80.3 to -83.3	-90.3 to -93.3	-100.3 to -103.3	-110.3 to -113.3	-120.3 to -123.3
elev_NGVD	-76.6 to -79.6	-86.6 to -89.6	-96.6 to -99.6	-106.6 to -109.6	-116.6 to -119.6	-126.6 to -129.6

Parameters	Units	CSI	WG					
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00353 U	0.00351 U	0.00351 U	0.00351 U	0.0035 U	0.00356 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00242 U	0.0024 U	0.0024 U	0.0024 U	0.00239 U	0.00243 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0233 U	0.0231 U	0.0231 U	0.0231 U	0.0231 U	0.0234 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-2</i>	<i>HYD-2</i>
<i>Sample ID:</i>	<i>GW-090105-HYD-1-010</i>	<i>GW-090105-HYD-1-011</i>	<i>GW-090105-HYD-1-012</i>	<i>GW-090105-HYD-1-013</i>	<i>GW-082905-HYD-2-001</i>	<i>GW-082905-HYD-2-002</i>
<i>Sample Date:</i>	<i>9/1/2005</i>	<i>9/1/2005</i>	<i>9/1/2005</i>	<i>9/1/2005</i>	<i>8/29/2005</i>	<i>8/29/2005</i>
<i>Sample Depth:</i>	<i>94 to 97 ft bml</i>	<i>104 to 107 ft bml</i>	<i>114 to 117 ft bml</i>	<i>124 to 127 ft bml</i>	<i>8 to 11 ft bml</i>	<i>18 to 21 ft bml</i>
<i>elev_MLLW</i>	<i>-130.3 to -133.3</i>	<i>-140.3 to -143.3</i>	<i>-150.3 to -153.3</i>	<i>-160.3 to -163.3</i>	<i>-45.8 to -48.8</i>	<i>-55.8 to -58.8</i>
<i>elev_NGVD</i>	<i>-136.6 to -139.6</i>	<i>-146.6 to -149.6</i>	<i>-156.6 to -159.6</i>	<i>-166.6 to -169.6</i>	<i>-52.1 to -55.1</i>	<i>-62.1 to -65.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Semi-volatile Organic Compounds</i>						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.0036 U	0.00355 U	0.00354 U	0.00352 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00246 U	0.00243 U	0.00242 U	0.00241 U
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0237 U	0.0234 U	0.0234 U	0.0232 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>
<i>Sample ID:</i>		<i>GW-082905-HYD-2-003</i>	<i>GW-082905-HYD-2-004</i>	<i>GW-083005-HYD-2-005</i>	<i>GW-083005-HYD-2-006</i>	<i>GW-083005-HYD-2-007</i>	<i>GW-083005-HYD-2-008</i>
<i>Sample Date:</i>		<i>8/29/2005</i>	<i>8/29/2005</i>	<i>8/30/2005</i>	<i>8/30/2005</i>	<i>8/30/2005</i>	<i>8/30/2005</i>
<i>Sample Depth:</i>		<i>28 to 31 ft bml</i>	<i>38 to 41 ft bml</i>	<i>48 to 51 ft bml</i>	<i>58 to 61 ft bml</i>	<i>68 to 71 ft bml</i>	<i>78 to 81 ft bml</i>
<i>elev_MLLW</i>		<i>-65.8 to -68.8</i>	<i>-75.8 to -78.8</i>	<i>-85.8 to -88.8</i>	<i>-95.8 to -98.8</i>	<i>-105.8 to -108.8</i>	<i>-115.8 to -118.8</i>
<i>elev_NGVD</i>		<i>-72.1 to -75.1</i>	<i>-82.1 to -85.1</i>	<i>-92.1 to -95.1</i>	<i>-102.1 to -105.1</i>	<i>-112.1 to -115.1</i>	<i>-122.1 to -125.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00359 U	0.0035 U	0.00352 U	0.00351 U	0.00353 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00245 U	0.00239 U	0.00241 U	0.0024 U	0.00241 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0236 U	0.023 U	0.0232 U	0.036 J	0.0234 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-3</i>
<i>Sample ID:</i>		<i>GW-083005-HYD-2-009</i>	<i>GW-083005-HYD-2-010</i>	<i>GW-083105-HYD-2-011</i>	<i>GW-081005-HYD-3-001</i>	<i>GW-081005-HYD-3-002</i>	<i>GW-081105-HYD-3-003</i>
<i>Sample Date:</i>		<i>8/30/2005</i>	<i>8/30/2005</i>	<i>8/31/2005</i>	<i>8/10/2005</i>	<i>8/10/2005</i>	<i>8/11/2005</i>
<i>Sample Depth:</i>		<i>88 to 91 ft bml</i>	<i>98 to 101 ft bml</i>	<i>108 to 111 ft bml</i>	<i>11 to 14 ft bml</i>	<i>21 to 24 ft bml</i>	<i>31 to 34 ft bml</i>
<i>elev_MLLW</i>		<i>-125.8 to -128.8</i>	<i>-135.8 to -138.8</i>	<i>-145.8 to -148.8</i>	<i>-22.79 to -25.79</i>	<i>-32.79 to -35.79</i>	<i>-42.79 to -45.79</i>
<i>elev_NGVD</i>		<i>-132.1 to -135.1</i>	<i>-142.1 to -145.1</i>	<i>-152.1 to -155.1</i>	<i>-29.1 to -32.1</i>	<i>-39.1 to -42.1</i>	<i>-49.1 to -52.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00352 U	0.00351 U	0.00359 U	0.00376 J	0.00351 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00241 U	0.0024 U	0.00246 U	0.00247 U	0.0024 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0232 U	0.0231 U	0.0237 U	0.0238 U	0.0231 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	HYD-3	HYD-3	HYD-3	HYD-3	HYD-3	HYD-3
Sample ID:	GW-081105-HYD-3-004	GW-081205-HYD-3-005	GW-081205-HYD-3-006	GW-081505-HYD-3-007	GW-081505-HYD-3-008	GW-081505-HYD-3-009
Sample Date:	8/11/2005	8/12/2005	8/12/2005	8/15/2005	8/15/2005	8/15/2005
Sample Depth:	41 to 44 ft bml	51 to 54 ft bml	61 to 64 ft bml	71 to 74 ft bml	81 to 84 ft bml	91 to 94 ft bml
elev_MLLW	-52.79 to -55.79	-62.79 to -65.79	-72.79 to -75.79	-82.79 to -85.79	-92.79 to -95.79	-102.79 to -105.79
elev_NGVD	-59.1 to -62.1	-69.1 to -72.1	-79.1 to -82.1	-89.1 to -92.1	-99.1 to -102.1	-109.1 to -112.1

Parameters	Units	CSI	WG					
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00353 U	0.00358 U	0.00361 U	0.0036 U	0.0036 U	0.00359 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00241 U	0.00245 U	0.00247 U	0.00246 U	0.00246 U	0.00246 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0233 U	0.0236 U	0.0238 U	0.0237 U	0.0237 U	0.0237 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-4</i>	<i>HYD-4</i>
<i>Sample ID:</i>		<i>GW-081605-HYD-3-010</i>	<i>GW-081705-HYD-3-011</i>	<i>GW-081705-HYD-3-012</i>	<i>GW-081805-HYD-3-013</i>	<i>GW-092205-HYD-4-001</i>	<i>GW-092205-HYD-4-002</i>
<i>Sample Date:</i>		<i>8/16/2005</i>	<i>8/17/2005</i>	<i>8/17/2005</i>	<i>8/18/2005</i>	<i>9/22/2005</i>	<i>9/22/2005</i>
<i>Sample Depth:</i>		<i>101 to 104 ft bml</i>	<i>111 to 114 ft bml</i>	<i>121 to 124 ft bml</i>	<i>131 to 134 ft bml</i>	<i>6 to 9 ft bml</i>	<i>16 to 19 ft bml</i>
<i>elev_MLLW</i>		<i>-112.79 to -115.79</i>	<i>-122.79 to -125.79</i>	<i>-132.79 to -135.79</i>	<i>-142.79 to -145.79</i>	<i>-50.8 to -53.8</i>	<i>-60.8 to -63.8</i>
<i>elev_NGVD</i>		<i>-119.1 to -122.1</i>	<i>-129.1 to -132.1</i>	<i>-139.1 to -142.1</i>	<i>-149.1 to -152.1</i>	<i>-57.1 to -60.1</i>	<i>-67.1 to -70.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00359 U	0.00351 U	0.00353 U	0.00358 U	0.00352 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00245 U	0.0024 U	0.00241 U	0.00245 U	0.00241 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0236 U	0.0231 U	0.0232 U	0.0236 U	0.0232 U
							0.737 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-4</i>		
<i>Sample ID:</i>	<i>GW-092305-HYD-4-003</i>	<i>GW-092305-HYD-4-004</i>	<i>GW-092305-HYD-4-005</i>	<i>GW-092305-HYD-4-006</i>	<i>GW-092305-HYD-4-007</i>	<i>GW-092405-HYD-4-008</i>		
<i>Sample Date:</i>	<i>9/23/2005</i>	<i>9/23/2005</i>	<i>9/23/2005</i>	<i>9/23/2005</i>	<i>9/23/2005</i>	<i>9/24/2005</i>		
<i>Sample Depth:</i>	<i>26 to 29 ft bml</i>	<i>36 to 39 ft bml</i>	<i>46 to 49 ft bml</i>	<i>46 to 49 ft bml</i>	<i>56 to 59 ft bml</i>	<i>66 to 69 ft bml</i>		
<i>elev_MLLW</i>	<i>-70.8 to -73.8</i>	<i>-80.8 to -83.8</i>	<i>-90.8 to -93.8</i>	<i>-90.8 to -93.8</i>	<i>-100.8 to -103.8</i>	<i>-110.8 to -113.8</i>		
<i>elev_NGVD</i>	<i>-77.1 to -80.1</i>	<i>-87.1 to -90.1</i>	<i>-97.1 to -100.1</i>	<i>-97.1 to -100.1</i>	<i>-107.1 to -110.1</i>	<i>-117.1 to -120.1</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00355 UJ	0.00363 U	0.00353 UJ	0.00355 UJ	0.00351 UJ	0.00376 UJ
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00243 UJ	0.00248 U	0.00241 UJ	0.00243 UJ	0.0024 UJ	0.00257 UJ
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0234 U	0.0239 U	0.0233 UJ	0.0234 UJ	0.0231 UJ	0.0248 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	HYD-4	HYD-4	HYD-4	HYD-4	HYD-4	HYD-5
Sample ID:	GW-092405-HYD-4-009	GW-092605-HYD-4-010	GW-092605-HYD-4-011	GW-092605-HYD-4-012	GW-092605-HYD-4-013	GW-100405-HYD-5-001
Sample Date:	9/24/2005	9/26/2005	9/26/2005	9/26/2005	9/26/2005	10/4/2005
Sample Depth:	76 to 79 ft bml	86 to 89 ft bml	96 to 99 ft bml	106 to 109 ft bml	116 to 119 ft bml	14 to 17 ft bml
elev_MLLW	-120.8 to -123.8	-130.8 to -133.8	-140.8 to -143.8	-150.8 to -153.8	-160.8 to -163.8	-54.47 to -57.47
elev_NGVD	-127.1 to -130.1	-137.1 to -140.1	-147.1 to -150.1	-157.1 to -160.1	-167.1 to -170.1	-60.8 to -63.8

Parameters	Units	CSI	WG					
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00355 UJ	0.00355 U	0.00355 U	0.00354 U	0.00356 U	0.0036 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00243 UJ	0.00243 U	0.00243 U	0.00242 U	0.00244 U	0.00246 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0234 UJ	0.0234 U	0.0234 U	0.0233 U	0.0235 U	0.0237 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>HYD-5</i>	<i>HYD-5</i>	<i>HYD-5</i>	<i>HYD-5</i>	<i>HYD-5</i>	<i>HYD-5</i>
<i>Sample ID:</i>			<i>GW-100505-HYD-5-002</i>	<i>GW-100505-HYD-5-003</i>	<i>GW-100505-HYD-5-004</i>	<i>GW-100505-HYD-5-005</i>	<i>GW-100505-HYD-5-006</i>	<i>GW-100505-HYD-5-007</i>
<i>Sample Date:</i>			<i>10/5/2005</i>	<i>10/5/2005</i>	<i>10/5/2005</i>	<i>10/5/2005</i>	<i>10/5/2005</i>	<i>10/5/2005</i>
<i>Sample Depth:</i>			<i>24 to 27 ft bml</i>	<i>34 to 37 ft bml</i>	<i>34 to 37 ft bml</i>	<i>44 to 47 ft bml</i>	<i>54 to 57 ft bml</i>	<i>64 to 67 ft bml</i>
<i>elev_MLLW</i>			<i>-64.47 to -67.47</i>	<i>-74.47 to -77.47</i>	<i>-74.47 to -77.47</i>	<i>-84.47 to -87.47</i>	<i>-94.47 to -97.47</i>	<i>-104.47 to -107.47</i>
<i>elev_NGVD</i>			<i>-70.8 to -73.8</i>	<i>-80.8 to -83.8</i>	<i>-80.8 to -83.8</i> <i>(Duplicate)</i>	<i>-90.8 to -93.8</i>	<i>-100.8 to -103.8</i>	<i>-110.8 to -113.8</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00365 U	0.00962	0.00361 U	0.00361 U	0.00365 U	0.00365 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.0025 U	0.00247 U	0.00247 U	0.00247 U	0.0025 U	0.0025 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.024 U	0.0238 U	0.0238 U	0.0238 U	0.024 U	0.024 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>HYD-5</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>
<i>Sample ID:</i>	<i>GW-100505-HYD-5-008</i>	<i>GW-093005-HYD-6-001</i>	<i>GW-093005-HYD-6-002</i>	<i>GW-093005-HYD-6-003</i>	<i>GW-093005-HYD-6-004</i>	<i>GW-100105-HYD-6-005</i>
<i>Sample Date:</i>	<i>10/5/2005</i>	<i>9/30/2005</i>	<i>9/30/2005</i>	<i>9/30/2005</i>	<i>9/30/2005</i>	<i>10/1/2005</i>
<i>Sample Depth:</i>	<i>74 to 84 ft bml</i>	<i>2.3 to 5.3 ft bml</i>	<i>12.3 to 15.3 ft bml</i>	<i>22.3 to 25.3 ft bml</i>	<i>32.3 to 35.4 ft bml</i>	<i>42.3 to 45.4 ft bml</i>
<i>elev_MLLW</i>	<i>-114.47 to -124.47</i>	<i>-43.99 to -46.99</i>	<i>-53.99 to -56.99</i>	<i>-63.99 to -66.99</i>	<i>-73.99 to -77.09</i>	<i>-83.99 to -87.09</i>
<i>elev_NGVD</i>	<i>-120.8 to -130.8</i>	<i>-50.3 to -53.3</i>	<i>-60.3 to -63.3</i>	<i>-70.3 to -73.3</i>	<i>-80.3 to -83.4</i>	<i>-90.3 to -93.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Semi-volatile Organic Compounds</i>						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00361 U	0.0523	0.00361 U	0.00361 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00247 U	0.00247 U	0.00247 U	0.00247 U
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0238 U	0.0442 J	0.0459 J	0.0294 J
						0.0238 U
						0.0238 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>
<i>Sample ID:</i>		<i>GW-100105-HYD-6-006</i>	<i>GW-100305-HYD-6-007</i>	<i>GW-100305-HYD-6-008</i>	<i>GW-100305-HYD-6-009</i>	<i>GW-100405-HYD-6-010</i>	<i>GW-100405-HYD-6-011</i>
<i>Sample Date:</i>		<i>10/1/2005</i>	<i>10/3/2005</i>	<i>10/3/2005</i>	<i>10/3/2005</i>	<i>10/4/2005</i>	<i>10/4/2005</i>
<i>Sample Depth:</i>		<i>52.3 to 55.3 ft bml</i>	<i>62.3 to 65.3 ft bml</i>	<i>62.3 to 65.3 ft bml</i>	<i>72.3 to 75.3 ft bml</i>	<i>82.3 to 85.3 ft bml</i>	<i>92.3 to 95.3 ft bml</i>
<i>elev_MLLW</i>		<i>-93.99 to -96.99</i>	<i>-103.99 to -106.99</i>	<i>-103.99 to -106.99</i>	<i>-113.99 to -116.99</i>	<i>-123.99 to -126.99</i>	<i>-133.99 to -136.99</i>
<i>elev_NGVD</i>		<i>-100.3 to -103.3</i>	<i>-110.3 to -113.3</i>	<i>-110.3 to -113.3</i>	<i>-120.3 to -123.3</i>	<i>-130.3 to -133.3</i>	<i>-140.3 to -143.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>	<i>(Duplicate)</i>			
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00361 U	0.00358 U	0.00355 U	0.00357 U	0.0036 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00247 U	0.00245 U	0.00243 U	0.00244 U	0.00246 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0238 U	0.0236 U	0.0234 U	0.0235 U	0.0237 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-6	HYD-6	HYD-7	HYD-7	HYD-7	HYD-7
Sample ID:	GW-100405-HYD-6-012	GW-100405-HYD-6-013	GW-083105-HYD-7-001	GW-083105-HYD-7-002	GW-090105-HYD-7-003	GW-090105-HYD-7-004
Sample Date:	10/4/2005	10/4/2005	8/31/2005	8/31/2005	9/1/2005	9/1/2005
Sample Depth:	102.3 to 105.3 ft bml	112.3 to 115.3 ft bml	20 to 23 ft bml	20 to 23 ft bml	30 to 33 ft bml	40 to 43 ft bml
elev_MLLW	-143.99 to -146.99	-153.99 to -156.99	-27.5 to -30.5	-27.5 to -30.5	-37.5 to -40.5	-47.5 to -50.5
elev_NGVD	-150.3 to -153.3	-160.3 to -163.3	-33.8 to -36.8	-33.8 to -36.8	-43.8 to -46.8	-53.8 to -56.8
Parameters	Units	CSI	WG			
Semi-volatile Organic Compounds						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00368 U	0.00365 U	0.00352 UJ	R 0.0232
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00252 U	0.0025 U	0.00241 UJ	R 0.0024 U
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0243 UJ	0.024 UJ	0.0232 U	0.0231 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>								
<i>Sample ID:</i>								
<i>Sample Date:</i>								
<i>Sample Depth:</i>								
<i>elev_MLLW</i>								
<i>elev_NGVD</i>								
		<i>HYD-7</i>	<i>HYD-7</i>	<i>HYD-7</i>	<i>HYD-7</i>	<i>HYD-7</i>	<i>HYD-7</i>	<i>HYD-7</i>
		<i>GW-091405-HYD-7-005</i>	<i>GW-091405-HYD-7-006</i>	<i>GW-091505-HYD-7-007</i>	<i>GW-091505-HYD-7-008</i>	<i>GW-091505-HYD-7-009</i>	<i>GW-091605-HYD-7-010</i>	
		<i>9/14/2005</i>	<i>9/14/2005</i>	<i>9/15/2005</i>	<i>9/15/2005</i>	<i>9/15/2005</i>	<i>9/16/2005</i>	
		<i>50 to 53 ft bml</i>	<i>60 to 63 ft bml</i>	<i>70 to 73 ft bml</i>	<i>80 to 83 ft bml</i>	<i>90 to 93 ft bml</i>	<i>100 to 103 ft bml</i>	
		<i>-57.5 to -60.5</i>	<i>-67.5 to -70.5</i>	<i>-77.5 to -80.5</i>	<i>-87.5 to -90.5</i>	<i>-97.5 to -100.5</i>	<i>-107.5 to -110.5</i>	
		<i>-63.8 to -66.8</i>	<i>-73.8 to -76.8</i>	<i>-83.8 to -86.8</i>	<i>-93.8 to -96.8</i>	<i>-103.8 to -106.8</i>	<i>-113.8 to -116.8</i>	
Parameters	Units	CSI	WG					
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00386 U	0.0247	0.0036 U	0.0191 J	0.0148	0.00378 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00264 U	0.00246 UJ	0.00246 U	0.0024 UJ	0.00263 U	0.00259 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	R	0.0237 U	0.0237 U	0.0231 U	0.0253 U	0.0249 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>HYD-7</i>	<i>HYD-7</i>	<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-8</i>	
<i>Sample ID:</i>		<i>GW-091605-HYD-7-011</i>	<i>GW-091605-HYD-7-012</i>	<i>GW-091305-HYD-8-002</i>	<i>GW-091305-HYD-8-001</i>	<i>GW-091305-HYD-8-003</i>	<i>GW-091305-HYD-8-004</i>	
<i>Sample Date:</i>		<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/13/2005</i>	<i>9/13/2005</i>	<i>9/13/2005</i>	<i>9/13/2005</i>	
<i>Sample Depth:</i>		<i>110 to 113 ft bml</i>	<i>120 to 123 ft bml</i>	<i>2 to 5 ft bml</i>	<i>12 to 15 ft bml</i>	<i>22 to 25 ft bml</i>	<i>32 to 35 ft bml</i>	
<i>elev_MLLW</i>		<i>-117.5 to -120.5</i>	<i>-127.5 to -130.5</i>	<i>-40.1 to -43.1</i>	<i>-50.1 to -53.1</i>	<i>-60.1 to -63.1</i>	<i>-70.1 to -73.1</i>	
<i>elev_NGVD</i>		<i>-123.8 to -126.8</i>	<i>-133.8 to -136.8</i>	<i>-46.4 to -49.4</i>	<i>-56.4 to -59.4</i>	<i>-66.4 to -69.4</i>	<i>-76.4 to -79.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00381 U	0.00377 U	0.00365 U	0.00888 J	0.00355 U	0.00356 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00261 U	0.00258 U	0.00249 U	0.00241 U	0.00243 U	0.00243 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0251 U	0.0248 U	0.024 U	0.0442 J	0.0234 U	0.0234 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-9</i>
<i>Sample ID:</i>		<i>GW-091405-HYD-8-005</i>	<i>GW-091405-HYD-8-006</i>	<i>GW-091405-HYD-8-007</i>	<i>GW-091405-HYD-8-008</i>	<i>GW-091405-HYD-8-009</i>	<i>GW-091405-HYD-9-001</i>
<i>Sample Date:</i>		<i>9/14/2005</i>	<i>9/14/2005</i>	<i>9/14/2005</i>	<i>9/14/2005</i>	<i>9/14/2005</i>	<i>9/14/2005</i>
<i>Sample Depth:</i>		<i>42 to 45 ft bml</i>	<i>52 to 55 ft bml</i>	<i>62 to 65 ft bml</i>	<i>72 to 75 ft bml</i>	<i>82 to 85 ft bml</i>	<i>2 to 5 ft bml</i>
<i>elev_MLLW</i>		<i>-80.1 to -83.1</i>	<i>-90.1 to -93.1</i>	<i>-100.1 to -103.1</i>	<i>-110.1 to -113.1</i>	<i>-120.1 to -123.1</i>	<i>-37.35 to -40.35</i>
<i>elev_NGVD</i>		<i>-86.4 to -89.4</i>	<i>-96.4 to -99.4</i>	<i>-106.4 to -109.4</i>	<i>-116.4 to -119.4</i>	<i>-126.4 to -129.4</i>	<i>-43.7 to -46.7</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00358 U	0.0035 U	0.0443	0.0137	0.00356 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00245 U	0.00239 U	0.00242 U	0.00243 U	0.00243 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0236 U	0.0231 U	0.0233 U	0.0234 U	0.0235 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	HYD-9	HYD-9	HYD-9	HYD-9	HYD-9	HYD-9
Sample ID:	GW-091405-HYD-9-002	GW-091505-HYD-9-003	GW-091505-HYD-9-004	GW-091505-HYD-9-005	GW-091505-HYD-9-006	GW-091505-HYD-9-007
Sample Date:	9/14/2005	9/15/2005	9/15/2005	9/15/2005	9/15/2005	9/15/2005
Sample Depth:	12 to 15 ft bml	22 to 25 ft bml	32 to 35 ft bml	42 to 45 ft bml	52 to 55 ft bml	62 to 65 ft bml
elev_MLLW	-47.35 to -50.35	-57.35 to -60.35	-67.35 to -70.35	-77.35 to -80.35	-87.35 to -90.35	-97.35 to -100.35
elev_NGVD	-53.7 to -56.7	-63.7 to -66.7	-73.7 to -76.7	-83.7 to -86.7	-93.7 to -96.7	-103.7 to -106.7

Parameters	Units	CSI	WG				
Semi-volatile Organic Compounds							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.0168	0.0109	0.00352 U	0.00357 U	0.00361 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00244 U	0.00242 U	0.00241 U	0.00244 U	0.00247 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0235 U	0.0233 U	0.0232 U	0.0235 U	0.0238 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>HYD-9</i>	<i>HYD-9</i>	<i>HYD-9</i>	<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>
<i>Sample ID:</i>	<i>GW-091505-HYD-9-008</i>	<i>GW-091505-HYD-9-009</i>	<i>GW-091505-HYD-9-010</i>	<i>GW-091605-HYD-10-001</i>	<i>GW-091605-HYD-10-002</i>	<i>GW-091605-HYD-10-003</i>
<i>Sample Date:</i>	<i>9/15/2005</i>	<i>9/15/2005</i>	<i>9/15/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>
<i>Sample Depth:</i>	<i>72 to 75 ft bml</i>	<i>82 to 85 ft bml</i>	<i>92 to 95 ft bml</i>	<i>5.3 to 8.3 ft bml</i>	<i>15.3 to 18.3 ft bml</i>	<i>25.3 to 28.3 ft bml</i>
<i>elev_MLLW</i>	<i>-107.35 to -110.35</i>	<i>-117.35 to -120.35</i>	<i>-127.35 to -130.35</i>	<i>-21.9 to -24.9</i>	<i>-31.9 to -34.9</i>	<i>-41.9 to -44.9</i>
<i>elev_NGVD</i>	<i>-113.7 to -116.7</i>	<i>-123.7 to -126.7</i>	<i>-133.7 to -136.7</i>	<i>-28.2 to -31.2</i>	<i>-38.2 to -41.2</i>	<i>-48.2 to -51.2</i>

Parameters**Units CSI WG****Semi-volatile Organic Compounds**

	Units	CSI	WG					
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00355 U	0.00357 U	0.00353 U	0.00354 U	0.00355 U	0.00363 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00243 U	0.00244 U	0.00241 U	0.00242 U	0.00243 U	0.00248 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0234 U	0.0235 U	0.0233 U	0.0233 U	0.0234 U	0.0239 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-10	HYD-10	HYD-10	HYD-10	HYD-10	HYD-10
Sample ID:	GW-091605-HYD-10-004	GW-091605-HYD-10-005	GW-091605-HYD-10-006	GW-091605-HYD-10-007	GW-091605-HYD-10-008	GW-091605-HYD-10-009
Sample Date:	9/16/2005	9/16/2005	9/16/2005	9/16/2005	9/16/2005	9/16/2005
Sample Depth:	35.3 to 38.3 ft bml	45.3 to 48.3 ft bml	45.3 to 48.3 ft bml	55.3 to 58.3 ft bml	65.3 to 68.3 ft bml	75.3 to 78.3 ft bml
elev_MLLW	-51.9 to -54.9	-61.9 to -64.9	-61.9 to -64.9	-71.9 to -74.9	-81.9 to -84.9	-91.9 to -94.9
elev_NGVD	-58.2 to -61.2	-68.2 to -71.2	-68.2 to -71.2	-78.2 to -81.2	-88.2 to -91.2	-98.2 to -101.2
Parameters	Units	CSI	WG	(Duplicate)		
Semi-volatile Organic Compounds						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00409 U	0.00356 U	0.00355 U	0.00356 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00279 U	0.00243 U	0.00243 U	0.00243 U
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0269 U	0.0235 U	0.0234 U	0.0234 U
						0.00931 J

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>
<i>Sample ID:</i>		<i>GW-091605-HYD-10-010</i>	<i>GW-091605-HYD-10-011</i>	<i>GW-091705-HYD-10-012</i>	<i>GW-122005-NL-13-001</i>	<i>GW-122005-NL-13-002</i>	<i>GW-122005-NL-13-003</i>
<i>Sample Date:</i>		<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/17/2005</i>	<i>12/20/2005</i>	<i>12/20/2005</i>	<i>12/20/2005</i>
<i>Sample Depth:</i>		<i>85.3 to 88.3 ft bml</i>	<i>95.3 to 98.3 ft bml</i>	<i>105.3 to 108.3 ft bml</i>	<i>0 to 3 ft bml</i>	<i>3 to 6 ft bml</i>	<i>6 to 9 ft bml</i>
<i>elev_MLLW</i>		<i>-101.9 to -104.9</i>	<i>-111.9 to -114.9</i>	<i>-121.9 to -124.9</i>	<i>-1.8 to -4.8</i>	<i>-4.8 to -7.8</i>	<i>-7.8 to -10.8</i>
<i>elev_NGVD</i>		<i>-108.2 to -111.2</i>	<i>-118.2 to -121.2</i>	<i>-128.2 to -131.2</i>	<i>-8.1 to -11.1</i>	<i>-11.1 to -14.1</i>	<i>-14.1 to -17.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00354 U	0.0673	0.0207	0.00361 U	0.00361 UJ
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00242 U	0.00242 U	0.00241 U	0.00247 U	0.00247 UJ
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0233 UJ	0.0233 U	0.0233 UJ	0.0461 J	0.0238 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>
<i>Sample ID:</i>		<i>GW-122005-NL-13-004</i>	<i>GW-122005-NL-13-005</i>	<i>GW-122105-NL-13-006</i>	<i>GW-122105-NL-13-007</i>	<i>GW-122105-NL-13-008</i>	<i>GW-122105-NL-13-009</i>
<i>Sample Date:</i>		<i>12/20/2005</i>	<i>12/20/2005</i>	<i>12/21/2005</i>	<i>12/21/2005</i>	<i>12/21/2005</i>	<i>12/21/2005</i>
<i>Sample Depth:</i>		<i>9 to 12 ft bml</i>	<i>12 to 15 ft bml</i>	<i>15 to 18 ft bml</i>	<i>18 to 21 ft bml</i>	<i>18 to 21 ft bml</i>	<i>21 to 24 ft bml</i>
<i>elev_MLLW</i>		<i>-10.8 to -13.8</i>	<i>-13.8 to -16.8</i>	<i>-16.8 to -19.8</i>	<i>-19.8 to -22.8</i>	<i>-19.8 to -22.8</i>	<i>-22.8 to -25.8</i>
<i>elev_NGVD</i>		<i>-17.1 to -20.1</i>	<i>-20.1 to -23.1</i>	<i>-23.1 to -26.1</i>	<i>-26.1 to -29.1</i>	<i>-26.1 to -29.1</i> <i>(Duplicate)</i>	<i>-29.1 to -32.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00361 U	0.00361 U	0.00361 U	0.0036 U	0.00361 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00726 J	0.00247 U	0.00247 U	0.00246 U	0.00247 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0238 U	0.0403 J	0.13 J	0.0237 U	0.0238 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-13</i>	<i>NL-13</i>	<i>NL-14</i>	<i>NL-14</i>	<i>NL-14</i>	<i>NL-14</i>	
<i>Sample ID:</i>		<i>GW-122105-NL-13-010</i>	<i>GW-122105-NL-13-011</i>	<i>GW-121405-NL-14-001</i>	<i>GW-121405-NL-14-002</i>	<i>GW-121405-NL-14-003</i>	<i>GW-121405-NL-14-004</i>	
<i>Sample Date:</i>		<i>12/21/2005</i>	<i>12/21/2005</i>	<i>12/14/2005</i>	<i>12/14/2005</i>	<i>12/14/2005</i>	<i>12/14/2005</i>	
<i>Sample Depth:</i>		<i>24 to 27 ft bml</i>	<i>27 to 30 ft bml</i>	<i>1 to 4 ft bml</i>	<i>4 to 7 ft bml</i>	<i>7 to 10 ft bml</i>	<i>10 to 13 ft bml</i>	
<i>elev_MLLW</i>		<i>-25.8 to -28.8</i>	<i>-28.8 to -31.8</i>	<i>-5.1 to -8.1</i>	<i>-8.1 to -11.1</i>	<i>-11.1 to -14.1</i>	<i>-14.1 to -17.1</i>	
<i>elev_NGVD</i>		<i>-32.1 to -35.1</i>	<i>-35.1 to -38.1</i>	<i>-11.4 to -14.4</i>	<i>-14.4 to -17.4</i>	<i>-17.4 to -20.4</i>	<i>-20.4 to -23.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00361 U	0.00365 U	0.00361 U	0.00368 U	0.00368 U	
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00247 U	0.0025 U	0.00247 U	0.00731 J	0.00252 U	
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	
Pentachlorophenol (dissolved)	µg/L	7.9	0.0238 U	0.024 U	0.119	0.139	0.312	
						0.0224 J		

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-14</i>	<i>NL-14</i>	<i>NL-14</i>	<i>NL-14</i>	<i>NL-14</i>	<i>NL-14</i>
<i>Sample ID:</i>		<i>GW-121405-NL-14-005</i>	<i>GW-121505-NL-14-006</i>	<i>GW-121505-NL-14-007</i>	<i>GW-121505-NL-14-008</i>	<i>GW-121505-NL-14-009</i>	<i>GW-121505-NL-14-010</i>
<i>Sample Date:</i>		<i>12/14/2005</i>	<i>12/15/2005</i>	<i>12/15/2005</i>	<i>12/15/2005</i>	<i>12/15/2005</i>	<i>12/15/2005</i>
<i>Sample Depth:</i>		<i>13 to 16 ft bml</i>	<i>16 to 19 ft bml</i>	<i>19 to 22 ft bml</i>	<i>22 to 25 ft bml</i>	<i>25 to 28 ft bml</i>	<i>25 to 28 ft bml</i>
<i>elev_MLLW</i>		<i>-17.1 to -20.1</i>	<i>-20.1 to -23.1</i>	<i>-23.1 to -26.1</i>	<i>-26.1 to -29.1</i>	<i>-29.1 to -32.1</i>	<i>-29.1 to -32.1</i>
<i>elev_NGVD</i>		<i>-23.4 to -26.4</i>	<i>-26.4 to -29.4</i>	<i>-29.4 to -32.4</i>	<i>-32.4 to -35.4</i>	<i>-35.4 to -38.4</i>	<i>-35.4 to -38.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				<i>(Duplicate)</i>
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00361 U	0.00361 U	0.00368 UJ	0.00361 U	0.00368 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00247 U	0.00247 U	0.00252 UJ	0.00247 U	0.00252 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0831	0.103	0.0243 UJ	0.0238 U	0.0328 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-14</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>
<i>Sample ID:</i>		<i>GW-121505-NL-14-011</i>	<i>GW-121605-NL-15-001</i>	<i>GW-121605-NL-15-002</i>	<i>GW-121605-NL-15-003</i>	<i>GW-121605-NL-15-004</i>	<i>GW-121605-NL-15-005</i>
<i>Sample Date:</i>		<i>12/15/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>
<i>Sample Depth:</i>		<i>28 to 31 ft bml</i>	<i>0 to 3 ft bml</i>	<i>3 to 6 ft bml</i>	<i>6 to 9 ft bml</i>	<i>9 to 12 ft bml</i>	<i>12 to 15 ft bml</i>
<i>elev_MLLW</i>		<i>-32.1 to -35.1</i>	<i>-1.8 to -4.8</i>	<i>-4.8 to -7.8</i>	<i>-7.8 to -10.8</i>	<i>-10.8 to -13.8</i>	<i>-13.8 to -16.8</i>
<i>elev_NGVD</i>		<i>-38.4 to -41.4</i>	<i>-8.1 to -11.1</i>	<i>-11.1 to -14.1</i>	<i>-14.1 to -17.1</i>	<i>-17.1 to -20.1</i>	<i>-20.1 to -23.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00368 U	0.00361 U	0.00361 U	0.00361 U	0.00365 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00252 U	0.00247 U	0.00386 J	0.0031 J	0.00247 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0243 U	0.0238 UJ	0.054	0.0238 U	0.319
							0.061 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-23</i>
<i>Sample ID:</i>		<i>GW-121605-NL-15-006</i>	<i>GW-121905-NL-15-007</i>	<i>GW-121905-NL-15-008</i>	<i>GW-121905-NL-15-009</i>	<i>GW-121905-NL-15-010</i>	<i>GW-081106-LH-NL23-001</i>
<i>Sample Date:</i>		<i>12/16/2005</i>	<i>12/19/2005</i>	<i>12/19/2005</i>	<i>12/19/2005</i>	<i>12/19/2005</i>	<i>8/11/2006</i>
<i>Sample Depth:</i>		<i>15 to 18 ft bml</i>	<i>18 to 21 ft bml</i>	<i>21 to 24 ft bml</i>	<i>24 to 27 ft bml</i>	<i>27 to 30 ft bml</i>	<i>0 to 3 ft bml</i>
<i>elev_MLLW</i>		<i>-16.8 to -19.8</i>	<i>-19.8 to -22.8</i>	<i>-22.8 to -25.8</i>	<i>-25.8 to -28.8</i>	<i>-28.8 to -31.8</i>	<i>-8 to -11</i>
<i>elev_NGVD</i>		<i>-23.1 to -26.1</i>	<i>-26.1 to -29.1</i>	<i>-29.1 to -32.1</i>	<i>-32.1 to -35.1</i>	<i>-35.1 to -38.1</i>	<i>-14.3 to -17.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00365 U	0.00361 U	0.00361 U	0.00361 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.0025 U	0.00247 U	0.00247 U	0.00247 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.024 U	0.0238 U	0.0238 U	0.0238 U	0.30 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>NL-23</i>	<i>NL-23</i>	<i>NL-23</i>	<i>NL-23</i>	<i>NL-23</i>	<i>NL-23</i>
<i>Sample ID:</i>			<i>GW-081106-LH-NL23-002</i>	<i>GW-081106-LH-NL23-003</i>	<i>GW-081406-LH-NL23-004</i>	<i>GW-081406-LH-NL23-005</i>	<i>GW-081406-LH-NL23-007</i>	<i>GW-081506-LH-NL23-008</i>
<i>Sample Date:</i>			<i>8/11/2006</i>	<i>8/11/2006</i>	<i>8/14/2006</i>	<i>8/14/2006</i>	<i>8/14/2006</i>	<i>8/15/2006</i>
<i>Sample Depth:</i>			<i>6 to 9 ft bml</i>	<i>6 to 9 ft bml</i>	<i>9 to 12 ft bml</i>	<i>12 to 15 ft bml</i>	<i>15 to 18 ft bml</i>	<i>18 to 21 ft bml</i>
<i>elev_MLLW</i>			<i>-14 to -17</i>	<i>-14 to -17</i>	<i>-17 to -20</i>	<i>-20 to -23</i>	<i>-23 to -26</i>	<i>-26 to -29</i>
<i>elev_NGVD</i>			<i>-20.3 to -23.3</i>	<i>-20.3 to -23.3</i> <i>(Duplicate)</i>	<i>-23.3 to -26.3</i>	<i>-26.3 to -29.3</i>	<i>-29.3 to -32.3</i> <i>(Duplicate)</i>	<i>-32.3 to -35.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.080 U	0.080 U	0.080 U	0.97 J	0.080 U	0.080 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>NL-23</i>	<i>NL-23</i>	<i>NL-24</i>	<i>NL-24</i>	<i>NL-24</i>	<i>NL-24</i>
<i>Sample ID:</i>	<i>GW-081506-LH-NL23-009</i>	<i>GW-081506-LH-NL23-010</i>	<i>GW-011207-BS-NL-24-001</i>	<i>GW-011507-BS-NL-24-002</i>	<i>GW-011507-BS-NL-24-003</i>	<i>GW-011507-BS-NL-24-004</i>
<i>Sample Date:</i>	<i>8/15/2006</i>	<i>8/15/2006</i>	<i>1/12/2007</i>	<i>1/15/2007</i>	<i>1/15/2007</i>	<i>1/15/2007</i>
<i>Sample Depth:</i>	<i>21 to 24 ft bml</i>	<i>24 to 27 ft bml</i>	<i>1.5 to 4.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>11.5 to 14.5 ft bml</i>	<i>16.5 to 19.5 ft bml</i>
<i>elev_MLLW</i>	<i>-29 to -32</i>	<i>-32 to -35</i>	<i>-25.89 to -28.89</i>	<i>-30.89 to -33.89</i>	<i>-35.89 to -38.89</i>	<i>-40.89 to -43.89</i>
<i>elev_NGVD</i>	<i>-35.3 to -38.3</i>	<i>-38.3 to -41.3</i>	<i>-32.2 to -35.2</i>	<i>-37.2 to -40.2</i>	<i>-42.2 to -45.2</i>	<i>-47.2 to -50.2</i>

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.080 U	0.080 U	0.080 U	0.080 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.25 U	0.25 U	0.25 U	0.25 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	1.50 U	1.50 U	1.6 J	R	R	R

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-24</i>	<i>NL-25</i>	<i>NL-25</i>	<i>NL-25</i>	<i>NL-25</i>
<i>Sample ID:</i>		<i>GW-011507-BS-NL-24-005</i>	<i>GW-011807-ILM-NL-25-001</i>	<i>GW-011807-ILM-NL-25-002</i>	<i>GW-011807-ILM-NL-25-003</i>	<i>GW-011807-ILM-NL-25-004</i>
<i>Sample Date:</i>		<i>1/15/2007</i>	<i>1/18/2007</i>	<i>1/18/2007</i>	<i>1/18/2007</i>	<i>1/18/2007</i>
<i>Sample Depth:</i>		<i>21.5 to 24.5 ft bml</i>	<i>1.5 to 4.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>11.5 to 14.5 ft bml</i>
<i>elev_MLLW</i>		<i>-45.89 to -48.89</i>	<i>-29 to -32</i>	<i>-34 to -37</i>	<i>-34 to -37</i>	<i>-39 to -42</i>
<i>elev_NGVD</i>		<i>-52.2 to -55.2</i>	<i>-35.3 to -38.3</i>	<i>-40.3 to -43.3</i>	<i>-40.3 to -43.3</i> <i>(Duplicate)</i>	<i>-45.3 to -48.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Semi-volatile Organic Compounds</i>						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	R	R	R	R

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-25</i>	<i>NL-25</i>	<i>NL-26</i>	<i>NL-26</i>	<i>NL-26</i>
<i>Sample ID:</i>		<i>GW-011807-ILM-NL-25-005</i>	<i>GW-011907-ILM-NL-25-006</i>	<i>GW-011707-ILM-NL-26-001</i>	<i>GW-011707-ILM-NL-26-002</i>	<i>GW-011807-ILM-NL-26-003</i>
<i>Sample Date:</i>		<i>1/18/2007</i>	<i>1/19/2007</i>	<i>1/17/2007</i>	<i>1/17/2007</i>	<i>1/18/2007</i>
<i>Sample Depth:</i>		<i>16.5 to 19.5 ft bml</i>	<i>21.5 to 24.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>11.5 to 14.5 ft bml</i>	<i>16.5 to 19.5 ft bml</i>
<i>elev_MLLW</i>		<i>-44 to -47</i>	<i>-49 to -52</i>	<i>-26.9 to -29.9</i>	<i>-31.9 to -34.9</i>	<i>-36.9 to -39.9</i>
<i>elev_NGVD</i>		<i>-50.3 to -53.3</i>	<i>-55.3 to -58.3</i>	<i>-33.2 to -36.2</i>	<i>-38.2 to -41.2</i>	<i>-43.2 to -46.2</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Semi-volatile Organic Compounds</i>						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	R	R	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-26</i>	<i>NL-26</i>	<i>NL-28</i>	<i>NL-28</i>	<i>NL-28</i>	<i>NL-28</i>
<i>Sample ID:</i>		<i>GW-011807-ILM-NL-26-004</i>	<i>GW-011807-ILM-NL-26-005</i>	<i>GW-011607-BS-NL-28-001</i>	<i>GW-011707-BS-NL-28-002</i>	<i>GW-011707-BS-NL-28-003</i>	<i>GW-011707-BS-NL-28-004</i>
<i>Sample Date:</i>		<i>1/18/2007</i>	<i>1/18/2007</i>	<i>1/16/2007</i>	<i>1/17/2007</i>	<i>1/17/2007</i>	<i>1/17/2007</i>
<i>Sample Depth:</i>		<i>16.5 to 19.5 ft bml</i>	<i>21.5 to 24.5 ft bml</i>	<i>1.5 to 3.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>11.5 to 14.5 ft bml</i>	<i>16.5 to 19.5 ft bml</i>
<i>elev_MLLW</i>		<i>-36.9 to -39.9</i>	<i>-41.9 to -44.9</i>	<i>-4.9 to -6.9</i>	<i>-9.9 to -12.9</i>	<i>-14.9 to -17.9</i>	<i>-19.9 to -22.9</i>
<i>elev_NGVD</i>		<i>-43.2 to -46.2</i>	<i>-48.2 to -51.2</i>	<i>-11.2 to -13.2</i>	<i>-16.2 to -19.2</i>	<i>-21.2 to -24.2</i>	<i>-26.2 to -29.2</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.080 U	0.080 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.10 J	0.25 U	0.25 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	1.50 U	1.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	NL-28	NL-29	NL-29	NL-29	NL-29	NL-29
Sample ID:	GW-011707-BS-NL-28-005	GW-011807-BS-NL-29-001	GW-011807-BS-NL-29-002	GW-011807-BS-NL-29-003	GW-011807-BS-NL-29-004	GW-011807-BS-NL-29-005
Sample Date:	1/17/2007	1/18/2007	1/18/2007	1/18/2007	1/18/2007	1/18/2007
Sample Depth:	21.5 to 24.5 ft bml	1.5 to 4.5 ft bml	6.5 to 9.5 ft bml	11.5 to 14.5 ft bml	16.5 to 19.5 ft bml	21.5 to 24.5 ft bml
elev_MLLW	-24.9 to -27.9	-6 to -9	-11 to -14	-16 to -19	-21 to -24	-26 to -29
elev_NGVD	-31.2 to -34.2	-12.3 to -15.3	-17.3 to -20.3	-22.3 to -25.3	-27.3 to -30.3	-32.3 to -35.3

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.080 U	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.25 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	R	R	R	R	R

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-30</i>	<i>NL-30</i>	<i>NL-30</i>	<i>NL-30</i>	<i>NL-30</i>	<i>Pier25-1</i>
<i>Sample ID:</i>		<i>GW-011907-BS-NL-30-001</i>	<i>GW-011907-BS-NL-30-002</i>	<i>GW-011907-BS-NL-30-003</i>	<i>GW-011907-ILM-NL-30-004</i>	<i>GW-011907-ILM-NL-30-005</i>	<i>GW-063005-PIER25-1-001</i>
<i>Sample Date:</i>		<i>1/19/2007</i>	<i>1/19/2007</i>	<i>1/19/2007</i>	<i>1/19/2007</i>	<i>1/19/2007</i>	<i>6/30/2005</i>
<i>Sample Depth:</i>		<i>1.5 to 4.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>11.5 to 14.5 ft bml</i>	<i>16.5 to 19.5 ft bml</i>	<i>21.5 to 24.5 ft bml</i>	<i>3 to 5 ft bml</i>
<i>elev_MLLW</i>		<i>-24.75 to -27.75</i>	<i>-29.75 to -32.75</i>	<i>-34.75 to -37.75</i>	<i>-39.75 to -42.75</i>	<i>-44.75 to -47.75</i>	<i>-40.6 to -42.6</i>
<i>elev_NGVD</i>		<i>-31.1 to -34.1</i>	<i>-36.1 to -39.1</i>	<i>-41.1 to -44.1</i>	<i>-46.1 to -49.1</i>	<i>-51.1 to -54.1</i>	<i>-46.9 to -48.9</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.00355 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	0.00243 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	0.0427 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-1</i>	<i>Pier25-1</i>	<i>Pier25-1</i>	<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-2</i>
<i>Sample ID:</i>		<i>GW-072605-PIER25-1-008</i>	<i>GW-072705-PIER25-1-009</i>	<i>GW-072705-PIER25-1-010</i>	<i>GW-071405-PIER25-2-001</i>	<i>GW-071405-PIER25-2-002</i>	<i>GW-071405-PIER25-2-003</i>
<i>Sample Date:</i>		<i>7/26/2005</i>	<i>7/27/2005</i>	<i>7/27/2005</i>	<i>7/14/2005</i>	<i>7/14/2005</i>	<i>7/14/2005</i>
<i>Sample Depth:</i>		<i>64.5 to 66.5 ft bml</i>	<i>74.5 to 76.5 ft bml</i>	<i>84.5 to 86.5 ft bml</i>	<i>6 to 9 ft bml</i>	<i>16 to 19 ft bml</i>	<i>26 to 29 ft bml</i>
<i>elev_MLLW</i>		<i>-102.1 to -104.1</i>	<i>-112.1 to -114.1</i>	<i>-122.1 to -124.1</i>	<i>-41.2 to -44.2</i>	<i>-51.2 to -54.2</i>	<i>-61.2 to -64.2</i>
<i>elev_NGVD</i>		<i>-108.4 to -110.4</i>	<i>-118.4 to -120.4</i>	<i>-128.4 to -130.4</i>	<i>-47.5 to -50.5</i>	<i>-57.5 to -60.5</i>	<i>-67.5 to -70.5</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00427 U	0.00367 U	0.00368 U	0.00357 U	0.00357 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00292 U	0.00251 U	0.00252 U	0.00244 U	0.00244 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0282 U	0.0242 U	0.0242 U	0.0235 U	0.0234 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-2</i>
<i>Sample ID:</i>		<i>GW-071405-PIER25-2-004</i>	<i>GW-071505-PIER25-2-005</i>	<i>GW-071505-PIER25-2-006</i>	<i>GW-071505-PIER25-2-007</i>	<i>GW-071805-PIER25-2-008</i>	<i>GW-071805-PIER25-2-009</i>
<i>Sample Date:</i>		<i>7/14/2005</i>	<i>7/15/2005</i>	<i>7/15/2005</i>	<i>7/15/2005</i>	<i>7/18/2005</i>	<i>7/18/2005</i>
<i>Sample Depth:</i>		<i>36 to 39 ft bml</i>	<i>46 to 49 ft bml</i>	<i>56 to 59 ft bml</i>	<i>66 to 69 ft bml</i>	<i>76 to 79 ft bml</i>	<i>86 to 89 ft bml</i>
<i>elev_MLLW</i>		<i>-71.2 to -74.2</i>	<i>-81.2 to -84.2</i>	<i>-91.2 to -94.2</i>	<i>-101.2 to -104.2</i>	<i>-111.2 to -114.2</i>	<i>-121.2 to -124.2</i>
<i>elev_NGVD</i>		<i>-77.5 to -80.5</i>	<i>-87.5 to -90.5</i>	<i>-97.5 to -100.5</i>	<i>-107.5 to -110.5</i>	<i>-117.5 to -120.5</i>	<i>-127.5 to -130.5</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00354 U	0.00353 UJ	0.00352 UJ	0.00354 UJ	0.00341 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00242 U	0.00241 UJ	0.00241 UJ	0.00242 UJ	0.00233 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0233 U	0.0233 UJ	0.0232 UJ	0.0233 UJ	0.0225 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-3</i>
<i>Sample ID:</i>		<i>GW-071905-PIER25-2-010</i>	<i>GW-081905-PIER25-2-011</i>	<i>GW-081905-PIER25-2-012</i>	<i>GW-081905-PIER25-2-013</i>	<i>GW-081905-PIER25-2-014</i>	<i>GW-081605-PIER25-3-001</i>
<i>Sample Date:</i>		<i>7/19/2005</i>	<i>8/19/2005</i>	<i>8/19/2005</i>	<i>8/19/2005</i>	<i>8/19/2005</i>	<i>8/16/2005</i>
<i>Sample Depth:</i>		<i>96 to 99 ft bml</i>	<i>106 to 109 ft bml</i>	<i>116 to 119 ft bml</i>	<i>126 to 129 ft bml</i>	<i>146 to 149 ft bml</i>	<i>36.7 to 39.7 ft bml</i>
<i>elev_MLLW</i>		<i>-131.2 to -134.2</i>	<i>-141.2 to -144.2</i>	<i>-151.2 to -154.2</i>	<i>-161.2 to -164.2</i>	<i>-181.2 to -184.2</i>	<i>-72.1 to -75.1</i>
<i>elev_NGVD</i>		<i>-137.5 to -140.5</i>	<i>-147.5 to -150.5</i>	<i>-157.5 to -160.5</i>	<i>-167.5 to -170.5</i>	<i>-187.5 to -190.5</i>	<i>-78.4 to -81.4</i>
Parameters	Units	CSI	WG				
Semi-volatile Organic Compounds							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00372 UJ	0.00358 U	0.00358 U	0.00354 U	0.00359 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00254 UJ	0.00245 U	0.00245 U	0.00242 U	0.00246 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0245 UJ	0.0236 U	0.0236 U	0.0233 U	0.0237 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-3</i>	<i>Pier25-3</i>	<i>Pier25-3</i>	<i>Pier25-3</i>	<i>Pier25-3</i>	<i>Pier25-3</i>
<i>Sample ID:</i>	<i>GW-081605-PIER25-3-002</i>	<i>GW-081605-PIER25-3-003</i>	<i>GW-081605-PIER25-3-004</i>	<i>GW-081605-PIER25-3-005</i>	<i>GW-081605-PIER25-3-006</i>	<i>GW-081705-PIER25-3-007</i>
<i>Sample Date:</i>	<i>8/16/2005</i>	<i>8/16/2005</i>	<i>8/16/2005</i>	<i>8/16/2005</i>	<i>8/16/2005</i>	<i>8/17/2005</i>
<i>Sample Depth:</i>	<i>46.7 to 49.7 ft bml</i>	<i>56.7 to 59.7 ft bml</i>	<i>66.7 to 69.7 ft bml</i>	<i>76.7 to 79.7 ft bml</i>	<i>86.7 to 89.7 ft bml</i>	<i>96.7 to 99.7 ft bml</i>
<i>elev_MLLW</i>	<i>-82.1 to -85.1</i>	<i>-92.1 to -95.1</i>	<i>-102.1 to -105.1</i>	<i>-112.1 to -115.1</i>	<i>-122.1 to -125.1</i>	<i>-132.1 to -135.1</i>
<i>elev_NGVD</i>	<i>-88.4 to -91.4</i>	<i>-98.4 to -101.4</i>	<i>-108.4 to -111.4</i>	<i>-118.4 to -121.4</i>	<i>-128.4 to -131.4</i>	<i>-138.4 to -141.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Semi-volatile Organic Compounds</i>						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00351 U	0.00352 U	0.00353 U	0.00355 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.0024 U	0.00241 U	0.00242 U	0.00243 U
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0231 U	0.0232 U	0.0233 U	0.0234 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-3</i>	<i>Pier25-3</i>	<i>Pier25-3</i>	<i>Pier25-3</i>	<i>Pier25-4</i>	<i>Pier25-4</i>
<i>Sample ID:</i>		<i>GW-081705-PIER25-3-008</i>	<i>GW-081705-PIER25-3-009</i>	<i>GW-081705-PIER25-3-010</i>	<i>GW-081705-PIER25-3-011</i>	<i>GW-081205-PIER25-4-001</i>	<i>GW-081205-PIER25-4-002</i>
<i>Sample Date:</i>		<i>8/17/2005</i>	<i>8/17/2005</i>	<i>8/17/2005</i>	<i>8/17/2005</i>	<i>8/12/2005</i>	<i>8/12/2005</i>
<i>Sample Depth:</i>		<i>106.7 to 109.7 ft bml</i>	<i>116.7 to 119.7 ft bml</i>	<i>126.7 to 129.7 ft bml</i>	<i>136.7 to 139.7 ft bml</i>	<i>37.1 to 40.1 ft bml</i>	<i>47.1 to 50.1 ft bml</i>
<i>elev_MLLW</i>		<i>-142.1 to -145.1</i>	<i>-152.1 to -155.1</i>	<i>-162.1 to -165.1</i>	<i>-172.1 to -175.1</i>	<i>-72.1 to -75.1</i>	<i>-82.1 to -85.1</i>
<i>elev_NGVD</i>		<i>-148.4 to -151.4</i>	<i>-158.4 to -161.4</i>	<i>-168.4 to -171.4</i>	<i>-178.4 to -181.4</i>	<i>-78.4 to -81.4</i>	<i>-88.4 to -91.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.0036 U	0.00355 U	0.00353 U	0.00356 U	0.00354 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00246 U	0.00243 U	0.00241 U	0.00243 U	0.00242 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0237 U	0.0234 U	0.0232 U	0.0234 U	0.0233 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-4</i>	<i>Pier25-4</i>	<i>Pier25-4</i>	<i>Pier25-5</i>	<i>Pier25-5</i>	<i>Pier25-5</i>
<i>Sample ID:</i>		<i>GW-081205-PIER25-4-003</i>	<i>GW-081205-PIER25-4-004</i>	<i>GW-081305-PIER25-4-005</i>	<i>GW-081505-PIER25-5-001</i>	<i>GW-081505-PIER25-5-002</i>	<i>GW-081505-PIER25-5-003</i>
<i>Sample Date:</i>		<i>8/12/2005</i>	<i>8/12/2005</i>	<i>8/13/2005</i>	<i>8/15/2005</i>	<i>8/15/2005</i>	<i>8/15/2005</i>
<i>Sample Depth:</i>		<i>67.1 to 70.1 ft bml</i>	<i>77.1 to 80.1 ft bml</i>	<i>87.1 to 90.1 ft bml</i>	<i>32 to 35 ft bml</i>	<i>40.5 to 43.5 ft bml</i>	<i>50.5 to 53.5 ft bml</i>
<i>elev_MLLW</i>		<i>-102.1 to -105.1</i>	<i>-112.1 to -115.1</i>	<i>-122.1 to -125.1</i>	<i>-73.6 to -76.6</i>	<i>-82.1 to -85.1</i>	<i>-92.1 to -95.1</i>
<i>elev_NGVD</i>		<i>-108.4 to -111.4</i>	<i>-118.4 to -121.4</i>	<i>-128.4 to -131.4</i>	<i>-79.9 to -82.9</i>	<i>-88.4 to -91.4</i>	<i>-98.4 to -101.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00359 U	0.00352 U	0.00358 U	0.00353 U	0.00354 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00245 U	0.00241 U	0.00245 U	0.00241 U	0.00242 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0236 U	0.0232 U	0.0236 U	0.0233 U	0.0233 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-5</i>	<i>Pier25-5</i>	<i>Pier25-5</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>
<i>Sample ID:</i>		<i>GW-081605-PIER25-5-004</i>	<i>GW-081605-PIER25-5-005</i>	<i>GW-081605-PIER25-5-006</i>	<i>GW-020206-PIER25-13-001</i>	<i>GW-020206-PIER25-13-002</i>	<i>GW-020206-PIER25-13-003</i>
<i>Sample Date:</i>		<i>8/16/2005</i>	<i>8/16/2005</i>	<i>8/16/2005</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>
<i>Sample Depth:</i>		<i>60.5 to 63.5 ft bml</i>	<i>60.5 to 63.5 ft bml</i>	<i>66.5 to 69.5 ft bml</i>	<i>0 to 3 ft bml</i>	<i>10 to 13 ft bml</i>	<i>20 to 23 ft bml</i>
<i>elev_MLLW</i>		<i>-102.1 to -105.1</i>	<i>-102.1 to -105.1</i>	<i>-108.1 to -111.1</i>	<i>-42.8 to -45.8</i>	<i>-52.8 to -55.8</i>	<i>-62.8 to -65.8</i>
<i>elev_NGVD</i>		<i>-108.4 to -111.4</i>	<i>-108.4 to -111.4</i>	<i>-114.4 to -117.4</i>	<i>-49.1 to -52.1</i>	<i>-59.1 to -62.1</i>	<i>-69.1 to -72.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00362 U	0.00359 U	0.00362 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00247 U	0.00246 U	0.00248 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0238 U	0.0237 U	0.0239 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>
<i>Sample ID:</i>		<i>GW-020206-PIER25-13-004</i>	<i>GW-020206-PIER25-13-005</i>	<i>GW-020206-PIER25-13-006</i>	<i>GW-020206-PIER25-13-007</i>	<i>GW-020206-PIER25-13-008</i>
<i>Sample Date:</i>		<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>
<i>Sample Depth:</i>		<i>30 to 33 ft bml</i>	<i>30 to 33 ft bml</i>	<i>40 to 43 ft bml</i>	<i>50 to 53 ft bml</i>	<i>60 to 63 ft bml</i>
<i>elev_MLLW</i>		<i>-72.8 to -75.8</i>	<i>-72.8 to -75.8</i>	<i>-82.8 to -85.8</i>	<i>-92.8 to -95.8</i>	<i>-102.8 to -105.8</i>
<i>elev_NGVD</i>		<i>-79.1 to -82.1</i>	<i>-79.1 to -82.1</i>	<i>-89.1 to -92.1</i>	<i>-99.1 to -102.1</i>	<i>-109.1 to -112.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Semi-volatile Organic Compounds</i>						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.080 U	0.080 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.25 U	0.25 U
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	1.50 U	1.50 U

(Duplicate)

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>PT-10</i>
<i>Sample ID:</i>		<i>GW-020306-PIER25-13-009</i>	<i>GW-020306-PIER25-13-010</i>	<i>GW-020306-PIER25-13-011</i>	<i>GW-020306-PIER25-13-012</i>	<i>GW-020306-PIER25-13-013</i>	<i>GW-061404-PT10-009</i>
<i>Sample Date:</i>		<i>2/3/2006</i>	<i>2/3/2006</i>	<i>2/3/2006</i>	<i>2/3/2006</i>	<i>2/3/2006</i>	<i>6/14/2004</i>
<i>Sample Depth:</i>		<i>70 to 73 ft bml</i>	<i>80 to 83 ft bml</i>	<i>90 to 93 ft bml</i>	<i>100 to 103 ft bml</i>	<i>110 to 113 ft bml</i>	<i>22 to 22.5 ft bml</i>
<i>elev_MLLW</i>		<i>-112.8 to -115.8</i>	<i>-122.8 to -125.8</i>	<i>-132.8 to -135.8</i>	<i>-142.8 to -145.8</i>	<i>-152.8 to -155.8</i>	<i>-35.14 to -35.64</i>
<i>elev_NGVD</i>		<i>-119.1 to -122.1</i>	<i>-129.1 to -132.1</i>	<i>-139.1 to -142.1</i>	<i>-149.1 to -152.1</i>	<i>-159.1 to -162.1</i>	<i>-41.5 to -42</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	1.33 U
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.080 U	0.080 UJ	0.016 U	0.016 U	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	0.78 U
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.25 U	0.25 UJ	0.05 U	0.05 U	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	1.50 U	1.50 U	0.30 U	0.30 U	-

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PT-10</i>	<i>PT-11</i>	<i>PT-11</i>	<i>PT-12</i>	<i>PT-12</i>	<i>PT-12A</i>	<i>PT-12A</i>
<i>Sample ID:</i>		<i>GW-061404-PT10-010</i>	<i>GW-061404-PT11-007</i>	<i>GW-061404-PT11-008</i>	<i>GW-061004-PT12-003</i>	<i>GW-061004-PT12-004</i>	<i>GW-102405-PT-12A-001</i>	<i>GW-102405-PT-12A-002</i>
<i>Sample Date:</i>		<i>6/14/2004</i>	<i>6/14/2004</i>	<i>6/14/2004</i>	<i>6/10/2004</i>	<i>6/10/2004</i>	<i>10/24/2005</i>	<i>10/24/2005</i>
<i>Sample Depth:</i>		<i>39.5 to 40 ft bml</i>	<i>20.5 to 21 ft bml</i>	<i>40.5 to 41 ft bml</i>	<i>22.5 to 23 ft bml</i>	<i>42 to 42.5 ft bml</i>	<i>68.9 to 71.9 ft bml</i>	<i>68.9 to 71.9 ft bml</i>
<i>elev_MLLW</i>		<i>-52.64 to -53.14</i>	<i>-30.64 to -31.14</i>	<i>-50.64 to -51.14</i>	<i>-55.44 to -55.94</i>	<i>-74.94 to -75.44</i>	<i>-92.4 to -95.4</i>	<i>-92.4 to -95.4</i>
<i>elev_NGVD</i>		<i>-59 to -59.5</i>	<i>-37 to -37.5</i>	<i>-57 to -57.5</i>	<i>-61.8 to -62.3</i>	<i>-81.3 to -81.8</i>	<i>-98.7 to -101.7</i>	<i>-98.7 to -101.7</i> <i>(Duplicate)</i>
Parameters	Units	CSI		WG				
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/L	0.00077	1.33 U	1.33 U	1.33 U	1.33 UJ	1.33 U	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	-	-	-	-	-	0.016 U
Hexachlorobutadiene	µg/L	0.013	0.78 U	0.78 U	0.78 U	0.78 UJ	0.78 U	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	-	-	-	-	-	0.05 U
Pentachlorophenol	µg/L	7.9	1.87 U	1.87 U	1.87 U	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	-	-	-	-	-	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>PT-12A</i>	<i>PT-12A</i>	<i>PT-13</i>	<i>PT-13</i>	<i>PT-13A</i>	<i>PT-13A</i>		
<i>Sample ID:</i>	GW-102405-PT-12A-003	GW-102405-PT-12A-004	GW-060904-PT13-001	GW-060904-PT13-002	GW-110905-PT-13A-001	GW-110905-PT-13A-002		
<i>Sample Date:</i>	10/24/2005	10/24/2005	6/9/2004	6/9/2004	11/9/2005	11/9/2005		
<i>Sample Depth:</i>	78.9 to 81.9 ft bml	88.9 to 91.9 ft bml	20 to 20.5 ft bml	42.5 to 43 ft bml	11.8 to 14.8 ft bml	21.8 to 24.8 ft bml		
<i>elev_MLLW</i>	-102.4 to -105.4	-112.4 to -115.4	-48.88 to -49.38	-71.38 to -71.88	-31.91 to -34.91	-41.91 to -44.91		
<i>elev_NGVD</i>	-108.7 to -111.7	-118.7 to -121.7	-55.2 to -55.7	-77.7 to -78.2	-38.2 to -41.2	-48.2 to -51.2		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	1.33 U	1.33 UJ	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 UJ	0.016 U	-	-	0.0036 U	0.00359 U
Hexachlorobutadiene	µg/L	0.013	-	-	610	22 J	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	R	0.05 U	-	-	0.288	0.057
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PT-13A</i>	<i>PT-13A</i>	<i>PT-13A</i>	<i>PT-13A</i>	<i>PT-13A</i>	<i>PT-13A</i>
<i>Sample ID:</i>		<i>GW-110905-PT-13A-003</i>	<i>GW-110905-PT-13A-004</i>	<i>GW-111005-PT-13A-005</i>	<i>GW-111005-PT-13A-007</i>	<i>GW-111005-PT-13A-008</i>	<i>GW-111005-PT-13A-009</i>
<i>Sample Date:</i>		<i>11/9/2005</i>	<i>11/9/2005</i>	<i>11/10/2005</i>	<i>11/10/2005</i>	<i>11/10/2005</i>	<i>11/10/2005</i>
<i>Sample Depth:</i>		<i>61.9 to 64.9 ft bml</i>	<i>71.9 to 74.9 ft bml</i>	<i>81.9 to 84.9 ft bml</i>	<i>101.9 to 104.9 ft bml</i>	<i>111.9 to 114.9 ft bml</i>	<i>121.9 to 124.9 ft bml</i>
<i>elev_MLLW</i>		<i>-82.01 to -85.01</i>	<i>-92.01 to -95.01</i>	<i>-102.01 to -105.01</i>	<i>-122.01 to -125.01</i>	<i>-132.01 to -135.01</i>	<i>-142.01 to -145.01</i>
<i>elev_NGVD</i>		<i>-88.3 to -91.3</i>	<i>-98.3 to -101.3</i>	<i>-108.3 to -111.3</i>	<i>-128.3 to -131.3</i>	<i>-138.3 to -141.3</i>	<i>-148.3 to -151.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.0036 U	0.00363 U	0.00357 U	0.00358 U	0.0036 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00246 U	0.00248 U	0.00244 U	0.00245 U	0.00246 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.168	0.127	0.0414 J	0.0275 J	0.0237 U
							0.0816

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	PT-13A	PT-13A	PT-14	PT-14	PT-15	PT-15
Sample ID:	GW-111005-PT-13A-010	GW-111105-PT-13A-011	GW-062104-PT14-013	GW-062104-PT14-014	GW-062904-PT15-019	GW-062904-PT15-020
Sample Date:	11/10/2005	11/11/2005	6/21/2004	6/21/2004	6/29/2004	6/29/2004
Sample Depth:	131.9 to 134.9 ft bml	141.9 to 144.9 ft bml	22 to 23 ft bml	40 to 41 ft bml	18 to 19 ft bml	49.42 to 50.42 ft bml
elev_MLLW	-152.01 to -155.01	-162.01 to -165.01	-16.14 to -17.14	-34.14 to -35.14	-30.14 to -31.14	-61.56 to -62.56
elev_NGVD	-158.3 to -161.3	-168.3 to -171.3	-22.5 to -23.5	-40.5 to -41.5	-36.5 to -37.5	-67.9 to -68.9

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	2.02 U	1.33 U	2.33 U	6.4 J
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00359 U	0.00356 U	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	1.18 U	0.78 U	6.6 J	32
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00245 U	0.00243 U	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0236 U	0.0235 U	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PT-15A	PT-15A	PT-15A	PT-15A	PT-15A	PT-15A
Sample ID:	GW-110905-PT-15A-001	GW-110905-PT-15A-002	GW-111005-PT-15A-004	GW-111005-PT-15A-005	GW-111105-PT-15A-006	GW-111105-PT-15A-007
Sample Date:	11/9/2005	11/9/2005	11/10/2005	11/10/2005	11/11/2005	11/11/2005
Sample Depth:	56 to 57 ft bml	66 to 67 ft bml	101 to 104 ft bml	111 to 114 ft bml	121 to 124 ft bml	131 to 134 ft bml
elev_MLLW	-69 to -70	-79 to -80	-114 to -117	-124 to -127	-134 to -137	-144 to -147
elev_NGVD	-75.3 to -76.3	-85.3 to -86.3	-120.3 to -123.3	-130.3 to -133.3	-140.3 to -143.3	-150.3 to -153.3

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00358 U	0.013	0.0036 U	0.00361 U	0.00361 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.108	0.331	0.0315 J	0.271 J	0.00247 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	-	-	0.24 J	0.0238 U	0.0238 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PT-15A</i>	<i>PT-15A</i>	<i>PT-15A</i>	<i>PT-15A</i>	<i>PT-16</i>	<i>PT-16</i>
<i>Sample ID:</i>		<i>GW-111405-PT-15A-008</i>	<i>GW-111405-PT-15A-009</i>	<i>GW-111405-PT-15A-010</i>	<i>GW-111505-PT-15A-011</i>	<i>GW-061104-PT16-005</i>	<i>GW-061104-PT16-006</i>
<i>Sample Date:</i>		<i>11/14/2005</i>	<i>11/14/2005</i>	<i>11/14/2005</i>	<i>11/15/2005</i>	<i>6/11/2004</i>	<i>6/11/2004</i>
<i>Sample Depth:</i>		<i>141 to 144 ft bml</i>	<i>151 to 154 ft bml</i>	<i>151 to 154 ft bml</i>	<i>161 to 164 ft bml</i>	<i>20.5 to 21 ft bml</i>	<i>40.5 to 41 ft bml</i>
<i>elev_MLLW</i>		<i>-154 to -157</i>	<i>-164 to -167</i>	<i>-164 to -167</i>	<i>-174 to -177</i>	<i>-62.93 to -63.43</i>	<i>-82.93 to -83.43</i>
<i>elev_NGVD</i>		<i>-160.3 to -163.3</i>	<i>-170.3 to -173.3</i>	<i>-170.3 to -173.3</i> <i>(Duplicate)</i>	<i>-180.3 to -183.3</i>	<i>-69.2 to -69.8</i>	<i>-89.2 to -89.8</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	1.33 U	1.33 UJ
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00361 U	0.00358 U	0.00361 U	0.00361 U	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	0.78 U	0.78 UJ
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.0541	0.0146 J	0.0354	0.522	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0579	0.0236 U	0.0408 J	0.634	-

TABLE 4.18

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PT-17	PT-17	PT-18	PT-18	PT-18	PZ-1		
Sample ID:	GW-062404-PT17-017	GW-062404-PT17-018	GW-062204-PT18-015	GW-062204-PT18-016	GW-062204-FD2	PZ-1		
Sample Date:	6/24/2004	6/24/2004	6/22/2004	6/22/2004	6/22/2004	7/1/2004		
Sample Depth:	18 to 19 ft bml	38 to 39 ft bml	38 to 39 ft bml	39 to 42 ft bml	39 to 42 ft bml	2 to 3 ft BML		
elev_MLLW	-42.14 to -43.14	-62.14 to -63.14	-39.14 to -40.14	-40.14 to -43.14	-40.14 to -43.14	-38.25027087 to -39.25027087		
elev_NGVD	-48.5 to -49.5	-68.5 to -69.5	-45.5 to -46.5	-46.5 to -49.5	-46.5 to -49.5 (Duplicate)	-44.6 to -45.6		
Parameters	Units	CSI	WG					
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/L	0.00077	6.9 J	1.33 U	1.33 U	1.33 U	5 U	
Hexachlorobenzene (dissolved)	µg/L	0.00077	-	-	-	-	-	
Hexachlorobutadiene	µg/L	0.013	32 J	7.0 J	15	0.78 UJ	12 J	10 U Dup 5 U
Hexachlorobutadiene (dissolved)	µg/L	0.013	-	-	-	-	-	
Pentachlorophenol	µg/L	7.9	-	-	-	-	5 U	
Pentachlorophenol (dissolved)	µg/L	7.9	-	-	-	-	-	

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	PZ-2	PZ-3	PZ-4	PZ-7	PZ-SHI-1-33
Sample ID:	PZ-2	PZ-3	PZ-4	PZ-7	GW-042706-TR-PZ-SHI-1-4
Sample Date:	7/1/2004	7/1/2004	7/1/2004	7/1/2004	4/27/2006
Sample Depth:	2 to 3 ft BML	3.75 to 4.75 ft BML	0.5 to 1.5 ft BML	2 to 3 ft BML	2.25 to 3.25 ft bml
elev_MLLW	-42.02901095 to -43.02901095	-42.40007824 to -43.40007824	-25.57614158 to -26.57614158	-21.51413147 to -22.51413147	-14.07 to -15.07
elev_NGVD	-48.3 to -49.3	-48.7 to -49.7	-31.9 to -32.9	-27.8 to -28.8	-20.4 to -21.4

Parameters	Units	CSI	WG				
Semi-volatile Organic Compounds							
Hexachlorobenzene	µg/L	0.00077	5 U	5 U	5 U	3.1	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	-	-	-	-	0.00077 J
Hexachlorobutadiene	µg/L	0.013	5 U	5 U	5 U	3.1 Dup 50 U	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	-	-	-	-	0.00025 UJ
Pentachlorophenol	µg/L	7.9	5 U	10	3.8 J	670	-
Pentachlorophenol (dissolved)	µg/L	7.9	-	-	-	-	0.0024 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>PZ-SHI-1-75</i>	<i>PZ-SHI-1-100</i>	<i>PZ-SHI-1-126</i>	<i>PZ-SHI-2-25</i>	<i>PZ-SHI-2-25</i>
<i>Sample ID:</i>		<i>GW-042706-TS-PZ-SHI-1-75</i>	<i>GW-042706-TR-PZ-SHI-1-100</i>	<i>GW-042706-TR-PZ-SHI-1-130</i>	<i>GW-042806-TR-PZ-SHI-2-4</i>	<i>GW-042806-TR-PZ-SHI-2-5</i>
<i>Sample Date:</i>		<i>4/27/2006</i>	<i>4/27/2006</i>	<i>4/27/2006</i>	<i>4/28/2006</i>	<i>4/28/2006</i>
<i>Sample Depth:</i>		<i>41 to 46 ft bml</i>	<i>66 to 71 ft bml</i>	<i>96 to 101 ft bml</i>	<i>3.75 to 4.75 ft bml</i>	<i>3.75 to 4.75 ft bml</i>
<i>elev_MLLW</i>		<i>-52.8 to -57.8</i>	<i>-77.79 to -82.79</i>	<i>-105.82 to -110.82</i>	<i>-6 to -7</i>	<i>-6 to -7</i>
<i>elev_NGVD</i>		<i>-59.1 to -64.1</i>	<i>-84.1 to -89.1</i>	<i>-112.1 to -117.1</i>	<i>-12.3 to -13.3</i>	<i>-12.3 to -13.3</i> <i>(Duplicate)</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Semi-volatile Organic Compounds</i>						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00037 J	0.00036 UJ	0.00036 UJ	0.0943 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00025 UJ	0.00025 UJ	0.00025 UJ	0.775
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.0024 U	0.0024 U	0.0024 U	1.07

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PZ-SHI-2-75</i>	<i>PZ-SHI-2-75</i>	<i>PZ-SHI-3-42</i>	<i>PZ-SHI-3-75</i>	<i>PZ-SHI-3-100</i>	<i>SP-1</i>
<i>Sample ID:</i>		<i>GW-042806-TR-PZ-SHI-2-75</i>	<i>GW-042806-TR-PZ-SHI-2-76</i>	<i>GW-042706-TR-PZ-SHI-3-4</i>	<i>GW-042706-TR-PZ-SHI-3-75</i>	<i>GW-042706-TR-PZ-SHI-3-100</i>	<i>GW-062306-LH-SP1-001</i>
<i>Sample Date:</i>		<i>4/28/2006</i>	<i>4/28/2006</i>	<i>4/27/2006</i>	<i>4/27/2006</i>	<i>4/27/2006</i>	<i>6/23/2006</i>
<i>Sample Depth:</i>		<i>54.5 to 59.5 ft bml</i>	<i>54.5 to 59.5 ft bml</i>	<i>14.5 to 15.5 ft bml</i>	<i>44.5 to 49.5 ft bml</i>	<i>70 to 75 ft bml</i>	<i>9 to 12 ft bgs</i>
<i>elev_MLLW</i>		<i>-52.36 to -57.36</i>	<i>-52.36 to -57.36</i>	<i>-21.96 to -22.96</i>	<i>-51.46 to -56.46</i>	<i>-76.96 to -81.96</i>	<i>8.92 to 5.92</i>
<i>elev_NGVD</i>		<i>-58.7 to -63.7</i>	<i>-58.7 to -63.7</i>	<i>-28.3 to -29.3</i>	<i>-57.8 to -62.8</i>	<i>-83.3 to -88.3</i>	<i>2.6 to -0.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00036 UJ	0.0971 U	0.0061	0.00036 UJ	0.00036 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00025 UJ	0.0971 U	0.00025 U	0.00025 UJ	0.00025 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.481 U	0.485 U	2.0	0.0024 U	0.0024 U
							0.166

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		SP-1	SP-1	SP-1	SP-1	SP-1	SP-1
<i>Sample ID:</i>		GW-062306-LH-SP1-002	GW-062306-LH-SP1-003	GW-062306-LH-SP1-004	GW-062606-LH-SP1-005	GW-062606-LH-SP1-006	GW-062606-LH-SP1-007
<i>Sample Date:</i>		6/23/2006	6/23/2006	6/23/2006	6/26/2006	6/26/2006	6/26/2006
<i>Sample Depth:</i>		18 to 21 ft bgs	23 to 26 ft bgs	34 to 37 ft bgs	43 to 46 ft bgs	48 to 51 ft bgs	58 to 61 ft bgs
<i>elev_MLLW</i>		-0.08 to -3.08	-5.08 to -8.08	-16.08 to -19.08	-25.08 to -28.08	-30.08 to -33.08	-40.08 to -43.08
<i>elev_NGVD</i>		-6.4 to -9.4	-11.4 to -14.4	-22.4 to -25.4	-31.4 to -34.4	-36.4 to -39.4	-46.4 to -49.4
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.0100 U	0.0495 U	0.0103 U	0.00971 U	0.0100 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.0200 U	0.165	0.0206 U	0.0194 U	0.0200 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.500 U	1.80	0.515 U	0.485 U	0.500 U
							1.95
							2.81 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	SP-1	SP-1	SP-1	SP-1	SP-1	SP-1
Sample ID:	GW-062606-LH-SP1-008	GW-062806-DR-SP1-011	GW-062706-LH-SP1-009	GW-090606-JL-SP1-013	GW-090606-JL-SP1-014	GW-090706-JL-SP1-015
Sample Date:	6/26/2006	6/28/2006	6/27/2006	9/6/2006	9/6/2006	9/7/2006
Sample Depth:	68 to 71 ft bgs	88 to 91 ft bgs	98 to 101 ft bgs	118 to 122 ft bgs	128 to 132 ft bgs	138 to 142 ft bgs
elev_MLLW	-50.08 to -53.08	-70.08 to -73.08	-80.08 to -83.08	-100.08 to -104.08	-110.08 to -114.08	-120.08 to -124.08
elev_NGVD	-56.4 to -59.4	-76.4 to -79.4	-86.4 to -89.4	-106.4 to -110.4	-116.4 to -120.4	-126.4 to -130.4

Parameters

Units CSI WG

Semi-volatile Organic Compounds

Parameter	Units	CSI	WG	SP-1	SP-1	SP-1	SP-1	SP-1	SP-1
Hexachlorobenzene	µg/L	0.00077		-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077		0.0200 U	0.0100 U	0.0515 U	0.080 U	0.080 U	0.016 U
Hexachlorobutadiene	µg/L	0.013		-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013		0.0440	0.0200 U	1.09	0.25 U	0.25 U	0.05 U
Pentachlorophenol	µg/L	7.9		-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9		1.81 J	1.76 J	0.515 UJ	1.50 U	1.50 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-1</i>	<i>SP-1</i>	<i>SP-1</i>	<i>SP-1</i>	<i>SP-2</i>	<i>SP-2</i>
<i>Sample ID:</i>	<i>GW-090706-JL-SP1-016</i>	<i>GW-090706-JL-SP1-017</i>	<i>GW-090806-JL-SP1-019</i>	<i>GW-090806-JL-SP1-020</i>	<i>GW-070706-DR-SP2-001</i>	<i>GW-070706-DR-SP2-002</i>
<i>Sample Date:</i>	<i>9/7/2006</i>	<i>9/7/2006</i>	<i>9/8/2006</i>	<i>9/8/2006</i>	<i>7/7/2006</i>	<i>7/7/2006</i>
<i>Sample Depth:</i>	<i>148 to 152 ft bgs</i>	<i>158 to 162 ft bgs</i>	<i>178 to 182 ft bgs</i>	<i>188 to 192 ft bgs</i>	<i>8 to 11 ft bgs</i>	<i>18 to 21 ft bgs</i>
<i>elev_MLLW</i>	<i>-130.08 to -134.08</i>	<i>-140.08 to -144.08</i>	<i>-160.08 to -164.08</i>	<i>-170.08 to -174.08</i>	<i>9.92 to 6.92</i>	<i>-0.08 to -3.08</i>
<i>elev_NGVD</i>	<i>-136.4 to -140.4</i>	<i>-146.4 to -150.4</i>	<i>-166.4 to -170.4</i>	<i>-176.4 to -180.4</i>	<i>3.6 to 0.6</i>	<i>-6.4 to -9.4</i>

<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.080 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.25 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>
<i>Sample ID:</i>		<i>GW-070706-DR-SP2-003</i>	<i>GW-070706-DR-SP2-004</i>	<i>GW-070706-DR-SP2-005</i>	<i>GW-071006-LH-SP2-006</i>	<i>GW-071006-LH-SP2-007</i>	<i>GW-071006-LH-SP2-008</i>
<i>Sample Date:</i>		<i>7/7/2006</i>	<i>7/7/2006</i>	<i>7/7/2006</i>	<i>7/10/2006</i>	<i>7/10/2006</i>	<i>7/10/2006</i>
<i>Sample Depth:</i>		<i>23 to 26 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>33 to 36 ft bgs</i>	<i>43 to 46 ft bgs</i>	<i>48 to 51 ft bgs</i>	<i>58 to 61 ft bgs</i>
<i>elev_MLLW</i>		<i>-5.08 to -8.08</i>	<i>-5.08 to -8.08</i>	<i>-15.08 to -18.08</i>	<i>-25.08 to -28.08</i>	<i>-30.08 to -33.08</i>	<i>-40.08 to -43.08</i>
<i>elev_NGVD</i>		<i>-11.4 to -14.4</i>	<i>-11.4 to -14.4</i>	<i>-21.4 to -24.4</i>	<i>-31.4 to -34.4</i>	<i>-36.4 to -39.4</i>	<i>-46.4 to -49.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	
<i>Sample ID:</i>		<i>GW-071106-LH-SP2-009</i>	<i>GW-071106-LH-SP2-010</i>	<i>GW-071206-LH-SP2-011</i>	<i>GW-071206-LH-SP2-012</i>	<i>GW-091206-JL-SP2-012</i>	<i>GW-091206-JL-SP2-013</i>	
<i>Sample Date:</i>		<i>7/11/2006</i>	<i>7/11/2006</i>	<i>7/12/2006</i>	<i>7/12/2006</i>	<i>9/12/2006</i>	<i>9/12/2006</i>	
<i>Sample Depth:</i>		<i>68 to 71 ft bgs</i>	<i>78 to 81 ft bgs</i>	<i>88 to 91 ft bgs</i>	<i>98 to 101 ft bgs</i>	<i>108 to 112 ft bgs</i>	<i>121 to 122 ft bgs</i>	
<i>elev_MLLW</i>		<i>-50.08 to -53.08</i>	<i>-60.08 to -63.08</i>	<i>-70.08 to -73.08</i>	<i>-80.08 to -83.08</i>	<i>-90.08 to -94.08</i>	<i>-103.08 to -104.08</i>	
<i>elev_NGVD</i>		<i>-56.4 to -59.4</i>	<i>-66.4 to -69.4</i>	<i>-76.4 to -79.4</i>	<i>-86.4 to -89.4</i>	<i>-96.4 to -100.4</i>	<i>-109.4 to -110.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.080 U	0.080 U	0.080 U	0.080 U	0.016 U	0.72 J
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.25 U	0.25 U	0.25 U	0.25 U	0.05 U	0.25 UJ
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	
Pentachlorophenol (dissolved)	µg/L	7.9	1.50 U	1.50 U	1.50 U	1.50 U	0.30 U	1.50 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>	<i>SP-2</i>
<i>Sample ID:</i>	<i>GW-091306-JL-SP2-015</i>	<i>GW-091306-JL-SP2-016</i>	<i>GW-091306-JL-SP2-018</i>	<i>GW-091406-JL-SP2-019</i>	<i>GW-091406-JL-SP2-021</i>	<i>GW-091406-JL-SP2-023</i>
<i>Sample Date:</i>	<i>9/13/2006</i>	<i>9/13/2006</i>	<i>9/13/2006</i>	<i>9/14/2006</i>	<i>9/14/2006</i>	<i>9/14/2006</i>
<i>Sample Depth:</i>	<i>138 to 142 ft bgs</i>	<i>148 to 152 ft bgs</i>	<i>168 to 172 ft bgs</i>	<i>178 to 182 ft bgs</i>	<i>198 to 202 ft bgs</i>	<i>218 to 222 ft bgs</i>
<i>elev_MLLW</i>	<i>-120.08 to -124.08</i>	<i>-130.08 to -134.08</i>	<i>-150.08 to -154.08</i>	<i>-160.08 to -164.08</i>	<i>-180.08 to -184.08</i>	<i>-200.08 to -204.08</i>
<i>elev_NGVD</i>	<i>-126.4 to -130.4</i>	<i>-136.4 to -140.4</i>	<i>-156.4 to -160.4</i>	<i>-166.4 to -170.4</i>	<i>-186.4 to -190.4</i>	<i>-206.4 to -210.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Semi-volatile Organic Compounds</i>						
Hexachlorobenzene	µg/L	0.00077	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-2</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>
<i>Sample ID:</i>	<i>GW-091806-JL-SP2-024</i>	<i>GW-061406-LH-SP3-001</i>	<i>GW-061406-LH-SP3-002</i>	<i>GW-061406-LH-SP3-003</i>	<i>GW-061506-LH-SP3-004</i>	<i>GW-061506-LH-SP3-005</i>
<i>Sample Date:</i>	<i>9/18/2006</i>	<i>6/14/2006</i>	<i>6/14/2006</i>	<i>6/14/2006</i>	<i>6/15/2006</i>	<i>6/15/2006</i>
<i>Sample Depth:</i>	<i>228 to 232 ft bgs</i>	<i>7 to 10 ft bgs</i>	<i>18 to 21 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>33 to 36 ft bgs</i>	<i>43 to 46 ft bgs</i>
<i>elev_MLLW</i>	<i>-210.08 to -214.08</i>	<i>10.92 to 7.92</i>	<i>-0.08 to -3.08</i>	<i>-5.08 to -8.08</i>	<i>-15.08 to -18.08</i>	<i>-25.08 to -28.08</i>
<i>elev_NGVD</i>	<i>-216.4 to -220.4</i>	<i>4.6 to 1.6</i>	<i>-6.4 to -9.4</i>	<i>-11.4 to -14.4</i>	<i>-21.4 to -24.4</i>	<i>-31.4 to -34.4</i>

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 UJ	0.0490 U	0.490 U	0.243 U	0.500 U	0.500 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	10.8	1.69	0.0971 U	11.0	16.6
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	2.21	0.490 U	1.62	13.5	0.500 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>
<i>Sample ID:</i>		<i>GW-061506-LH-SP3-006</i>	<i>GW-061506-LH-SP3-007</i>	<i>GW-061506-LH-SP3-008</i>	<i>GW-061906-LH-SP3-010</i>	<i>GW-061906-DR-SP3-011</i>	<i>GW-061606-LH-SP3-009</i>
<i>Sample Date:</i>		<i>6/15/2006</i>	<i>6/15/2006</i>	<i>6/15/2006</i>	<i>6/19/2006</i>	<i>6/19/2006</i>	<i>6/16/2006</i>
<i>Sample Depth:</i>		<i>48 to 51 ft bgs</i>	<i>58 to 61 ft bgs</i>	<i>68 to 71 ft bgs</i>	<i>78 to 81 ft bgs</i>	<i>87 to 90 ft bgs</i>	<i>99 to 101 ft bgs</i>
<i>elev_MLLW</i>		<i>-30.08 to -33.08</i>	<i>-40.08 to -43.08</i>	<i>-50.08 to -53.08</i>	<i>-60.08 to -63.08</i>	<i>-69.08 to -72.08</i>	<i>-81.08 to -83.08</i>
<i>elev_NGVD</i>		<i>-36.4 to -39.4</i>	<i>-46.4 to -49.4</i>	<i>-56.4 to -59.4</i>	<i>-66.4 to -69.4</i>	<i>-75.4 to -78.4</i>	<i>-87.4 to -89.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.500 U	0.490 U	0.485 U	0.0495 U	0.0505 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	5.87	1.89	12.2	1.01	0.403
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	2.21	0.490 U	0.485 U	0.495 UJ	R

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>
<i>Sample ID:</i>		<i>GW-092606-JC-SP3-012</i>	<i>GW-092606-JC-SP3-013</i>	<i>GW-092706-JC-SP3-015</i>	<i>GW-092806-JC-SP3-017</i>	<i>GW-092806-ILM-SP3-018</i>	<i>GW-092906-ILM-SP3-019</i>
<i>Sample Date:</i>		<i>9/26/2006</i>	<i>9/26/2006</i>	<i>9/27/2006</i>	<i>9/28/2006</i>	<i>9/28/2006</i>	<i>9/29/2006</i>
<i>Sample Depth:</i>		<i>108 to 112 ft bgs</i>	<i>118 to 122 ft bgs</i>	<i>138 to 142 ft bgs</i>	<i>158 to 162 ft bgs</i>	<i>168 to 172 ft bgs</i>	<i>178 to 182 ft bgs</i>
<i>elev_MLLW</i>		<i>-90.08 to -94.08</i>	<i>-100.08 to -104.08</i>	<i>-120.08 to -124.08</i>	<i>-140.08 to -144.08</i>	<i>-150.08 to -154.08</i>	<i>-160.08 to -164.08</i>
<i>elev_NGVD</i>		<i>-96.4 to -100.4</i>	<i>-106.4 to -110.4</i>	<i>-126.4 to -130.4</i>	<i>-146.4 to -150.4</i>	<i>-156.4 to -160.4</i>	<i>-166.4 to -170.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.080 U	0.080 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.25 U	0.25 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	1.50 UJ	1.50 U	0.30 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-3</i>	<i>SP-3</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>
<i>Sample ID:</i>		<i>GW-093006-ILM-SP3-020</i>	<i>GW-100206-ILM-SP3-021</i>	<i>GW-062006-DR-SP4-001</i>	<i>GW-062006-DR-SP4-002</i>	<i>GW-062006-DR-SP4-003</i>	<i>GW-062006-DR-SP4-004</i>
<i>Sample Date:</i>		<i>9/30/2006</i>	<i>10/2/2006</i>	<i>6/20/2006</i>	<i>6/20/2006</i>	<i>6/20/2006</i>	<i>6/20/2006</i>
<i>Sample Depth:</i>		<i>188 to 192 ft bgs</i>	<i>198 to 202 ft bgs</i>	<i>9 to 12 ft bgs</i>	<i>18 to 21 ft bgs</i>	<i>18 to 21 ft bgs</i>	<i>23 to 26 ft bgs</i>
<i>elev_MLLW</i>		<i>-170.08 to -174.08</i>	<i>-180.08 to -184.08</i>	<i>8.92 to 5.92</i>	<i>-0.08 to -3.08</i>	<i>-0.08 to -3.08</i>	<i>-5.08 to -8.08</i>
<i>elev_NGVD</i>		<i>-176.4 to -180.4</i>	<i>-186.4 to -190.4</i>	<i>2.6 to -0.4</i>	<i>-6.4 to -9.4</i>	<i>-6.4 to -9.4</i>	<i>-11.4 to -14.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				<i>(Duplicate)</i>
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.080 U	0.0495 U	0.0510 U	0.0505 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.25 U	0.0198 U	9.49	9.84
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	1.50 U	0.495 U	0.510 U	0.505 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>
<i>Sample ID:</i>		<i>GW-062006-DR-SP4-005</i>	<i>GW-062106-DR-SP4-006</i>	<i>GW-062106-DR-SP4-007</i>	<i>GW-062106-DR-SP4-008</i>	<i>GW-062106-DR-SP4-009</i>	<i>GW-062206-DR-SP4-010</i>
<i>Sample Date:</i>		<i>6/20/2006</i>	<i>6/21/2006</i>	<i>6/21/2006</i>	<i>6/21/2006</i>	<i>6/21/2006</i>	<i>6/22/2006</i>
<i>Sample Depth:</i>		<i>33 to 36 ft bgs</i>	<i>43 to 46 ft bgs</i>	<i>48 to 51 ft bgs</i>	<i>58 to 61 ft bgs</i>	<i>68 to 71 ft bgs</i>	<i>78 to 81 ft bgs</i>
<i>elev_MLLW</i>		<i>-15.08 to -18.08</i>	<i>-25.08 to -28.08</i>	<i>-30.08 to -33.08</i>	<i>-40.08 to -43.08</i>	<i>-50.08 to -53.08</i>	<i>-60.08 to -63.08</i>
<i>elev_NGVD</i>		<i>-21.4 to -24.4</i>	<i>-31.4 to -34.4</i>	<i>-36.4 to -39.4</i>	<i>-46.4 to -49.4</i>	<i>-56.4 to -59.4</i>	<i>-66.4 to -69.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.0500 U	0.500 U	0.0500 U	0.0500 U	0.0103 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	1.30	1.04	0.348	1.72	0.356
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.500 U	0.500 U	0.500 U	0.500 U	0.515 U
							4.74

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>	<i>SP-4</i>
<i>Sample ID:</i>	<i>GW-062206-DR-SP4-011</i>	<i>GW-092006-JL-SP4-012</i>	<i>GW-092106-JL-SP4-013</i>	<i>GW-092106-JL-SP4-015</i>	<i>GW-092106-JL-SP4-016</i>	<i>GW-092206-LH-SP4-017</i>
<i>Sample Date:</i>	<i>6/22/2006</i>	<i>9/20/2006</i>	<i>9/21/2006</i>	<i>9/21/2006</i>	<i>9/21/2006</i>	<i>9/22/2006</i>
<i>Sample Depth:</i>	<i>88 to 91 ft bgs</i>	<i>108 to 112 ft bgs</i>	<i>118 to 122 ft bgs</i>	<i>138 to 142 ft bgs</i>	<i>148 to 152 ft bgs</i>	<i>158 to 162 ft bgs</i>
<i>elev_MLLW</i>	<i>-70.08 to -73.08</i>	<i>-90.08 to -94.08</i>	<i>-100.08 to -104.08</i>	<i>-120.08 to -124.08</i>	<i>-130.08 to -134.08</i>	<i>-140.08 to -144.08</i>
<i>elev_NGVD</i>	<i>-76.4 to -79.4</i>	<i>-96.4 to -100.4</i>	<i>-106.4 to -110.4</i>	<i>-126.4 to -130.4</i>	<i>-136.4 to -140.4</i>	<i>-146.4 to -150.4</i>

Parameters

Units CSI WG

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.626	0.080 UJ	0.080 UJ	0.016 UJ	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	30.1	0.25 U	0.25 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	R	1.50 U	1.50 U	0.30 U	0.30 UJ	0.30 UJ

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-4</i>	<i>SP-4</i>	<i>SP-5</i>	<i>SP-5</i>	<i>SP-5</i>	<i>SP-5</i>	
<i>Sample ID:</i>		<i>GW-092206-JC-SP4-018</i>	<i>GW-092506-JC-SP4-019</i>	<i>GW-060206-DR-SP5-001</i>	<i>GW-060206-DR-SP5-002</i>	<i>GW-060206-DR-SP5-003</i>	<i>GW-060506-LH-SP5-004</i>	
<i>Sample Date:</i>		<i>9/22/2006</i>	<i>9/25/2006</i>	<i>6/2/2006</i>	<i>6/2/2006</i>	<i>6/2/2006</i>	<i>6/5/2006</i>	
<i>Sample Depth:</i>		<i>168 to 172 ft bgs</i>	<i>178 to 182 ft bgs</i>	<i>9 to 12 ft bgs</i>	<i>18 to 21 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>33 to 36 ft bgs</i>	
<i>elev_MLLW</i>		<i>-150.08 to -154.08</i>	<i>-160.08 to -164.08</i>	<i>8.92 to 5.92</i>	<i>-0.08 to -3.08</i>	<i>-5.08 to -8.08</i>	<i>-15.08 to -18.08</i>	
<i>elev_NGVD</i>		<i>-156.4 to -160.4</i>	<i>-166.4 to -170.4</i>	<i>2.6 to -0.4</i>	<i>-6.4 to -9.4</i>	<i>-11.4 to -14.4</i>	<i>-21.4 to -24.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	1.9	0.49	0.22
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 UJ	0.30 UJ	1.2	0.30 U	1.4	0.99 J

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		SP-5	SP-5	SP-5	SP-5	SP-5	SP-5
<i>Sample ID:</i>		GW-060906-LH-SP5-005	GW-061206-LH-SP5-006	GW-061206-LH-SP5-007	GW-061206-LH-SP5-008	GW-061206-LH-SP5-009	GW-061306-LH-SP5-010
<i>Sample Date:</i>		6/9/2006	6/12/2006	6/12/2006	6/12/2006	6/12/2006	6/13/2006
<i>Sample Depth:</i>		43 to 46 ft bgs	48 to 51 ft bgs	58 to 61 ft bgs	68 to 71 ft bgs	78 to 81 ft bgs	88 to 91 ft bgs
<i>elev_MLLW</i>		-25.08 to -28.08	-30.08 to -33.08	-40.08 to -43.08	-50.08 to -53.08	-60.08 to -63.08	-70.08 to -73.08
<i>elev_NGVD</i>		-31.4 to -34.4	-36.4 to -39.4	-46.4 to -49.4	-56.4 to -59.4	-66.4 to -69.4	-76.4 to -79.4
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.080 U	0.016 U	0.080 U	0.080 U	0.080 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.25 U	0.05 U	0.37 J	1.5	0.42 J
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	1.50 U	0.30 U	5.3	1.50 U	5.4
							1.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-5</i>	<i>SP-5</i>	<i>SP-5</i>	<i>SP-5</i>	<i>SP-5</i>	<i>SP-6</i>
<i>Sample ID:</i>		<i>GW-061306-LH-SP5-011</i>	<i>GW-073106-DR-SP5-012</i>	<i>GW-080106-DR-SP5-013</i>	<i>GW-080106-DR-SP5-014</i>	<i>GW-080106-DR-SP5-015</i>	<i>GW-060506-DR-SP6-001</i>
<i>Sample Date:</i>		<i>6/13/2006</i>	<i>7/31/2006</i>	<i>8/1/2006</i>	<i>8/1/2006</i>	<i>8/1/2006</i>	<i>6/5/2006</i>
<i>Sample Depth:</i>		<i>98 to 101 ft bgs</i>	<i>108 to 112 ft bgs</i>	<i>118 to 122 ft bgs</i>	<i>128 to 132 ft bgs</i>	<i>138 to 142 ft bgs</i>	<i>7 to 10 ft bgs</i>
<i>elev_MLLW</i>		<i>-80.08 to -83.08</i>	<i>-90.08 to -94.08</i>	<i>-100.08 to -104.08</i>	<i>-110.08 to -114.08</i>	<i>-120.08 to -124.08</i>	<i>10.92 to 7.92</i>
<i>elev_NGVD</i>		<i>-86.4 to -89.4</i>	<i>-96.4 to -100.4</i>	<i>-106.4 to -110.4</i>	<i>-116.4 to -120.4</i>	<i>-126.4 to -130.4</i>	<i>4.6 to 1.6</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.080 U	0.080 U	0.080 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	20	0.25 U	0.25 U	0.05 U	0.76
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	1.50 U	1.50 U	1.50 U	0.30 U	0.30 U

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-6	SP-6	SP-6	SP-6	SP-6	SP-6
Sample ID:	GW-060506-DR-SP6-002	GW-060606-LH-SP6-003	GW-060606-LH-SP6-004	GW-060606-DR-SP6-005	GW-060606-DR-SP6-006	GW-060606-DR-SP6-007
Sample Date:	6/5/2006	6/6/2006	6/6/2006	6/6/2006	6/6/2006	6/6/2006
Sample Depth:	18 to 21 ft bgs	23 to 26 ft bgs	33 to 36 ft bgs	43 to 46 ft bgs	48 to 51 ft bgs	48 to 51 ft bgs
elev_MLLW	-0.08 to -3.08	-5.08 to -8.08	-15.08 to -18.08	-25.08 to -28.08	-30.08 to -33.08	-30.08 to -33.08
elev_NGVD	-6.4 to -9.4	-11.4 to -14.4	-21.4 to -24.4	-31.4 to -34.4	-36.4 to -39.4	-36.4 to -39.4 (Duplicate)

Parameters	Units	CSI	WG					
Semi-volatile Organic Compounds								
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.30 J	0.080 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	0.25 U	0.25 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	1.8	0.30 U	1.50 U	1.50 U

TABLE 4.18

GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-6	SP-6	SP-6	SP-6	SP-6	SP-6
Sample ID:	GW-060706-DR-SP6-008	GW-060706-DR-SP6-009	GW-060706-LH-SP6-010	GW-060706-LH-SP6-011	GW-082306-BG-SP6-013	GW-082406-JC-SP6-015
Sample Date:	6/7/2006	6/7/2006	6/7/2006	6/7/2006	8/23/2006	8/24/2006
Sample Depth:	58 to 61 ft bgs	68 to 71 ft bgs	78 to 81 ft bgs	88 to 91 ft bgs	117 to 121 ft bgs	137 to 141 ft bgs
elev_MLLW	-40.08 to -43.08	-50.08 to -53.08	-60.08 to -63.08	-70.08 to -73.08	-99.08 to -103.08	-119.08 to -123.08
elev_NGVD	-46.4 to -49.4	-56.4 to -59.4	-66.4 to -69.4	-76.4 to -79.4	-105.4 to -109.4	-125.4 to -129.4

Parameters

Units CSI WG

Semi-volatile Organic Compounds

Parameter	Units	CSI	WG	SP-6 (GW-060706-DR-SP6-008)	SP-6 (GW-060706-DR-SP6-009)	SP-6 (GW-060706-LH-SP6-010)	SP-6 (GW-060706-LH-SP6-011)	SP-6 (GW-082306-BG-SP6-013)	SP-6 (GW-082406-JC-SP6-015)
Hexachlorobenzene	µg/L	0.00077		-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077		0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.016 U
Hexachlorobutadiene	µg/L	0.013		-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013		0.51 J	0.45 J	2.5	5.5	0.25 U	0.05 U
Pentachlorophenol	µg/L	7.9		-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9		12	10	1.50 U	1.50 U	1.50 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-6</i>	<i>SP-6</i>	<i>SP-6</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>
<i>Sample ID:</i>	<i>GW-082806-JW-SP6-016</i>	<i>GW-082806-JW-SP6-017</i>	<i>GW-082906-JW-SP6-018</i>	<i>GW-062806-LH-SP7-001</i>	<i>GW-062806-LH-SP7-002</i>	<i>GW-062806-LH-SP7-003</i>
<i>Sample Date:</i>	<i>8/28/2006</i>	<i>8/28/2006</i>	<i>8/29/2006</i>	<i>6/28/2006</i>	<i>6/28/2006</i>	<i>6/28/2006</i>
<i>Sample Depth:</i>	<i>157 to 161 ft bgs</i>	<i>167 to 171 ft bgs</i>	<i>177 to 181 ft bgs</i>	<i>8 to 11 ft bgs</i>	<i>18 to 21 ft bgs</i>	<i>23 to 26 ft bgs</i>
<i>elev_MLLW</i>	<i>-139.08 to -143.08</i>	<i>-149.08 to -153.08</i>	<i>-159.08 to -163.08</i>	<i>9.92 to 6.92</i>	<i>-0.08 to -3.08</i>	<i>-5.08 to -8.08</i>
<i>elev_NGVD</i>	<i>-145.4 to -149.4</i>	<i>-155.4 to -159.4</i>	<i>-165.4 to -169.4</i>	<i>3.6 to 0.6</i>	<i>-6.4 to -9.4</i>	<i>-11.4 to -14.4</i>

Parameters Units CSI WG

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.5

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>
<i>Sample ID:</i>		<i>GW-062906-LH-SP7-004</i>	<i>GW-062906-LH-SP7-005</i>	<i>GW-063006-LH-SP7-006</i>	<i>GW-070506-DR-SP7-007</i>	<i>GW-070506-DR-SP7-008</i>	<i>GW-070506-DR-SP7-009</i>
<i>Sample Date:</i>		<i>6/29/2006</i>	<i>6/29/2006</i>	<i>6/30/2006</i>	<i>7/5/2006</i>	<i>7/5/2006</i>	<i>7/5/2006</i>
<i>Sample Depth:</i>		<i>33 to 36 ft bgs</i>	<i>43 to 46 ft bgs</i>	<i>48 to 51 ft bgs</i>	<i>58 to 61 ft bgs</i>	<i>68 to 71 ft bgs</i>	<i>78 to 81 ft bgs</i>
<i>elev_MLLW</i>		<i>-15.08 to -18.08</i>	<i>-25.08 to -28.08</i>	<i>-30.08 to -33.08</i>	<i>-40.08 to -43.08</i>	<i>-50.08 to -53.08</i>	<i>-60.08 to -63.08</i>
<i>elev_NGVD</i>		<i>-21.4 to -24.4</i>	<i>-31.4 to -34.4</i>	<i>-36.4 to -39.4</i>	<i>-46.4 to -49.4</i>	<i>-56.4 to -59.4</i>	<i>-66.4 to -69.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.25 U	0.25 U	0.54 J	0.25 U	0.25 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	1.50 U	6.5	21	5.3	1.50 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>
<i>Sample ID:</i>	<i>GW-070606-DR-SP7-010</i>	<i>GW-083006-JW-SP7-012</i>	<i>GW-083006-JW-SP7-013</i>	<i>GW-083006-JW-SP7-014</i>	<i>GW-083106-JW-SP7-015</i>	<i>GW-083106-JW-SP7-016</i>
<i>Sample Date:</i>	<i>7/6/2006</i>	<i>8/30/2006</i>	<i>8/30/2006</i>	<i>8/30/2006</i>	<i>8/31/2006</i>	<i>8/31/2006</i>
<i>Sample Depth:</i>	<i>88 to 91 ft bgs</i>	<i>107 to 111 ft bgs</i>	<i>117 to 121 ft bgs</i>	<i>127 to 131 ft bgs</i>	<i>137 to 141 ft bgs</i>	<i>147 to 151 ft bgs</i>
<i>elev_MLLW</i>	<i>-70.08 to -73.08</i>	<i>-89.08 to -93.08</i>	<i>-99.08 to -103.08</i>	<i>-109.08 to -113.08</i>	<i>-119.08 to -123.08</i>	<i>-129.08 to -133.08</i>
<i>elev_NGVD</i>	<i>-76.4 to -79.4</i>	<i>-95.4 to -99.4</i>	<i>-105.4 to -109.4</i>	<i>-115.4 to -119.4</i>	<i>-125.4 to -129.4</i>	<i>-135.4 to -139.4</i>

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.080 U	0.320 U	0.080 U	0.080 U	0.016 U	0.016 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.25 U	1.00 U	0.25 U	0.25 U	0.05 U	0.05 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	1.50 U	6.00 U	1.50 U	1.50 U	0.30 U	0.30 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-7</i>	<i>SP-7</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>
<i>Sample ID:</i>		<i>GW-083106-JW-SP7-017</i>	<i>GW-083106-JW-SP7-018</i>	<i>GW-071306-LH-SP8-001</i>	<i>GW-071306-LH-SP8-002</i>	<i>GW-071306-LH-SP8-003</i>	<i>GW-071406-LH-SP8-004</i>
<i>Sample Date:</i>		<i>8/31/2006</i>	<i>8/31/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/14/2006</i>
<i>Sample Depth:</i>		<i>157 to 161 ft bgs</i>	<i>167 to 171 ft bgs</i>	<i>10 to 13 ft bgs</i>	<i>18 to 21 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>33 to 36 ft bgs</i>
<i>elev_MLLW</i>		<i>-139.08 to -143.08</i>	<i>-149.08 to -153.08</i>	<i>7.92 to 4.92</i>	<i>-0.08 to -3.08</i>	<i>-5.08 to -8.08</i>	<i>-15.08 to -18.08</i>
<i>elev_NGVD</i>		<i>-145.4 to -149.4</i>	<i>-155.4 to -159.4</i>	<i>1.6 to -1.4</i>	<i>-6.4 to -9.4</i>	<i>-11.4 to -14.4</i>	<i>-21.4 to -24.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Semi-volatile Organic Compounds</i>							
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.00500 U	0.00500 U	0.00472 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.0200	0.0100 U	0.00943 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.917	0.250 U	0.236 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>
<i>Sample ID:</i>	<i>GW-071406-LH-SP8-005</i>	<i>GW-071406-LH-SP8-006</i>	<i>GW-071706-TR-SP8-007</i>	<i>GW-071706-TR-SP8-008</i>	<i>GW-071706-TR-SP8-009</i>	<i>GW-071806-TR-SP8-010</i>
<i>Sample Date:</i>	<i>7/14/2006</i>	<i>7/14/2006</i>	<i>7/17/2006</i>	<i>7/17/2006</i>	<i>7/17/2006</i>	<i>7/18/2006</i>
<i>Sample Depth:</i>	<i>43 to 46 ft bgs</i>	<i>48 to 51 ft bgs</i>	<i>58 to 61 ft bgs</i>	<i>68 to 71 ft bgs</i>	<i>78 to 81 ft bgs</i>	<i>88 to 91 ft bgs</i>
<i>elev_MLLW</i>	<i>-25.08 to -28.08</i>	<i>-30.08 to -33.08</i>	<i>-40.08 to -43.08</i>	<i>-50.08 to -53.08</i>	<i>-60.08 to -63.08</i>	<i>-70.08 to -73.08</i>
<i>elev_NGVD</i>	<i>-31.4 to -34.4</i>	<i>-36.4 to -39.4</i>	<i>-46.4 to -49.4</i>	<i>-56.4 to -59.4</i>	<i>-66.4 to -69.4</i>	<i>-76.4 to -79.4</i>

Parameters **Units** **CSI** **WG**

Semi-volatile Organic Compounds

Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.00472 U	0.00485 U	0.00472 U	0.0236 U	0.0236 U	0.00472 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.00943 U	0.00971 U	0.00943 U	0.0472 U	0.0472 U	0.00943 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	0.236 U	0.243 U	1.55	1.32	0.236 U	0.236 U

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>
<i>Sample ID:</i>	<i>GW-071806-TR-SP8-011</i>	<i>GW-100306-ILM-SP8-012</i>	<i>GW-071906-LH-SP8-012</i>	<i>GW-072006-LH-SP8-013</i>	<i>GW-100406-ILM-SP8-014</i>	<i>GW-100406-ILM-SP8-015</i>
<i>Sample Date:</i>	<i>7/18/2006</i>	<i>10/3/2006</i>	<i>7/19/2006</i>	<i>7/20/2006</i>	<i>10/4/2006</i>	<i>10/4/2006</i>
<i>Sample Depth:</i>	<i>98 to 101 ft bgs</i>	<i>104 to 108 ft bgs</i>	<i>108 to 111 ft bgs</i>	<i>112 to 115 ft bgs</i>	<i>124 to 128 ft bgs</i>	<i>134 to 138 ft bgs</i>
<i>elev_MLLW</i>	<i>-80.08 to -83.08</i>	<i>-86.08 to -90.08</i>	<i>-90.08 to -93.08</i>	<i>-94.08 to -97.08</i>	<i>-106.08 to -110.08</i>	<i>-116.08 to -120.08</i>
<i>elev_NGVD</i>	<i>-86.4 to -89.4</i>	<i>-92.4 to -96.4</i>	<i>-96.4 to -99.4</i>	<i>-100.4 to -103.4</i>	<i>-112.4 to -116.4</i>	<i>-122.4 to -126.4</i>

<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Semi-volatile Organic Compounds</i>									
Hexachlorobenzene	µg/L	0.00077	-	-	-	-	-	-	-
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.0500 U	0.080 U	0.0500 U	0.0500 U	0.080 U	0.016 U	
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.100 U	0.25 U	3.02	0.138	0.25 U	0.05 U	
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-
Pentachlorophenol (dissolved)	µg/L	7.9	10.3	1.50 U	11.7	2.50 U	1.50 U	0.30 U	

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>T6-60</i>	<i>WW-A1D</i>	<i>WW-A1D</i>	
<i>Sample ID:</i>		<i>GW-100506-ILM-SP8-017</i>	<i>GW-100506-ILM-SP8-018</i>	<i>GW-100506-ILM-SP8-019</i>	<i>WG-082412-LP-T6-60-296</i>	<i>GW-082612-KB-WWA1D-003</i>	<i>GW-082812-KB-WWA1D-005</i>	
<i>Sample Date:</i>		<i>10/5/2006</i>	<i>10/5/2006</i>	<i>10/5/2006</i>	<i>8/24/2012</i>	<i>8/26/2012</i>	<i>8/28/2012</i>	
<i>Sample Depth:</i>		<i>154 to 158 ft bgs</i>	<i>164 to 168 ft bgs</i>	<i>164 to 168 ft bgs</i>	<i>60 ft BGS</i>	<i>11 to 11 ft BML</i>	<i>47 to 47 ft BML</i>	
<i>elev_MLLW</i>		<i>-136.08 to -140.08</i>	<i>-146.08 to -150.08</i>	<i>-146.08 to -150.08</i>	<i>-42.91</i>	<i>-47.08 to -47.08</i>	<i>-83.08 to -83.08</i>	
<i>elev_NGVD</i>		<i>-142.4 to -146.4</i>	<i>-152.4 to -156.4</i>	<i>-152.4 to -156.4</i>	<i>-49.2</i>	<i>-53.4 to -53.4</i>	<i>-89.4 to -89.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Semi-volatile Organic Compounds</i>								
Hexachlorobenzene	µg/L	0.00077	-	-	-	0.95 U	0.20 U	0.40 U
Hexachlorobenzene (dissolved)	µg/L	0.00077	0.016 U	0.016 U	0.016 U	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	0.95 U	0.20 U	0.40 U
Hexachlorobutadiene (dissolved)	µg/L	0.013	0.05 U	0.05 U	0.05 U	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	4.8 U	1.0 U	2.0 U
Pentachlorophenol (dissolved)	µg/L	7.9	0.30 U	0.30 U	0.30 U	-	-	-

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

Sample Location:			WW-A1D	WW-A1R	WW-A1R
Sample ID:			GW-082812-KB-FD001	GW-082112-MD-WWA1R-003	GW-082212-MD-WW-A1R-004
Sample Date:			8/28/2012	8/21/2012	8/22/2012
Sample Depth:			47 to 47 ft BML	11 to 11 ft BML	20 to 20 ft BML
elev_MLLW			-83.08 to -83.08	-45.18 to -45.18	-54.18 to -54.18
elev_NGVD			-89.4 to -89.4	-51.5 to -51.5	-60.5 to -60.5
			(Duplicate)		
Parameters	Units	CSI WG			
Semi-volatile Organic Compounds					
Hexachlorobenzene	µg/L	0.00077	0.19 U	0.21 U	2.0 U
Hexachlorobenzene (dissolved)	µg/L	0.00077	-	-	-
Hexachlorobutadiene	µg/L	0.013	0.19 U	0.21 U	2.0 U
Hexachlorobutadiene (dissolved)	µg/L	0.013	-	-	-
Pentachlorophenol	µg/L	7.9	0.95 U	1.1 U	10 U
Pentachlorophenol (dissolved)	µg/L	7.9	-	-	-

**GROUNDWATER ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN (SVOCs)
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Notes:

- (1) Site COCs per Tables 3.1 and 3.2 of the Statement of Work (January 2005). Additional non-COC analytical results are presented in the eDAT located in Appendix F.
- (2) Groundwater Cleanup Levels per Table 4.8.
- BGS Below ground surface.
- MLLW Mean lower low water.
- NGVD National geodetic vertical datum.
- COCs Constituents of concern.
- µg/L Microgram per liter.
- MS/cm Milliseimens per centimeter.
- s.u. Standard units.
- Deg C Degree Celsius.
- ntu Nepheletic turbidity units.
- NV No cleanup level has been established for this parameter.
- * Cleanup Level established at a concentration equal to the practical quantitation limit for that chemical in accordance the WAC 173-340-700 (6)(d). Value may decrease with improvements in analytical methods.
- 500** Concentration exceeds the Groundwater Cleanup Level.
- Not analyzed.
- U Not detected at associated concentration.
- J Estimated concentration.

TABLE 4.19

GROUNDWATER ANALYTICAL RESULTS – SITE PESTICIDES
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	3-25	14-25R	14-25R	14-50R	17-50R	NL-13	NL-13	NL-13	NL-13		
Sample ID:	GW-3-25-0604	GW-14-25R-0604	GW-FD-1-0604	GW-14-50R-0604	GW-17-50R-0604	GW-122005-NL-13-001	GW-122005-NL-13-002	GW-122005-NL-13-003	GW-122005-NL-13-004		
Sample Date:	6/2/2004	6/1/2004	6/1/2004	6/1/2004	6/1/2004	12/20/2005	12/20/2005	12/20/2005	12/20/2005		
Sample Depth:	25 ft bgs	25 ft bgs	25 ft bgs	50 ft bgs	50 ft bgs	0 to 3 ft bml	3 to 6 ft bml	6 to 9 ft bml	9 to 12 ft bml		
elev_MLLW	-6.05	-7.39	-7.39	-32.25	-32.32	-1.8 to -4.8	-4.8 to -7.8	-7.8 to -10.8	-10.8 to -13.8		
elev_NGVD	-12.4	-13.7	-13.7	-38.6	-38.6	-8.1 to -11.1	-11.1 to -14.1	-14.1 to -17.1	-17.1 to -20.1		
			(Duplicate)								
Parameters	Units	CSI	WG								
Pesticides											
4,4'-DDD	µg/L	0.00031	R	0.010 U	0.010 U	0.010 U	R	-	-	-	-
4,4'-DDD (dissolved)	µg/L	0.00031	-	-	-	-	-	0.132 U	0.132 U	0.132 U	0.132 UJ
4,4'-DDE	µg/L	0.00022	R	0.010 UJ	0.010 UJ	0.010 UJ	R	-	-	-	-
4,4'-DDE (dissolved)	µg/L	0.00022	-	-	-	-	-	0.186 U	0.186 U	0.186 U	0.186 UJ
4,4'-DDT	µg/L	0.00022	R	0.015 U	0.015 U	0.015 U	R	-	-	-	-
4,4'-DDT (dissolved)	µg/L	0.00022	-	-	-	-	-	0.204 UJ	0.204 UJ	0.204 UJ	0.204 UJ

GROUNDWATER ANALYTICAL RESULTS – SITE PESTICIDES
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	NL-13	NL-13	NL-13	NL-13	NL-13	NL-13	NL-13	NL-13	NL-14	
Sample ID:	GW-122005-NL-13-005	GW-122105-NL-13-006	GW-122105-NL-13-007	GW-122105-NL-13-008	GW-122105-NL-13-009	GW-122105-NL-13-010	GW-122105-NL-13-011	GW-122105-NL-13-011	GW-121405-NL-14-001	
Sample Date:	12/20/2005	12/21/2005	12/21/2005	12/21/2005	12/21/2005	12/21/2005	12/21/2005	12/21/2005	12/14/2005	
Sample Depth:	12 to 15 ft bml	15 to 18 ft bml	18 to 21 ft bml	18 to 21 ft bml	21 to 24 ft bml	24 to 27 ft bml	27 to 30 ft bml	27 to 30 ft bml	1 to 4 ft bml	
elev_MLLW	-13.8 to -16.8	-16.8 to -19.8	-19.8 to -22.8	-19.8 to -22.8	-22.8 to -25.8	-25.8 to -28.8	-28.8 to -31.8	-28.8 to -31.8	-5.1 to -8.1	
elev_NGVD	-20.1 to -23.1	-23.1 to -26.1	-26.1 to -29.1	-26.1 to -29.1	-29.1 to -32.1	-32.1 to -35.1	-35.1 to -38.1	-35.1 to -38.1	-11.4 to -14.4	
Parameters	Units	CSI	WG							
Pesticides										
4,4'-DDD	µg/L	0.00031	-	-	-	-	-	-	-	-
4,4'-DDD (dissolved)	µg/L	0.00031	0.132 UJ	0.135 UJ	0.135 U	0.135 U	0.135 UJ	0.135 UJ	0.135 U	0.135 UJ
4,4'-DDE	µg/L	0.00022	-	-	-	-	-	-	-	-
4,4'-DDE (dissolved)	µg/L	0.00022	0.186 UJ	0.19 UJ	0.19 U	0.19 U	0.19 UJ	0.19 UJ	0.19 U	0.19 UJ
4,4'-DDT	µg/L	0.00022	-	-	-	-	-	-	-	-
4,4'-DDT (dissolved)	µg/L	0.00022	0.204 UJ	0.208 UJ	0.208 UJ	0.208 UJ	0.208 UJ	0.208 UJ	0.208 UJ	0.208 UJ

GROUNDWATER ANALYTICAL RESULTS – SITE PESTICIDES
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	NL-14	NL-14	NL-14	NL-14	NL-14	NL-14	NL-14	NL-14	NL-14
Sample ID:	GW-121405-NL-14-002	GW-121405-NL-14-003	GW-121405-NL-14-004	GW-121405-NL-14-005	GW-121505-NL-14-006	GW-121505-NL-14-007	GW-121505-NL-14-008	GW-121505-NL-14-009	
Sample Date:	12/14/2005	12/14/2005	12/14/2005	12/14/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	
Sample Depth:	4 to 7 ft bml	7 to 10 ft bml	10 to 13 ft bml	13 to 16 ft bml	16 to 19 ft bml	19 to 22 ft bml	22 to 25 ft bml	25 to 28 ft bml	
elev_MLLW	-8.1 to -11.1	-11.1 to -14.1	-14.1 to -17.1	-17.1 to -20.1	-20.1 to -23.1	-23.1 to -26.1	-26.1 to -29.1	-29.1 to -32.1	
elev_NGVD	-14.4 to -17.4	-17.4 to -20.4	-20.4 to -23.4	-23.4 to -26.4	-26.4 to -29.4	-29.4 to -32.4	-32.4 to -35.4	-35.4 to -38.4	

Parameters	Units	CSI	WG						
Pesticides									
4,4'-DDD	µg/L	0.00031	-	-	-	-	-	-	-
4,4'-DDD (dissolved)	µg/L	0.00031	0.00971 UJ	0.135 U	0.00971 U	0.00971 U	0.00952 UJ	0.00952 UJ	0.00952 UJ
4,4'-DDE	µg/L	0.00022	-	-	-	-	-	-	-
4,4'-DDE (dissolved)	µg/L	0.00022	0.00971 UJ	0.19 U	0.00971 U	0.00971 U	0.00952 UJ	0.00952 UJ	0.00952 UJ
4,4'-DDT	µg/L	0.00022	-	-	-	-	-	-	-
4,4'-DDT (dissolved)	µg/L	0.00022	0.00971 UJ	0.208 UJ	0.00971 UJ	0.00971 UJ	0.247 J	0.00952 UJ	0.00952 UJ

GROUNDWATER ANALYTICAL RESULTS – SITE PESTICIDES
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>NL-14</i>	<i>NL-14</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>
<i>Sample ID:</i>			<i>GW-121505-NL-14-010</i>	<i>GW-121505-NL-14-011</i>	<i>GW-121605-NL-15-001</i>	<i>GW-121605-NL-15-002</i>	<i>GW-121605-NL-15-003</i>	<i>GW-121605-NL-15-004</i>	<i>GW-121605-NL-15-005</i>	<i>GW-121605-NL-15-006</i>
<i>Sample Date:</i>			<i>12/15/2005</i>	<i>12/15/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>
<i>Sample Depth:</i>			<i>25 to 28 ft bml</i>	<i>28 to 31 ft bml</i>	<i>0 to 3 ft bml</i>	<i>3 to 6 ft bml</i>	<i>6 to 9 ft bml</i>	<i>9 to 12 ft bml</i>	<i>12 to 15 ft bml</i>	<i>15 to 18 ft bml</i>
<i>elev_MLLW</i>			<i>-29.1 to -32.1</i>	<i>-32.1 to -35.1</i>	<i>-1.8 to -4.8</i>	<i>-4.8 to -7.8</i>	<i>-7.8 to -10.8</i>	<i>-10.8 to -13.8</i>	<i>-13.8 to -16.8</i>	<i>-16.8 to -19.8</i>
<i>elev_NGVD</i>			<i>-35.4 to -38.4</i>	<i>-38.4 to -41.4</i>	<i>-8.1 to -11.1</i>	<i>-11.1 to -14.1</i>	<i>-14.1 to -17.1</i>	<i>-17.1 to -20.1</i>	<i>-20.1 to -23.1</i>	<i>-23.1 to -26.1</i>
			<i>(Duplicate)</i>							
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>								
<i>Pesticides</i>										
4,4'-DDD	µg/L	0.00031	-	-	-	-	-	-	-	-
4,4'-DDD (dissolved)	µg/L	0.00031	0.00952 UJ	0.00952 UJ	0.132 UJ	0.132 U	0.132 U	0.132 U	0.132 U	0.132 U
4,4'-DDE	µg/L	0.00022	-	-	-	-	-	-	-	-
4,4'-DDE (dissolved)	µg/L	0.00022	0.00952 UJ	0.00952 UJ	0.186 UJ	0.186 U	0.186 U	0.186 U	0.186 U	0.186 U
4,4'-DDT	µg/L	0.00022	-	-	-	-	-	-	-	-
4,4'-DDT (dissolved)	µg/L	0.00022	0.00952 UJ	0.00952 UJ	0.204 UJ	0.204 UJ	0.204 UJ	0.204 UJ	0.204 UJ	0.204 UJ

TABLE 4.19

GROUNDWATER ANALYTICAL RESULTS – SITE PESTICIDES
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-24</i>	<i>NL-24</i>	<i>NL-24</i>
<i>Sample ID:</i>		<i>GW-121905-NL-15-007</i>	<i>GW-121905-NL-15-008</i>	<i>GW-121905-NL-15-009</i>	<i>GW-121905-NL-15-010</i>	<i>GW-011207-BS-NL-24-001</i>	<i>GW-011507-BS-NL-24-002</i>	<i>GW-011507-BS-NL-24-003</i>
<i>Sample Date:</i>		<i>12/19/2005</i>	<i>12/19/2005</i>	<i>12/19/2005</i>	<i>12/19/2005</i>	<i>1/12/2007</i>	<i>1/15/2007</i>	<i>1/15/2007</i>
<i>Sample Depth:</i>		<i>18 to 21 ft bml</i>	<i>21 to 24 ft bml</i>	<i>24 to 27 ft bml</i>	<i>27 to 30 ft bml</i>	<i>1.5 to 4.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>11.5 to 14.5 ft bml</i>
<i>elev_MLLW</i>		<i>-19.8 to -22.8</i>	<i>-22.8 to -25.8</i>	<i>-25.8 to -28.8</i>	<i>-28.8 to -31.8</i>	<i>-25.89 to -28.89</i>	<i>-30.89 to -33.89</i>	<i>-35.89 to -38.89</i>
<i>elev_NGVD</i>		<i>-26.1 to -29.1</i>	<i>-29.1 to -32.1</i>	<i>-32.1 to -35.1</i>	<i>-35.1 to -38.1</i>	<i>-32.2 to -35.2</i>	<i>-37.2 to -40.2</i>	<i>-42.2 to -45.2</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Pesticides</i>								
4,4'-DDD	µg/L	0.00031	-	-	-	-	-	-
4,4'-DDD (dissolved)	µg/L	0.00031	0.135 U	0.135 U	0.135 U	0.135 U	0.003 U	0.003 U
4,4'-DDE	µg/L	0.00022	-	-	-	-	-	-
4,4'-DDE (dissolved)	µg/L	0.00022	0.19 U	0.19 U	0.19 U	0.19 U	0.004 U	0.004 U
4,4'-DDT	µg/L	0.00022	-	-	-	-	-	-
4,4'-DDT (dissolved)	µg/L	0.00022	0.208 UJ	0.208 UJ	0.208 UJ	0.208 UJ	0.007 U	0.007 U

GROUNDWATER ANALYTICAL RESULTS – SITE PESTICIDES
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>NL-24</i>	<i>NL-24</i>	<i>NL-25</i>	<i>NL-25</i>	<i>NL-25</i>	<i>NL-25</i>	<i>NL-25</i>
<i>Sample ID:</i>		<i>GW-011507-BS-NL-24-004</i>	<i>GW-011507-BS-NL-24-005</i>	<i>GW-011807-ILM-NL-25-001</i>	<i>GW-011807-ILM-NL-25-002</i>	<i>GW-011807-ILM-NL-25-003</i>	<i>GW-011807-ILM-NL-25-004</i>	<i>GW-011807-ILM-NL-25-005</i>
<i>Sample Date:</i>		<i>1/15/2007</i>	<i>1/15/2007</i>	<i>1/18/2007</i>	<i>1/18/2007</i>	<i>1/18/2007</i>	<i>1/18/2007</i>	<i>1/18/2007</i>
<i>Sample Depth:</i>		<i>16.5 to 19.5 ft bml</i>	<i>21.5 to 24.5 ft bml</i>	<i>1.5 to 4.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>11.5 to 14.5 ft bml</i>	<i>16.5 to 19.5 ft bml</i>
<i>elev_MLLW</i>		<i>-40.89 to -43.89</i>	<i>-45.89 to -48.89</i>	<i>-29 to -32</i>	<i>-34 to -37</i>	<i>-34 to -37</i>	<i>-39 to -42</i>	<i>-44 to -47</i>
<i>elev_NGVD</i>		<i>-47.2 to -50.2</i>	<i>-52.2 to -55.2</i>	<i>-35.3 to -38.3</i>	<i>-40.3 to -43.3</i>	<i>-40.3 to -43.3</i> <i>(Duplicate)</i>	<i>-45.3 to -48.3</i>	<i>-50.3 to -53.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Pesticides</i>								
4,4'-DDD	µg/L	0.00031		-	-	-	-	-
4,4'-DDD (dissolved)	µg/L	0.00031	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
4,4'-DDE	µg/L	0.00022		-	-	-	-	-
4,4'-DDE (dissolved)	µg/L	0.00022	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
4,4'-DDT	µg/L	0.00022		-	-	-	-	-
4,4'-DDT (dissolved)	µg/L	0.00022	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U

GROUNDWATER ANALYTICAL RESULTS – SITE PESTICIDES
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>NL-25</i>	<i>NL-26</i>	<i>NL-26</i>	<i>NL-26</i>	<i>NL-26</i>	<i>NL-26</i>	<i>NL-28</i>
<i>Sample ID:</i>		<i>GW-011907-ILM-NL-25-006</i>	<i>GW-011707-ILM-NL-26-001</i>	<i>GW-011707-ILM-NL-26-002</i>	<i>GW-011807-ILM-NL-26-003</i>	<i>GW-011807-ILM-NL-26-004</i>	<i>GW-011807-ILM-NL-26-005</i>	<i>GW-011607-BS-NL-28-001</i>
<i>Sample Date:</i>		<i>1/19/2007</i>	<i>1/17/2007</i>	<i>1/17/2007</i>	<i>1/18/2007</i>	<i>1/18/2007</i>	<i>1/18/2007</i>	<i>1/16/2007</i>
<i>Sample Depth:</i>		<i>21.5 to 24.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>11.5 to 14.5 ft bml</i>	<i>16.5 to 19.5 ft bml</i>	<i>16.5 to 19.5 ft bml</i>	<i>21.5 to 24.5 ft bml</i>	<i>1.5 to 3.5 ft bml</i>
<i>elev_MLLW</i>		<i>-49 to -52</i>	<i>-26.9 to -29.9</i>	<i>-31.9 to -34.9</i>	<i>-36.9 to -39.9</i>	<i>-36.9 to -39.9</i>	<i>-41.9 to -44.9</i>	<i>-4.9 to -6.9</i>
<i>elev_NGVD</i>		<i>-55.3 to -58.3</i>	<i>-33.2 to -36.2</i>	<i>-38.2 to -41.2</i>	<i>-43.2 to -46.2</i>	<i>-43.2 to -46.2</i> <i>(Duplicate)</i>	<i>-48.2 to -51.2</i>	<i>-11.2 to -13.2</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Pesticides</i>								
4,4'-DDD	µg/L	0.00031	-	-	-	-	-	-
4,4'-DDD (dissolved)	µg/L	0.00031	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
4,4'-DDE	µg/L	0.00022	-	-	-	-	-	-
4,4'-DDE (dissolved)	µg/L	0.00022	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
4,4'-DDT	µg/L	0.00022	-	-	-	-	-	-
4,4'-DDT (dissolved)	µg/L	0.00022	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U

GROUNDWATER ANALYTICAL RESULTS – SITE PESTICIDES
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	NL-28	NL-28	NL-28	NL-28	NL-29	NL-29	NL-29
Sample ID:	GW-011707-BS-NL-28-002	GW-011707-BS-NL-28-003	GW-011707-BS-NL-28-004	GW-011707-BS-NL-28-005	GW-011807-BS-NL-29-001	GW-011807-BS-NL-29-002	GW-011807-BS-NL-29-003
Sample Date:	1/17/2007	1/17/2007	1/17/2007	1/17/2007	1/18/2007	1/18/2007	1/18/2007
Sample Depth:	6.5 to 9.5 ft bml	11.5 to 14.5 ft bml	16.5 to 19.5 ft bml	21.5 to 24.5 ft bml	1.5 to 4.5 ft bml	6.5 to 9.5 ft bml	11.5 to 14.5 ft bml
elev_MLLW	-9.9 to -12.9	-14.9 to -17.9	-19.9 to -22.9	-24.9 to -27.9	-6 to -9	-11 to -14	-16 to -19
elev_NGVD	-16.2 to -19.2	-21.2 to -24.2	-26.2 to -29.2	-31.2 to -34.2	-12.3 to -15.3	-17.3 to -20.3	-22.3 to -25.3
Parameters	Units	CSI	WG				
Pesticides							
4,4'-DDD	µg/L	0.00031	-	-	-	-	-
4,4'-DDD (dissolved)	µg/L	0.00031	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
4,4'-DDE	µg/L	0.00022	-	-	-	-	-
4,4'-DDE (dissolved)	µg/L	0.00022	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
4,4'-DDT	µg/L	0.00022	-	-	-	-	-
4,4'-DDT (dissolved)	µg/L	0.00022	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U

GROUNDWATER ANALYTICAL RESULTS – SITE PESTICIDES
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>NL-29</i>	<i>NL-29</i>	<i>NL-30</i>	<i>NL-30</i>	<i>NL-30</i>	<i>NL-30</i>	<i>NL-30</i>
<i>Sample ID:</i>		<i>GW-011807-BS-NL-29-004</i>	<i>GW-011807-BS-NL-29-005</i>	<i>GW-011907-BS-NL-30-001</i>	<i>GW-011907-BS-NL-30-002</i>	<i>GW-011907-BS-NL-30-003</i>	<i>GW-011907-ILM-NL-30-004</i>	<i>GW-011907-ILM-NL-30-005</i>
<i>Sample Date:</i>		<i>1/18/2007</i>	<i>1/18/2007</i>	<i>1/19/2007</i>	<i>1/19/2007</i>	<i>1/19/2007</i>	<i>1/19/2007</i>	<i>1/19/2007</i>
<i>Sample Depth:</i>		<i>16.5 to 19.5 ft bml</i>	<i>21.5 to 24.5 ft bml</i>	<i>1.5 to 4.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>11.5 to 14.5 ft bml</i>	<i>16.5 to 19.5 ft bml</i>	<i>21.5 to 24.5 ft bml</i>
<i>elev_MLLW</i>		<i>-21 to -24</i>	<i>-26 to -29</i>	<i>-24.75 to -27.75</i>	<i>-29.75 to -32.75</i>	<i>-34.75 to -37.75</i>	<i>-39.75 to -42.75</i>	<i>-44.75 to -47.75</i>
<i>elev_NGVD</i>		<i>-27.3 to -30.3</i>	<i>-32.3 to -35.3</i>	<i>-31.1 to -34.1</i>	<i>-36.1 to -39.1</i>	<i>-41.1 to -44.1</i>	<i>-46.1 to -49.1</i>	<i>-51.1 to -54.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Pesticides</i>								
4,4'-DDD	µg/L	0.00031	-	-	-	-	-	-
4,4'-DDD (dissolved)	µg/L	0.00031	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
4,4'-DDE	µg/L	0.00022	-	-	-	-	-	-
4,4'-DDE (dissolved)	µg/L	0.00022	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
4,4'-DDT	µg/L	0.00022	-	-	-	-	-	-
4,4'-DDT (dissolved)	µg/L	0.00022	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U

**GROUNDWATER ANALYTICAL RESULTS – SITE PESTICIDES
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Notes:

- (1) Site COCs per Tables 3.1 and 3.2 of the Statement of Work (January 2005). Additional non-COC analytical results are presented in the eDAT located in Appendix F.
- (2) Groundwater Cleanup Levels per Table 4.5.
- BGS Below ground surface.
- MLLW Mean lower low water.
- NGVD National geodetic vertical datum.
- COCs Constituents of concern.
- µg/L Microgram per liter.
- MS/cm Milliseimens per centimeter.
- s.u. Standard units.
- Deg C Degree Celsius.
- ntu Nepheletic turbidity units.
- NV No cleanup level has been established for this parameter.
- * Cleanup Level established at a concentration equal to the practical quantitation limit for that chemical in accordance the WAC 173-340-700 (6)(d). Value may decrease with improvements in analytical methods.
- 500** Concentration exceeds the Groundwater Cleanup Level.
- Not analyzed.
- U Not detected at associated concentration.
- J Estimated concentration.
- R Rejected.

TABLE 4.20

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
3-25	WG-082812-JN-3-25-001	25 BGS	-12.4	ND 0.015	0.000139
4-25R	GW-011706-TS-4-25R	25 BGS	-10.6		0.0023
11-25	WG-080612-JN-11-25-018	25 BGS	-12.7	ND 0.54	
14-25R	GW-122005-14-25R-001	25 BGS	-10.7		0.021
14-25R	WG-081312-TS-14-25R-029	25 BGS	-13.7	ND 0.033	
14-50R	GW-122005-14-50R-002 GW-122005-14-50R-003	50 BGS	-37.6		0.012
14-50R	WG-081312-TS-14-50R-030	50 BGS	-38.6	ND 0.010	
15-50R	WG-081312-PR-15-50R-31	50 BGS	-39.1	ND 0.95	
15-120	WG-081512-TS-15-120-032	120 BGS	-108.8	ND 5.0 J	
16-25	GW-16-25-TR-0704	25 BGS	-9.7	ND 0.2	
16-50	GW-16-50-TR-0704	50 BGS	-35.6	ND 0.2	
17-24	GW-17-24-TR-0704	25 BGS	-10.7	ND 0.2	
17-50R	GW-17-50R-TR-0704	50 BGS	-31.1	ND 0.2	
21-25R	GW-011706-TS-21-25R	25 BGS	-9.5		0.061
41C-25	WG-071612-BW-41C-25-067	25 BGS	-14.7	ND 0.010	
41C-50	WG-071612-BW-41C-50-068	50 BGS	-39.7	ND 0.053	
48-15	WG-081012-ALK-48-15-087	15 BGS	-3.5	ND 0.0099	
49-15	WG-081112-ALK-49-15-088	15 BGS	-2.4	ND 0.020	
50-15	WG-081112-ALK-50-15-089	15 BGS	-3.8	ND 0.0099	
52-15	WG-082412-PR-52-15-090 WG-082412-PR-FD11-308	15 BGS 15 BGS	-3.1 -3.1	ND 0.034 ND 0.031	
53C-25	WG-072412-AK-53C-25-091	25 BGS	-12.8	ND 0.75	0.000026
53-50	GW-011706-TS-53-50	50 BGS	-35.1		0.00011
60-50	WG-081512-TS-60-50-099	50 BGS	-38.9	ND 0.095 J	
65-15	GW-65-15-TR-0704	15 BGS	-1.03	ND 0.2	

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
65-25	WG-081212-ALK-65-25-108	25 BGS	-13.6	ND 0.0099	0.001765
65-50	WG-081212-ALK-65-50-109	50 BGS	-38.5	ND 0.098 J	
66-15	GW-66-15-TR-0704	15 BGS	-0.75	ND 0.2	
66-25	GW-66-25-TR-0704	25 BGS	-10.66	ND 0.2	
66-50	GW-66-50-TR-0704	50 BGS	-35.69	ND 0.2	
67-25	WG-072612-AMK-67-25-112	25 BGS	-13.7	ND 0.010	
67-50	WG-072612-AMK-67-50-113	50 BGS	-38.6	ND 0.0099	
68-25	GW-68-25-TR-0704	25 BGS	-11.15	ND 0.2	
68-50	GW-68-50-TR-0704	50 BGS	-36.17	ND 0.2	
69-25	WG-072712-AMK-69-25-114	25 BGS	-14.6	ND 0.11	0.000603
69-50	GW-69-50-TR-0704	50 BGS	-37.6	ND 0.2	
70-25	GW-70-25-TR-0704	25 BGS	-11.99	ND 0.2	0.000033
70-25	WG-082612-AMK-70-25-115	25 BGS	-14.5	ND 5.0	
70-50	GW-70-50-TR-0704 GW-0704-TR-FD1	50 BGS	-38	ND 0.2	
71-25	WG-072712-AMK-71-25-116	25 BGS	-14.2	ND 0.011	
71-50	WG-072712-AMK-71-50-117	50 BGS	-39.3	ND 0.010	
72-25	GW-72-25-TR-0704	25 BGS	-12.72	ND 0.2	
72-50	GW-72-50-TR-0704	50 BGS	-37.33	ND 0.2	
73-25	GW-73-25-TR-0704	25 BGS	-12.5	ND 0.2	
73-50	GW-73-50-TR-0704	50 BGS	-37.61	ND 0.2	

TABLE 4.20

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
80-25	WG-072712-AMK-80-25-138	25 BGS	-13.7	ND 0.52	
82-100	WG-072912-PR-82-100-140	100 BGS	-89.8	ND 1.0	
83C-25	WG-072512-AK-83C-25-141	25 BGS	-13.5	ND 0.041	0.000021
83C-50	WG-072512-AK-83C-50-142	50 BGS	-38.5	ND 0.026	
90C-100	WG-072312-AK-90C-100-186	100 BGS	-88.4	ND 1.0 J	
90C-25	WG-072312-AK-90C-25-183	25 BGS	-13.4	ND 0.20	0.002152
90C-50	WG-072312-AK-90C-50-184	50 BGS	-38.4	ND 0.15	
	WG-072312-AK-FD15-312	50 BGS	-38.4	ND 0.15	
90C-75	WG-072312-PR-90C-75-185	75 BGS	-63.4	ND 0.11 J	
93C-25	WG-071712-DJT-93C-25-202	25 BGS	-13.9	ND 0.0099	
93C-50	WG-071712-DJT-93C-50-203	50 BGS	-38.9	ND 0.010	
	WG-071712-DJT-FD14-311	50 BGS	-38.9	ND 0.010	
93C-75	WG-071712-DJT-93C-75-204	75 BGS	-63.9	ND 0.0099	
95-15	WG-082512-PR-95-15-215	15 BGS	-4.1	ND 0.0099	0.000010
95C-25	WG-071912-DJT-95C-25-216	25 BGS	-14.1	ND 0.042	0.000010
95C-50	WG-071912-DJT-95C-50-217	50 BGS	-39.1	ND 0.010	
PZ-SHI-1-33	GW-042706-TR-PZ-SHI-1-4	33 BGS	-20.9	ND 0.033	
PZ-SHI-1-75	GW-042706-TS-PZ-SHI-1-75	75 BGS	-61.6	ND 0.033	
PZ-SHI-1-100	GW-042706-TS-PZ-SHI-1-100	100 BGS	-86.6	ND 0.033	
PZ-SHI-1-126	GW-042706-TR-PZ-SHI-1-130	126 BGS	-114.6	ND 0.033	
PZ-SHI-2-25	GW-042806-TR-PZ-SHI-2-4	25 BGS	-12.8	ND 0.476	
	GW-042806-TR-PZ-SHI-2-5				
PZ-SHI-2-75	WG-082512-AMK-PZ-SHI-2-75-291	75 BGS	-79.2	ND 3.5 J	
PZ-SHI-2-100	WG-082512-LP-PZ-SHI-2-100-292	100 BGS	-105.9	ND 1.0 J	
PZ-SHI-3-42	GW-042706-TR-PZ-SHI-3-4	42 BGS	-28.8	ND 0.033	

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
PZ-SHI-3-75	WG-082512-AMK-PZ-SHI-3-75-293	75 BGS	-88.3	ND 0.10	
PZ-SHI-3-100	GW-042706-TR-PZ-SHI-3-100	100 BGS	-85.8	ND 0.033	
T3-50	WG-072912-PR-T3-50-294	50 BGS	-39.3	ND 0.011	
T6-60	WG-082412-LP-T6-60-296	60 BGS	-49.2	ND 0.10 J	
<u>Extraction Well Branches</u>					
EWB-A	GW-013007-MM-EWB-A-001	--	--		0.0027
EWB-A	GW-013007-MM-EWB-A-002 *	--	--		0.0031
EWB-B	GW-013007-MM-EWB-B-001	--	--		0.0033
EWB-B	GW-013007-MM-EWB-B-002 *	--	--		0.0074
EWB-C	GW-013007-MM-EWB-C-001	--	--		0.0055
EWB-C	GW-013007-MM-EWB-C-002 *	--	--		0.0047
EWB-D	GW-013007-MM-EWB-D-001	--	--		0.0013
EWB-D	GW-013007-MM-EWB-D-002 *	--	--		0.014
<u>Subtidal</u>					
HW-1	GW-012407-BS-HW-1-001 GW-012407-BS-HW-1-002	0.5 to 2.5 BML	-49.12 to -51.12		0.042
HW-2	GW-012507-BS-HW-2-001	2.5 to 4.5 BML	-50.72 to -52.72		0.012
HW-3	GW-012207-BS-HW3-001	9 to 11 BML	-52.12 to -54.12		0.050
HW-4	GW-012307-BS-HW-4-001	9 to 11 BML	-51.32 to -53.32		0.054
5106-1	GW-092705-5106-1-001	6 to 9 BML	-54.6 to -57.6	ND 0.033	
	GW-092705-5106-1-002	10 to 13 BML	-58.6 to -61.6	ND 0.033	
	GW-092705-5106-1-003	15 to 18 BML	-63.6 to -66.6	ND 0.033	
	GW-092705-5106-1-004	20 to 23 BML	-68.6 to -71.6	ND 0.033	
	GW-092705-5106-1-005	25 to 28 BML	-73.6 to -76.6	ND 0.033	
	GW-092705-5106-1-006	30 to 33 BML	-78.6 to -81.6	ND 0.032	
	GW-092705-5106-1-007				
	GW-092705-5106-1-008	35 to 38 BML	-83.6 to -86.6	ND 0.033	

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
5106-1 (cont)	GW-092705-5106-1-009	40 to 43 BML	-88.6 to -91.6	ND 0.033	
	GW-092705-5106-1-010	45 to 48 BML	-93.6 to -96.6	ND 0.033	
	GW-092805-5106-1-011	50 to 53 BML	-98.6 to -101.6	ND 0.033	
	GW-092805-5106-1-012	55 to 58 BML	-103.6 to -106.6	ND 0.032	
	GW-092805-5106-1-013	60 to 63 BML	-108.6 to -111.6	ND 0.033	
	GW-092805-5106-1-014	65 to 68 BML	-113.6 to -116.6	ND 0.033	
	GW-092805-5106-1-015	70 to 73 BML	-118.6 to -121.6	ND 0.033	
	GW-092805-5106-1-016	75 to 78 BML	-123.6 to -126.6	ND 0.033	
	GW-092805-5106-1-017	80 to 83 BML	-128.6 to -131.6	ND 0.033	
	GW-092805-5106-1-018	85 to 88 BML	-133.6 to -136.6	ND 0.033	
	GW-092805-5106-1-019	90 to 93 BML	-138.6 to -141.6	ND 0.033	
	GW-092905-5106-1-020	95 to 98 BML	-143.6 to -146.6	ND 0.033	
5106-2	GW-013006-5106-2-001	0 to 3 BML	-50.9 to -53.9	ND 0.2	
	GW-013006-5106-2-002	4 to 7 BML	-54.9 to -57.9	ND 0.2	
	GW-013006-5106-2-003	14 to 17 BML	-64.9 to -67.9	ND 0.2	
	GW-013006-5106-2-004	24 to 27 BML	-74.9 to -77.9	ND 0.2	
	GW-013006-5106-2-005	34 to 37 BML	-84.9 to -87.9	ND 0.2	
	GW-013006-5106-2-006	44 to 47 BML	-94.9 to -97.9	ND 0.2	
	GW-013106-5106-2-007	54 to 57 BML	-104.9 to -107.9	ND 0.2	
	GW-013106-5106-2-008	64 to 67 BML	-114.9 to -117.9	0.28	
	GW-013106-5106-2-009				
	GW-013106-5106-2-010	74 to 77 BML	-124.9 to -127.9	ND 0.2	
	GW-013106-5106-2-011	84 to 87 BML	-134.9 to -137.9	ND 0.2	
	GW-013106-5106-2-012	94 to 97 BML	-144.9 to -147.9	ND 0.2	
	GW-013106-5106-2-013	104 to 107 BML	-154.9 to -157.9	ND 0.2	
5106-3	GW-091905-5106-3-001	4 to 7 BML	-52.3 to -55.3	ND 0.033	
	GW-091905-5106-3-002	9 to 12 BML	-57.3 to -60.3	ND 0.034	
	GW-091905-5106-3-003	14 to 17 BML	-62.3 to -65.3	ND 0.033	
	GW-091905-5106-3-004	19 to 22 BML	-67.3 to -70.3	ND 0.033	
	GW-091905-5106-3-005	25 to 28 BML	-73.3 to -76.3	ND 0.033	
	GW-092005-5106-3-006	29 to 32 BML	-77.3 to -80.3	ND 0.033	
	GW-092005-5106-3-007	35 to 38 BML	-83.3 to -86.3	ND 0.032	
	GW-092105-5106-3-015	74 to 77 BML	-122.3 to -125.3	ND 0.033	
	GW-092105-5106-3-016	79 to 82 BML	-127.3 to -130.3	ND 0.033	
	GW-092105-5106-3-017				
	GW-092105-5106-3-018	84 to 87 BML	-132.3 to -135.3	ND 0.033	
	GW-092105-5106-3-019	89 to 92 BML	-137.3 to -140.3	ND 0.033	
	GW-092105-5106-3-020	94 to 97 BML	-142.3 to -145.3	ND 0.033	
	GW-092205-5106-3-021	99 to 102 BML	-147.3 to -150.3	ND 0.033	
	GW-092205-5106-3-022	104 to 107 BML	-152.3 to -155.3	ND 0.034	
	GW-092205-5106-3-023	109 to 112 BML	-157.3 to -160.3	ND 0.033	
GW-092205-5106-3-024	114 to 117 BML	-162.3 to -165.3	ND 0.033		

TABLE 4.20

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
5106-5	GW-090905-5106-5-001	4 to 7 BML	-52.4 to -55.4	ND 0.033	
	GW-090905-5106-5-002	9 to 12 BML	-57.4 to -60.4	ND 0.033	
	GW-090905-5106-5-003	14 to 17 BML	-62.4 to -65.4	ND 0.033	
	GW-090905-5106-5-004	19 to 22 BML	-67.4 to -70.4	ND 0.033	
	GW-090905-5106-5-005	24 to 27 BML	-72.4 to -75.4	ND 0.033	
	GW-090905-5106-5-006	29 to 32 BML	-77.4 to -80.4	ND 0.033	
	GW-090905-5106-5-007	34 to 37 BML	-82.4 to -85.4	ND 0.033	
	GW-090905-5106-5-008	39 to 42 BML	-87.4 to -90.4	ND 0.033	
	GW-090905-5106-5-009	44 to 47 BML	-92.4 to -95.4	ND 0.036	
	GW-090905-5106-5-010	49 to 52 BML	-97.4 to -100.4	ND 0.033	
	GW-090905-5106-5-011	54 to 57 BML	-102.4 to -105.4	ND 0.033	
	GW-091005-5106-5-012	59 to 61 BML	-107.4 to -109.4	ND 0.035	
	GW-091005-5106-5-013	64 to 67 BML	-112.4 to -115.4	ND 0.033	
	GW-091205-5106-5-014	69 to 72 BML	-117.4 to -120.4	ND 0.033	
	GW-091205-5106-5-015	74 to 77 BML	-122.4 to -125.4	ND 0.033	
	GW-091205-5106-5-016	79 to 82 BML	-127.4 to -130.4	ND 0.033	
5106-6	GW-101705-5106-6-001	8 to 11 BML	-56.9 to -59.9	ND 0.2	
	GW-101705-5106-6-002	13 to 16 BML	-61.9 to -64.9	ND 0.2	
	GW-101705-5106-6-003	18 to 21 BML	-66.9 to -69.9	ND 0.2	
	GW-101705-5106-6-004	23 to 26 BML	-71.9 to -74.9	ND 0.2	
	GW-101805-5106-6-005	28 to 31 BML	-76.9 to -79.9	ND 0.2	
	GW-101805-5106-6-006	33 to 36 BML	-81.9 to -84.9	ND 0.2	
	GW-101805-5106-6-007	38 to 41 BML	-86.9 to -89.9	ND 0.2	
	GW-101805-5106-6-008	43 to 46 BML	-91.9 to -94.9	ND 0.2	
	GW-101805-5106-6-009	48 to 51 BML	-96.9 to -99.9	ND 0.2	
	GW-101805-5106-6-010	53 to 56 BML	-101.9 to -104.9	ND 0.2	
	GW-101805-5106-6-011	58 to 61 BML	-106.9 to -109.9	ND 0.2	
	GW-101805-5106-6-012	63 to 66 BML	-111.9 to -114.9	ND 0.2	
	GW-101805-5106-6-013	68 to 71 BML	-116.9 to -119.9	ND 0.2	
	GW-101805-5106-6-014	73 to 76 BML	-121.9 to -124.9	ND 0.2	
	GW-101905-5106-6-015	78 to 81 BML	-126.9 to -129.9	ND 0.2	
	GW-101905-5106-6-016	83 to 86 BML	-131.9 to -134.9	ND 0.2	
	GW-101905-5106-6-017	88 to 91 BML	-136.9 to -139.9	ND 0.2	
	GW-101905-5106-6-018	93 to 96 BML	-141.9 to -144.9	ND 0.2	
	GW-101905-5106-6-019	98 to 101 BML	-146.9 to -149.9	ND 0.2	
	GW-101905-5106-6-020	103 to 106 BML	-151.9 to -154.9	ND 0.2	
	GW-101905-5106-6-021				
5106-7	GW-081005-5106-7-001	6 to 9 BML	-54 to -57	ND 0.032	
	GW-081005-5106-7-002	11 to 14 BML	-59 to -62	ND 0.034	
	GW-081005-5106-7-003	16 to 19 BML	-64 to -67	ND 0.033	
	GW-081005-5106-7-004	21 to 24 BML	-69 to -72	ND 0.034	
	GW-081005-5106-7-005	26 to 29 BML	-74 to -77	ND 0.033	
	GW-081005-5106-7-006	31 to 34 BML	-79 to -82	ND 0.033	
	GW-081005-5106-7-007	36 to 39 BML	-84 to -87	ND 0.034	
	GW-081005-5106-7-008				

TABLE 4.20

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
5106-7 (cont)	GW-081105-5106-7-009	41 to 44 BML	-89 to -92	ND 0.034	
	GW-081105-5106-7-010	46 to 49 BML	-94 to -97	ND 0.032	
	GW-081105-5106-7-011	51 to 54 BML	-99 to -102	ND 0.033	
	GW-081105-5106-7-012	56 to 59 BML	-104 to -107	ND 0.032	
	GW-081105-5106-7-013	61 to 64 BML	-109 to -112	ND 0.032	
	GW-081105-5106-7-014	66 to 69 BML	-114 to -117	ND 0.033	
	GW-081105-5106-7-015	71 to 74 BML	-119 to -122	ND 0.033	
	GW-081205-5106-7-016	76 to 79 BML	-124 to -127	ND 0.034	
	GW-081205-5106-7-017	81 to 84 BML	-129 to -132	ND 0.033	
5106-8	GW-080305-5106-8-001	14 to 17 BML	-45.5 to -48.5	ND 0.033	
	GW-080305-5106-8-002	19 to 22 BML	-50.5 to -53.5	ND 0.032	
	GW-080405-5106-8-003	24 to 27 BML	-55.5 to -58.5	ND 0.033	
	GW-080405-5106-8-004	29 to 32 BML	-60.5 to -63.5	ND 0.032	
	GW-080405-5106-8-005	34 to 37 BML	-65.5 to -68.5	ND 0.033	
	GW-080405-5106-8-006	39 to 42 BML	-70.5 to -73.5	ND 0.033	
	GW-080505-5106-8-007	44 to 47 BML	-75.5 to -78.5	ND 0.033	
	GW-080505-5106-8-008	49 to 52 BML	-80.5 to -83.5	ND 0.033	
	GW-080505-5106-8-009	54 to 57 BML	-85.5 to -88.5	ND 0.033	
	GW-080805-5106-8-011	74 to 77 BML	-105.5 to -108.5	ND 0.033	
	GW-080805-5106-8-012	79 to 82 BML	-110.5 to -113.5	ND 0.033	
	GW-080805-5106-8-013	84 to 87 BML	-115.5 to -118.5	ND 0.033	
	GW-080805-5106-8-014	89 to 92 BML	-120.5 to -123.5	ND 0.033	
	GW-080905-5106-8-015	94 to 97 BML	-125.5 to -128.5	ND 0.032	
	GW-080905-5106-8-016				
	GW-080905-5106-8-017	99 to 102 BML	-130.5 to -133.5	ND 0.033	
	GW-080905-5106-8-018	104 to 107 BML	-135.5 to -138.5	ND 0.033	
	GW-080905-5106-8-019	109 to 112 BML	-140.5 to -143.5	ND 0.033	
Dock2-1	GW-072005-DOCK2-1-003	13 to 16 BML	-62.2 to -65.2	ND 0.034	
	GW-072005-DOCK2-1-004	18 to 21 BML	-67.2 to -70.2	ND 0.034	
	GW-072105-DOCK2-1-005	23 to 26 BML	-72.2 to -75.2	ND 0.033	
	GW-072105-DOCK2-1-006	28 to 31 BML	-77.2 to -80.2	ND 0.033	
	GW-072105-DOCK2-1-007	33 to 36 BML	-82.2 to -85.2	ND 0.033	
	GW-072105-DOCK2-1-008	38 to 41 BML	-87.2 to -90.2	ND 0.033	
Dock2-2	GW-071105-DOCK2-2-001	7.5 to 10.5 BML	-55.5 to -58.5	ND 0.033	
	GW-071205-DOCK2-2-003	17.5 to 20.5 BML	-65.5 to -68.5	ND 0.033	
	GW-071205-DOCK2-2-004	22.5 to 25.5 BML	-70.5 to -73.5	ND 0.033	
	GW-071205-DOCK2-2-005	27.5 to 30.5 BML	-75.5 to -78.5	ND 0.032	
	GW-071305-DOCK2-2-006	32.5 to 35.5 BML	-80.5 to -83.5	ND 0.066	
Dock2-3	GW-072205-DOCK2-3-001	3 to 6 BML	-51.9 to -54.9	ND 0.067	
	GW-072205-DOCK2-3-002				
	GW-072205-DOCK2-3-003	8 to 11 BML	-56.9 to -59.9	ND 0.067	
	GW-072505-DOCK2-3-004	13 to 16 BML	-61.9 to -64.9	ND 0.068	
	GW-072505-DOCK2-3-007	28 to 31 BML	-76.9 to -79.9	ND 0.067	

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
Dock2-4	GW-072805-DOCK2-4-001	4 to 7 BML	-52.5 to -55.5	ND 0.033	
	GW-072805-DOCK2-4-002	9 to 12 BML	-57.5 to -60.5	ND 0.033	
	GW-072805-DOCK2-4-003	14 to 17 BML	-62.5 to -65.5	ND 0.033	
	GW-072805-DOCK2-4-004	19 to 22 BML	-67.5 to -70.5	ND 0.033	
	GW-072905-DOCK2-4-005	24 to 27 BML	-72.5 to -75.5	ND 0.032	
	GW-072905-DOCK2-4-007	29 to 32 BML	-77.5 to -80.5	ND 0.033	
	GW-072905-DOCK2-4-008	34 to 37 BML	-82.5 to -85.5	ND 0.034	
	Dock2-5	GW-080105-DOCK2-5-001	2 to 5 BML	-43.3 to -46.3	ND 0.033
GW-080105-DOCK2-5-002					
GW-080105-DOCK2-5-003		7 to 10 BML	-48.3 to -51.3	ND 0.033	
GW-080105-DOCK2-5-004		12 to 15 BML	-53.3 to -56.3	ND 0.033	
GW-080205-DOCK2-5-005		17 to 20 BML	-58.3 to -61.3	ND 0.034	
GW-080205-DOCK2-5-006		22 to 25 BML	-63.3 to -66.3	ND 0.033	
GW-080205-DOCK2-5-007		27 to 30 BML	-68.3 to -71.3	ND 0.033	
GW-080205-DOCK2-5-008		32 to 35 BML	-73.3 to -76.3	ND 0.033	
GW-080205-DOCK2-5-009		37 to 40 BML	-78.3 to -81.3	ND 0.033	
Dock2-6	GW-090605-DOCK2-6-001	0.7 to 3.7 BML	-43.2 to -46.2	ND 0.033	
	GW-090605-DOCK2-6-002	5.7 to 8.7 BML	-48.2 to -51.2	ND 0.033	
	GW-090605-DOCK2-6-003	10.7 to 13.7 BML	-53.2 to -56.2	ND 0.033	
	GW-090605-DOCK2-6-004	15.7 to 18.7 BML	-58.2 to -61.2	ND 0.033	
	GW-090605-DOCK2-6-005	20.7 to 23.7 BML	-63.2 to -66.2	ND 0.033	
	GW-090605-DOCK2-6-006	25.7 to 28.7 BML	-68.2 to -71.2	ND 0.033	
	GW-090705-DOCK2-6-008	30.7 to 33.7 BML	-73.2 to -76.2	ND 0.033	
	GW-090705-DOCK2-6-009	35.7 to 38.7 BML	-78.2 to -81.2	ND 0.033	
	GW-090705-DOCK2-6-010	40.7 to 43.7 BML	-83.2 to -86.2	ND 0.033	
	Dock2-7	GW-090705-DOCK2-7-001	3 to 6 BML	-46.1 to -49.1	ND 0.033
GW-090705-DOCK2-7-002		8 to 11 BML	-51.1 to -54.1	ND 0.033	
GW-090705-DOCK2-7-003		13 to 16 BML	-56.1 to -59.1	ND 0.033	
GW-090705-DOCK2-7-004		18 to 21 BML	-61.1 to -64.1	ND 0.033	
GW-090705-DOCK2-7-005		23 to 26 BML	-66.1 to -69.1	ND 0.032	
GW-090705-DOCK2-7-006					
GW-090705-DOCK2-7-007		28 to 31 BML	-71.1 to -74.1	ND 0.033	
GW-090705-DOCK2-7-008		33 to 36 BML	-76.1 to -79.1	ND 0.033	
Dock2-10	GW-091305-DOCK2-10-009	37.6 to 40.6 BML	-79.3 to -82.3	ND 0.033	
HYD-1	GW-083105-HYD-1-001	4 to 7 BML	-46.6 to -49.6	ND 0.033	
	GW-083105-HYD-1-002	14 to 17 BML	-56.6 to -59.6	ND 0.033	
	GW-083105-HYD-1-003	24 to 27 BML	-66.6 to -69.6	ND 0.033	
	GW-083105-HYD-1-004	34 to 37 BML	-76.6 to -79.6	ND 0.033	
	GW-090105-HYD-1-005	44 to 47 BML	-86.6 to -89.6	ND 0.032	
	GW-090105-HYD-1-006	54 to 57 BML	-96.6 to -99.6	ND 0.032	

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
HYD-1 (cont)	GW-090105-HYD-1-007	64 to 67 BML	-106.6 to -109.6	ND 0.032	
	GW-090105-HYD-1-008	74 to 77 BML	-116.6 to -119.6	ND 0.032	
	GW-090105-HYD-1-010	94 to 97 BML	-136.6 to -139.6	ND 0.033	
	GW-090105-HYD-1-011	104 to 107 BML	-146.6 to -149.6	ND 0.033	
	GW-090105-HYD-1-012	114 to 117 BML	-156.6 to -159.6	ND 0.033	
	GW-090105-HYD-1-013	124 to 127 BML	-166.6 to -169.6	ND 0.033	
HYD-2	GW-082905-HYD-2-001	8 to 11 BML	-52.1 to -55.1	ND 0.033	
	GW-082905-HYD-2-002	18 to 21 BML	-62.1 to -65.1	ND 0.032	
	GW-082905-HYD-2-003	28 to 31 BML	-72.1 to -75.1	ND 0.033	
	GW-082905-HYD-2-004	38 to 41 BML	-82.1 to -85.1	ND 0.032	
	GW-083005-HYD-2-005	48 to 51 BML	-92.1 to -95.1	ND 0.032	
	GW-083005-HYD-2-006	58 to 61 BML	-102.1 to -105.1	ND 0.032	
	GW-083005-HYD-2-007	68 to 71 BML	-112.1 to -115.1	ND 0.033	
	GW-083005-HYD-2-008	78 to 81 BML	-122.1 to -125.1	ND 0.033	
	GW-083005-HYD-2-009	88 to 91 BML	-132.1 to -135.1	ND 0.032	
	GW-083005-HYD-2-010	98 to 101 BML	-142.1 to -145.1	ND 0.032	
	GW-083105-HYD-2-011	108 to 111 BML	-152.1 to -155.1	ND 0.033	
HYD-3	GW-081005-HYD-3-001	11 to 14 BML	-29.1 to -32.1	ND 0.033	
	GW-081005-HYD-3-002	21 to 24 BML	-39.1 to -42.1	ND 0.032	
	GW-081105-HYD-3-003	31 to 34 BML	-49.1 to -52.1	ND 0.032	
	GW-081105-HYD-3-004	41 to 44 BML	-59.1 to -62.1	ND 0.033	
	GW-081205-HYD-3-005	51 to 54 BML	-69.1 to -72.1	ND 0.033	
	GW-081205-HYD-3-006	61 to 64 BML	-79.1 to -82.1	ND 0.033	
	GW-081505-HYD-3-007	71 to 74 BML	-89.1 to -92.1	ND 0.033	
	GW-081505-HYD-3-008	81 to 84 BML	-99.1 to -102.1	ND 0.033	
	GW-081505-HYD-3-009	91 to 94 BML	-109.1 to -112.1	ND 0.033	
	GW-081605-HYD-3-010	101 to 104 BML	-119.1 to -122.1	ND 0.011	
	GW-081705-HYD-3-011	111 to 114 BML	-129.1 to -132.1	ND 0.032	
	GW-081705-HYD-3-012	121 to 124 BML	-139.1 to -142.1	ND 0.032	
	GW-081805-HYD-3-013	131 to 134 BML	-149.1 to -152.1	ND 0.033	
HYD-4	GW-092205-HYD-4-001	6 to 9 BML	-57.1 to -60.1	ND 0.032	
	GW-092205-HYD-4-002	16 to 19 BML	-67.1 to -70.1	ND 0.037	
	GW-092305-HYD-4-003	26 to 29 BML	-77.1 to -80.1	ND 0.033	
	GW-092305-HYD-4-004	36 to 39 BML	-87.1 to -90.1	ND 0.033	
	GW-092305-HYD-4-005	46 to 49 BML	-97.1 to -100.1	ND 0.033	
	GW-092305-HYD-4-006	46 to 49 BML	-97.1 to -100.1	ND 0.033	
	GW-092305-HYD-4-007	56 to 59 BML	-107.1 to -110.1	ND 0.032	
	GW-092405-HYD-4-008	66 to 69 BML	-117.1 to -120.1	ND 0.035	
	GW-092405-HYD-4-009	76 to 79 BML	-127.1 to -130.1	ND 0.033	
	GW-092605-HYD-4-010	86 to 89 BML	-137.1 to -140.1	ND 0.033	
	GW-092605-HYD-4-011	96 to 99 BML	-147.1 to -150.1	ND 0.033	
	GW-092605-HYD-4-012	106 to 109 BML	-157.1 to -160.1	ND 0.033	
	GW-092605-HYD-4-013	116 to 119 BML	-167.1 to -170.1	ND 0.033	

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
HYD-5	GW-100405-HYD-5-001	14 to 17 BML	-60.8 to -63.8	ND 0.18	
	GW-100505-HYD-5-002	24 to 27 BML	-70.8 to -73.8	ND 0.18	
	GW-100505-HYD-5-003				
	GW-100505-HYD-5-004	34 to 37 BML	-80.8 to -83.8	ND 0.18	
	GW-100505-HYD-5-005	44 to 47 BML	-90.8 to -93.8	ND 0.18	
	GW-100505-HYD-5-006	54 to 57 BML	-100.8 to -103.8	ND 0.18	
	GW-100505-HYD-5-007	64 to 67 BML	-110.8 to -113.8	ND 0.18	
	GW-100505-HYD-5-008	74 to 84 BML	-120.8 to -130.8	ND 0.18	
HYD-6	GW-093005-HYD-6-002	12.3 to 15.3 BML	-60.3 to -63.3	ND 0.033	
	GW-093005-HYD-6-003	22.3 to 25.3 BML	-70.3 to -73.3	ND 0.033	
	GW-093005-HYD-6-004	32.3 to 35.4 BML	-80.3 to -83.4	ND 0.033	
	GW-100105-HYD-6-005	42.3 to 45.4 BML	-90.3 to -93.4	ND 0.033	
	GW-100105-HYD-6-006	52.3 to 55.3 BML	-100.3 to -103.3	ND 0.033	
	GW-100405-HYD-6-011	92.3 to 95.3 BML	-140.3 to -143.3	ND 0.033	
	GW-100405-HYD-6-012	102.3 to 105.3 BML	-150.3 to -153.3	ND 0.034	
	GW-100405-HYD-6-013	112.3 to 115.3 BML	-160.3 to -163.3	ND 0.034	
HYD-7	GW-083105-HYD-7-001	20 to 23 BML	-33.8 to -36.8	ND 0.032	
	GW-083105-HYD-7-002				
	GW-090105-HYD-7-003	30 to 33 BML	-43.8 to -46.8	ND 0.032	
	GW-090105-HYD-7-004	40 to 43 BML	-53.8 to -56.8	ND 0.032	
	GW-091405-HYD-7-005	50 to 53 BML	-63.8 to -66.8	ND 0.036	
	GW-091405-HYD-7-006	60 to 63 BML	-73.8 to -76.8	ND 0.033	
	GW-091505-HYD-7-007	70 to 73 BML	-83.8 to -86.8	ND 0.033	
	GW-091505-HYD-7-008	80 to 83 BML	-93.8 to -96.8	ND 0.032	
	GW-091505-HYD-7-009	90 to 93 BML	-103.8 to -106.8	ND 0.035	
	GW-091605-HYD-7-010	100 to 103 BML	-113.8 to -116.8	ND 0.035	
	GW-091605-HYD-7-011	110 to 113 BML	-123.8 to -126.8	ND 0.035	
	GW-091605-HYD-7-012	120 to 123 BML	-133.8 to -136.8	ND 0.035	
HYD-8	GW-091305-HYD-8-002	2 to 5 BML	-46.5 to -49.5	ND 0.034	
	GW-091305-HYD-8-001	12 to 15 BML	-56.5 to -59.5	ND 0.032	
	GW-091305-HYD-8-003	22 to 25 BML	-66.5 to -69.5	ND 0.033	
	GW-091305-HYD-8-004	32 to 35 BML	-76.5 to -79.5	ND 0.033	
	GW-091405-HYD-8-005	42 to 45 BML	-86.5 to -89.5	ND 0.033	
	GW-091405-HYD-8-006	52 to 55 BML	-96.5 to -99.5	ND 0.032	
	GW-091405-HYD-8-007	62 to 65 BML	-106.5 to -109.5	ND 0.033	
	GW-091405-HYD-8-008	72 to 75 BML	-116.5 to -119.5	ND 0.033	
	GW-091405-HYD-8-009	82 to 85 BML	-126.5 to -129.5	ND 0.033	
HYD-9	GW-091405-HYD-9-001	2 to 5 BML	-43.7 to -46.7	ND 0.033	
	GW-091405-HYD-9-002	12 to 15 BML	-53.7 to -56.7	ND 0.033	
	GW-091505-HYD-9-003	22 to 25 BML	-63.7 to -66.7	ND 0.033	
	GW-091505-HYD-9-004	32 to 35 BML	-73.7 to -76.7	ND 0.032	
	GW-091505-HYD-9-005	42 to 45 BML	-83.7 to -86.7	ND 0.033	
	GW-091505-HYD-9-006	52 to 55 BML	-93.7 to -96.7	ND 0.033	

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
HYD-9 (cont)	GW-091505-HYD-9-007	62 to 65 BML	-103.7 to -106.7	ND 0.04	
	GW-091505-HYD-9-008	72 to 75 BML	-113.7 to -116.7	ND 0.033	
	GW-091505-HYD-9-009	82 to 85 BML	-123.7 to -126.7	ND 0.033	
	GW-091505-HYD-9-010	92 to 95 BML	-133.7 to -136.7	ND 0.033	
HYD-10	GW-091605-HYD-10-001	5.3 to 8.3 BML	-28.2 to -31.2	ND 0.033	
	GW-091605-HYD-10-002	15.3 to 18.3 BML	-38.2 to -41.2	ND 0.033	
	GW-091605-HYD-10-003	25.3 to 28.3 BML	-48.2 to -51.2	ND 0.033	
	GW-091605-HYD-10-004	35.3 to 38.3 BML	-58.2 to -61.2	ND 0.038	
	GW-091605-HYD-10-005	45.3 to 48.3 BML	-68.2 to -71.2	ND 0.033	
	GW-091605-HYD-10-006	45.3 to 48.3 BML	-68.2 to -71.2	ND 0.033	
	GW-091605-HYD-10-007	55.3 to 58.3 BML	-78.2 to -81.2	ND 0.033	
	GW-091605-HYD-10-008	65.3 to 68.3 BML	-88.2 to -91.2	ND 0.033	
	GW-091605-HYD-10-009	75.3 to 78.3 BML	-98.2 to -101.2	ND 0.033	
	GW-091605-HYD-10-010	85.3 to 88.3 BML	-108.2 to -111.2	ND 0.033	
	GW-091605-HYD-10-011	95.3 to 98.3 BML	-118.2 to -121.2	ND 0.033	
	GW-091705-HYD-10-012	105.3 to 108.3 BML	-128.2 to -131.2	ND 0.033	
Pier25-1	GW-063005-PIER25-1-001	3 to 5 BML	-46.9 to -48.9	ND 0.011	
	GW-070105-PIER25-1-002	14.5 to 16.5 BML	-58.4 to -60.4	ND 0.012	
	GW-070105-PIER25-1-003	24.5 to 26.5 BML	-68.4 to -70.4	ND 0.012	
	GW-070105-PIER25-1-004	24.5 to 26.5 BML	-68.4 to -70.4	ND 0.012	
	GW-070505-PIER25-1-005	34.5 to 36.5 BML	-78.4 to -80.4	ND 0.011	
	GW-070505-PIER25-1-006	44.5 to 46.5 BML	-88.4 to -90.4	ND 0.012	
	GW-072605-PIER25-1-007	54.5 to 56.5 BML	-98.4 to -100.4	ND 0.033	
	GW-072705-PIER25-1-009	74.5 to 76.5 BML	-118.4 to -120.4	ND 0.034	
	GW-072705-PIER25-1-010	84.5 to 86.5 BML	-128.4 to -130.4	ND 0.034	
	Pier25-2	GW-071405-PIER25-2-001	6 to 9 BML	-47.5 to -50.5	ND 0.066
GW-071405-PIER25-2-002		16 to 19 BML	-57.5 to -60.5	ND 0.033	
GW-071405-PIER25-2-003		26 to 29 BML	-67.5 to -70.5	ND 0.033	
GW-071405-PIER25-2-004		36 to 39 BML	-77.5 to -80.5	ND 0.033	
GW-071505-PIER25-2-005		46 to 49 BML	-87.5 to -90.5	ND 0.033	
GW-071505-PIER25-2-006		56 to 59 BML	-97.5 to -100.5	ND 0.032	
GW-071505-PIER25-2-007		66 to 69 BML	-107.5 to -110.5	ND 0.033	
GW-071805-PIER25-2-008		76 to 79 BML	-117.5 to -120.5	ND 0.033	
GW-071805-PIER25-2-009		86 to 89 BML	-127.5 to -130.5	ND 0.031	
GW-071905-PIER25-2-010		96 to 99 BML	-137.5 to -140.5	ND 0.034	
GW-081905-PIER25-2-011		106 to 109 BML	-147.5 to -150.5	ND 0.033	
GW-081905-PIER25-2-012		116 to 119 BML	-157.5 to -160.5	ND 0.033	
Pier25-13	GW-020206-PIER25-13-001	0 to 3 BML	-49.1 to -52.1	ND 0.2	
	GW-020206-PIER25-13-002	10 to 13 BML	-59.1 to -62.1	ND 0.2	
	GW-020206-PIER25-13-003	20 to 23 BML	-69.1 to -72.1	ND 0.2	
	GW-020206-PIER25-13-004	30 to 33 BML	-79.1 to -82.1	ND 0.2	
	GW-020206-PIER25-13-005	30 to 33 BML	-79.1 to -82.1	ND 0.2	
	GW-020206-PIER25-13-006	40 to 43 BML	-89.1 to -92.1	ND 0.2	

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>	
Pier25-13 (cont)	GW-020206-PIER25-13-007	50 to 53 BML	-99.1 to -102.1	ND 0.2		
	GW-020206-PIER25-13-008	60 to 63 BML	-109.1 to -112.1	ND 0.2		
	GW-020306-PIER25-13-009	70 to 73 BML	-119.1 to -122.1	ND 0.2		
	GW-020306-PIER25-13-010	80 to 83 BML	-129.1 to -132.1	ND 0.2		
	GW-020306-PIER25-13-011	90 to 93 BML	-139.1 to -142.1	ND 0.2		
	GW-020306-PIER25-13-012	100 to 103 BML	-149.1 to -152.1	ND 0.2		
	GW-020306-PIER25-13-013	110 to 113 BML	-159.1 to -162.1	ND 0.2		
WW-A1D	GW-082612-KB-WWA1D-003	11 to 11 BML	-53.4 to -53.4	ND 0.096		
	GW-082812-KB-WWA1D-005	47 to 47 BML	-89.4 to -89.4	ND 0.099		
	GW-082812-KB-FD001	47 to 47 BML	-89.4 to -89.4	ND 0.10		
WW-A1R	GW-082112-MD-WW-A1R-003	11 to 11 BML	-51.5 to -51.5	ND 0.010	0.000589	
	GW-082212-MD-WW-A1R-004	20 to 20 BML	-60.5 to -60.5	ND 0.089		
<u>Salt Pad</u>						
SP-1	GW-062306-LH-SP1-001	9 to 12 BGS	2.6 to -0.4	ND 0.1		
	GW-062306-LH-SP1-002	18 to 21 BGS	-6.4 to -9.4	ND 0.1		
	GW-062306-LH-SP1-003	23 to 26 BGS	-11.4 to -14.4	ND 0.1		
	GW-062306-LH-SP1-004	34 to 37 BGS	-22.4 to -25.4	ND 0.1		
	GW-062606-LH-SP1-005	43 to 46 BGS	-31.4 to -34.4	ND 0.1		
	GW-062606-LH-SP1-006	48 to 51 BGS	-36.4 to -39.4	ND 0.1		
	GW-062606-LH-SP1-007	58 to 61 BGS	-46.4 to -49.4	ND 0.1		
	GW-062606-LH-SP1-008	68 to 71 BGS	-56.4 to -59.4	ND 0.1		
	GW-062706-DR-SP1-011	88 to 91 BGS	-76.4 to -79.4	ND 0.1		
	GW-062706-LH-SP1-009	98 to 101 BGS	-86.4 to -89.4	ND 0.1		
	GW-090606-JL-SP1-013	118 to 122 BGS	-106.4 to -110.4	ND 0.2		
	GW-090606-JL-SP1-014	128 to 132 BGS	-116.4 to -120.4	ND 0.2		
	GW-090706-JL-SP1-015	138 to 142 BGS	-126.4 to -130.4	ND 0.2		
	GW-090706-JL-SP1-016	148 to 152 BGS	-136.4 to -140.4	ND 0.2		
	GW-090706-JL-SP1-017	158 to 162 BGS	-146.4 to -150.4	ND 0.2		
	GW-090806-JL-SP1-019	178 to 182 BGS	-166.4 to -170.4	ND 0.2		
	GW-090806-JL-SP1-020	188 to 192 BGS	-176.4 to -180.4	ND 0.2		
	SP-2	GW-070706-DR-SP2-001	8 to 11 BGS	3.6 to 0.6	ND 0.2	
		GW-070706-DR-SP2-002	18 to 21 BGS	-6.4 to -9.4	ND 1.0	
		GW-070706-DR-SP2-003	23 to 26 BGS	-11.4 to -14.4	ND 1.0	
GW-070706-DR-SP2-004		33 to 36 BGS	-21.4 to -24.4	ND 1.0		
GW-071006-LH-SP2-006		43 to 46 BGS	-31.4 to -34.4	ND 1.0		
GW-071006-LH-SP2-007		48 to 51 BGS	-36.4 to -39.4	ND 1.0		
GW-071006-LH-SP2-008		58 to 61 BGS	-46.4 to -49.4	ND 1.0		
GW-071106-LH-SP2-009		68 to 71 BGS	-56.4 to -59.4	ND 1.0		
GW-071106-LH-SP2-010		78 to 81 BGS	-66.4 to -69.4	ND 0.2		
GW-071206-LH-SP2-011		88 to 91 BGS	-76.4 to -79.4	ND 0.2		
GW-071206-LH-SP2-012		98 to 101 BGS	-86.4 to -89.4	ND 1.0		
GW-091206-JL-SP2-012		108 to 112 BGS	-96.4 to -100.4	ND 0.2		
SP-2 (cont)		GW-091206-JL-SP2-013	121 to 122 BGS	-109.4 to -110.4	ND 0.2	
	GW-091306-JL-SP2-015	138 to 142 BGS	-126.4 to -130.4	ND 0.2		
	GW-091306-JL-SP2-016	148 to 152 BGS	-136.4 to -140.4	ND 0.2		
	GW-091306-JL-SP2-018	168 to 172 BGS	-156.4 to -160.4	ND 0.2		

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
	GW-091406-JL-SP2-019	178 to 182 BGS	-166.4 to -170.4	ND 0.2	
	GW-091406-JL-SP2-021	198 to 202 BGS	-186.4 to -190.4	ND 0.2	
	GW-091506-JL-SP2-023	218 to 222 BGS	-206.4 to -210.4	ND 0.2	
	GW-091806-JL-SP2-024	228 to 232 BGS	-216.4 to -220.4	ND 0.2	
SP-3	GW-061406-LH-SP3-001	7 to 10 BGS	4.6 to 1.6	ND 0.1	
	GW-061406-LH-SP3-002	18 to 21 BGS	-6.4 to -9.4	ND 0.1	
	GW-061406-LH-SP3-003	23 to 26 BGS	-11.4 to -14.4	ND 0.1	
	GW-061506-LH-SP3-004	33 to 36 BGS	-21.4 to -24.4	ND 0.1	
	GW-061506-LH-SP3-005	43 to 46 BGS	-31.4 to -34.4	ND 0.1	
	GW-061506-LH-SP3-006	48 to 51 BGS	-36.4 to -39.4	ND 0.1	
	GW-061506-LH-SP3-007	58 to 61 BGS	-46.4 to -49.4	ND 0.1	
	GW-061506-LH-SP3-008	68 to 71 BGS	-56.4 to -59.4	ND 0.1	
	GW-061906-LH-SP3-010	78 to 81 BGS	-66.4 to -69.4	ND 0.1	
	GW-061906-DR-SP3-011	87 to 90 BGS	-75.4 to -78.4	ND 0.1	
	GW-061606-LH-SP3-009	99 to 101 BGS	-87.4 to -89.4	ND 0.1	
SP-3 (cont)	GW-092606-JC-SP3-012	108 to 112 BGS	-96.4 to -100.4	ND 0.2	
	GW-092606-JC-SP3-013	118 to 122 BGS	-106.4 to -110.4	ND 0.2	
	GW-092706-JC-SP3-015	138 to 142 BGS	-126.4 to -130.4	ND 0.2	
	GW-092806-JC-SP3-017	158 to 162 BGS	-146.4 to -150.4	ND 0.2	
	GW-092806-ILM-SP3-018	168 to 172 BGS	-156.4 to -160.4	ND 0.2	
	GW-092906-ILM-SP3-019	178 to 182 BGS	-166.4 to -170.4	ND 0.2	
	GW-093006-ILM-SP3-020	188 to 192 BGS	-176.4 to -180.4	ND 0.2	
SP-4	GW-062006-SP4-001	9 to 12 BGS	2.6 to -0.4	ND 0.1	
	GW-062006-SP4-002	18 to 21 BGS	-6.4 to -9.4	ND 0.1	
	GW-062006-SP4-003				
	GW-062006-SP4-004	23 to 26 BGS	-11.4 to -14.4	ND 0.1	
	GW-062006-DR-SP4-005	33 to 36 BGS	-21.4 to -24.4	ND 0.1	
	GW-062106-DR-SP4-006	43 to 46 BGS	-31.4 to -34.4	ND 0.1	
	GW-062106-DR-SP4-007	48 to 51 BGS	-36.4 to -39.4	ND 0.1	
	GW-062106-DR-SP4-008	58 to 61 BGS	-46.4 to -49.4	ND 0.1	
	GW-062106-DR-SP4-009	68 to 71 BGS	-56.4 to -59.4	ND 0.1	
	GW-062206-DR-SP4-010	78 to 81 BGS	-66.4 to -69.4	ND 0.1	
	GW-062206-DR-SP4-011	88 to 91 BGS	-76.4 to -79.4	ND 0.1	
	GW-092006-JL-SP4-012	108 to 112 BGS	-96.4 to -100.4	ND 0.2	
	GW-092106-JL-SP4-013	118 to 122 BGS	-106.4 to -110.4	ND 0.2	
	GW-092106-JL-SP4-015	138 to 142 BGS	-126.4 to -130.4	ND 0.2	
	GW-092106-JL-SP4-016	148 to 152 BGS	-136.4 to -140.4	ND 0.2	
	GW-092206-LH-SP4-017	158 to 162 BGS	-146.4 to -150.4	ND 0.2	
	GW-092206-JC-SP4-018	168 to 172 BGS	-156.4 to -160.4	ND 0.2	
	GW-092506-JC-SP4-019	178 to 182 BGS	-166.4 to -170.4	ND 0.2	

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
SP-5	GW-060206-DR-SP5-001	9 to 12 BGS	2.6 to -0.4	ND 0.2	
	GW-060206-DR-SP5-002	18 to 21 BGS	-6.4 to -9.4	ND 0.2	
	GW-060206-DR-SP5-003	23 to 26 BGS	-11.4 to -14.4	ND 0.2	
	GW-060506-LH-SP5-004	33 to 36 BGS	-21.4 to -24.4	ND 0.2	
	GW-060906-LH-SP5-005	43 to 46 BGS	-31.4 to -34.4	ND 0.2	
	GW-061206-LH-SP5-006	48 to 51 BGS	-36.4 to -39.4	ND 0.2	
	GW-061206-LH-SP5-007	58 to 61 BGS	-46.4 to -49.4	ND 0.2	
	GW-061206-LH-SP5-008	68 to 71 BGS	-56.4 to -59.4	ND 0.2	
	GW-061206-LH-SP5-009	78 to 81 BGS	-66.4 to -69.4	ND 0.2	
	GW-061306-LH-SP5-010	88 to 91 BGS	-76.4 to -79.4	ND 0.2	
	GW-061306-LH-SP5-011	98 to 101 BGS	-86.4 to -89.4	ND 0.2	
	GW-073106-DR-SP5-012	108 to 112 BGS	-96.4 to -100.4	ND 0.2	
	GW-080106-DR-SP5-013	118 to 122 BGS	-106.4 to -110.4	ND 0.2	
	GW-080106-DR-SP5-014	128 to 132 BGS	-116.4 to -120.4	ND 0.2	
	GW-080106-DR-SP5-015	138 to 142 BGS	-126.4 to -130.4	ND 0.2	
SP-6	GW-060506-DR-SP6-001	7 to 10 BGS	4.6 to 1.6	ND 0.2	
	GW-060506-DR-SP6-002	18 to 21 BGS	-6.4 to -9.4	ND 0.2	
	GW-060606-LH-SP6-003	23 to 26 BGS	-11.4 to -14.4	ND 0.2	
	GW-060606-LH-SP6-004	33 to 36 BGS	-21.4 to -24.4	ND 0.2	
	GW-060606-DR-SP6-005	43 to 46 BGS	-31.4 to -34.4	ND 0.2	
	GW-060606-DR-SP6-006	48 to 51 BGS	-36.4 to -39.4	ND 0.2	
	GW-060606-DR-SP6-007				
	GW-060706-DR-SP6-008	58 to 61 BGS	-46.4 to -49.4	ND 0.2	
	GW-060706-DR-SP6-009	68 to 71 BGS	-56.4 to -59.4	ND 0.2	
	GW-060706-LH-SP6-010	78 to 81 BGS	-66.4 to -69.4	ND 0.2	
	GW-060706-LH-SP6-011	88 to 91 BGS	-76.4 to -79.4	ND 0.2	
	GW-082306-BG-SP6-013	117 to 121 BGS	-105.4 to -109.4	ND 1.0	
	GW-082406-JC-SP6-015	137 to 141 BGS	-125.4 to -129.4	ND 0.2	
	GW-082806-JW-SP6-016	157 to 161 BGS	-145.4 to -149.4	ND 0.2	
	GW-082806-JW-SP6-017	167 to 171 BGS	-155.4 to -159.4	ND 0.2	
GW-082906-JW-SP6-018	177 to 181 BGS	-165.4 to -169.4	ND 0.2		
SP-7	GW-062806-LH-SP7-001	8 to 11 BGS	3.6 to 0.6	ND 0.2	
	GW-062806-LH-SP7-002	18 to 21 BGS	-6.4 to -9.4	ND 0.2	
	GW-062806-LH-SP7-003	23 to 26 BGS	-11.4 to -14.4	ND 0.2	
	GW-062906-LH-SP7-004	33 to 36 BGS	-21.4 to -24.4	ND 0.2	
	GW-062906-LH-SP7-005	43 to 46 BGS	-31.4 to -34.4	ND 0.2	
	GW-063006-LH-SP7-006	48 to 51 BGS	-36.4 to -39.4	ND 1.0	
	GW-070506-DR-SP7-007	58 to 61 BGS	-46.4 to -49.4	ND 1.0	
	GW-070506-DR-SP7-008	68 to 71 BGS	-56.4 to -59.4	ND 1.0	
	GW-070506-DR-SP7-009	78 to 81 BGS	-66.4 to -69.4	ND 1.0	
	GW-070606-DR-SP7-010	88 to 91 BGS	-76.4 to -79.4	ND 1.0	
	GW-083006-JW-SP7-012	107 to 111 BGS	-95.4 to -99.4	ND 1.0	
	GW-083006-JW-SP7-013	117 to 121 BGS	-105.4 to -109.4	ND 1.0	
	GW-083006-JW-SP7-014	127 to 131 BGS	-115.4 to -119.4	ND 1.0	
	GW-083106-JW-SP7-015	137 to 141 BGS	-125.4 to -129.4	ND 0.2	

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
SP-7 (cont)	GW-083106-JW-SP7-016	147 to 151 BGS	-135.4 to -139.4	ND 0.2	
	GW-083106-JW-SP7-017	157 to 161 BGS	-145.4 to -149.4	ND 0.2	
	GW-083106-JW-SP7-018	167 to 171 BGS	-155.4 to -159.4	ND 0.2	
SP-8	GW-071306-LH-SP8-001	10 to 13 BGS	1.6 to -1.4	ND 0.1	
	GW-071306-LH-SP8-002	18 to 21 BGS	-6.4 to -9.4	ND 0.1	
	GW-071306-LH-SP8-003	23 to 26 BGS	-11.4 to -14.4	ND 0.1	
	GW-071406-TR-SP8-004	33 to 36 BGS	-21.4 to -24.4	ND 0.1	
	GW-071406-TR-SP8-005	43 to 46 BGS	-31.4 to -34.4	ND 0.1	
	GW-071406-LH-SP8-006	48 to 51 BGS	-36.4 to -39.4	ND 0.1	
	GW-071706-TR-SP8-007	58 to 61 BGS	-46.4 to -49.4	ND 0.1	
	GW-071706-TR-SP8-008	68 to 71 BGS	-56.4 to -59.4	ND 0.1	
	GW-071706-TR-SP8-009	78 to 81 BGS	-66.4 to -69.4	ND 0.1	
	GW-071806-TR-SP8-010	88 to 91 BGS	-76.4 to -79.4	ND 0.1	
	GW-071806-TR-SP8-011	98 to 101 BGS	-86.4 to -89.4	ND 0.1	
	GW-100306-ILM-SP8-012	104 to 108 BGS	-92.4 to -96.4	ND 0.2	
	GW-071906-LH-SP8-012	108 to 111 BGS	-96.4 to -99.4	ND 0.1	
	GW-072006-LH-SP8-013	112 to 115 BGS	-100.4 to -103.4	ND 1.0	
	GW-100306-ILM-SP8-014	124 to 128 BGS	-112.4 to -116.4	ND 0.2	
	GW-100406-ILM-SP8-015	134 to 138 BGS	-122.4 to -126.4	ND 0.2	
	GW-100506-ILM-SP8-017	154 to 158 BGS	-142.4 to -146.4	ND 0.2	
	GW-100506-ILM-SP8-018				
	GW-100506-ILM-SP8-019	164 to 168 BGS	-152.4 to -156.4	ND 0.2	
<u>Navy-Todd Dump</u>					
NTD1	GW-011007-TS-NTD1-001	23 to 25 BGS	-23 to -25	ND 0.2	
	GW-011007-TS-NTD1-002	43 to 45 BGS	-43 to -45	ND 0.2	
	GW-011107-TS-NTD1-003	73 to 75 BGS	-73 to -75	ND 0.2	
NTD2	GW-121206-ILM-NTD2-003				
	GW-121206-ILM-NTD2-004	23 to 25 BGS	-11.3 to -13.3	ND 0.2	
	GW-121306-ILM-NTD2-006	43 to 45 BGS	-31.3 to -33.3	ND 0.2	
	GW-121406-ILM-NTD2-010	73 to 75 BGS	-61.3 to -63.3	0.66	1.23
<u>EA Borings</u>					
EA-1	GW-092205-EA-1-001	19.5 to 22.5 BGS	-7.8 to -10.8	ND 0.033	
	GW-092205-EA-1-002	24.5 to 27.5 BGS	-12.8 to -15.8	ND 0.033	
	GW-092205-EA-1-003	31.5 to 34.5 BGS	-19.8 to -22.8	ND 0.033	
	GW-092205-EA-1-004	36.5 to 39.5 BGS	-24.8 to -27.8	ND 0.033	
	GW-092305-EA-1-005	41.5 to 44.5 BGS	-29.8 to -32.8	ND 0.033	
	GW-092305-EA-1-006	46.5 to 49.5 BGS	-34.8 to -37.8	ND 0.032	
	GW-092305-EA-1-007	51.5 to 54.5 BGS	-39.8 to -42.8	ND 0.033	
	GW-092305-EA-1-008	56.5 to 59.5 BGS	-44.8 to -47.8	ND 0.033	
	GW-092605-EA-1-009	61.5 to 64.5 BGS	-49.8 to -52.8	ND 0.035	
	GW-092605-EA-1-010	66.5 to 69.5 BGS	-54.8 to -57.8	ND 0.033	
	GW-092705-EA-1-011	71.5 to 74.5 BGS	-59.8 to -62.8	ND 0.033	
	GW-092705-EA-1-012	76.5 to 79.5 BGS	-64.8 to -67.8	ND 0.033	

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
EA-1 (cont)	GW-092705-EA-1-013	81.5 to 84.5 BGS	-69.8 to -72.8	ND 0.033	
	GW-092705-EA-1-014	86.5 to 89.5 BGS	-74.8 to -77.8	ND 0.033	
	GW-092805-EA-1-015	91.5 to 94.5 BGS	-79.8 to -82.8	ND 0.033	
	GW-092805-EA-1-016	96.5 to 99.5 BGS	-84.8 to -87.8	ND 0.034	
	GW-092805-EA-1-017	101.5 to 104.5 BGS	-89.8 to -92.8	ND 0.033	
	GW-100305-EA-1-019	111.5 to 114.5 BGS	-99.8 to -102.8	ND 0.034	
	GW-100305-EA-1-020	116.5 to 119.5 BGS	-104.8 to -107.8	ND 0.035	
	GW-100405-EA-1-022	126.5 to 129.5 BGS	-114.8 to -117.8	ND 0.033	
	GW-100405-EA-1-023				
	GW-100505-EA-1-024	131.5 to 134.5 BGS	-119.8 to -122.8	ND 1.8	
	GW-100505-EA-1-025	136.5 to 139.5 BGS	-124.8 to -127.8	ND 1.8	
	GW-100705-EA-1-028	151.5 to 154.5 BGS	-139.8 to -142.8	ND 0.033	
	EA-2	GW-101005-EA-2-001	15 to 18 BGS	-3.3 to -6.3	ND 0.033
GW-101005-EA-2-002		20 to 23 BGS	-8.3 to -11.3	ND 0.033	
GW-101005-EA-2-003		25 to 28 BGS	-13.3 to -16.3	ND 0.033	
GW-101105-EA-2-004		30 to 33 BGS	-18.3 to -21.3	ND 0.18	
GW-101105-EA-2-005		35 to 38 BGS	-23.3 to -26.3	ND 0.18	
GW-101105-EA-2-006		40 to 43 BGS	-28.3 to -31.3	ND 0.18	
GW-101105-EA-2-007		45 to 48 BGS	-33.3 to -36.3	ND 0.18	
GW-101105-EA-2-008		50 to 53 BGS	-38.3 to -41.3	ND 0.18	
GW-101205-EA-2-009		55 to 58 BGS	-43.3 to -46.3	ND 0.034	
GW-101205-EA-2-010		60 to 63 BGS	-48.3 to -51.3	ND 0.033	
GW-101205-EA-2-011		65 to 68 BGS	-53.3 to -56.3	ND 0.033	
GW-101205-EA-2-012		70 to 73 BGS	-58.3 to -61.3	ND 0.034	
GW-101305-EA-2-013		75 to 78 BGS	-63.3 to -66.3	ND 0.039	
GW-101305-EA-2-014		80 to 83 BGS	-68.3 to -71.3	ND 0.037	
GW-101305-EA-2-015		85 to 88 BGS	-73.3 to -76.3	ND 0.034	
GW-101705-EA-2-018		100 to 103 BGS	-88.3 to -91.3	ND 0.18	
GW-101705-EA-2-020		110 to 113 BGS	-98.3 to -101.3	ND 0.18	
GW-101805-EA-2-021		115 to 118 BGS	-103.3 to -106.3	ND 3.34	
GW-101805-EA-2-022					
GW-101805-EA-2-023		120 to 123 BGS	-108.3 to -111.3	ND 0.18	
GW-101905-EA-2-024		125 to 128 BGS	-113.3 to -116.3	ND 8.9	
GW-101905-EA-2-025		130 to 133 BGS	-118.3 to -121.3	ND 65	
GW-102005-EA-2-026		135 to 138 BGS	-123.3 to -126.3	ND 0.18	
GW-102005-EA-2-027	140 to 143 BGS	-128.3 to -131.3	ND 0.18		
GW-102005-EA-2-028	145 to 148 BGS	-133.3 to -136.3	ND 0.18		
GW-102105-EA-2-029	150 to 153 BGS	-138.3 to -141.3	ND 0.18		
EA-3	GW-102405-EA-3-001	12 to 15 BGS	-0.3 to -3.3	ND 0.2	
	GW-102505-EA-3-002	20 to 23 BGS	-8.3 to -11.3	ND 0.2	
	GW-102505-EA-3-003	25 to 28 BGS	-13.3 to -16.3	ND 0.2	
	GW-102505-EA-3-004	30 to 33 BGS	-18.3 to -21.3	ND 0.2	
	GW-102505-EA-3-005	35 to 38 BGS	-23.3 to -26.3	ND 0.2	
	GW-102505-EA-3-006	40 to 43 BGS	-28.3 to -31.3	ND 0.2	
	GW-102605-EA-3-007	45 to 48 BGS	-33.3 to -36.3	ND 0.2	

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
EA-3 (cont)	GW-102605-EA-3-008	50 to 53 BGS	-38.3 to -41.3	ND 0.2	
	GW-102605-EA-3-009	55 to 58 BGS	-43.3 to -46.3	ND 0.2	
	GW-102605-EA-3-010	60 to 63 BGS	-48.3 to -51.3	ND 0.2	
	GW-102705-EA-3-011	65 to 68 BGS	-53.3 to -56.3	ND 0.2	
	GW-102705-EA-3-012	70 to 73 BGS	-58.3 to -61.3	ND 0.2	
	GW-102705-EA-3-013	75 to 78 BGS	-63.3 to -66.3	ND 0.2	
	GW-102705-EA-3-014	80 to 83 BGS	-68.3 to -71.3	ND 0.2	
	GW-102705-EA-3-015	85 to 88 BGS	-73.3 to -76.3	ND 0.2	
	GW-102805-EA-3-016	90 to 93 BGS	-78.3 to -81.3	ND 0.2	
	GW-102805-EA-3-017				
	GW-102805-EA-3-018	95 to 98 BGS	-83.3 to -86.3	ND 0.2	
	GW-103105-EA-3-019	100 to 103 BGS	-88.3 to -91.3	ND 0.2	
	GW-103105-EA-3-020	105 to 108 BGS	-93.3 to -96.3	ND 0.2	
	GW-110105-DC-EA-3-021	110 to 113 BGS	-98.3 to -101.3	ND 0.2	
	GW-110105-DC-EA-3-022	115 to 118 BGS	-103.3 to -106.3	ND 0.2	
	GW-110205-EA-3-023	120 to 123 BGS	-108.3 to -111.3	ND 0.2	
	GW-110205-EA-3-024	125 to 128 BGS	-113.3 to -116.3	ND 0.2	
	GW-110305-EA-3-025	130 to 133 BGS	-118.3 to -121.3	ND 0.2	
	GW-110305-EA-3-026	135 to 138 BGS	-123.3 to -126.3	ND 0.2	
	GW-110305-EA-3-027	140 to 143 BGS	-128.3 to -131.3	ND 0.2	
	GW-110405-EA-3-028	145 to 148 BGS	-133.3 to -136.3	ND 0.2	
	GW-110405-EA-3-029	150 to 153 BGS	-138.3 to -141.3	ND 0.2	
	GW-110705-EA-3-030	155 to 158 BGS	-143.3 to -146.3	ND 0.2	
<u>N Landfill</u>					
NL-13	GW-122005-NL-13-001	0 to 3 BML	-8.1 to -11.1	ND 0.033	
	GW-122005-NL-13-002	3 to 6 BML	-11.1 to -14.1	ND 0.033	
	GW-122005-NL-13-003	6 to 9 BML	-14.1 to -17.1	ND 0.033	
	GW-122005-NL-13-004	9 to 12 BML	-17.1 to -20.1	ND 0.033	
	GW-122005-NL-13-005	12 to 15 BML	-20.1 to -23.1	ND 0.033	
	GW-122105-NL-13-006	15 to 18 BML	-23.1 to -26.1	ND 0.033	
	GW-122105-NL-13-007				
	GW-122105-NL-13-008	18 to 21 BML	-26.1 to -29.1	ND 0.033	
	GW-122105-NL-13-009	21 to 24 BML	-29.1 to -32.1	ND 0.034	
	GW-122105-NL-13-010	24 to 27 BML	-32.1 to -35.1	ND 0.033	
	GW-122105-NL-13-011	27 to 30 BML	-35.1 to -38.1	ND 0.034	
NL-14	GW-121405-NL-14-001	1 to 4 BML	-11.4 to -14.4	ND 0.033	
	GW-121405-NL-14-002	4 to 7 BML	-14.4 to -17.4	ND 0.034	
	GW-121405-NL-14-003	7 to 10 BML	-17.4 to -20.4	ND 0.034	
	GW-121405-NL-14-004	10 to 13 BML	-20.4 to -23.4	ND 0.034	
	GW-121405-NL-14-005	13 to 16 BML	-23.4 to -26.4	ND 0.033	
	GW-121505-NL-14-006	16 to 19 BML	-26.4 to -29.4	ND 0.033	
	GW-121505-NL-14-007	19 to 22 BML	-29.4 to -32.4	ND 0.034	
	GW-121505-NL-14-008	22 to 25 BML	-32.4 to -35.4	ND 0.033	
	GW-121505-NL-14-009				
	GW-121505-NL-14-010	25 to 28 BML	-35.4 to -38.4	ND 0.033	

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
NL-14 (cont)	GW-121505-NL-14-011	28 to 31 BML	-38.4 to -41.4	ND 0.034	
NL-15	GW-121605-NL-15-001	0 to 3 BML	-8.1 to -11.1	ND 0.033	
	GW-121605-NL-15-002	3 to 6 BML	-11.1 to -14.1	ND 0.033	
	GW-121605-NL-15-003	6 to 9 BML	-14.1 to -17.1	ND 0.033	
	GW-121605-NL-15-004	9 to 12 BML	-17.1 to -20.1	ND 0.033	
	GW-121605-NL-15-005	12 to 15 BML	-20.1 to -23.1	ND 0.034	
	GW-121605-NL-15-006	15 to 18 BML	-23.1 to -26.1	ND 0.034	
	GW-121905-NL-15-007	18 to 21 BML	-26.1 to -29.1	ND 0.033	
	GW-121905-NL-15-008	21 to 24 BML	-29.1 to -32.1	ND 0.033	
	GW-121905-NL-15-009	24 to 27 BML	-32.1 to -35.1	ND 0.033	
	GW-121905-NL-15-010	27 to 30 BML	-35.1 to -38.1	ND 0.033	
NL-24	GW-011207-BS-NL-24-001	1.5 to 4.5 BML	-32.2 to -35.2	ND 0.2	
	GW-011507-BS-NL-24-002	6.5 to 9.5 BML	-37.2 to -40.2	ND 0.2	
	GW-011507-BS-NL-24-003	11.5 to 14.5 BML	-42.2 to -45.2	ND 0.2	
	GW-011507-BS-NL-24-004	16.5 to 19.5 BML	-47.2 to -50.2	ND 0.2	
	GW-011507-BS-NL-24-005	21.5 to 24.5 BML	-52.2 to -55.2	ND 0.2	
NL-25	GW-011807-ILM-NL-25-001	1.5 to 4.5 BML	-35.3 to -38.3	ND 0.2	
	GW-011807-ILM-NL-25-002	6.5 to 9.5 BML	-40.3 to -43.3	ND 0.2	
	GW-011807-ILM-NL-25-003	11.5 to 14.5 BML	-45.3 to -48.3	ND 0.2	
	GW-011807-ILM-NL-25-004	16.5 to 19.5 BML	-50.3 to -53.3	ND 0.2	
	GW-011807-ILM-NL-25-005	21.5 to 24.5 BML	-55.3 to -58.3	ND 0.2	
	GW-011907-ILM-NL-25-006	21.5 to 24.5 BML	-55.3 to -58.3	ND 0.2	
NL-26	GW-011707-ILM-NL-26-001	6.5 to 9.5 BML	-33.2 to -36.2	ND 0.2	
	GW-011707-ILM-NL-26-002	11.5 to 14.5 BML	-38.2 to -41.2	ND 0.2	
	GW-011807-ILM-NL-26-003	16.5 to 19.5 BML	-43.2 to -46.2	ND 0.2	
	GW-011807-ILM-NL-26-004	21.5 to 24.5 BML	-48.2 to -51.2	ND 0.2	
	GW-011807-ILM-NL-26-005	21.5 to 24.5 BML	-48.2 to -51.2	ND 0.2	
NL-28	GW-011607-BS-NL-28-001	1.5 to 3.5 BML	-11.2 to -13.2	ND 0.2	
	GW-011707-BS-NL-28-002	6.5 to 9.5 BML	-16.2 to -19.2	ND 0.2	
	GW-011707-BS-NL-28-003	11.5 to 14.5 BML	-21.2 to -24.2	ND 0.2	
	GW-011707-BS-NL-28-004	16.5 to 19.5 BML	-26.2 to -29.2	ND 0.2	
	GW-011707-BS-NL-28-005	21.5 to 24.5 BML	-31.2 to -34.2	ND 0.2	
NL-29	GW-011807-BS-NL-29-001	1.5 to 4.5 BML	-12.3 to -15.3	ND 0.2	
	GW-011807-BS-NL-29-002	6.5 to 9.5 BML	-17.3 to -20.3	ND 0.2	
	GW-011807-BS-NL-29-003	11.5 to 14.5 BML	-22.3 to -25.3	ND 0.2	
	GW-011807-BS-NL-29-004	16.5 to 19.5 BML	-27.3 to -30.3	ND 0.2	
	GW-011807-BS-NL-29-005	21.5 to 24.5 BML	-32.3 to -35.3	ND 0.2	
NL-30	GW-011907-BS-NL-30-001	1.5 to 4.5 BML	-31.1 to -34.1	ND 0.2	
	GW-011907-BS-NL-30-002	6.5 to 9.5 BML	-36.1 to -39.1	ND 0.2	
	GW-011907-BS-NL-30-003	11.5 to 14.5 BML	-41.1 to -44.1	ND 0.2	

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
NL-30 (cont)	GW-011907-ILM-NL-30-004	16.5 to 19.5 BML	-46.1 to -49.1	ND 0.2	
	GW-011907-ILM-NL-30-005	21.5 to 24.5 BML	-51.1 to -54.1	ND 0.2	
<u>Embankment Seep</u>					
P-A18	P-013007-MM-A18-001 *	--	--		0.0053
<u>Area 5106</u>					
PT-12A	GW-102405-PT-12A-001	68.9 to 71.9 BML	-98.7 to -101.7	ND 0.2	
	GW-102405-PT-12A-002				
	GW-102405-PT-12A-003				
	GW-102405-PT-12A-004				
PT-13A	GW-110905-13A-001	11.8 to 14.8 BML	-38.22 to -41.22		0.052
	GW-110905-PT-13A-002	21.8 to 24.8 BML	-48.22 to -51.22		0.0095
	GW-110905-PT-13A-003	61.9 to 64.9 BML	-88.3 to -91.3	ND 0.033	
	GW-110905-PT-13A-004	71.9 to 74.9 BML	-98.3 to -101.3	ND 0.033	
	GW-111005-PT-13A-005	81.9 to 84.9 BML	-108.3 to -111.3	ND 0.033	
	GW-111005-PT-13A-007	101.9 to 104.9 BML	-128.3 to -131.3	ND 0.033	
	GW-111005-PT-13A-008	111.9 to 114.9 BML	-138.3 to -141.3	ND 0.033	
	GW-111005-PT-13A-009	121.9 to 124.9 BML	-148.3 to -151.3	ND 0.033	
	GW-111005-PT-13A-010	131.9 to 134.9 BML	-158.3 to -161.3	ND 0.033	
	GW-111105-PT-13A-011	141.9 to 144.9 BML	-168.3 to -171.3	ND 0.033	
	PT-15A	GW-110905-NR-PT-15A-001	56 to 57 BML	-100.32 to -101.32	
GW-110905-FD-001					
GW-110905-NR-PT-15A-002		66 to 67 BML	-110.32 to -111.32		0.28
GW-110905-NR-PT-15A-003					
GW111005-PT-15A-004		101 to 104 BML	-120.3 to -123.3	ND 0.033	
GW111005-PT-15A-005		111 to 114 BML	-130.3 to -133.3	ND 0.033	
GW-111105-PT-15A-006		121 to 124 BML	-140.3 to -143.3	ND 0.033	
GW-111105-PT-15A-007		131 to 134 BML	-150.3 to -153.3	ND 0.033	
GW-111405-PT-15A-008		141 to 144 BML	-160.3 to -163.3	ND 0.033	
GW-111405-PT-15A-009		151 to 154 BML	-170.3 to -173.3	ND 0.033	
GW-111505-PT-15A-011		161 to 164 BML	-180.3 to -183.3	ND 0.033	
PT-15B	GW-122006-PT-15B-DR-001	13 to 15 BML	-33.3 to -36.3		0.015
	GW-122006-PT-15B-DR-002	18 to 20 BML	-38.3 to -40.3		0.0094
	GW-122106-PT-15B-DR-003	28 to 30 BML	-48.3 to -50.3		7.74
	GW-122106-PT-15B-DR-004	38 to 40 BML	-58.3 to -60.3		22.21
PT-17A	GW-020107-ILM-PT-17A-001	0.5 to 2.5 BML	-27.82 to -29.82		13.34
	GW-020107-ILM-PT-17A-002	10 to 12 BML	-37.32 to 39.32		0.80
<u>709 / 721 Alexander Ave</u>					
709-MW2-15	WG-072112-DJT-709-MW2-15-226	15 BGS	-2.6	ND 0.010	

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
709-MW4-15	WG-072212-DJT-709-MW4-15-227	15 BGS	-3.4	ND 0.032	
709-MW5-15	WG-072212-DJT-709-MW5-15-228	15 BGS	-3.4	ND 0.35	
709-MW6-15	WG-080912-LP-709-MW6-15-229	15 BGS	-3.4	ND 0.010	0.000021
709-MW6-25	WG-080912-LP-709-MW6-25-229	25 BGS	-13.1	ND 0.10	
709-MW6-50	WG-080912-LP-709-MW6-50-229	50 BGS	-38.2	ND 0.011	
709-MW7-15	WG-072812-PR-709-MW7-15-232	15 BGS	-3.4	ND 0.011	
709-MW8-15	WG-080912-AMK-709-MW8-15-233	15 BGS	-3.4	ND 0.0099	
709-MW9-15	WG-081412-AMK-709-MW9-15-234	15 BGS	-3.4	ND 0.39	0.000994
709-MW9-25	WG-081412-AMK-709-MW9-25-235	25 BGS	-13.2	ND 0.039	
709-MW11-15	WG-072912-ALK-709-MW11-15-236	15 BGS	-3.4	ND 0.15	
709-MW11-25	WG-072912-ALK-709-MW11-25	25 BGS	-14.5	ND 0.058	
709-MW15-15	WG-081512-TS-709MW15-15-238	15 BGS	-3.5	ND 0.0099	0.000080
709-MW15A-50	WG-081412-JN-709-MW15A-50-240	50 BGS	-38.6	ND 0.0099	
709-MW16-15	WG-072712-ALK-709-MW16-15-241	15 BGS	-3.4	ND 0.092	
709-MW16-25	WG-072712-ALK-709-MW16-25-242	25 BGS	-13.8	ND 0.010	
709-MW16-50	WG-072812-ALK-709-MW16-50-243	50 BGS	-38.9	ND 0.010	
709-MW16-75	WG-072812-ALK-709-MW16-75-244	75 BGS	-63.9	ND 0.053	
709-MW17-15	WG-072112-DJT-709-MW17-15-245	15 BGS	-3.4	ND 0.041	
709-MW18-15	WG-072612-PR-709-MW18-15-246	15 BGS	-3.4	ND 0.0098	
709-MW18-25	WG-072612-PR-709-MW18-25-247	25 BGS	-13.6	ND 0.14	
709-MW18-50	WG-072612-PR-709-MW18-50-248	50 BGS	-38.4	ND 0.014	
709-MW19-15	WG-072812-PR-709-MW19-15-249	15 BGS	-3.6	ND 0.056	
709-MW20-15	WG-082112-JN-709-MW20-15-223	15 BGS	-1.6	ND 0.035	0.000041
709-MW20-25	WG-082312-JN-709-MW20-25-224	25 BGS	-11.5	ND 0.0098	0.000044

TABLE 4.20

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
709-MW20-50	WG-082112-JN-709-MW20-50-225	50 BGS	-36.8	ND 0.016	
709-MW20-75	WG-082212-JN-709-MW20-75-250	75 BGS	-61.7	ND 0.018	
709-MW21-15	WG-072712-PR-709-MW21-15-251	15 BGS	-3.2	ND 0.023	
709-MW21-25	WG-072712-PR-709-MW21-25-252	25 BGS	-13.3	ND 0.039	
709-MW21-50	WG-072712-PR-709-MW21-50-253	50 BGS	-38.3	ND 0.058	
721-MW5-15	WG-082512-ALK-721-MW5-15-254	15 BGS	-3.5	ND 0.010	
721-MW5-25	WG-082512-ALK-721-MW5-25-255	25 BGS	-13.5	ND 0.97	
721-MW5-50	WG-082512-JN-721-MW5-50-256	50 BGS	-38.6	ND 0.0099	
721-MW5-75	WG-082512-JN-721-MW5-75-257	75 BGS	-63.6	ND 0.099	
721-MW6-15	WG-072512-DJT-721-MW6-15-258	15 BGS	-3.7	ND 0.046	
721-MW6-25	WG-072512-DJT-721-MW6-25-259	25 BGS	-13.7	ND 0.051	
721-MW6-25	WG-072512-DJT-FD13-310	25 BGS	-13.7	ND 0.045	
721-MW6-50	WG-072512-DJT-721-MW6-50-260	50 BGS	-38.8	ND 0.024	
721-MW7-15	WG-080912-TRH-721-MW7-15-261	15 BGS	-3.8	ND 0.010	0.000044
721-MW9-15	WG-072212-DJT-721-MW9-15-262	15 BGS	-3.6	ND 0.017	0.000779
721-MW9-25	WG-072212-DJT-721-MW9-25-263	25 BGS	-13.6	ND 0.051	0.000008
721-MW9-50	WG-072212-DJT-721-MW9-50-264	50 BGS	-38.6	ND 0.043	
721-MW10-15	WG-080812-TRH-721-MW10-15-265	15 BGS	-4.4	0.021	0.000071
721-MW10-25	WG-080712-TRH-721-MW10-25-266	25 BGS	-14.3	0.094	0.000006
721-MW10-50	WG-080612-TRH-721-MW10-50-267	50 BGS	-39.3	ND 0.010	
721-MW10-50	WG-080612-TRH-721-FD12-309	50 BGS	-39.3	ND 0.010	
721-MW10-75	WG-080712-TRH-721-MW10-75-268	75 BGS	-64.2	ND 0.010	
721-MW11-15	WG-073112-PR-721-MW11-15-269	15 BGS	-3.6	ND 0.11	
721-MW11-25	WG-073112-PR-721-MW11-25-270	25 BGS	-13.6	ND 0.0099	

**SUMMARY OF TOTAL PCB CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg/L)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg/L)</i>
721-MW11-50	WG-080112-PR-721-MW11-50-271	50 BGS	-38.6	ND 0.040	
721-MW11-75	WG-073112-PR-721-MW11-75-272	75 BGS	-63.6	ND 0.011	
721-MW12-15	WG-073012-ALK-721-MW12-15-273	15 BGS	-3.9	ND 0.15	0.000007
721-MW12-25	WG-073012-ALK-721-MW12-25-274	25 BGS	-14	ND 0.010	
721-MW12-50	WG-073012-ALK-721-MW12-50-275	50 BGS	-39	ND 0.010	
721-MW13-15	WG-073112-AK-721-MW13-15-276	15 BGS	-3.9	ND 0.011	0.000006
721-MW13-25	WG-073112-AK-721-MW13-25-277	25 BGS	-14	ND 0.011	
721-MW13-50	WG-073112-AK-721-MW13-50-278	50 BGS	-39.1	ND 0.010	
721-MW14-15	WG-080812-TRH-721-MW14-15-279	15 BGS	-3.7	ND 0.37	
721-MW14-25	WG-080912-TRH-721-MW14-25-279	25 BGS	-13.7	ND 0.010	
721-MW14-50	WG-080912-TRH-721-MW14-50-281	50 BGS	-38.7	ND 0.014	
721-MW15-15	WG-073012-PR-721-MW15-15-282	15 BGS	-3.8	ND 0.10	
721-MW15-25	WG-073012-PR-721-MW15-25-283	25 BGS	-13.8	ND 0.075	
721-MW15-50	WG-073012-PR-721-MW15-50-284	50 BGS	-38.7	ND 0.10	
HC-N11-5	WG-081612-TS-HC-N11-5-505			ND 0.030	
HC-N11-8	WG-081612-TS-HC-N11-8-507			ND 0.010	

Notes:

- (1) Calculated from PCB aroclors measured using Method SW-846 8082.
- (2) Calculated from the concentrations of 32 congeners using the methodology developed by Frame et al (1998), Spongberg (2001) and Woolcott (2004).
- BML Below mudline.
- BGS Below ground surface.
- NGVD National geodetic vertical datum.
- µg/L Micrograms per liter.
- PCB Polychlorinated biphenyl.
- ND Not detected at associated concentration. Concentration shown is the maximum of various non-detect concentrations available for the sample.
- * Indicates samples were not field-filtered.
- Due to the collection point of these samples, depths and elevations are not applicable.
- Exceeds Groundwater Cleanup Level of Total PCBs (0.00017 µg/L).

TABLE 4.21

**SUMMARY OF DIOXIN/FURAN TOXICITY EQUIVALENCY CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Dioxin TEC⁽²⁾ (pg/L)</i>	<i>Furan TEC⁽¹⁾ (pg/L)</i>	<i>Total Dioxin/Furan TEC⁽¹⁾ (pg/L)</i>
<u>Monitoring Wells</u>						
4-25R	GW-011706-TS-4-25R	25 BGS	-13.3	0	0	0
11-25	WG-080612-JN-11-25-018	25 BGS	-12.7	0	0	0
14-25R	GW-122005-14-25R-001	25 BGS	-13.3	0	0	0
	WG-081312-TS-14-25R-029	25 BGS	-13.7	0.621	0.453	1.074
14-50R	GW-122005-14-50R-002	50 BGS	-38.32	0.010	0.011	0.021
	GW-122005-14-50R-003	50 BGS	-38.6	0.55	0	0.55
	WG-081312-TS-14-50R-030	50 BGS	-38.6	0.55	0	0.55
15-50R	WG-081312-PR-15-50R-31	50 BGS	-39.1	0.419	0.03	0.449
15-120	WG-081512-TS-15-120-032	120 BGS	-108.8	0.037	0	0.037
17C-25	WG-080612-AMK-17C-25-033	25 BGS	-13.3	0.002	0	0.002
	WG-080612-AMK-FD02-299	25 BGS	-13.3	0	0	0
17C-50	WG-080612-ALK-17C-50-034	50 BGS	-38.3	0.009	0	0.009
21-25R	GW-011706-TS-21-25R	25 BGS	-13.3	0	14.947	14.947
41C-25	WG-071612-BW-41C-25-067	25 BGS	-14.7	0	0	0
41C-50	WG-071612-BW-41C-50-068	50 BGS	-39.7	0	0	0
53-50	GW-011706-TS-53-50	50 BGS	-38.32	0	0	0
53C-25	WG-072412-AK-53C-25-091	25 BGS	-12.8	0.015	0	0.015
60-50	WG-081512-TS-60-50-099	50 BGS	-38.9	0.022	0	0.022
65-25	WG-081212-ALK-65-25-108	25 BGS	-13.6	0	0	0
65-50	WG-081212-ALK-65-50-109	50 BGS	-38.5	0	0	0
67-25	WG-072612-AMK-67-25-112	25 BGS	-13.7	0	0	0
67-50	WG-072612-AMK-67-50-113	50 BGS	-38.6	0	0	0
	WG-072612-AMK-FD08-305	50 BGS	-38.6	0	0.092	0.092
69-25	WG-072712-AMK-69-25-114	25 BGS	-14.6	0	0	0
70-25	WG-082612-AMK-70-25-115	25 BGS	-14.5	0	0	0
71-25	WG-072712-AMK-71-25-116	25 BGS	-14.2	0	0.063	0.063
71-50	WG-072712-AMK-71-50-117	50 BGS	-39.3	0.021	0	0.021
80-25	WG-072712-AMK-80-25-138	25 BGS	-13.7	0	0	0
82-100	WG-072912-PR-82-100-140	100 BGS	-89.8	0	0	0
83C-25	WG-072512-AK-83C-25-141	25 BGS	-13.5	0	0	0
83C-50	WG-072512-AK-83C-50-142	50 BGS	-38.5	0	0	0

TABLE 4.21

**SUMMARY OF DIOXIN/FURAN TOXICITY EQUIVALENCY CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Dioxin TEC⁽²⁾ (pg/L)</i>	<i>Furan TEC⁽¹⁾ (pg/L)</i>	<i>Total Dioxin/Furan TEC⁽¹⁾ (pg/L)</i>
90C-25	WG-072312-AK-90C-25-183	25 BGS	-13.4	0	0	0
90C-100	WG-072312-AK-90C-100-186	100 BGS	-88.4	0	0	0
90C-75	WG-072312-PR-90C-75-185	75 BGS	-63.4	0	0	0
90C-50	WG-072312-AK-90C-50-184	50 BGS	-38.4	0	0	0
90C-50	WG-072312-AK-FD15-312	50 BGS	-38.4	0	0	0
PZ-SHI-2-75	WG-082512-AMK-PZ-SHI-2-75-291	75 BGS	-79.2	0.821	0.309	1.13
PZ-SHI-2-100	WG-082512-LP-PZ-SHI-2-100-292	100 BGS	-105.9	0.028	2.847	2.875
PZ-SHI-3-75	WG-082512-AMK-PZ-SHI-3-75-293	75 BGS	-88.3	0.008	0	0.008
T3-50	WG-072912-PR-T3-50-294	50 BGS	-39.3	0	0	0
T6-60	WG-082412-LP-T6-60-296	60 BGS	-49.2	0.047	0	0.047
<u>Extraction Well Branches</u>						
EWB-A	GW-013007-MM-EWB-A-001	--	--	0	0	0
EWB-A	GW-013007-MM-EWB-A-002*	--	--	0.019	0	0.019
EWB-B	GW-013007-MM-EWB-B-001	--	--	0	0	0
EWB-B	GW-013007-MM-EWB-B-002*	--	--	0	0	0
EWB-C	GW-013007-MM-EWB-C-001	--	--	0	0	0
EWB-C	GW-013007-MM-EWB-C-002*	--	--	0	0	0
EWB-D	GW-013007-MM-EWB-D-001	--	--	0	0	0
EWB-D	GW-013007-MM-EWB-D-002*	--	--	0	0	0
<u>Hylebos Waterway</u>						
HW-1	GW-012407-BS-HW-1-001 GW-012407-BS-HW-1-002	0.5 to 2.5 BML	-49.12 to -51.12	0	0.320	0.320
HW-2	GW-012507-BS-HW-2-001	2.5 to 4.5 BML	-50.72 to -52.72	0	0	0
HW-3	GW-012207-BS-HW3-001	9 to 11 BML	-52.12 to -54.12	0	0	0
HW-4	GW-012307-BS-HW-4-001	9 to 11 BML	-51.32 to -53.32	0	0.508	0.508
<u>Navy-Todd Dump</u>						
NTD-2	GW-121406-ILM-NTD2-010	73 to 75 BGS	-61.3 to -63.3	0.338	6.206	6.543
<u>Embankment Seeps</u>						
P-A18	P-013007-MM-A18-001	--	--	0	0	0
<u>Area 5106</u>						
PT-13A	GW-110905-13A-001	11.8 to 14.8 BML	-38.22 to -41.22	0	0	0
PT-13A	GW-110905-PT-13A-002	21.8 to 24.8 BML	-48.22 to -51.22	0	0	0

TABLE 4.21

**SUMMARY OF DIOXIN/FURAN TOXICITY EQUIVALENCY CONCENTRATIONS - GROUNDWATER
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Dioxin TEC⁽²⁾ (pg/L)</i>	<i>Furan TEC⁽²⁾ (pg/L)</i>	<i>Total Dioxin/Furan TEC⁽²⁾ (pg/L)</i>
PT-15A	GW-110905-NR-PT-15A-001 GW-110905-FD-001	56 to 57 BML	-100.32 to -101.32	0.316	73.949	74.265
PT-15A	GW-110905-NR-PT-15A-002 GW-110905-NR-PT-15A-003	66 to 67 BML	-110.32 to -111.32	0.013	13.790	13.803
PT-15B	GW-122006-PT-15B-DR-001	13 to 15 BML	-33.3 to -36.3	0	0.141	0.141
PT-15B	GW-122006-PT-15B-DR-002	18 to 20 BML	-38.3 to -40.3	0	0.111	0.111
PT-15B	GW-122106-PT-15B-DR-003	28 to 30 BML	-48.3 to -50.3	0.440	144.284	144.724
PT-15B	GW-122106-PT-15B-DR-004	38 to 40 BML	-58.3 to -60.3	0.700	216.708	217.408
PT-17A	GW-020107-ILM-PT-17A-001	0.5 to 2.5 BML	-27.82 to -29.82	0.666	566.311	566.977
PT-17A	GW-020107-ILM-PT-17A-002	10 to 12 BML	-37.32 to 39.32	0.248	32.970	33.218
<u>709/721 Alexander Ave</u>						
709-MW20-25	WG-082312-JN-709-MW20-25-224	25 BGS	-11.5	0.018	0	0.018
709-MW20-50	WG-082112-JN-709-MW20-50-225	50 BGS	-36.8	0.051	0	0.051
721-MW9-25	WG-072212-DJT-721-MW9-25-263	25 BGS	13.6	0.015	0	0.015
721-MW9-50	WG-072212-DJT-721-MW9-50-264	50 BGS	-38.6	0	0	0

Notes:

⁽¹⁾ See Appendix U for TEC calculations.

BGS Below mudline.

BML Below ground surface.

NGVD National geodetic vertical datum.

pg/L Picograms per liter.

TEC Toxicity Equivalency Concentration.

* Indicates samples were not field-filtered.

-- Due to the collection point of these samples, depths and elevations are not applicable.

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	3-25	3-50	5-25	5-50	5-75	5-75		
Sample ID:	WG-082812-JN-3-25-001	GW-070609-TG-MW3-GW	WG-080812-LP-5-25-004	WG-080812-LP-5-50-005	WG-082412-JN-5-75-006	WG-082412-JN-FD07-304		
Sample Date:	8/28/2012	7/6/2009	8/8/2012	8/8/2012	8/24/2012	8/24/2012		
Sample Depth:	25 ft BGS	50 ft bgs	25 ft BGS	50 ft BGS	75 ft BGS	75 ft BGS		
elev_MLLW	-6.05	-31.07	-7.03	-32.02	-56.97	-56.97		
elev_NGVD	-12.4	-37.4	-13.4	-38.3	-63.3	-63.3		
						(Duplicate)		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	-	3.7	-	-		
Chromium (dissolved)	µg/L	50	-	49	-	-		
Copper (dissolved)	µg/L	2.4	-	8.1	-	-		
Lead (dissolved)	µg/L	8.1	-	1.1 U	-	-		
Mercury (dissolved)	µg/L	0.025	-	1.5	-	-		
Nickel (dissolved)	µg/L	8.2	-	9	-	-		
Thallium (dissolved)	µg/L	0.47	-	1.5	-	-		
Zinc (dissolved)	µg/L	81	-	25	-	-		
Metals~Total								
Arsenic	µg/L	0.14	208	-	5.68	3.88 J	1.80	1.70
Chromium	µg/L	50	2.49 J	-	0.65 J	68.2	16.7	16.3
Copper	µg/L	2.4	1.08	-	3.35	9.40	0.49 J	0.67 J
Lead	µg/L	8.1	2.070	-	1.260	1.890	0.200 U	0.200 U
Mercury	µg/L	0.025	0.20 U	-	0.02 J	0.20 U	0.80 U	0.80 U
Nickel	µg/L	8.2	48.8	-	0.96 J	11.4	2.00 U	2.00 U
Thallium	µg/L	0.47	0.200 U	-	0.200 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	5.90	-	3.66 J	9.52	5.00 U	5.00 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5-100	6A-50	6A-100	7-25	7-100
Sample ID:	WG-080812-AMK-5-100-007	WG-080812-JN-6A-50-009	WG-080812-JN-6A-100-010	WG-080812-AMK-7-25-011	WG-080812-AMK-7-100-012
Sample Date:	8/8/2012	8/8/2012	8/8/2012	8/8/2012	8/8/2012
Sample Depth:	100 ft BGS	50 ft BGS	100 ft BGS	25 ft BGS	100 ft BGS
elev_MLLW	-81.99	-31.46	-81.57	-5.73	-80.85
elev_NGVD	-88.3	-37.8	-87.9	-12	-87.2

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-

Metals~Total

Arsenic	µg/L	0.14	2.74 J	6.40	2.85 J	5.84	2.93 J
Chromium	µg/L	50	5.50	87.3	1.25 J	17.7	4.39
Copper	µg/L	2.4	9.97	17.7	0.33 J	24.7	2.70
Lead	µg/L	8.1	2.630	0.245	0.037 J	1.900	0.329
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.03 J	0.20 U
Nickel	µg/L	8.2	4.08	31.1	0.44 J	7.75	1.60 J
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	16.2	5.00 U	5.00 U	7.90	3.02 J

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	7-181	8-23	9-25	9-50	9-100	10-24
Sample ID:	WG-080812-LP-7-181-013	WG-081112-JN-8-23-014	WG-080812-AMK-9-25-015	WG-080712-AMK-9-50-016	WG-080712-AMK-9-100-017	WG-082112-AMK-10-24-503
Sample Date:	8/8/2012	8/11/2012	8/8/2012	8/7/2012	8/7/2012	8/21/2012
Sample Depth:	181 ft BGS	23 ft BGS	25 ft BGS	50 ft BGS	100 ft BGS	24 ft BGS
elev_MLLW	-161.7	-4.87	-6.73	-31.53	-81.57	-7.78
elev_NGVD	-168	-11.2	-13	-37.8	-87.9	-14.1

Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-	
Chromium (dissolved)	µg/L	50	-	-	-	-	-	
Copper (dissolved)	µg/L	2.4	-	-	-	-	-	
Lead (dissolved)	µg/L	8.1	-	-	-	-	-	
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-	
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-	
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-	
Zinc (dissolved)	µg/L	81	-	-	-	-	-	
Metals~Total								
Arsenic	µg/L	0.14	4.05 J	1.00 U	2.01 J	1.94 J	4.04 J	6.28
Chromium	µg/L	50	54.0	5.16	19.4	47.5	18.4	2.54
Copper	µg/L	2.4	15.2	13.0	159	31.0	5.84	4.22
Lead	µg/L	8.1	0.383	0.850	5.450	1.470	0.200 J	0.515
Mercury	µg/L	0.025	0.02 J	0.20 U	0.20 U	0.07 J	0.04 J	0.20 U
Nickel	µg/L	8.2	26.0	0.85 J	7.23	4.99	9.88	8.53
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	3.44 J	2.55 J	52.2	4.32 J	5.00 U	6.68

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		10-50	10-100	11-25	11-45	11-45	11-75	
<i>Sample ID:</i>		WG-082012-TS-10-50-601	WG-082012-TS-10-100-602	WG-080612-JN-11-25-018	WG-080712-ALK-11-45-019	WG-080712-ALK-FD01-298	WG-080712-JN-11-75-020	
<i>Sample Date:</i>		8/20/2012	8/20/2012	8/6/2012	8/7/2012	8/7/2012	8/7/2012	
<i>Sample Depth:</i>		50 ft BGS	100 ft BGS	25 ft BGS	45 ft BGS	45 ft BGS	75 ft BGS	
<i>elev_MLLW</i>		-33.58	-83.38	-6.36	-26.44	-26.44	-56.43	
<i>elev_NGVD</i>		-39.9	-89.7	-12.7	-32.8	-32.8	-62.8	
						(Duplicate)		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Metals~Dissolved</i>								
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-	
Chromium (dissolved)	µg/L	50	-	-	-	-	-	
Copper (dissolved)	µg/L	2.4	-	-	-	-	-	
Lead (dissolved)	µg/L	8.1	-	-	-	-	-	
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-	
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-	
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-	
Zinc (dissolved)	µg/L	81	-	-	-	-	-	
<i>Metals~Total</i>								
Arsenic	µg/L	0.14	2.11	1.45	1.48	0.98 J	0.89 J	2.52 J
Chromium	µg/L	50	0.88 J	1.95 J	4.57	3.53	3.22	14.2
Copper	µg/L	2.4	0.23 J	1.02	8.23	1.22	0.87 J	6.46
Lead	µg/L	8.1	0.302	0.275	0.649	0.053 J	0.090 J	0.155 J
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.04 J	0.03 J	0.04 J
Nickel	µg/L	8.2	0.62 J	1.31 J	2.96	4.35	4.29	242
Thallium	µg/L	0.47	0.0512 J	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	5.00 U	10.6	5.00 U	0.84 J	5.00 U	3.01 J

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	11-100	11-183	12-25	12-75	12-100
Sample ID:	WG-080712-ALK-11-100-021	WG-080712-JN-11-183-022	WG-082412-AMK-12-25-023	WG-082412-LP-12-75-024	WG-082412-AMK-12-100-025
Sample Date:	8/7/2012	8/7/2012	8/24/2012	8/24/2012	8/24/2012
Sample Depth:	100 ft BGS	183 ft BGS	25 ft BGS	75 ft BGS	100 ft BGS
elev_MLLW	-81.36	-164.33	-8.23	-58.16	-84.46
elev_NGVD	-87.7	-170.6	-14.6	-64.5	-90.8

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-
Metals~Total							
Arsenic	µg/L	0.14	15.5	2.59 J	0.20 J	3.38	1.38
Chromium	µg/L	50	16.5	0.99 J	2.00 U	9.60	2.00 U
Copper	µg/L	2.4	13.4	3.51	4.28	1.21	1.00 U
Lead	µg/L	8.1	88.0	1.090	0.768	0.200 U	0.200 U
Mercury	µg/L	0.025	0.03 J	0.04 J	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	14.3	0.84 J	2.55	200	2.00 U
Thallium	µg/L	0.47	1.000 U	0.200 U	0.0046 J	0.200 U	0.200 U
Zinc	µg/L	81	26.6	15.0	43.2	4.68 J	3.49 J

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	12-160	12A-25	12A-50	14-25R	14-50R
Sample ID:	WG-082412-LP-12-160-026	WG-082112-AMK-12A-25-027	WG-082112-AMK-12A-50-028	WG-081312-TS-14-25R-029	WG-081312-TS-14-50R-030
Sample Date:	8/24/2012	8/21/2012	8/21/2012	8/13/2012	8/13/2012
Sample Depth:	160 ft BGS	25 ft BGS	50 ft BGS	25 ft BGS	50 ft BGS
elev_MLLW	-143.04	-6.1	-30.88	-7.39	-32.25
elev_NGVD	-149.4	-12.4	-37.2	-13.7	-38.6

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-
Metals~Total							
Arsenic	µg/L	0.14	0.92 J	0.35 J	0.31 J	3.19	4.22
Chromium	µg/L	50	2.00 U	0.59 J	4.44	5.85	13.1
Copper	µg/L	2.4	1.00 U	0.29 J	1.18	1.75	2.41
Lead	µg/L	8.1	0.200 U	0.123 J	0.072 J	1.290	5.450
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	2.00 U	0.16 J	0.84 J	1.19 J	6.82
Thallium	µg/L	0.47	0.200 U	0.200 U	0.0153 J	0.200 U	0.200 U
Zinc	µg/L	81	4.40 J	5.00 U	5.00 U	3.67 J	8.04

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	15-50R	15-120	16-25	16-50	17-24	17-50R	17-50
Sample ID:	WG-081312-PR-15-50R-31	WG-081512-TS-15-120-032	GW-16-25-TR-0704	GW-16-50-TR-0704	GW-17-24-TR-0704	GW-17-50R-TR-0704	GW-070609-TG-MW17-50-GW
Sample Date:	8/13/2012	8/15/2012	7/5/2004	7/5/2004	7/20/2004	7/5/2004	7/6/2009
Sample Depth:	50 ft BGS	120 ft BGS	25 ft bgs	50 ft bgs	24 ft bgs	50 ft bgs	50 ft bgs
elev_MLLW	-32.77	-102.43	-6.93	-31.86	-6.36	-32.32	-32.32
elev_NGVD	-39.1	-108.8	-13.2	-38.2	-12.7	-38.6	-38.6

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	-	-	8.8	4.5	-	2.4	3.6
Chromium (dissolved)	µg/L	50	-	-	0.87	39.0	-	49.5	120
Copper (dissolved)	µg/L	2.4	-	-	1.9	13.3	-	8.8	40
Lead (dissolved)	µg/L	8.1	-	-	0.70	0.80 U	-	0.68	1.3
Mercury (dissolved)	µg/L	0.025	-	-	0.041 U	0.041 U	-	0.041 U	0.82
Nickel (dissolved)	µg/L	8.2	-	-	0.99	22.4	-	100 U	29
Thallium (dissolved)	µg/L	0.47	-	-	0.18	0.80 U	-	0.80 U	1.3
Zinc (dissolved)	µg/L	81	-	-	22.0	21.3	-	24.9	92

Metals~Total

Arsenic	µg/L	0.14	6.61	129	9.6	3.9	1 U	33.0	-
Chromium	µg/L	50	335	87.7	25 U	14.3	7.2	32.4	-
Copper	µg/L	2.4	2.24	5.00 U	1.9	705	7.6	7.5	-
Lead	µg/L	8.1	0.249 J	2.290	0.80 U	6.4	0.80 U	0.87	-
Mercury	µg/L	0.025	0.11 J	0.12 J	0.041 U	0.041 U	0.041 U	0.041 U	-
Nickel	µg/L	8.2	34.5	104	25 U	48.5	22.8	34.1	-
Thallium	µg/L	0.47	0.104 J	1.0000 U	0.80 U	0.80 U	0.24	0.80 U	-
Zinc	µg/L	81	3.78 J	78.9	24.6	65.4	23.1	15.3	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		17C-25	17C-25	17C-50	17C-75	17C-100
<i>Sample ID:</i>		WG-080612-AMK-17C-25-033	WG-080612-AMK-FD02-299	WG-080612-ALK-17C-50-034	WG-080612-AMK-17C-75-035	WG-080712-AMK-17C-100-036
<i>Sample Date:</i>		8/6/2012	8/6/2012	8/6/2012	8/6/2012	8/7/2012
<i>Sample Depth:</i>		25 ft BGS	25 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS
<i>elev_MLLW</i>		-7.01	-7.01	-32.01	-57.01	-82.01
<i>elev_NGVD</i>		-13.3	-13.3	-38.3	-63.3	-88.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Metals~Dissolved</i>						
Arsenic (dissolved)	µg/L	0.14	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-
<i>Metals~Total</i>						
Arsenic	µg/L	0.14	7.57	6.81 J	4.44	3.49 J
Chromium	µg/L	50	4.46	6.56	14.9	5.75
Copper	µg/L	2.4	1.00 U	0.42 J	1.00 U	1.00 U
Lead	µg/L	8.1	0.061 J	0.078 J	0.026 J	0.200 U
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	1.54 J	1.73 J	3.54	0.77 J
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	5.00 U	5.00 UJ	7.61	25.4 J

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	17C-130	17C-160	18-25	18-50R	19-50
Sample ID:	WG-080612-ALK-17C-130-037	WG-080712-AMK-17C-160-038	WG-081312-JN-18-25-039	WG-081512-TS-18-50R-040	GW-070609-TG-MW19-GW
Sample Date:	8/6/2012	8/7/2012	8/13/2012	8/15/2012	7/6/2009
Sample Depth:	130 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS	50 ft bgs
elev_MLLW	-112.01	-142.01	-6.74	-31.75	-32.5
elev_NGVD	-118.3	-148.3	-13.1	-38.1	-38.8

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	-	-	-	-	7.7
Chromium (dissolved)	µg/L	50	-	-	-	-	35
Copper (dissolved)	µg/L	2.4	-	-	-	-	5.6
Lead (dissolved)	µg/L	8.1	-	-	-	-	1.1 U
Mercury (dissolved)	µg/L	0.025	-	-	-	-	0.5 U
Nickel (dissolved)	µg/L	8.2	-	-	-	-	15
Thallium (dissolved)	µg/L	0.47	-	-	-	-	0.69
Zinc (dissolved)	µg/L	81	-	-	-	-	350

Metals~Total

Arsenic	µg/L	0.14	0.92 J	2.09 J	5.32	9.00	-
Chromium	µg/L	50	0.32 J	2.00 U	26.2	199	-
Copper	µg/L	2.4	0.26 J	1.00 U	164	18.1	-
Lead	µg/L	8.1	0.122 J	0.200 U	11.4	0.951	-
Mercury	µg/L	0.025	0.20 U	0.02 J	0.80 U	0.80 U	-
Nickel	µg/L	8.2	0.53 J	0.65 J	13.7	42.7	-
Thallium	µg/L	0.47	0.200 U	0.200 U	0.0847 J	0.0642 J	-
Zinc	µg/L	81	473	320	27.0	33.6	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	21C-25	21C-50	21C-50	21C-75	21C-100		
Sample ID:	WG-072512-AMK-21C-25-041	WG-072512-AMK-21C-50-042	WG-072512-AMK-FD317-314	WG-072512-AMK-21C-75-043	WG-072512-AMK-21C-100-044		
Sample Date:	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012		
Sample Depth:	25 ft BGS	50 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS		
elev_MLLW	-5.75	-30.75	-30.75	-55.75	-80.75		
elev_NGVD	-12.1	-37.1	-37.1	-62.1	-87.1		
			(Duplicate)				
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-		
Chromium (dissolved)	µg/L	50	-	-	-		
Copper (dissolved)	µg/L	2.4	-	-	-		
Lead (dissolved)	µg/L	8.1	-	-	-		
Mercury (dissolved)	µg/L	0.025	-	-	-		
Nickel (dissolved)	µg/L	8.2	-	-	-		
Thallium (dissolved)	µg/L	0.47	-	-	-		
Zinc (dissolved)	µg/L	81	-	-	-		
Metals~Total							
Arsenic	µg/L	0.14	0.99 J	1.76	1.88	4.22	36.5
Chromium	µg/L	50	2.02 J	3.00 J	3.15	5.47 J	207 J
Copper	µg/L	2.4	4.85	0.58 J	0.34 J	0.29 J	8.91
Lead	µg/L	8.1	0.547	0.065 J	0.120 J	0.200 U	0.642
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U	0.38 J
Nickel	µg/L	8.2	1.29 J	1.46 J	1.22 J	1.40 J	82.0
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U	0.400 U
Zinc	µg/L	81	5.00 U	5.00 U	1.83 J	5.00 U	14.1

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	21C-130	21C-160	22-50	23-25R	24-15
Sample ID:	WG-072512-AMK-21C-130-045	WG-072512-AMK-21C-160-046	WG-081712-TS-22-50-048	WG-081712-TS-23-25R-049	WG-081512-AMK-24-15-502
Sample Date:	7/25/2012	7/25/2012	8/17/2012	8/17/2012	8/15/2012
Sample Depth:	130 ft BGS	160 ft BGS	50 ft BGS	25 ft BGS	15 ft BGS
elev_MLLW	-110.75	-140.75	-31.57	-6.45	3.19
elev_NGVD	-117.1	-147.1	-37.9	-12.8	-3.1

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-
Metals~Total							
Arsenic	µg/L	0.14	2.44	5.71	1.59	3.33	1.56
Chromium	µg/L	50	7.02 J	29.5 J	9.25	64.5	2.00 U
Copper	µg/L	2.4	3.82	18.8	1.43	138	2.26
Lead	µg/L	8.1	0.625	2.500	0.181 J	9.130	0.590
Mercury	µg/L	0.025	0.20 U	0.02 J	0.02 J	0.08 J	0.02 J
Nickel	µg/L	8.2	4.39	24.2	2.93	10.8	2.00 U
Thallium	µg/L	0.47	0.200 U	0.200 U	0.0233 J	0.0243 J	0.200 U
Zinc	µg/L	81	10.0	50.2	3.17 J	15.9	5.00 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	24-35		24-50		25-50		32-50R		34-25R		
<i>Sample ID:</i>	WG-081512-AMK-24-35-501		WG-081512-AMK-24-50-500		GW-070609-TG-MW25-GW		WG-082412-JN-32-50R-051		WG-082012-AMK-34-25R-052		
<i>Sample Date:</i>	8/15/2012		8/15/2012		7/6/2009		8/24/2012		8/20/2012		
<i>Sample Depth:</i>	35 ft BGS		50 ft BGS		50 ft bgs		50 ft BGS		25 ft BGS		
<i>elev_MLLW</i>	-16.5		-31.59		-32.01		-31.44		-6.86		
<i>elev_NGVD</i>	-22.8		-37.9		-38.3		-37.8		-13.2		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>								
<i>Metals~Dissolved</i>											
Arsenic (dissolved)	µg/L	0.14	-	-	2	-	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	27	-	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	22	-	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	1.6	-	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	2.1	-	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	7.6	-	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	0.2	-	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	23 U	-	-	-	-	-	-
<i>Metals~Total</i>											
Arsenic	µg/L	0.14	0.82 J	0.95 J	-	0.26 J	1.26	-	-	-	-
Chromium	µg/L	50	2.05	2.00 U	-	2.00 U	3.22	-	-	-	-
Copper	µg/L	2.4	19.2	3.90	-	2.44	0.77 J	-	-	-	-
Lead	µg/L	8.1	7.070	1.620	-	0.635	0.623	-	-	-	-
Mercury	µg/L	0.025	0.02 J	0.20 U	-	0.20 U	0.20 U	-	-	-	-
Nickel	µg/L	8.2	2.00 U	2.00 U	-	2.00 U	4.40	-	-	-	-
Thallium	µg/L	0.47	0.0205 J	0.0119 J	-	0.0241 J	0.541	-	-	-	-
Zinc	µg/L	81	24.3	5.00 U	-	6.51	5.00 U	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	34-50R	34-75	34C-100	34C-130	34C-160
Sample ID:	WG-082012-AMK-34-50R-053	WG-082012-AMK-34-75-054	WG-082112-AMK-34C-100-055	WG-082012-AMK-34C-130-056	WG-082012-AMK-34C-160-057
Sample Date:	8/20/2012	8/20/2012	8/21/2012	8/20/2012	8/20/2012
Sample Depth:	50 ft BGS	75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS
elev_MLLW	-31.85	-56.81	-81.88	-111.88	-141.88
elev_NGVD	-38.2	-63.1	-88.2	-118.2	-148.2

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-

Metals~Total

Arsenic	µg/L	0.14	1.00 U	3.67	2.21	2.92	3.81
Chromium	µg/L	50	8.50	57.7	1.47 J	8.75	14.1
Copper	µg/L	2.4	2.25	8.28	1.00 U	6.51	16.1
Lead	µg/L	8.1	0.640	1.380	0.053 J	1.500	2.720
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	30.3	92.6	0.37 J	3.01	6.87
Thallium	µg/L	0.47	0.489	0.523	0.0227 J	0.534	0.519
Zinc	µg/L	81	5.00 U	11.2	5.00 U	11.2	29.8

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	35-25	35-25	35-100R	36-25	36-50	36-100R		
Sample ID:	WG-081512-JN-35-25-058	WG-081512-JN-FD04-301	WG-081512-JN-35-100R-059	WG-080112-AK-36-25-060	WG-080112-AK-36-50-061	WG-080112-AK-36-100R-062		
Sample Date:	8/15/2012	8/15/2012	8/15/2012	8/1/2012	8/1/2012	8/1/2012		
Sample Depth:	25 ft BGS	25 ft BGS	100 ft BGS	25 ft BGS	50 ft BGS	100 ft BGS		
elev_MLLW	-6.79	-6.79	-81.7	-7.66	-32.6	-82.61		
elev_NGVD	-13.1	-13.1	-88	-14	-38.9	-88.9		
		(Duplicate)						
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	-	-	-	-		
Chromium (dissolved)	µg/L	50	-	-	-	-		
Copper (dissolved)	µg/L	2.4	-	-	-	-		
Lead (dissolved)	µg/L	8.1	-	-	-	-		
Mercury (dissolved)	µg/L	0.025	-	-	-	-		
Nickel (dissolved)	µg/L	8.2	-	-	-	-		
Thallium (dissolved)	µg/L	0.47	-	-	-	-		
Zinc (dissolved)	µg/L	81	-	-	-	-		
Metals~Total								
Arsenic	µg/L	0.14	0.39 J	1.00 U	1.88	0.46 J	0.37 J	0.56 J
Chromium	µg/L	50	2.00 U	2.00 U	6.81	3.78	2.90	4.97
Copper	µg/L	2.4	1.00 U	1.00 U	1.51	7.22	7.10	4.88
Lead	µg/L	8.1	0.238 J	0.106 J	0.302	6.130	3.500	8.470
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	0.15 J	0.17 J	7.46	2.19	2.08	2.76
Thallium	µg/L	0.47	0.120 J	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	2.44 J	0.98 J	2.77 J	65.3	99.3	38.6

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	40-25	40-50	40-75	40-100R	41C-25
Sample ID:	WG-082112-PR-40-25-063	WG-082112-PR-40-50-064	WG-082112-PR-40-75-065	WG-082112-PR-40-100R-066	WG-071612-BW-41C-25-067
Sample Date:	8/21/2012	8/21/2012	8/21/2012	8/21/2012	7/16/2012
Sample Depth:	25 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS	25 ft BGS
elev_MLLW	-6.28	-31.22	-56.19	-81.06	-8.39
elev_NGVD	-12.6	-37.5	-62.5	-87.4	-14.7

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-

Metals~Total

Arsenic	µg/L	0.14	1.00 U	1.78	4.53	2.40	0.47 J
Chromium	µg/L	50	0.61 J	2.12	21.9	122	2.00 U
Copper	µg/L	2.4	0.25 J	0.53 J	5.03	4.82	1.00 U
Lead	µg/L	8.1	0.072 J	0.050 J	0.312	0.306	0.054 J
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	0.32 J	0.90 J	31.2	48.5	2.00 U
Thallium	µg/L	0.47	0.200 U	0.0231 J	0.0146 J	0.0108 J	0.200 U
Zinc	µg/L	81	5.00 U	5.00 U	5.00 U	27.9	5.00 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	41C-50	41C-75	41C-100	41C-130	41C-130		
Sample ID:	WG-071612-BW-41C-50-068	WG-071612-BW-41C-75-069	WG-071612-BW-41C-100-500	WG-082912-JN-41C-130-071	WG-082912-JN-FD06-303		
Sample Date:	7/16/2012	7/16/2012	7/16/2012	8/29/2012	8/29/2012		
Sample Depth:	50 ft BGS	75 ft BGS	100 ft BGS	130 ft BGS	130 ft BGS		
elev_MLLW	-33.39	-58.39	-83.39	-113.39	-113.39		
elev_NGVD	-39.7	-64.7	-89.7	-119.7	-119.7		
					(Duplicate)		
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-		
Chromium (dissolved)	µg/L	50	-	-	-		
Copper (dissolved)	µg/L	2.4	-	-	-		
Lead (dissolved)	µg/L	8.1	-	-	-		
Mercury (dissolved)	µg/L	0.025	-	-	-		
Nickel (dissolved)	µg/L	8.2	-	-	-		
Thallium (dissolved)	µg/L	0.47	-	-	-		
Zinc (dissolved)	µg/L	81	-	-	-		
Metals~Total							
Arsenic	µg/L	0.14	3.17	5.28	7.78	3.10	2.96
Chromium	µg/L	50	5.24	20.5	60.8	2.70	2.71
Copper	µg/L	2.4	1.50	8.81	19.7	1.00 U	1.14
Lead	µg/L	8.1	1.830	5.680	10.3	0.200 J	0.140 J
Mercury	µg/L	0.025	0.20 U	0.20 U	0.03 J	0.20 U	0.20 U
Nickel	µg/L	8.2	1.75 J	8.04	22.4	0.35 J	0.32 J
Thallium	µg/L	0.47	0.200 U	0.200 U	0.0487 J	0.400 U	0.400 U
Zinc	µg/L	81	18.6	31.2	57.3	5.00 U	2.27 J

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	41C-160	42-25	42-50	43-50	44-25
Sample ID:	WG-071712-BW-41C-160-072	WG-081012-LP-42-25-074	WG-081012-LP-42-50-075	WG-082812-ALK-43-50-076	WG-081012-ALK-44-25-077
Sample Date:	7/17/2012	8/10/2012	8/10/2012	8/28/2012	8/10/2012
Sample Depth:	160 ft BGS	25 ft BGS	50 ft BGS	50 ft BGS	25 ft BGS
elev_MLLW	-143.39	-6.78	-31.78	-32.14	-6.92
elev_NGVD	-149.7	-13.1	-38.1	-38.5	-13.2

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	41C-160	42-25	42-50	43-50	44-25
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-	-

Metals~Total

Parameter	Units	CSI	WG	41C-160	42-25	42-50	43-50	44-25
Arsenic	µg/L	0.14	1.00 U	5.21	10.9	1.81	0.59 J	1.69
Chromium	µg/L	50	0.37 J	23.3	10.9	1.81	0.83 J	1.87 J
Copper	µg/L	2.4	0.52 J	12.4	1.81	1.52	1.52	4.32
Lead	µg/L	8.1	0.460	3.570	0.173 J	0.575	0.575	5.240
Mercury	µg/L	0.025	0.20 U	0.04 J	0.20 U	0.02 J	0.02 J	0.20 U
Nickel	µg/L	8.2	0.44 J	13.9	1.09 J	0.72 J	0.72 J	1.53 J
Thallium	µg/L	0.47	0.200 U	0.200 U	0.0076 J	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	2.78 J	41.4	1.72 J	5.97	5.97	32.6

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	44-50	45-50	45-100	46C-25	46C-50
Sample ID:	WG-081112-JN-44-50-078	WG-081012-JN-45-50-079	WG-081012-JN-45-100-080	WG-082212-AMK-46C-25-081	WG-082212-AMK-46C-50-082
Sample Date:	8/11/2012	8/10/2012	8/10/2012	8/22/2012	8/22/2012
Sample Depth:	50 ft BGS	50 ft BGS	100 ft BGS	25 ft BGS	50 ft BGS
elev_MLLW	-31.92	-32.63	-82.51	-6.91	-31.91
elev_NGVD	-38.2	-39	-88.8	-13.2	-38.2

Parameters	Units	CSI	WG			
Metals~Dissolved						
Arsenic (dissolved)	µg/L	0.14	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-
Metals~Total						
Arsenic	µg/L	0.14	5.69	1.03	1.45	5.74
Chromium	µg/L	50	3.61	7.02	2.18	13.0
Copper	µg/L	2.4	6.72	4.10	0.33 J	36.5
Lead	µg/L	8.1	5.530	0.748	0.358	3.420
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	3.33	1.95 J	0.76 J	6.75
Thallium	µg/L	0.47	0.0342 J	0.0795 J	0.0847 J	0.0603 J
Zinc	µg/L	81	31.8	55.8	5.00 U	18.8

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	46C-75	46C-100	46C-130	46C-160	48-15
Sample ID:	WG-082212-AMK-46C-75-083	WG-082212-AMK-46C-100-084	WG-082212-AMK-46C-130-085	WG-082212-AMK-46C-160-086	WG-081012-ALK-48-15-087
Sample Date:	8/22/2012	8/22/2012	8/22/2012	8/22/2012	8/10/2012
Sample Depth:	75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS	15 ft BGS
elev_MLLW	-56.91	-81.91	-111.91	-141.91	2.82
elev_NGVD	-63.2	-88.2	-118.2	-148.2	-3.5

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	46C-75	46C-100	46C-130	46C-160	48-15
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-	-

Metals~Total

Parameter	Units	CSI	WG	46C-75	46C-100	46C-130	46C-160	48-15
Arsenic	µg/L	0.14	-	2.83	3.37	1.99	3.37	30.0
Chromium	µg/L	50	-	4.57	5.13	1.61 J	3.12	5.34
Copper	µg/L	2.4	-	0.38 J	0.50 J	0.64 J	3.84	6.41
Lead	µg/L	8.1	-	0.183 J	0.288	0.480	4.150	0.922
Mercury	µg/L	0.025	-	0.20 U	0.20 U	0.20 U	0.20 U	0.03 J
Nickel	µg/L	8.2	-	1.42 J	0.51 J	0.54 J	2.02	0.71 J
Thallium	µg/L	0.47	-	0.200 U	0.200 U	0.200 U	0.0145 J	0.200 U
Zinc	µg/L	81	-	38.9	5.62	8.32	22.7	2.79 J

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	49-15	50-15	52-15	52-15	53C-25	53C-50
Sample ID:	WG-081112-ALK-49-15-088	WG-081112-ALK-50-15-089	WG-082412-PR-52-15-090	WG-082412-PR-FD11-308	WG-072412-AK-53C-25-091	WG-072412-AK-53C-50-092
Sample Date:	8/11/2012	8/11/2012	8/24/2012	8/24/2012	7/24/2012	7/24/2012
Sample Depth:	15 ft BGS	15 ft BGS	15 ft BGS	15 ft BGS	25 ft BGS	50 ft BGS
elev_MLLW	3.92	2.52	3.22	3.22	-6.52	-31.52
elev_NGVD	-2.4	-3.8	-3.1	-3.1	-12.8	-37.8

(Duplicate)

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-

Metals~Total

Arsenic	µg/L	0.14	32.9	15.2	2.56	2.61	3.98	2.00
Chromium	µg/L	50	672	3.17	2.00 U	2.00 U	4.39	6.32
Copper	µg/L	2.4	25.5	7.42	1.00 U	1.06	10.1	1.67
Lead	µg/L	8.1	1.260	5.240	0.393	0.377	0.867	0.362
Mercury	µg/L	0.025	0.05 J	0.05 J	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	22.1	7.66	2.00 U	2.00 U	5.46	2.80
Thallium	µg/L	0.47	0.0111 J	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	46.8	6.25	2.09 J	3.23 J	8.23	5.00 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	53C-75	53C-100	53C-130	53C-160	55-25
Sample ID:	WG-072412-AK-53C-75-093	WG-072412-PR-53C-100-094	WG-072412-PR-53C-130-095	WG-072412-PR-53C-160-096	WG-082412-PR-55-25-097
Sample Date:	7/24/2012	7/24/2012	7/24/2012	7/24/2012	8/24/2012
Sample Depth:	75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS	25 ft BGS
elev_MLLW	-56.52	-81.52	-111.52	-141.52	-6.37
elev_NGVD	-62.8	-87.8	-117.8	-147.8	-12.7

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	
Chromium (dissolved)	µg/L	50	-	-	-	-	
Copper (dissolved)	µg/L	2.4	-	-	-	-	
Lead (dissolved)	µg/L	8.1	-	-	-	-	
Mercury (dissolved)	µg/L	0.025	-	-	-	-	
Nickel (dissolved)	µg/L	8.2	-	-	-	-	
Thallium (dissolved)	µg/L	0.47	-	-	-	-	
Zinc (dissolved)	µg/L	81	-	-	-	-	
Metals~Total							
Arsenic	µg/L	0.14	4.32	6.88	85.0	2.23	3.03
Chromium	µg/L	50	16.8	34.0	194	0.74 J	17.3
Copper	µg/L	2.4	2.74	17.2	12.4	0.43 J	146
Lead	µg/L	8.1	0.431	6.190	3.910	0.302	14.6
Mercury	µg/L	0.025	0.20 U	0.20 U	0.80 U	0.20 U	0.20 U
Nickel	µg/L	8.2	4.05	15.3	85.9	2.00 U	8.34
Thallium	µg/L	0.47	0.200 U	0.0523 J	1.0000 U	0.200 U	0.0178 J
Zinc	µg/L	81	11.0	29.3	32.4	138	12.1

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	55-50	60-50	61C-25	61C-50	61C-75
Sample ID:	WG-082412-PR-55-50-098	WG-081512-TS-60-50-099	WG-071712-BW-61C-25-100	WG-071712-BW-61C-50-101	WG-071712-BW-61C-75-102
Sample Date:	8/24/2012	8/15/2012	7/17/2012	7/17/2012	7/17/2012
Sample Depth:	50 ft BGS	50 ft BGS	25 ft BGS	50 ft BGS	75 ft BGS
elev_MLLW	-31.79	-32.55	-7.81	-32.81	-57.81
elev_NGVD	-38.1	-38.9	-14.1	-39.1	-64.1

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-
Metals~Total							
Arsenic	µg/L	0.14	1.89	2.73	0.33 J	2.59	2.24
Chromium	µg/L	50	56.7	180	0.51 J	0.58 J	2.35
Copper	µg/L	2.4	6.14	3.31	1.00 U	1.00 U	0.34 J
Lead	µg/L	8.1	0.196 J	0.200 U	0.200 U	0.200 U	0.097 J
Mercury	µg/L	0.025	0.80 U	0.08 J	0.02 J	0.20 U	0.20 U
Nickel	µg/L	8.2	6.55	28.2	2.00 U	2.00 U	2.00 U
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	5.44	5.00 U	5.00 U	5.00 U	5.00 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	61C-100	61C-100	61C-130	61C-160	64-100		
Sample ID:	WG-071712-BW-61C-100-103	WG-071712-BW-FD05-302	WG-071712-BW-61C-130-104	WG-071712-BW-61C-160-105	WG-072612-AMK-64-100-106		
Sample Date:	7/17/2012	7/17/2012	7/17/2012	7/17/2012	7/26/2012		
Sample Depth:	100 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS	100 ft BGS		
elev_MLLW	-82.81	-82.81	-112.81	-142.81	-82.91		
elev_NGVD	-89.1	-89.1	-119.1	-149.1	-89.2		
		(Duplicate)					
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-		
Chromium (dissolved)	µg/L	50	-	-	-		
Copper (dissolved)	µg/L	2.4	-	-	-		
Lead (dissolved)	µg/L	8.1	-	-	-		
Mercury (dissolved)	µg/L	0.025	-	-	-		
Nickel (dissolved)	µg/L	8.2	-	-	-		
Thallium (dissolved)	µg/L	0.47	-	-	-		
Zinc (dissolved)	µg/L	81	-	-	-		
Metals~Total							
Arsenic	µg/L	0.14	4.06	4.98	5.56	4.22	3.45
Chromium	µg/L	50	3.08	2.52	1.96 J	7.52	106 J
Copper	µg/L	2.4	2.06 J	1.27 J	1.82 J	3.16	1.86
Lead	µg/L	8.1	1.930 J	1.380 J	0.693 J	0.435	0.131 J
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.03 J	0.20 U
Nickel	µg/L	8.2	2.01	2.00 U	10.0 U	3.15	17.0
Thallium	µg/L	0.47	0.200 U	0.200 U	1.0000 U	0.200 U	0.200 U
Zinc	µg/L	81	10.3	10.1	97.7	6.52	127

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	64-170	65-15	65-25	65-50	65-100	65-130
Sample ID:	WG-072612-AMK-64-170-107	GW-65-15-TR-0704	WG-081212-ALK-65-25-108	WG-081212-ALK-65-50-109	WG-081212-JN-65-100-110	WG-081212-JN-65-130-111
Sample Date:	7/26/2012	7/18/2004	8/12/2012	8/12/2012	8/12/2012	8/12/2012
Sample Depth:	170 ft BGS	15 ft bgs	25 ft BGS	50 ft BGS	100 ft BGS	130 ft BGS
elev_MLLW	-152.65	2.79	-7.23	-32.22	-82.12	-111.91
elev_NGVD	-159	-3.5	-13.6	-38.5	-88.4	-118.2

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-

Metals~Total

Arsenic	µg/L	0.14	3.34	10.2	2.91	6.43	12.3	3.20
Chromium	µg/L	50	13.2 J	2.0 UJ	0.70 J	392	19.6	1.88 J
Copper	µg/L	2.4	0.48 J	4.8	1.00 U	6.98	9.33	0.84 J
Lead	µg/L	8.1	0.021 J	3.8	0.196 J	0.216 J	1.540	0.205
Mercury	µg/L	0.025	0.20 U	0.041 U	0.20 U	0.80 U	0.80 U	0.20 U
Nickel	µg/L	8.2	24.3	4.6 J	0.42 J	82.7	5.01 J	1.23 J
Thallium	µg/L	0.47	0.200 U	0.80 U	0.0090 J	0.0684 J	0.383 J	0.0057 J
Zinc	µg/L	81	5.00 U	25.6	5.00 U	11.2	25.0 U	17.0

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	66-15	66-25	66-50	67-25	67-50	67-50	68-25
Sample ID:	GW-66-15-TR-0704	GW-66-25-TR-0704	GW-66-50-TR-0704	WG-072612-AMK-67-25-112	WG-072612-AMK-67-50-113	WG-072612-AMK-FD08-305	GW-68-25-TR-0704
Sample Date:	7/10/2004	7/10/2004	7/10/2004	7/26/2012	7/26/2012	7/26/2012	7/14/2004
Sample Depth:	15 ft bgs	25 ft bgs	50 ft bgs	25 ft BGS	50 ft BGS	50 ft BGS	25 ft bgs
elev_MLLW	3.07	-6.88	-31.88	-7.34	-32.24	-32.24	-7.33
elev_NGVD	-3.2	-13.2	-38.2	-13.7	-38.6	-38.6	-13.6

Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	8.8	1 U	5 U	-	-	-
Chromium (dissolved)	µg/L	50	25.0	2.0 U	8.3	-	-	-
Copper (dissolved)	µg/L	2.4	12.2	5.9	2.0 U	-	-	-
Lead (dissolved)	µg/L	8.1	1.9	0.80 U	0.80 U	-	-	-
Mercury (dissolved)	µg/L	0.025	0.041 U	0.041 U	0.041 U	-	-	-
Nickel (dissolved)	µg/L	8.2	130	6.0	10.1	-	-	-
Thallium (dissolved)	µg/L	0.47	0.80 U	0.80 U	0.80 U	-	-	-
Zinc (dissolved)	µg/L	81	80 U	80 U	80 U	-	-	-

Parameters	Units	CSI	WG					
Metals~Total								
Arsenic	µg/L	0.14	9.3	1 U	5 U	3.21	5.60	5.38
Chromium	µg/L	50	210	2.0 U	14.4	1.74 J	13.1 J	12.9
Copper	µg/L	2.4	12.0	5.7	3.6	1.00 U	1.27	1.52
Lead	µg/L	8.1	7.4	0.80 U	0.80 U	0.200 U	0.200 U	0.200 U
Mercury	µg/L	0.025	0.041 U	0.25	0.041 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	140	6.4	13.5	0.72 J	8.93	8.30
Thallium	µg/L	0.47	0.80 U	0.80 U	0.80 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	80 U	80 U	80 U	5.00 U	5.00 U	3.99 J

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	68-50	69-25	69-50	70-25	70-50	70-50	71-25			
Sample ID:	GW-68-50-TR-0704	WG-072712-AMK-69-25-114	GW-69-50-TR-0704	WG-082612-AMK-70-25-115	GW-70-50-TR-0704	GW-0704-TR-FD1	WG-072712-AMK-71-25-116			
Sample Date:	7/14/2004	7/27/2012	7/14/2004	8/26/2012	7/13/2004	7/13/2004	7/27/2012			
Sample Depth:	50 ft bgs	25 ft BGS	50 ft bgs	25 ft BGS	50 ft bgs	50 ft bgs	25 ft BGS			
elev_MLLW	-32.35	-8.29	-33.28	-8.17	-33.18	-33.18	-7.86			
elev_NGVD	-38.7	-14.6	-39.6	-14.5	-39.5	-39.5	-14.2			
						(Duplicate)				
Parameters	Units	CSI	WG							
Metals~Dissolved										
Arsenic (dissolved)	µg/L	0.14	-	-	-	1 U	1 U	-		
Chromium (dissolved)	µg/L	50	-	-	-	4.9	5.7	-		
Copper (dissolved)	µg/L	2.4	-	-	-	9.3	9.6	-		
Lead (dissolved)	µg/L	8.1	-	-	-	0.80 U	0.80 U	-		
Mercury (dissolved)	µg/L	0.025	-	-	-	0.041 U	0.041 U	-		
Nickel (dissolved)	µg/L	8.2	-	-	-	30.9	36.4	-		
Thallium (dissolved)	µg/L	0.47	-	-	-	0.80 U	0.80 U	-		
Zinc (dissolved)	µg/L	81	-	-	-	36.3	27.6	-		
Metals~Total										
Arsenic	µg/L	0.14	11.9	14.8	79.3	2.73	1 U	1 U	1.70	
Chromium	µg/L	50	88.7	11.0	123	6350 J	18.9	17.5	1170	
Copper	µg/L	2.4	15.1	10.9	12.9	47.3	13.0	12.1	5.01	
Lead	µg/L	8.1	0.80 U	0.641	1.7	0.695	2.1	1.3	0.122 J	
Mercury	µg/L	0.025	0.041 U	0.09 J	0.041 U	0.20 U	0.041 U	0.041 U	0.03 J	
Nickel	µg/L	8.2	33.2	8.26	62.4	1160	34.9	34.6	258	
Thallium	µg/L	0.47	0.80 U	0.200 U	0.80 U	0.200 U	0.80 U	0.80 U	0.200 U	
Zinc	µg/L	81	23.0	4.45 J	51.1	23.0	7.57	41.6	42.3	2.77 J

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	71-50	72-25	72-50	73-25	73-50	74-50	74-75
Sample ID:	WG-072712-AMK-71-50-117	GW-72-25-TR-0704	GW-72-50-TR-0704	GW-73-25-TR-0704	GW-73-50-TR-0704	WG-082012-PR-74-50-118	WG-082012-PR-74-75-119
Sample Date:	7/27/2012	7/12/2004	7/12/2004	7/12/2004	7/12/2004	8/20/2012	8/20/2012
Sample Depth:	50 ft BGS	25 ft bgs	50 ft bgs	25 ft bgs	50 ft bgs	50 ft BGS	75 ft BGS
elev_MLLW	-32.98	-8.4	-33.51	-8.18	-33.29	-31.94	-56.94
elev_NGVD	-39.3	-14.7	-39.8	-14.5	-39.6	-38.3	-63.3

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	71-50	72-25	72-50	73-25	73-50	74-50	74-75
Arsenic (dissolved)	µg/L	0.14	1 U	1 U	1 U	1 U	-	-
Chromium (dissolved)	µg/L	50	2.2	2.2	2.4	28.3	-	-
Copper (dissolved)	µg/L	2.4	7.4	8.0	4.9	9.1	-	-
Lead (dissolved)	µg/L	8.1	0.80 U	0.80 U	0.80 U	0.80 U	-	-
Mercury (dissolved)	µg/L	0.025	0.041 U	0.041 U	0.041 U	0.041 U	-	-
Nickel (dissolved)	µg/L	8.2	12.6	14.6	7.3	124	-	-
Thallium (dissolved)	µg/L	0.47	0.80 U	0.80 U	0.80 U	0.80 U	-	-
Zinc (dissolved)	µg/L	81	171	95.2	14.8	27.2	-	-

Metals~Total

Parameter	Units	71-50	72-25	72-50	73-25	73-50	74-50	74-75
Arsenic	µg/L	0.14	2.61	1 U	1 U	1 U	1.97	2.77
Chromium	µg/L	50	208	3.6	22.4	9.9	87.7	2.04
Copper	µg/L	2.4	0.58 J	8.9	12.7	8.7	15.5	0.84 J
Lead	µg/L	8.1	0.200 U	0.46	0.70	3.3	0.81	0.572
Mercury	µg/L	0.025	0.04 J	0.041 U	0.041 U	0.041 U	0.041 U	0.20 U
Nickel	µg/L	8.2	13.0	14.1	16.6	12.6	130	2.00 U
Thallium	µg/L	0.47	0.200 U	0.80 U	0.80 U	0.80 U	0.80 U	0.470
Zinc	µg/L	81	1.24 J	118	41.7	99.0	48.7	5.00 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	74-100	75-50	75-75	75-100	75-130		
<i>Sample ID:</i>	WG-082012-PR-74-100-120	WG-080912-ALK-75-50-122	WG-080912-ALK-75-75-123	WG-080912-JN-75-100-124	WG-080912-JN-75-130-125		
<i>Sample Date:</i>	8/20/2012	8/9/2012	8/9/2012	8/9/2012	8/9/2012		
<i>Sample Depth:</i>	100 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS	130 ft BGS		
<i>elev_MLLW</i>	-81.94	-31.54	-56.45	-81.47	-111.38		
<i>elev_NGVD</i>	-88.3	-37.9	-62.8	-87.8	-117.7		
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-		
Chromium (dissolved)	µg/L	50	-	-	-		
Copper (dissolved)	µg/L	2.4	-	-	-		
Lead (dissolved)	µg/L	8.1	-	-	-		
Mercury (dissolved)	µg/L	0.025	-	-	-		
Nickel (dissolved)	µg/L	8.2	-	-	-		
Thallium (dissolved)	µg/L	0.47	-	-	-		
Zinc (dissolved)	µg/L	81	-	-	-		
Metals~Total							
Arsenic	µg/L	0.14	6.11	7.20	9.60	0.72 J	1.64
Chromium	µg/L	50	25.0	119	39.7	2.00 U	5.48
Copper	µg/L	2.4	18.8	8.28	5.42	1.00 U	4.66
Lead	µg/L	8.1	0.832	0.358	2.180	0.200 U	1.190
Mercury	µg/L	0.025	0.20 U	0.80 U	0.80 U	0.20 U	0.20 U
Nickel	µg/L	8.2	11.4	22.7	10.0 U	2.00 U	3.74
Thallium	µg/L	0.47	0.395	0.200 U	1.0000 U	0.200 U	0.200 U
Zinc	µg/L	81	5.00 U	10.6	25.0 U	5.00 U	7.42

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	77C-25	77C-50	77C-75	77C-100	77C-130
Sample ID:	WG-071612-DJT-77C-25-126	WG-071612-DJT-77C-50-127	WG-071612-DJT-77C-75-128	WG-071612-DJT-77C-100-129	WG-071612-DJT-77C-130-130
Sample Date:	7/16/2012	7/16/2012	7/16/2012	7/16/2012	7/16/2012
Sample Depth:	25 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS	130 ft BGS
elev_MLLW	-8.9	-33.9	-58.9	-83.9	-113.9
elev_NGVD	-15.2	-40.2	-65.2	-90.2	-120.2

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	77C-25	77C-50	77C-75	77C-100	77C-130
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-	-

Metals~Total

Parameter	Units	CSI	WG	77C-25	77C-50	77C-75	77C-100	77C-130
Arsenic	µg/L	0.14	-	1.30	2.95	1.78	1.87	3.44
Chromium	µg/L	50	-	0.72 J	11.4	1.90 J	10.2	10.0 U
Copper	µg/L	2.4	-	0.29 J	7.12	0.51 J	7.06	5.00 U
Lead	µg/L	8.1	-	0.200 U	4.060	0.103 J	3.580	1.000 U
Mercury	µg/L	0.025	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	-	2.00 U	3.22	2.00 U	2.14	10.0 U
Thallium	µg/L	0.47	-	0.200 U	0.200 U	0.200 U	0.200 U	1.0000 U
Zinc	µg/L	81	-	5.00 U	46.0	3.20 J	9.81	25.0 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	77C-160	77C-160	78C-25	78C-50	78C-75
Sample ID:	WG-071612-DJT-77C-160-131	WG-071612-DJT-FD09-306	WG-071912-SP-78C-25-132	WG-071912-SP-78C-50-133	WG-071912-SP-78C-75-134
Sample Date:	7/16/2012	7/16/2012	7/19/2012	7/19/2012	7/19/2012
Sample Depth:	160 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS	75 ft BGS
elev_MLLW	-143.9	-143.9	-7.2	-32.2	-57.2
elev_NGVD	-150.2	-150.2	-13.5	-38.5	-63.5
		(Duplicate)			
Parameters	Units	CSI	WG		
Metals~Dissolved					
Arsenic (dissolved)	µg/L	0.14	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-
Metals~Total					
Arsenic	µg/L	0.14	5.59	5.73	1.00 U
Chromium	µg/L	50	3.91 J	3.92 J	0.51 J
Copper	µg/L	2.4	2.27	2.26	1.00 U
Lead	µg/L	8.1	0.724 J	0.919 J	0.200 U
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	1.82 J	1.52 J	0.26 J
Thallium	µg/L	0.47	0.400 U	0.400 U	0.200 U
Zinc	µg/L	81	42.2	45.2	5.00 U
					0.38 J
					1.64
					2.00 U
					1.93 J
					1.00 U
					1.48
					0.042 J
					0.895
					0.20 U
					0.20 U
					0.19 J
					0.65 J
					0.200 U
					0.0147 J
					5.00 U
					8.15

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	78C-100	78C-130	78C-160	79-50	79-50	
Sample ID:	WG-071912-SP-78C-100-135	WG-071912-SP-78C-130-136	WG-071912-SP-78C-160-137	GW-070609-TG-MW-79-GW	GW-070609-TG-MW-79-S	
Sample Date:	7/19/2012	7/19/2012	7/19/2012	7/6/2009	7/6/2009	
Sample Depth:	100 ft BGS	130 ft BGS	160 ft BGS	50 ft bgs	50 ft bgs	
elev_MLLW	-82.2	-112.2	-142.2	-32.35	-32.35	
elev_NGVD	-88.5	-118.5	-148.5	-38.7	-38.7	
Parameters	Units	CSI	WG			
Metals~Dissolved						
Arsenic (dissolved)	µg/L	0.14	-	-	13	13
Chromium (dissolved)	µg/L	50	-	-	9.4	7.5
Copper (dissolved)	µg/L	2.4	-	-	5.3	5.4
Lead (dissolved)	µg/L	8.1	-	-	1.7	2.1
Mercury (dissolved)	µg/L	0.025	-	-	0.5 U	0.51
Nickel (dissolved)	µg/L	8.2	-	-	6.5	18
Thallium (dissolved)	µg/L	0.47	-	-	0.1 U	0.1 U
Zinc (dissolved)	µg/L	81	-	-	23 U	4800
Metals~Total						
Arsenic	µg/L	0.14	7.08	1.37	3.76	-
Chromium	µg/L	50	0.97 J	2.00 U	1.02 J	-
Copper	µg/L	2.4	0.44 J	0.20 J	0.86 J	-
Lead	µg/L	8.1	0.400 U	0.200 U	0.398	-
Mercury	µg/L	0.025	0.20 U	0.04 J	0.02 J	-
Nickel	µg/L	8.2	0.90 J	0.35 J	1.88 J	-
Thallium	µg/L	0.47	0.400 U	0.200 U	0.0050 J	-
Zinc	µg/L	81	14.9	5.00 U	35.3	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	80-25	81-50	82-30	82-100	82-150	82-230
Sample ID:	WG-072712-AMK-80-25-138	WG-081412-AMK-81-50-139	GW-072610-CM-82-30	WG-072912-PR-82-100-140	GW-072610-MD-82-150	GW-072610-CM-82-230
Sample Date:	7/27/2012	8/14/2012	7/26/2010	7/29/2012	7/26/2010	7/26/2010
Sample Depth:	25 ft BGS	50 ft BGS	29 to 34 ft BGS	100 ft BGS	145 to 150 ft BGS	227 to 232 ft BGS
elev_MLLW	-7.42	-32.02	-12.42 to -17.42	-83.5	-128.75 to -133.75	-210.39 to -215.39
elev_NGVD	-13.7	-38.3	-18.7 to -23.7	-89.8	-135.1 to -140.1	-216.7 to -221.7

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	36.4	-	26.6 3.8 J
Chromium (dissolved)	µg/L	50	-	-	110	-	46.8 0.13 U
Copper (dissolved)	µg/L	2.4	-	-	21.4	-	8.4 0.49 U
Lead (dissolved)	µg/L	8.1	-	-	0.09 U	-	0.09 U 0.09 U
Mercury (dissolved)	µg/L	0.025	-	-	0.60 U	-	0.60 U 0.06 U
Nickel (dissolved)	µg/L	8.2	-	-	28.6	-	16.9 1.1 J
Thallium (dissolved)	µg/L	0.47	-	-	0.76 J	-	0.53 J 0.092 J
Zinc (dissolved)	µg/L	81	-	-	22.5	-	15.7 2.1 J

Metals~Total							
Arsenic	µg/L	0.14	12.1	41.3	-	109	-
Chromium	µg/L	50	23.1	10.0 U	-	66.6	-
Copper	µg/L	2.4	50.1	5.00 U	-	4.27 J	-
Lead	µg/L	8.1	4.000	1.000 U	-	1.000 U	-
Mercury	µg/L	0.025	0.09 J	0.20 U	-	0.43 J	-
Nickel	µg/L	8.2	15.1	23.8	-	60.8	-
Thallium	µg/L	0.47	0.0236 J	0.252 J	-	1.0000 U	-
Zinc	µg/L	81	5.75	52.4	-	15.3 J	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	83C-25	83C-50	83C-75	83C-100	83C-130
Sample ID:	WG-072512-AK-83C-25-141	WG-072512-AK-83C-50-142	WG-072512-AK-83C-75-143	WG-072512-AK-83C-100-144	WG-072512-AK-83C-130-145
Sample Date:	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012
Sample Depth:	25 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS	130 ft BGS
elev_MLLW	-7.22	-32.22	-57.22	-82.22	-112.22
elev_NGVD	-13.5	-38.5	-63.5	-88.5	-118.5

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	83C-25	83C-50	83C-75	83C-100	83C-130
Arsenic (dissolved)	µg/L	0.14	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-

Metals~Total

Parameter	Units	83C-25	83C-50	83C-75	83C-100	83C-130
Arsenic	µg/L	0.14	3.32	2.24	11.5	22.1
Chromium	µg/L	50	1.57 J	0.56 J	8.74 J	85.6 J
Copper	µg/L	2.4	0.29 J	1.00 U	1.39 J	2.58 J
Lead	µg/L	8.1	0.200 U	0.200 U	0.140 J	0.133 J
Mercury	µg/L	0.025	0.20 U	0.20 U	0.03 J	0.80 U
Nickel	µg/L	8.2	6.65	0.31 J	4.31	30.5
Thallium	µg/L	0.47	0.200 U	0.200 U	0.400 U	1.0000 U
Zinc	µg/L	81	5.00 U	5.00 U	10.0 U	25.0 U
						64.4

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	83C-160	84C-25	84C-50	84C-75	84C-75		
<i>Sample ID:</i>	WG-072512-AK-83C-160-146	WG-071812-DJT-84C-25-147	WG-071812-DJT-84C-50-148	WG-071812-DJT-84C-75-149	WG-071812-DJT-FD10-307		
<i>Sample Date:</i>	7/25/2012	7/18/2012	7/18/2012	7/18/2012	7/18/2012		
<i>Sample Depth:</i>	160 ft BGS	25 ft BGS	50 ft BGS	75 ft BGS	75 ft BGS		
<i>elev_MLLW</i>	-142.22	-7.56	-32.56	-57.56	-57.56		
<i>elev_NGVD</i>	-148.5	-13.9	-38.9	-63.9	-63.9		
					(Duplicate)		
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-		
Chromium (dissolved)	µg/L	50	-	-	-		
Copper (dissolved)	µg/L	2.4	-	-	-		
Lead (dissolved)	µg/L	8.1	-	-	-		
Mercury (dissolved)	µg/L	0.025	-	-	-		
Nickel (dissolved)	µg/L	8.2	-	-	-		
Thallium (dissolved)	µg/L	0.47	-	-	-		
Zinc (dissolved)	µg/L	81	-	-	-		
Metals~Total							
Arsenic	µg/L	0.14	15.7	0.25 J	1.84	1.97	2.05
Chromium	µg/L	50	20.2 J	1.55 J	4.61	1.37 J	1.70 J
Copper	µg/L	2.4	6.64	1.00 U	0.45 J	1.00 U	0.65 J
Lead	µg/L	8.1	0.550	0.287	0.086 J	0.111 J	0.210
Mercury	µg/L	0.025	0.04 J	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	8.89	0.64 J	2.00 U	2.00 U	2.00 U
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	84C-100	84C-130	84C-160	85C-25	85C-50
Sample ID:	WG-071812-DJT-84C-100-150	WG-071812-DJT-84C-130-151	WG-071812-DJT-84C-160-152	WG-072012-DJT-85C-25-153	WG-072012-DJT-85C-50-154
Sample Date:	7/18/2012	7/18/2012	7/18/2012	7/20/2012	7/20/2012
Sample Depth:	100 ft BGS	130 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS
elev_MLLW	-82.56	-112.56	-142.56	-6.67	-31.67
elev_NGVD	-88.9	-118.9	-148.9	-13	-38

Parameters	Units	CSI	WG			
Metals~Dissolved						
Arsenic (dissolved)	µg/L	0.14	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-
Metals~Total						
Arsenic	µg/L	0.14	1.32	2.04	3.97	1.00 U
Chromium	µg/L	50	1.15 J	1.93 J	2.00 U	2.00 U
Copper	µg/L	2.4	0.35 J	0.75 J	1.00 U	1.00 U
Lead	µg/L	8.1	0.200 U	0.113 J	0.200 U	0.200 U
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	2.00 U	0.22 J	2.00 U	2.00 U
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	5.00 U	5.00 U	5.00 U	5.00 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>85C-75</i>	<i>85C-100</i>	<i>85C-130</i>	<i>85C-160</i>	<i>86C-25</i>		
<i>Sample ID:</i>	<i>WG-072012-DJT-85C-75-155</i>	<i>WG-072012-DJT-85C-100-156</i>	<i>WG-072012-DJT-85C-130-157</i>	<i>WG-072012-DJT-85C-160-158</i>	<i>WG-072412-MD-86C-25-159</i>		
<i>Sample Date:</i>	<i>7/20/2012</i>	<i>7/20/2012</i>	<i>7/20/2012</i>	<i>7/20/2012</i>	<i>7/24/2012</i>		
<i>Sample Depth:</i>	<i>75 ft BGS</i>	<i>100 ft BGS</i>	<i>130 ft BGS</i>	<i>160 ft BGS</i>	<i>25 ft BGS</i>		
<i>elev_MLLW</i>	<i>-56.67</i>	<i>-81.67</i>	<i>-111.67</i>	<i>-141.67</i>	<i>-7.88</i>		
<i>elev_NGVD</i>	<i>-63</i>	<i>-88</i>	<i>-118</i>	<i>-148</i>	<i>-14.2</i>		
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-		
Chromium (dissolved)	µg/L	50	-	-	-		
Copper (dissolved)	µg/L	2.4	-	-	-		
Lead (dissolved)	µg/L	8.1	-	-	-		
Mercury (dissolved)	µg/L	0.025	-	-	-		
Nickel (dissolved)	µg/L	8.2	-	-	-		
Thallium (dissolved)	µg/L	0.47	-	-	-		
Zinc (dissolved)	µg/L	81	-	-	-		
Metals~Total							
Arsenic	µg/L	0.14	2.61	0.14	2.55	2.64	0.51 J
Chromium	µg/L	50	1.43 J	0.11 J	1.75 J	1.93 J	4.89
Copper	µg/L	2.4	0.32 J	0.03 J	1.00 U	1.00 U	1.84
Lead	µg/L	8.1	0.027 J	0.020 U	0.200 U	0.200 U	0.987
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	2.00 U	0.20 U	2.00 U	2.00 U	2.00 U
Thallium	µg/L	0.47	0.200 U	0.0200 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	5.00 U	0.50 U	7.68 U	5.00 U	5.00 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	86C-50	86C-75	86C-100	86C-130	86C-160
Sample ID:	WG-072412-MD-86C-50-160	WG-072512-MD-86C-75-161	WG-072512-MD-86C-100-170	WG-072512-MD-86C-130-162	WG-072512-MD-86C-160-163
Sample Date:	7/24/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012
Sample Depth:	50 ft BGS	75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS
elev_MLLW	-32.88	-57.88	-82.88	-112.88	-142.88
elev_NGVD	-39.2	-64.2	-89.2	-119.2	-149.2

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-
Metals~Total							
Arsenic	µg/L	0.14	1.30	4.37	3.35	2.40	2.26
Chromium	µg/L	50	13.6	12.3 J	2.01 J	2.85	4.72
Copper	µg/L	2.4	34.7	5.21	0.57 J	0.85 J	0.87 J
Lead	µg/L	8.1	1.800	2.400	0.067 J	0.236	0.069 J
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.03 J	0.20 U
Nickel	µg/L	8.2	2.25	3.10	0.53 J	0.55 J	0.74 J
Thallium	µg/L	0.47	0.200 U	0.0051 J	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	5.00 U	8.80	5.00 U	5.00 U	5.00 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	87C-25	87C-50	87C-75	87C-100	87C-130
Sample ID:	WG-072412-MD-87C-25-164	WG-072412-MD-87C-50-165	WG-072412-MD-87C-75-166	WG-072412-MD-87C-100-167	WG-072412-MD-87C-130-168
Sample Date:	7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012
Sample Depth:	25 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS	130 ft BGS
elev_MLLW	-6.37	-31.37	-56.37	-81.37	-111.37
elev_NGVD	-12.7	-37.7	-62.7	-87.7	-117.7

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-
Metals~Total							
Arsenic	µg/L	0.14	0.22 J	1.55	2.22	2.38	3.08
Chromium	µg/L	50	2.00 U	23.3	1.95 J	2.30	2.00 J
Copper	µg/L	2.4	1.00 U	55.0	0.59 J	0.70 J	0.26 J
Lead	µg/L	8.1	0.200 U	2.660	0.183 J	0.162 J	0.136 J
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	2.00 U	2.77	2.00 U	2.00 U	2.00 U
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	5.00 U	8.14	5.00 U	5.00 U	6.84

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	87C-160	88C-25	88C-50	88C-75	88C-100		
<i>Sample ID:</i>	WG-072412-MD-87C-160-170	WG-081612-TS-88C-25-171	WG-081612-TS-88C-50-172	WG-081612-TS-88C-75-173	WG-081612-TS-88C-100-174		
<i>Sample Date:</i>	7/24/2012	8/16/2012	8/16/2012	8/16/2012	8/16/2012		
<i>Sample Depth:</i>	160 ft BGS	25 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS		
<i>elev_MLLW</i>	-141.37	-7.87	-32.87	-57.87	-82.87		
<i>elev_NGVD</i>	-147.7	-14.2	-39.2	-64.2	-89.2		
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-		
Chromium (dissolved)	µg/L	50	-	-	-		
Copper (dissolved)	µg/L	2.4	-	-	-		
Lead (dissolved)	µg/L	8.1	-	-	-		
Mercury (dissolved)	µg/L	0.025	-	-	-		
Nickel (dissolved)	µg/L	8.2	-	-	-		
Thallium (dissolved)	µg/L	0.47	-	-	-		
Zinc (dissolved)	µg/L	81	-	-	-		
Metals~Total							
Arsenic	µg/L	0.14	2.21	1.21	1.12	2.95	2.36
Chromium	µg/L	50	4.78	3.21	2.00 U	4.38	2.00 U
Copper	µg/L	2.4	0.40 J	1.30	1.00 U	1.26	1.00 U
Lead	µg/L	8.1	0.084 J	1.320	0.527	1.590	1.110
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Thallium	µg/L	0.47	0.200 U	0.502	0.464	0.493	0.504
Zinc	µg/L	81	5.00 U	10.0	5.00 U	28.5	19.6

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	88C-130	88C-160	89C-25	89C-50	89C-75
Sample ID:	WG-081612-TS-88C-130-175	WG-081612-TS-88C-160-176	WG-082212-PR-89-25-177	WG-082212-PR-89-50-178	WG-082312-PR-89-75-179
Sample Date:	8/16/2012	8/16/2012	8/22/2012	8/22/2012	8/23/2012
Sample Depth:	130 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS	75 ft BGS
elev_MLLW	-112.87	-142.87	-5.87	-30.95	-56.08
elev_NGVD	-119.2	-149.2	-12.2	-37.3	-62.4

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-

Metals~Total

Arsenic	µg/L	0.14	3.65	2.70	0.46 J	4.13	1.33
Chromium	µg/L	50	2.00 U	7.23	2.98	15.8	2.94
Copper	µg/L	2.4	1.00 U	1.00 U	3.55	9.28	0.59 J
Lead	µg/L	8.1	0.774	0.805	0.279	0.610	0.200 U
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	2.00 U	2.00 U	1.55 J	32.4	2.00 U
Thallium	µg/L	0.47	0.494	0.511	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	5.00 U	5.00 U	5.00 U	8.82	5.00 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	89C-100	89C-130	90C-25	90C-50	90C-50	90C-75		
Sample ID:	WG-082412-AK-89C-100-180	WG-082412-AK-89C-130-181	WG-072312-AK-90C-25-183	WG-072312-AK-90C-50-184	WG-072312-AK-FD15-312	GW-092513-NH-90C-75		
Sample Date:	8/24/2012	8/24/2012	7/23/2012	7/23/2012	7/23/2012	9/25/2013		
Sample Depth:	100 ft BGS	130 ft BGS	25 ft BGS	50 ft BGS	50 ft BGS			
elev_MLLW	-81.01	-111.01	-7.03	-32.03	-32.03			
elev_NGVD	-87.3	-117.3	-13.4	-38.4	-38.4			
					(Duplicate)			
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	-	-	-	-		
Chromium (dissolved)	µg/L	50	-	-	-	-		
Copper (dissolved)	µg/L	2.4	-	-	-	-		
Lead (dissolved)	µg/L	8.1	-	-	-	-		
Mercury (dissolved)	µg/L	0.025	-	-	-	-		
Nickel (dissolved)	µg/L	8.2	-	-	-	-		
Thallium (dissolved)	µg/L	0.47	-	-	-	-		
Zinc (dissolved)	µg/L	81	-	-	-	-		
Metals~Total								
Arsenic	µg/L	0.14	2.56	3.75	3.33	3.47	3.68	16.7
Chromium	µg/L	50	4.17	4.56	10.1	10.5	10.1	123 J
Copper	µg/L	2.4	4.67	6.21	10.6	1.78	1.86	14.6
Lead	µg/L	8.1	1.230	1.170	2.260	0.547	0.615	2.750
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.04 J
Nickel	µg/L	8.2	2.03	2.87	3.77	2.79	2.50	17.8
Thallium	µg/L	0.47	0.0086 J	0.0051 J	0.200 U	0.200 U	0.200 U	0.043 J
Zinc	µg/L	81	9.19	6.34	10.7	5.00 U	5.00 U	15.5

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	90C-100	90C-130	90C-160	91C-25	91C-50
Sample ID:	WG-072312-AK-90C-100-186	WG-072312-DJT-90C-130-187	WG-072312-PR-90C-160-188	WG-071812-BW-91C-25-189	WG-071812-BW-91C-50-190
Sample Date:	7/23/2012	7/23/2012	7/23/2012	7/18/2012	7/18/2012
Sample Depth:	100 ft BGS	130 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS
elev_MLLW	-82.03	-112.03	-142.03	-7.53	-32.53
elev_NGVD	-88.4	-118.4	-148.4	-13.8	-38.8

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-
Metals~Total							
Arsenic	µg/L	0.14	30.7	11.9	3.24	1.04	5.14
Chromium	µg/L	50	158	10.5	4.76	3.21	26.3
Copper	µg/L	2.4	5.12	0.37 J	2.43	2.23	15.5
Lead	µg/L	8.1	0.294	0.200 U	0.359	2.200	17.1
Mercury	µg/L	0.025	0.80 U	0.80 U	0.20 U	0.20 U	0.07 J
Nickel	µg/L	8.2	62.6	9.47	2.42	0.58 J	10.4
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U	0.133 J
Zinc	µg/L	81	8.44	7.93	9.62	5.79	49.1

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	91C-75	91C-100	91C-130	91C-160	92C-25
Sample ID:	WG-071812-BW-91C-75-191	WG-071812-BW-91C-100-192	WG-071812-BW-91C-130-193	WG-071812-BW-91C-160-194	WG-071812-AK-92C-25-196
Sample Date:	7/18/2012	7/18/2012	7/18/2012	7/18/2012	7/18/2012
Sample Depth:	75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS	25 ft BGS
elev_MLLW	-57.53	-82.53	-112.53	-142.53	-8
elev_NGVD	-63.8	-88.8	-118.8	-148.8	-14.3

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	91C-75	91C-100	91C-130	91C-160	92C-25
Arsenic (dissolved)	µg/L	0.14	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-

Metals~Total

Parameter	Units	91C-75	91C-100	91C-130	91C-160	92C-25
Arsenic	µg/L	0.14	3.49	2.63	3.45	2.62
Chromium	µg/L	50	6.48	6.47	25.4	9.66
Copper	µg/L	2.4	5.80	6.32	15.7	5.06
Lead	µg/L	8.1	6.400	5.170	4.670	2.240
Mercury	µg/L	0.025	0.20 U	0.02 J	0.20 U	0.20 U
Nickel	µg/L	8.2	2.99	3.98	15.8	12.4
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	29.8	83.7	43.1	30.7

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>92C-50</i>	<i>92C-75</i>	<i>92C-100</i>	<i>92C-130</i>	<i>92C-160</i>
<i>Sample ID:</i>	<i>WG-071812-AK-92C-50-197</i>	<i>WG-071812-AK-92C-75-198</i>	<i>WG-071812-AK-92C-100-199</i>	<i>WG-071812-AK-92C-130-200</i>	<i>WG-071812-AK-92C-160-201</i>
<i>Sample Date:</i>	<i>7/18/2012</i>	<i>7/18/2012</i>	<i>7/18/2012</i>	<i>7/18/2012</i>	<i>7/18/2012</i>
<i>Sample Depth:</i>	<i>50 ft BGS</i>	<i>75 ft BGS</i>	<i>100 ft BGS</i>	<i>130 ft BGS</i>	<i>160 ft BGS</i>
<i>elev_MLLW</i>	<i>-33</i>	<i>-58</i>	<i>-83</i>	<i>-113</i>	<i>-143</i>
<i>elev_NGVD</i>	<i>-39.3</i>	<i>-64.3</i>	<i>-89.3</i>	<i>-119.3</i>	<i>-149.3</i>

<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Metals~Dissolved</i>									
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-	-	-
<i>Metals~Total</i>									
Arsenic	µg/L	0.14	0.86 J	2.37	1.97	2.91	2.68		
Chromium	µg/L	50	3.02	1.77 J	2.15	2.60	2.21		
Copper	µg/L	2.4	0.94 J	0.27 J	1.02	1.03	0.22 J		
Lead	µg/L	8.1	0.078 J	0.021 J	0.343	0.377	0.200 U		
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U		
Nickel	µg/L	8.2	2.00 U	2.00 U	0.16 J	0.47 J	0.36 J		
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U		
Zinc	µg/L	81	45.6	5.00 U	15.5	5.00 U	54.4		

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	93C-25	93C-50	93C-50	93C-75	93C-100		
Sample ID:	WG-071712-DJT-93C-25-202	WG-071712-DJT-93C-50-203	WG-071712-DJT-FD14-311	WG-071712-DJT-93C-75-204	WG-071712-DJT-93C-100-205		
Sample Date:	7/17/2012	7/17/2012	7/17/2012	7/17/2012	7/17/2012		
Sample Depth:	25 ft BGS	50 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS		
elev_MLLW	-7.56	-32.56	-32.56	-57.56	-82.56		
elev_NGVD	-13.9	-38.9	-38.9	-63.9	-88.9		
			(Duplicate)				
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-		
Chromium (dissolved)	µg/L	50	-	-	-		
Copper (dissolved)	µg/L	2.4	-	-	-		
Lead (dissolved)	µg/L	8.1	-	-	-		
Mercury (dissolved)	µg/L	0.025	-	-	-		
Nickel (dissolved)	µg/L	8.2	-	-	-		
Thallium (dissolved)	µg/L	0.47	-	-	-		
Zinc (dissolved)	µg/L	81	-	-	-		
Metals~Total							
Arsenic	µg/L	0.14	0.62 J	0.47 J	0.52 J	1.82	1.80
Chromium	µg/L	50	0.31 J	7.70	7.43	2.05	4.26
Copper	µg/L	2.4	1.00 U	4.16	3.91	1.00 U	0.49 J
Lead	µg/L	8.1	0.200 U	0.109 J	0.120 J	0.200 U	0.203
Mercury	µg/L	0.025	0.20 U	0.02 J	0.02 J	0.03 J	0.20 U
Nickel	µg/L	8.2	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	93C-130	93C-160	94C-25	94C-50	94C-75		
<i>Sample ID:</i>	WG-071712-DJT-93C-130-206	WG-071712-DJT-93C-160-207	WG-072412-DJT-94C-25-209	WG-072412-DJT-94C-50-210	GW-092413-NH-94C-75		
<i>Sample Date:</i>	7/17/2012	7/17/2012	7/24/2012	7/24/2012	9/24/2013		
<i>Sample Depth:</i>	130 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS			
<i>elev_MLLW</i>	-112.56	-142.56	-7.39	-32.39			
<i>elev_NGVD</i>	-118.9	-148.9	-13.7	-38.7			
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-		
Chromium (dissolved)	µg/L	50	-	-	-		
Copper (dissolved)	µg/L	2.4	-	-	-		
Lead (dissolved)	µg/L	8.1	-	-	-		
Mercury (dissolved)	µg/L	0.025	-	-	-		
Nickel (dissolved)	µg/L	8.2	-	-	-		
Thallium (dissolved)	µg/L	0.47	-	-	-		
Zinc (dissolved)	µg/L	81	-	-	-		
Metals~Total							
Arsenic	µg/L	0.14	2.18	2.85	2.87	3.43	3.63
Chromium	µg/L	50	6.68	1.98 J	0.60 J	1.16 J	1.12 J
Copper	µg/L	2.4	1.51	1.00 U	0.27 J	0.54 J	2.00 U
Lead	µg/L	8.1	0.304	0.200 U	0.200 U	0.083 J	0.314 J
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U	0.04 J
Nickel	µg/L	8.2	2.00 U	2.00 U	2.00 U	2.00 U	4.00 U
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U	0.400 U
Zinc	µg/L	81	5.00 U	5.00 U	5.00 U	5.00 U	10.0 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	94C-100	94C-130	94C-160	95-15	95C-25	95C-50
Sample ID:	GW-092413-NH-94C-100	GW-092413-NH-94C-130	WG-072412-DJT-94C-160-214	WG-082512-PR-95-15-215	WG-071912-DJT-95C-25-216	WG-071912-DJT-95C-50-217
Sample Date:	9/24/2013	9/24/2013	7/24/2012	8/25/2012	7/19/2012	7/19/2012
Sample Depth:			160 ft BGS	15 ft BGS	25 ft BGS	50 ft BGS
elev_MLLW			-142.39	2.22	-7.78	-32.78
elev_NGVD			-148.7	-4.1	-14.1	-39.1

Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-	
Chromium (dissolved)	µg/L	50	-	-	-	-	-	
Copper (dissolved)	µg/L	2.4	-	-	-	-	-	
Lead (dissolved)	µg/L	8.1	-	-	-	-	-	
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-	
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-	
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-	
Zinc (dissolved)	µg/L	81	-	-	-	-	-	
Metals~Total								
Arsenic	µg/L	0.14	5.43	116	2.73	0.74 J	2.53	0.67 J
Chromium	µg/L	50	3.31 J	229 J	16.0	2.00 U	2.63	1.32 J
Copper	µg/L	2.4	1.35 J	59.2	9.14	1.00 U	0.34 J	1.00 U
Lead	µg/L	8.1	0.209 J	12.5	1.610	0.864	0.520	0.024 J
Mercury	µg/L	0.025	0.03 J	0.33 J	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	1.41 J	133	5.42	0.90 J	1.11 J	0.48 J
Thallium	µg/L	0.47	0.400 U	0.092 J	0.200 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	10.0 U	71.9	10.3	9.75	5.00 U	5.00 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	95C-75	95C-100	95C-130	95C-160	5106-1		
Sample ID:	WG-071912-DJT-95C-75-218	WG-071912-DJT-95C-100-219	WG-071912-DJT-95C-130-220	WG-071912-DJT-95C-160-221	GW-092705-5106-1-001		
Sample Date:	7/19/2012	7/19/2012	7/19/2012	7/19/2012	9/27/2005		
Sample Depth:	75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS	6 to 9 ft bml		
elev_MLLW	-57.78	-82.78	-112.78	-142.78	-48.3 to -51.3		
elev_NGVD	-64.1	-89.1	-119.1	-149.1	-54.6 to -57.6		
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	0.334 U	
Chromium (dissolved)	µg/L	50	-	-	-	3.68 U	
Copper (dissolved)	µg/L	2.4	-	-	-	26.4 U	
Lead (dissolved)	µg/L	8.1	-	-	-	0.12 U	
Mercury (dissolved)	µg/L	0.025	-	-	-	0.044 U	
Nickel (dissolved)	µg/L	8.2	-	-	-	60.7 U	
Thallium (dissolved)	µg/L	0.47	-	-	-	0.0184 U	
Zinc (dissolved)	µg/L	81	-	-	-	0.302 U	
Metals~Total							
Arsenic	µg/L	0.14	1.96	2.52	2.63	2.52	-
Chromium	µg/L	50	2.60	1.93 J	0.87 J	2.51	-
Copper	µg/L	2.4	0.61 J	0.88 J	0.37 J	0.44 J	-
Lead	µg/L	8.1	0.269	0.213	0.067 J	0.242	-
Mercury	µg/L	0.025	0.20 U	0.04 J	0.03 J	0.03 J	-
Nickel	µg/L	8.2	0.39 J	0.73 J	0.39 J	0.74 J	-
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U	-
Zinc	µg/L	81	5.00 U	22.0	5.00 U	9.92	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-1	5106-1	5106-1	5106-1	5106-1	5106-1
Sample ID:	GW-092705-5106-1-002	GW-092705-5106-1-003	GW-092705-5106-1-004	GW-092705-5106-1-005	GW-092705-5106-1-006	GW-092705-5106-1-007
Sample Date:	9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005
Sample Depth:	10 to 13 ft bml	15 to 18 ft bml	20 to 23 ft bml	25 to 28 ft bml	30 to 33 ft bml	35 to 38 ft bml
elev_MLLW	-52.3 to -55.3	-57.3 to -60.3	-62.3 to -65.3	-67.3 to -70.3	-72.3 to -75.3	-77.3 to -80.3
elev_NGVD	-58.6 to -61.6	-63.6 to -66.6	-68.6 to -71.6	-73.6 to -76.6	-78.6 to -81.6	-83.6 to -86.6

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	5106-1	5106-1	5106-1	5106-1	5106-1	5106-1
Arsenic (dissolved)	µg/L	0.14		0.334 U	0.334 U	8.65	3.34 U	3.34 U	3.34 U
Chromium (dissolved)	µg/L	50		6.66 U	15.8	64.4	174	214	386
Copper (dissolved)	µg/L	2.4		13.3	12.7	11.4	23.9 J	18.7 J	32.6
Lead (dissolved)	µg/L	8.1		0.04 U	0.065 U	0.075 U	0.45 U	0.3 U	0.55 U
Mercury (dissolved)	µg/L	0.025		0.044 U	0.044 U	0.044 U	0.044 U	0.44 U	0.44 U
Nickel (dissolved)	µg/L	8.2		36.3	39	44.4	114	114	145
Thallium (dissolved)	µg/L	0.47		0.0184 U	0.0184 U	0.0184 U	0.184 U	0.184 U	0.184 U
Zinc (dissolved)	µg/L	81		0.302 U	0.302 U	0.302 U	3.02 U	3.02 U	3.02 U

Metals~Total

Parameter	Units	CSI	WG	5106-1	5106-1	5106-1	5106-1	5106-1	5106-1
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-1	5106-1	5106-1	5106-1	5106-1	5106-1
Sample ID:	GW-092705-5106-1-008	GW-092705-5106-1-009	GW-092705-5106-1-010	GW-092805-5106-1-011	GW-092805-5106-1-012	GW-092805-5106-1-013
Sample Date:	9/27/2005	9/27/2005	9/27/2005	9/28/2005	9/28/2005	9/28/2005
Sample Depth:	35 to 38 ft bml	40 to 43 ft bml	45 to 48 ft bml	50 to 53 ft bml	55 to 58 ft bml	60 to 63 ft bml
elev_MLLW	-77.3 to -80.3	-82.3 to -85.3	-87.3 to -90.3	-92.3 to -95.3	-97.3 to -100.3	-102.3 to -105.3
elev_NGVD	-83.6 to -86.6	-88.6 to -91.6	-93.6 to -96.6	-98.6 to -101.6	-103.6 to -106.6	-108.6 to -111.6

(Duplicate)

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	5106-1 (008)	5106-1 (009)	5106-1 (010)	5106-1 (011)	5106-1 (012)	5106-1 (013)
Arsenic (dissolved)	µg/L	0.14		3.34 U	3.34 U	67.9	135	102	88.4
Chromium (dissolved)	µg/L	50		422	264	363	310	195	319
Copper (dissolved)	µg/L	2.4		35	52.4	75.7	58.6	56.4	108
Lead (dissolved)	µg/L	8.1		0.35 U	0.5 U	1.1 U	1 U	1.2 U	0.167 U
Mercury (dissolved)	µg/L	0.025		0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Nickel (dissolved)	µg/L	8.2		161	88	222	265	198	273
Thallium (dissolved)	µg/L	0.47		0.184 U	0.184 U	0.184 U	0.184 U	0.184 U	0.184 U
Zinc (dissolved)	µg/L	81		3.02 U	3.02 U	38.5	63.5	68.1	427

Metals~Total

Parameter	Units	CSI	WG	5106-1 (008)	5106-1 (009)	5106-1 (010)	5106-1 (011)	5106-1 (012)	5106-1 (013)
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-1	5106-1	5106-1	5106-1	5106-1	5106-1
Sample ID:	GW-092805-5106-1-014	GW-092805-5106-1-015	GW-092805-5106-1-016	GW-092805-5106-1-017	GW-092805-5106-1-018	GW-092805-5106-1-019
Sample Date:	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/29/2005
Sample Depth:	65 to 68 ft bml	70 to 73 ft bml	75 to 78 ft bml	80 to 83 ft bml	85 to 88 ft bml	90 to 93 ft bml
elev_MLLW	-107.3 to -110.3	-112.3 to -115.3	-117.3 to -120.3	-122.3 to -125.3	-127.3 to -130.3	-132.3 to -135.3
elev_NGVD	-113.6 to -116.6	-118.6 to -121.6	-123.6 to -126.6	-128.6 to -131.6	-133.6 to -136.6	-138.6 to -141.6

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	83.8	70.5	16.3 U	2.3 U	4.08 U	3.25 U
Chromium (dissolved)	µg/L	50	552	1000	31.9	8.4 U	8.4 U	6.99 U
Copper (dissolved)	µg/L	2.4	88.7	85.9	6.02 U	2.89 U	1.81 U	2.58 U
Lead (dissolved)	µg/L	8.1	0.167 U	0.167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.63 J	0.44 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	391	536	30	7.16 U	2.26 U	3.85 U
Thallium (dissolved)	µg/L	0.47	0.184 U	0.184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	325 U	93 U	0.57 U	0.302 U	0.302 U	0.302 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	5106-1	5106-2	5106-2	5106-2	5106-2	5106-2
Sample ID:	GW-092905-5106-1-020	GW-013006-5106-2-001	GW-013006-5106-2-002	GW-013006-5106-2-003	GW-013006-5106-2-004	GW-013006-5106-2-005
Sample Date:	9/29/2005	1/30/2006	1/30/2006	1/30/2006	1/30/2006	1/30/2006
Sample Depth:	95 to 98 ft bml	0 to 3 ft bml	4 to 7 ft bml	14 to 17 ft bml	24 to 27 ft bml	34 to 37 ft bml
elev_MLLW	-137.3 to -140.3	-44.6 to -47.6	-48.6 to -51.6	-58.6 to -61.6	-68.6 to -71.6	-78.6 to -81.6
elev_NGVD	-143.6 to -146.6	-50.9 to -53.9	-54.9 to -57.9	-64.9 to -67.9	-74.9 to -77.9	-84.9 to -87.9

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	6.63 U	178	253	158	147 J	161 J
Chromium (dissolved)	µg/L	50	3.92 U	7.0 J	8.2 J	62.0	89.6	137 U
Copper (dissolved)	µg/L	2.4	1.97 U	100	162	451	390	211
Lead (dissolved)	µg/L	8.1	0.0167 U	2.2 U	2.2 U	31.8	11 U	11 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.080 U	0.057 U	0.15 U	0.49 U	0.84 U
Nickel (dissolved)	µg/L	8.2	7.34 U	21.0 U	22.0 U	37.3 U	51.6	160 U
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.20 U	0.20 U	1.0 U	1.1 J	1.0 U
Zinc (dissolved)	µg/L	81	5.57 U	148 U	318 U	49400	295 J	1130 J

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-2	5106-2	5106-2	5106-2	5106-2	5106-2
Sample ID:	GW-013006-5106-2-006	GW-013106-5106-2-007	GW-013106-5106-2-008	GW-013106-5106-2-009	GW-013106-5106-2-010	GW-013106-5106-2-011
Sample Date:	1/30/2006	1/31/2006	1/31/2006	1/31/2006	1/31/2006	1/31/2006
Sample Depth:	44 to 47 ft bml	54 to 57 ft bml	64 to 67 ft bml	64 to 67 ft bml	74 to 77 ft bml	84 to 87 ft bml
elev_MLLW	-88.6 to -91.6	-98.6 to -101.6	-108.6 to -111.6	-108.6 to -111.6	-118.6 to -121.6	-128.6 to -131.6
elev_NGVD	-94.9 to -97.9	-104.9 to -107.9	-114.9 to -117.9	-114.9 to -117.9 (Duplicate)	-124.9 to -127.9	-134.9 to -137.9

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	5106-2 (006)	5106-2 (007)	5106-2 (008)	5106-2 (009)	5106-2 (010)	5106-2 (011)
Arsenic (dissolved)	µg/L	0.14		178 J	9.0 U	114 J	109 J	127 J	112 J
Chromium (dissolved)	µg/L	50		200	385	349	331	744	3.8 U
Copper (dissolved)	µg/L	2.4		336	454	426	410	231	52.0
Lead (dissolved)	µg/L	8.1		17.2 J	11 U	11 U	11 U	11 U	26.2
Mercury (dissolved)	µg/L	0.025		2.0 U	0.60 U	1.1 U	0.80 U	0.64 U	0.16 U
Nickel (dissolved)	µg/L	8.2		181	236	279	266	272 U	10.3 U
Thallium (dissolved)	µg/L	0.47		1.4 J	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U
Zinc (dissolved)	µg/L	81		1120 J	375 J	230 U	230 U	238 J	7870

Metals~Total

Parameter	Units	CSI	WG	5106-2 (006)	5106-2 (007)	5106-2 (008)	5106-2 (009)	5106-2 (010)	5106-2 (011)
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-2	5106-2	5106-3	5106-3	5106-3	5106-3
Sample ID:	GW-013106-5106-2-012	GW-013106-5106-2-013	GW-091905-5106-3-001	GW-091905-5106-3-002	GW-091905-5106-3-003	GW-091905-5106-3-004
Sample Date:	1/31/2006	1/31/2006	9/19/2005	9/19/2005	9/19/2005	9/19/2005
Sample Depth:	94 to 97 ft bml	104 to 107 ft bml	4 to 7 ft bml	9 to 12 ft bml	14 to 17 ft bml	19 to 22 ft bml
elev_MLLW	-138.6 to -141.6	-148.6 to -151.6	-46 to -49	-51 to -54	-56 to -59	-61 to -64
elev_NGVD	-144.9 to -147.9	-154.9 to -157.9	-52.3 to -55.3	-57.3 to -60.3	-62.3 to -65.3	-67.3 to -70.3

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	55.0	33.3	15.5	9.27	4.33 U	31.3
Chromium (dissolved)	µg/L	50	7.2 J	3.5 U	447	317	122	87.1
Copper (dissolved)	µg/L	2.4	88.8 J	29.4 J	41.6	40.6	38.1	37.5
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	0.205 U	0.325 U	0.115 U	0.245 U
Mercury (dissolved)	µg/L	0.025	0.38 U	0.041 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	54.2 J	4.1 U	102	89.9	78.7	70.9
Thallium (dissolved)	µg/L	0.47	0.20 U	0.26 J	0.025 U	0.025 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	375 U	237 U	24.3 U	17.5 U	10.5 U	10 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-3	5106-3	5106-3	5106-3	5106-3	5106-3
Sample ID:	GW-091905-5106-3-005	GW-092105-5106-3-015	GW-092105-5106-3-016	GW-092105-5106-3-017	GW-092105-5106-3-018	GW-092105-5106-3-019
Sample Date:	9/19/2005	9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/21/2005
Sample Depth:	25 to 28 ft bml	74 to 77 ft bml	79 to 82 ft bml	79 to 82 ft bml	84 to 87 ft bml	89 to 92 ft bml
elev_MLLW	-67 to -70	-116 to -119	-121 to -124	-121 to -124	-126 to -129	-131 to -134
elev_NGVD	-73.3 to -76.3	-122.3 to -125.3	-127.3 to -130.3	-127.3 to -130.3 (Duplicate)	-132.3 to -135.3	-137.3 to -140.3
Parameters	Units	CSI	WG			
Metals~Dissolved						
Arsenic (dissolved)	µg/L	0.14	8.33 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	11.8	5.65 U	5.56 U	5.71 U
Copper (dissolved)	µg/L	2.4	37.9	3.49 U	1.99 U	2.2 U
Lead (dissolved)	µg/L	8.1	0.165 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	42.1	11.4 U	7.72 U	7.45 U
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.02 U	0.115 U	0.08 U
Zinc (dissolved)	µg/L	81	7.78 U	3.02 U	0.302 U	2.09 U
						1.7 U
						0.334 U
						8.84 U
						6.76 U
						0.08 U
						0.044 U
						12.3 U
						0.045 U
						0.302 U
Metals~Total						
Arsenic	µg/L	0.14	-	-	-	-
Chromium	µg/L	50	-	-	-	-
Copper	µg/L	2.4	-	-	-	-
Lead	µg/L	8.1	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-
Zinc	µg/L	81	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-3	5106-3	5106-3	5106-3	5106-3	5106-5
Sample ID:	GW-092105-5106-3-020	GW-092205-5106-3-021	GW-092205-5106-3-022	GW-092205-5106-3-023	GW-092205-5106-3-024	GW-090905-5106-5-001
Sample Date:	9/21/2005	9/22/2005	9/22/2005	9/22/2005	9/22/2005	9/9/2005
Sample Depth:	94 to 97 ft bml	99 to 102 ft bml	104 to 107 ft bml	109 to 112 ft bml	114 to 117 ft bml	4 to 7 ft bml
elev_MLLW	-136 to -139	-141 to -144	-146 to -149	-151 to -154	-156 to -159	-46.1 to -49.1
elev_NGVD	-142.3 to -145.3	-147.3 to -150.3	-152.3 to -155.3	-157.3 to -160.3	-162.3 to -165.3	-52.4 to -55.4

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	6.37	0.98 J	0.334 U	0.334 U	3.33 U	0.334 U
Chromium (dissolved)	µg/L	50	6.54 U	7.08 U	5.82 U	6.05 U	3.73 U	20.7 U
Copper (dissolved)	µg/L	2.4	3.95 U	4.22 U	6.16 U	49.6 J	14.6 U	23.5 U
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.11 U	0.075 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	11 U	10.3 U	19.5 U	51.4 J	18 U	21.9 U
Thallium (dissolved)	µg/L	0.47	0.04 U	0.035 U	0.03 U	0.11 U	0.055 U	0.025 U
Zinc (dissolved)	µg/L	81	0.42 U	0.88 U	1.65 U	0.302 U	0.302 U	1.67 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-5	5106-5	5106-5	5106-5	5106-5	5106-5
Sample ID:	GW-090905-5106-5-002	GW-090905-5106-5-003	GW-090905-5106-5-004	GW-090905-5106-5-005	GW-090905-5106-5-006	GW-090905-5106-5-007
Sample Date:	9/9/2005	9/9/2005	9/9/2005	9/9/2005	9/9/2005	9/9/2005
Sample Depth:	9 to 12 ft bml	14 to 17 ft bml	19 to 22 ft bml	24 to 27 ft bml	29 to 32 ft bml	34 to 37 ft bml
elev_MLLW	-51.1 to -54.1	-56.1 to -59.1	-61.1 to -64.1	-66.1 to -69.1	-71.1 to -74.1	-76.1 to -79.1
elev_NGVD	-57.4 to -60.4	-62.4 to -65.4	-67.4 to -70.4	-72.4 to -75.4	-77.4 to -80.4	-82.4 to -85.4

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	5106-5 (002)	5106-5 (003)	5106-5 (004)	5106-5 (005)	5106-5 (006)	5106-5 (007)
Arsenic (dissolved)	µg/L	0.14		11.3	11.4	5.66	0.67 J	6.36	7.02
Chromium (dissolved)	µg/L	50		198	475	43.7	17.7 U	410	234
Copper (dissolved)	µg/L	2.4		25.9 U	79.8	17.9 U	11 U	32.5	89.6
Lead (dissolved)	µg/L	8.1		0.0167 U	0.1 U	0.0167 U	0.0167 U	0.335 U	0.0167 U
Mercury (dissolved)	µg/L	0.025		0.044 U	0.179 J	0.044 U	0.044 U	0.098 J	0.044 U
Nickel (dissolved)	µg/L	8.2		75.8 J	156 J	43.1 J	23.4 U	142 J	94.5 J
Thallium (dissolved)	µg/L	0.47		0.03 U	0.04 U	0.02 U	0.04 U	0.07 U	0.055 U
Zinc (dissolved)	µg/L	81		8.06 U	23.4 U	3.18 U	3.24 U	16.4 U	20.9 U

Metals~Total

Parameter	Units	CSI	WG	5106-5 (002)	5106-5 (003)	5106-5 (004)	5106-5 (005)	5106-5 (006)	5106-5 (007)
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-5	5106-5	5106-5	5106-5	5106-5	5106-5
Sample ID:	GW-090905-5106-5-008	GW-090905-5106-5-009	GW-090905-5106-5-010	GW-090905-5106-5-011	GW-091005-5106-5-012	GW-091005-5106-5-013
Sample Date:	9/9/2005	9/9/2005	9/9/2005	9/9/2005	9/10/2005	9/10/2005
Sample Depth:	39 to 42 ft bml	44 to 47 ft bml	49 to 52 ft bml	54 to 57 ft bml	59 to 61 ft bml	64 to 67 ft bml
elev_MLLW	-81.1 to -84.1	-86.1 to -89.1	-91.1 to -94.1	-96.1 to -99.1	-101.1 to -103.1	-106.1 to -109.1
elev_NGVD	-87.4 to -90.4	-92.4 to -95.4	-97.4 to -100.4	-102.4 to -105.4	-107.4 to -109.4	-112.4 to -115.4

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	5106-5 (008)	5106-5 (009)	5106-5 (010)	5106-5 (011)	5106-5 (012)	5106-5 (013)
Arsenic (dissolved)	µg/L	0.14		0.334 U	0.334 U	0.334 U	3.1	4.03	0.334 U
Chromium (dissolved)	µg/L	50		16.3 U	63.4	4.15 U	171	434	25.9 U
Copper (dissolved)	µg/L	2.4		11.5 U	17.6 U	15.6 U	24.5 U	41.7	4.63 U
Lead (dissolved)	µg/L	8.1		0.0167 U	0.07 U	0.0167 U	0.0167 U	0.2 U	0.0167 U
Mercury (dissolved)	µg/L	0.025		0.044 U	0.056 J	0.044 U	0.044 U	0.044 U	0.047 J
Nickel (dissolved)	µg/L	8.2		19.7 U	51.4 J	23.8 U	57.7 J	86.1 J	38.2 J
Thallium (dissolved)	µg/L	0.47		0.0184 U	0.025 U	0.0184 U	0.025 U	0.03 U	0.0184 U
Zinc (dissolved)	µg/L	81		1.65 U	2.84 U	1.7 U	8.94 U	14 U	0.302 U

Metals~Total

Parameter	Units	CSI	WG	5106-5 (008)	5106-5 (009)	5106-5 (010)	5106-5 (011)	5106-5 (012)	5106-5 (013)
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-5	5106-5	5106-5	5106-6	5106-6	5106-6
Sample ID:	GW-091205-5106-5-014	GW-091205-5106-5-015	GW-091205-5106-5-016	GW-101705-5106-6-001	GW-101705-5106-6-002	GW-101705-5106-6-003
Sample Date:	9/12/2005	9/12/2005	9/12/2005	10/17/2005	10/17/2005	10/17/2005
Sample Depth:	69 to 72 ft bml	74 to 77 ft bml	79 to 82 ft bml	8 to 11 ft bml	13 to 16 ft bml	18 to 21 ft bml
elev_MLLW	-111.1 to -114.1	-116.1 to -119.1	-121.1 to -124.1	-50.6 to -53.6	-55.6 to -58.6	-60.6 to -63.6
elev_NGVD	-117.4 to -120.4	-122.4 to -125.4	-127.4 to -130.4	-56.9 to -59.9	-61.9 to -64.9	-66.9 to -69.9

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	5106-5	5106-5	5106-5	5106-6	5106-6	5106-6
Arsenic (dissolved)	µg/L	0.14		0.334 U	0.334 U	0.445 J	122 J	37.1 J	79.7 J
Chromium (dissolved)	µg/L	50		4.63 U	1.67 U	2.52 U	213 J	738 J	972 J
Copper (dissolved)	µg/L	2.4		5.57 U	17.3 U	8.74 U	144	140	205
Lead (dissolved)	µg/L	8.1		0.0167 U	0.0167 U	0.0167 U	11 U	11 U	11 U
Mercury (dissolved)	µg/L	0.025		0.044 U	0.044 U	0.044 U	1.4 U	3.2 J	1.5 U
Nickel (dissolved)	µg/L	8.2		28.9	34	20.9 U	106	160	178
Thallium (dissolved)	µg/L	0.47		0.105 U	0.05 U	0.035 U	64.5 J	68.7 J	59.1 J
Zinc (dissolved)	µg/L	81		0.302 U	1.8 U	0.302 U	230 U	230 U	230 U

Metals~Total

Parameter	Units	CSI	WG	5106-5	5106-5	5106-5	5106-6	5106-6	5106-6
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-6	5106-6	5106-6	5106-6	5106-6	5106-6
Sample ID:	GW-101705-5106-6-004	GW-101705-5106-6-005	GW-101805-5106-6-006	GW-101805-5106-6-007	GW-101805-5106-6-008	GW-101805-5106-6-009
Sample Date:	10/17/2005	10/17/2005	10/18/2005	10/18/2005	10/18/2005	10/18/2005
Sample Depth:	23 to 26 ft bml	23 to 26 ft bml	28 to 31 ft bml	33 to 36 ft bml	38 to 41 ft bml	43 to 46 ft bml
elev_MLLW	-65.6 to -68.6	-65.6 to -68.6	-70.6 to -73.6	-75.6 to -78.6	-80.6 to -83.6	-85.6 to -88.6
elev_NGVD	-71.9 to -74.9	-71.9 to -74.9	-76.9 to -79.9	-81.9 to -84.9	-86.9 to -89.9	-91.9 to -94.9

(Duplicate)

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	21.8 J	9.0 U	45.6 J	149 J	392 J	288 J
Chromium (dissolved)	µg/L	50	283 J	336 J	1020 J	1730 J	68.1	4480 J
Copper (dissolved)	µg/L	2.4	249	307	295	1930	486	1930
Lead (dissolved)	µg/L	8.1	11 U	11 U	11 U	11 U	11 U	11 U
Mercury (dissolved)	µg/L	0.025	1.3 U	1.7 J	1.5 U	1.7 U	1.3 U	1.5 U
Nickel (dissolved)	µg/L	8.2	98.1	121	144	477	78.4	899
Thallium (dissolved)	µg/L	0.47	49.0 J	45.3 J	42.0 J	6.9 J	25.5 J	9.4 J
Zinc (dissolved)	µg/L	81	230 U	230 U	230 U	230 U	230 U	424 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-6	5106-6	5106-6	5106-6	5106-6	5106-6
Sample ID:	GW-101805-5106-6-010	GW-101805-5106-6-011	GW-101805-5106-6-012	GW-101805-5106-6-013	GW-101805-5106-6-014	GW-101805-5106-6-015
Sample Date:	10/18/2005	10/18/2005	10/18/2005	10/18/2005	10/18/2005	10/18/2005
Sample Depth:	48 to 51 ft bml	53 to 56 ft bml	58 to 61 ft bml	63 to 66 ft bml	68 to 71 ft bml	73 to 76 ft bml
elev_MLLW	-90.6 to -93.6	-95.6 to -98.6	-100.6 to -103.6	-105.6 to -108.6	-110.6 to -113.6	-115.6 to -118.6
elev_NGVD	-96.9 to -99.9	-101.9 to -104.9	-106.9 to -109.9	-111.9 to -114.9	-116.9 to -119.9	-121.9 to -124.9

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	5106-6 (010)	5106-6 (011)	5106-6 (012)	5106-6 (013)	5106-6 (014)	5106-6 (015)
Arsenic (dissolved)	µg/L	0.14		47.4 J	497 J	259 J	38.3	170	21.4
Chromium (dissolved)	µg/L	50		772 J	94.7	92.5	35.6 U	13.7 U	20.8 U
Copper (dissolved)	µg/L	2.4		281	569	388	76.3	72.4	88.8
Lead (dissolved)	µg/L	8.1		11 U	11 U	11 U	49.0	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025		1.5 U	1.3 U	1.2 U	0.10 U	0.10 U	0.096 U
Nickel (dissolved)	µg/L	8.2		97.9	94.7	86.1	17.4 J	16.3	21.4
Thallium (dissolved)	µg/L	0.47		44.8 J	24.5 J	26.0 J	38.3 U	5.5 U	4.4 U
Zinc (dissolved)	µg/L	81		230 U	230 U	230 U	230 U	46 U	46 U

Metals~Total

Parameter	Units	CSI	WG	5106-6 (010)	5106-6 (011)	5106-6 (012)	5106-6 (013)	5106-6 (014)	5106-6 (015)
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-6	5106-6	5106-6	5106-6	5106-6	5106-6
Sample ID:	GW-101905-5106-6-016	GW-101905-5106-6-017	GW-101905-5106-6-018	GW-101905-5106-6-019	GW-101905-5106-6-020	GW-101905-5106-6-021
Sample Date:	10/19/2005	10/19/2005	10/19/2005	10/19/2005	10/19/2005	10/19/2005
Sample Depth:	78 to 81 ft bml	83 to 86 ft bml	88 to 91 ft bml	93 to 96 ft bml	98 to 101 ft bml	103 to 106 ft bml
elev_MLLW	-120.6 to -123.6	-125.6 to -128.6	-130.6 to -133.6	-135.6 to -138.6	-140.6 to -143.6	-145.6 to -148.6
elev_NGVD	-126.9 to -129.9	-131.9 to -134.9	-136.9 to -139.9	-141.9 to -144.9	-146.9 to -149.9	-151.9 to -154.9

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	5106-6	5106-6	5106-6	5106-6	5106-6	5106-6
Arsenic (dissolved)	µg/L	0.14		108	90.6	158	165	180	69.0
Chromium (dissolved)	µg/L	50		26.3 U	17.0 U	16.0 U	17.0 U	16.6 U	17.9 U
Copper (dissolved)	µg/L	2.4		77.1	94.7	67.7	79.0	80.8	96.2
Lead (dissolved)	µg/L	8.1		2.2 U	2.2 U	2.2 U	2.2 U	4.5	2.2 U
Mercury (dissolved)	µg/L	0.025		0.041 U	0.070 U	0.062 U	0.050 U	0.041 U	0.048 U
Nickel (dissolved)	µg/L	8.2		17.2	20.9	20.0	29.0	21.4	39.0
Thallium (dissolved)	µg/L	0.47		4.6 U	4.1 U	5.4 U	4.8 U	4.5 U	4.1 U
Zinc (dissolved)	µg/L	81		46 U	46 U	46 U	46 U	46 U	46 U

Metals~Total

Parameter	Units	CSI	WG	5106-6	5106-6	5106-6	5106-6	5106-6	5106-6
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-7	5106-7	5106-7	5106-7	5106-7	5106-7
Sample ID:	GW-081005-5106-7-001	GW-081005-5106-7-002	GW-081005-5106-7-003	GW-081005-5106-7-004	GW-081005-5106-7-005	GW-081005-5106-7-006
Sample Date:	8/10/2005	8/10/2005	8/10/2005	8/10/2005	8/10/2005	8/10/2005
Sample Depth:	6 to 9 ft bml	11 to 14 ft bml	16 to 19 ft bml	21 to 24 ft bml	21 to 24 ft bml	26 to 29 ft bml
elev_MLLW	-47.73 to -50.73	-52.73 to -55.73	-57.73 to -60.73	-62.73 to -65.73	-62.73 to -65.73	-67.73 to -70.73
elev_NGVD	-54 to -57	-59 to -62	-64 to -67	-69 to -72	-69 to -72 (Duplicate)	-74 to -77

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	5106-7-001	5106-7-002	5106-7-003	5106-7-004	5106-7-005	5106-7-006
Arsenic (dissolved)	µg/L	0.14		4.14	2.32 J	5.74	7.43	8.22	7.91
Chromium (dissolved)	µg/L	50		574	391	233	112	138	219
Copper (dissolved)	µg/L	2.4		48.8	23.4	47.7 J	21.1 J	44.8	15.8
Lead (dissolved)	µg/L	8.1		0.055 U	0.42 U	0.39 U	0.425 U	0.42 U	0.355 U
Mercury (dissolved)	µg/L	0.025		0.4 U	0.4 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2		142	92.6	86.1	52.6	64.1	54.9
Thallium (dissolved)	µg/L	0.47		0.0184 U	0.0184 U	0.18 U	0.1 U	0.125 U	0.16 U
Zinc (dissolved)	µg/L	81		23.2	30.4	24.7 J	20.5 J	14.6	25.5

Metals~Total

Parameter	Units	CSI	WG	5106-7-001	5106-7-002	5106-7-003	5106-7-004	5106-7-005	5106-7-006
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	5106-7	5106-7	5106-7	5106-7	5106-7	5106-7
Sample ID:	GW-081005-5106-7-007	GW-081005-5106-7-008	GW-081105-5106-7-009	GW-081105-5106-7-010	GW-081105-5106-7-011	GW-081105-5106-7-012
Sample Date:	8/10/2005	8/10/2005	8/11/2005	8/11/2005	8/11/2005	8/11/2005
Sample Depth:	31 to 34 ft bml	36 to 39 ft bml	41 to 44 ft bml	46 to 49 ft bml	51 to 54 ft bml	56 to 59 ft bml
elev_MLLW	-72.73 to -75.73	-77.73 to -80.73	-82.73 to -85.73	-87.73 to -90.73	-92.73 to -95.73	-97.73 to -100.73
elev_NGVD	-79 to -82	-84 to -87	-89 to -92	-94 to -97	-99 to -102	-104 to -107

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	16.4	5.87	0.38 J	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	314	149	58.6	14.1	7.71 U	7.23 U
Copper (dissolved)	µg/L	2.4	26.4	33.5	22.6	5.59	1.86 J	5.4 J
Lead (dissolved)	µg/L	8.1	0.375 U	0.0167 U	0.08 J	0.03 J	0.435 U	0.39 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	97.5	75.2 J	39.7 J	41.2 J	16	28.5
Thallium (dissolved)	µg/L	0.47	0.235 U	0.0184 U	0.0184 U	0.0184 U	0.08 U	0.155 U
Zinc (dissolved)	µg/L	81	24.6	9.12	6.53	64.4	33.4 J	450 J

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-7	5106-7	5106-7	5106-7	5106-7	5106-8		
Sample ID:	GW-081105-5106-7-013	GW-081105-5106-7-014	GW-081105-5106-7-015	GW-081205-5106-7-016	GW-081205-5106-7-017	GW-080305-5106-8-001		
Sample Date:	8/11/2005	8/11/2005	8/11/2005	8/12/2005	8/12/2005	8/3/2005		
Sample Depth:	61 to 64 ft bml	66 to 69 ft bml	71 to 74 ft bml	76 to 79 ft bml	81 to 84 ft bml	14 to 17 ft bml		
elev_MLLW	-102.73 to -105.73	-107.73 to -110.73	-112.73 to -115.73	-117.73 to -120.73	-122.73 to -125.73	-39.2 to -42.2		
elev_NGVD	-109 to -112	-114 to -117	-119 to -122	-124 to -127	-129 to -132	-45.5 to -48.5		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	1.93 U	0.334 U	0.334 U	0.334 U	67.9
Chromium (dissolved)	µg/L	50	7.32 U	8.46 U	2.17 J	2.69	7.04 U	150
Copper (dissolved)	µg/L	2.4	5.63 J	5.92 J	19.4 J	11.4 J	9.84 U	75.5 J
Lead (dissolved)	µg/L	8.1	0.34 U	0.185 U	0.0167 U	0.0167 U	0.27 U	2.13 J
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	32.5	37.2	37.2	31.7	14.9 U	241
Thallium (dissolved)	µg/L	0.47	0.115 U	0.14 U	0.0184 U	0.0184 U	0.045 U	0.65 U
Zinc (dissolved)	µg/L	81	18.9 J	0.302 U	12.3	101	10.7 U	32.8 J
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-8	5106-8	5106-8	5106-8	5106-8	5106-8
Sample ID:	GW-080305-5106-8-002	GW-080405-5106-8-003	GW-080405-5106-8-004	GW-080405-5106-8-005	GW-080405-5106-8-006	GW-080505-5106-8-007
Sample Date:	8/3/2005	8/4/2005	8/4/2005	8/4/2005	8/4/2005	8/5/2005
Sample Depth:	19 to 22 ft bml	24 to 27 ft bml	29 to 32 ft bml	34 to 37 ft bml	39 to 42 ft bml	44 to 47 ft bml
elev_MLLW	-44.2 to -47.2	-49.2 to -52.2	-54.2 to -57.2	-59.2 to -62.2	-64.2 to -67.2	-69.2 to -72.2
elev_NGVD	-50.5 to -53.5	-55.5 to -58.5	-60.5 to -63.5	-65.5 to -68.5	-70.5 to -73.5	-75.5 to -78.5

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	5106-8 (GW-080305-5106-8-002)	5106-8 (GW-080405-5106-8-003)	5106-8 (GW-080405-5106-8-004)	5106-8 (GW-080405-5106-8-005)	5106-8 (GW-080405-5106-8-006)	5106-8 (GW-080505-5106-8-007)
Arsenic (dissolved)	µg/L	0.14		47.1	41.1	12.1	11.9	15.1	12.5
Chromium (dissolved)	µg/L	50		354	220	213	159	175	87.6
Copper (dissolved)	µg/L	2.4		98.2 J	106 J	64.5 J	43 J	34.2 J	24.2 J
Lead (dissolved)	µg/L	8.1		0.44 U	0.395 U	0.415 U	0.32 U	0.82 U	0.985 U
Mercury (dissolved)	µg/L	0.025		0.044 U	0.113 J	0.044 U	0.055 J	0.051 J	0.044 U
Nickel (dissolved)	µg/L	8.2		236	140	119	77.5	83.4	47.4
Thallium (dissolved)	µg/L	0.47		0.25 U	0.355 U	0.27 U	0.27 U	0.33 U	0.295 U
Zinc (dissolved)	µg/L	81		34.6 J	25.7 J	19.1 J	17.4 J	26.4 J	15 J

Metals~Total

Parameter	Units	CSI	WG	5106-8 (GW-080305-5106-8-002)	5106-8 (GW-080405-5106-8-003)	5106-8 (GW-080405-5106-8-004)	5106-8 (GW-080405-5106-8-005)	5106-8 (GW-080405-5106-8-006)	5106-8 (GW-080505-5106-8-007)
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-8	5106-8	5106-8	5106-8	5106-8	5106-8
Sample ID:	GW-080505-5106-8-008	GW-080505-5106-8-009	GW-080805-5106-8-010	GW-080805-5106-8-011	GW-080805-5106-8-012	GW-080805-5106-8-013
Sample Date:	8/5/2005	8/5/2005	8/8/2005	8/8/2005	8/8/2005	8/8/2005
Sample Depth:	49 to 52 ft bml	54 to 57 ft bml	69 to 72 ft bml	74 to 77 ft bml	79 to 82 ft bml	84 to 87 ft bml
elev_MLLW	-74.2 to -77.2	-79.2 to -82.2	-94.2 to -97.2	-99.2 to -102.2	-104.2 to -107.2	-109.2 to -112.2
elev_NGVD	-80.5 to -83.5	-85.5 to -88.5	-100.5 to -103.5	-105.5 to -108.5	-110.5 to -113.5	-115.5 to -118.5

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	17.3	14.3	3.8 U	10.3	7.5 U	4.65 U
Chromium (dissolved)	µg/L	50	98.6	111	116	148	152	326
Copper (dissolved)	µg/L	2.4	17.2 J	17 J	89.9 J	99.1 J	31.3 J	28.2 J
Lead (dissolved)	µg/L	8.1	0.58 U	0.785 U	0.19 U	0.12 U	0.26 U	0.32 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	49.8	47	78.6	90.2	39.1	60
Thallium (dissolved)	µg/L	0.47	0.325 U	0.33 U	0.06 U	0.12 U	0.05 U	0.0367 U
Zinc (dissolved)	µg/L	81	9.42 J	11 J	8.09 J	7.21 J	1.2 J	0.603 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-8	5106-8	5106-8	5106-8	5106-8	5106-8			
Sample ID:	GW-080805-5106-8-014	GW-080905-5106-8-015	GW-080905-5106-8-016	GW-080905-5106-8-017	GW-080905-5106-8-018	GW-080905-5106-8-019			
Sample Date:	8/8/2005	8/9/2005	8/9/2005	8/9/2005	8/9/2005	8/9/2005			
Sample Depth:	89 to 92 ft bml	94 to 97 ft bml	94 to 97 ft bml	99 to 102 ft bml	104 to 107 ft bml	109 to 112 ft bml			
elev_MLLW	-114.2 to -117.2	-119.2 to -122.2	-119.2 to -122.2	-124.2 to -127.2	-129.2 to -132.2	-134.2 to -137.2			
elev_NGVD	-120.5 to -123.5	-125.5 to -128.5	-125.5 to -128.5	-130.5 to -133.5	-135.5 to -138.5	-140.5 to -143.5			
			(Duplicate)						
Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14		0.334 U	2.68 U	3.1 U	0.334 U	0.334 U	0.685 U
Chromium (dissolved)	µg/L	50		11.5	6.48 U	5.76 U	5.34 U	4.51	3.1
Copper (dissolved)	µg/L	2.4		8.98 J	8.79 J	7.54 J	6.99 J	19.2 J	8.62 J
Lead (dissolved)	µg/L	8.1		0.7 U	0.775 U	0.4 U	0.545 U	0.19 U	0.13 U
Mercury (dissolved)	µg/L	0.025		0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2		46.4	39.9	39.5	33	23.1	11.8
Thallium (dissolved)	µg/L	0.47		0.145 U	0.535 U	0.45 U	0.385 U	0.095 U	0.06 U
Zinc (dissolved)	µg/L	81		0.302 U	8.05 J	5.29 J	0.302 U	29.8 J	0.695 U
Metals~Total									
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	5106-9	5106-9	5106-9	5106-9	5106-9	5106-9
Sample ID:	GW-110105-5106-9-001	GW-110105-5106-9-002	GW-110105-5106-9-003	GW-110105-5106-9-004	GW-110105-5106-9-005	GW-110105-5106-9-006
Sample Date:	11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/1/2005
Sample Depth:	2 to 5 ft bml	7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml
elev_MLLW	-38.1 to -41.1	-43.1 to -46.1	-48.1 to -51.1	-53.1 to -56.1	-58.1 to -61.1	-63.1 to -66.1
elev_NGVD	-44.4 to -47.4	-49.4 to -52.4	-54.4 to -57.4	-59.4 to -62.4	-64.4 to -67.4	-69.4 to -72.4

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	108	147	121	55.5 U	99.6	167
Chromium (dissolved)	µg/L	50	5.2 U	6.4 U	7.1 U	9.6 U	20.7	28.0
Copper (dissolved)	µg/L	2.4	93.5	103	131	161	182	304
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	0.20 U	0.47 U	0.20 U	0.30 U	0.20 U	0.20 U
Nickel (dissolved)	µg/L	8.2	17.8 U	22.2 U	32.0	48.7	34.9	35.0
Thallium (dissolved)	µg/L	0.47	2.3 U	1.8 U	1.7 U	1.6 U	1.4 U	0.95 U
Zinc (dissolved)	µg/L	81	46 U	46 U	46 U	46 U	46 U	46 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-9	5106-9	5106-9	5106-9	5106-9	5106-9			
Sample ID:	GW-110105-5106-9-007	GW-110105-5106-9-008	GW-110105-5106-9-009	GW-110105-5106-9-010	GW-110105-5106-9-011	GW-110105-5106-9-012			
Sample Date:	11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/1/2005			
Sample Depth:	32 to 35 ft bml	37 to 40 ft bml	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml			
elev_MLLW	-68.1 to -71.1	-73.1 to -76.1	-73.1 to -76.1	-78.1 to -81.1	-83.1 to -86.1	-88.1 to -91.1			
elev_NGVD	-74.4 to -77.4	-79.4 to -82.4	-79.4 to -82.4	-84.4 to -87.4	-89.4 to -92.4	-94.4 to -97.4			
			(Duplicate)						
Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14		190	80.8	48.4 U	98.5	77.6 U	30.1 J
Chromium (dissolved)	µg/L	50		7.6 U	21.6	26.2	43.0	30.5 U	22.7 J
Copper (dissolved)	µg/L	2.4		117	353	395	408	93.3 J	60 U
Lead (dissolved)	µg/L	8.1		2.2 U	2.2 U	2.2 U	2.2 U	24.4 J	22 U
Mercury (dissolved)	µg/L	0.025		0.49 U	0.41 U	0.41 U	0.41 U	0.41 U	2.1 U
Nickel (dissolved)	µg/L	8.2		33.1	32.0	34.2	41.0	32 U	32 U
Thallium (dissolved)	µg/L	0.47		2.0 U	1.1 U	0.79 U	0.85 U	64.9 U	26.1 J
Zinc (dissolved)	µg/L	81		46 U	46 U	46 U	46 U	460 U	460 U
Metals~Total									
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-9	5106-9	5106-9	5106-9	5106-9	5106-9
Sample ID:	GW-110105-5106-9-013	GW-110105-5106-9-014	GW-110105-5106-9-015	GW-110105-5106-9-016	GW-110205-5106-9-017	GW-110205-5106-9-018
Sample Date:	11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/2/2005	11/2/2005
Sample Depth:	57 to 60 ft bml	62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml	77 to 80 ft bml	82 to 85 ft bml
elev_MLLW	-93.1 to -96.1	-98.1 to -101.1	-103.1 to -106.1	-108.1 to -111.1	-113.1 to -116.1	-118.1 to -121.1
elev_NGVD	-99.4 to -102.4	-104.4 to -107.4	-109.4 to -112.4	-114.4 to -117.4	-119.4 to -122.4	-124.4 to -127.4

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	21.0 J	18 U	18 U	18 U	39.5 J	28.2 J
Chromium (dissolved)	µg/L	50	65.9 J	55.9 J	163	94.7 J	6.9 J	1.4 J
Copper (dissolved)	µg/L	2.4	60 U	60 U	60 U	60 U	107	28.5
Lead (dissolved)	µg/L	8.1	22 U	22 U	22 U	22 U	2.2 U	2.2 J
Mercury (dissolved)	µg/L	0.025	0.41 U	0.93 U	1.0 U	0.41 U	0.41 U	0.41 U
Nickel (dissolved)	µg/L	8.2	34.7 J	37.4 J	37.5 J	32 U	31.1	8.3 J
Thallium (dissolved)	µg/L	0.47	20.5 J	20.6 J	16.9 J	17.1 J	2.2 J	3.2 J
Zinc (dissolved)	µg/L	81	460 U	460 U	460 U	460 U	46 U	46 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-9	5106-9	5106-9	5106-9	5106-9	5106-10
Sample ID:	GW-110205-5106-9-019	GW-110205-5106-9-020	GW-110205-5106-9-021	GW-110205-5106-9-022	GW-110205-5106-9-023	GW-110205-5106-10-001
Sample Date:	11/2/2005	11/2/2005	11/2/2005	11/2/2005	11/2/2005	11/2/2005
Sample Depth:	87 to 90 ft bml	92 to 95 ft bml	97 to 100 ft bml	102 to 105 ft bml	107 to 110 ft bml	2 to 5 ft bml
elev_MLLW	-123.1 to -126.1	-128.1 to -131.1	-133.1 to -136.1	-138.1 to -141.1	-143.1 to -146.1	-38.9 to -41.9
elev_NGVD	-129.4 to -132.4	-134.4 to -137.4	-139.4 to -142.4	-144.4 to -147.4	-149.4 to -152.4	-45.2 to -48.2

Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14		39.6 J	47.0	17.6	25.5	26.4	92.0
Chromium (dissolved)	µg/L	50		1.9 J	2.5 J	1.1 J	1.6 J	1.5 U	5.4 U
Copper (dissolved)	µg/L	2.4		40.8	75.3	17.0	23.6	27.1	98.4
Lead (dissolved)	µg/L	8.1		2.2 U	6.5	2.2 U	2.2 J	3.1 J	2.2 U
Mercury (dissolved)	µg/L	0.025		0.76 U	0.41 U	0.71 U	0.46 U	0.62 U	0.41 U
Nickel (dissolved)	µg/L	8.2		14.5	23.6	6.8 J	9.8 J	16.7 U	22.1 U
Thallium (dissolved)	µg/L	0.47		3.0 J	3.0 J	4.0	3.8 J	4.7 U	2.4 U
Zinc (dissolved)	µg/L	81		46 U	2650	46 U	46 U	46 U	46 U

Metals~Total									
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-10	5106-10	5106-10	5106-10	5106-10	5106-10
Sample ID:	GW-110205-5106-10-002	GW-110305-5106-10-003	GW-110305-5106-10-004	GW-110305-5106-10-005	GW-110305-5106-10-006	GW-110305-5106-10-007
Sample Date:	11/2/2005	11/3/2005	11/3/2005	11/3/2005	11/3/2005	11/3/2005
Sample Depth:	7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml	32 to 35 ft bml
elev_MLLW	-43.9 to -46.9	-48.9 to -51.9	-53.9 to -56.9	-58.9 to -61.9	-63.9 to -66.9	-68.9 to -71.9
elev_NGVD	-50.2 to -53.2	-55.2 to -58.2	-60.2 to -63.2	-65.2 to -68.2	-70.2 to -73.2	-75.2 to -78.2

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	93.1	81.0	5.8 U	3.9 U	40.2 U	26.3 U
Chromium (dissolved)	µg/L	50	6.9 U	11.7 U	1.0 U	5.3 U	164 U	91.3 U
Copper (dissolved)	µg/L	2.4	105	185	6.0 U	6.0 U	60 U	60 U
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	2.2 J	2.2 U	22 U	22 U
Mercury (dissolved)	µg/L	0.025	0.41 U	0.41 U	0.41 U	2.4 U	0.51 U	0.41 U
Nickel (dissolved)	µg/L	8.2	23.4 U	38.0 U	4.4 U	4.3 U	52.4 U	37.0 U
Thallium (dissolved)	µg/L	0.47	2.1 U	1.5 U	6.1	4.1 U	34.7 U	27.2 U
Zinc (dissolved)	µg/L	81	46 U	46 U	46 U	46 U	460 U	460 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-10	5106-10	5106-10	5106-10	5106-10	5106-10
Sample ID:	GW-110305-5106-10-008	GW-110305-5106-10-009	GW-110305-5106-10-010	GW-110305-5106-10-011	GW-110305-5106-10-012	GW-110305-5106-10-013
Sample Date:	11/3/2005	11/3/2005	11/3/2005	11/3/2005	11/3/2005	11/3/2005
Sample Depth:	32 to 35 ft bml	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml	57 to 60 ft bml
elev_MLLW	-68.9 to -71.9	-73.9 to -76.9	-78.9 to -81.9	-83.9 to -86.9	-88.9 to -91.9	-93.9 to -96.9
elev_NGVD	-75.2 to -78.2	-80.2 to -83.2	-85.2 to -88.2	-90.2 to -93.2	-95.2 to -98.2	-100.2 to -103.2

Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	18 U	1.8 U	67.2	39.2 J	42.9	55.1
Chromium (dissolved)	µg/L	50	93.8 U	6.9 U	1160	1020	1030	561
Copper (dissolved)	µg/L	2.4	60 U	6.0 U	371	364	412	360
Lead (dissolved)	µg/L	8.1	22 U	2.2 U	22 U	22 U	22 U	22 U
Mercury (dissolved)	µg/L	0.025	0.84 U	1.5 U	1.2 U	2.1	1.2 U	1.0 U
Nickel (dissolved)	µg/L	8.2	139 U	3.2 U	314 U	267 U	358 U	263 U
Thallium (dissolved)	µg/L	0.47	21.9 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Zinc (dissolved)	µg/L	81	562 J	46 U	460 U	460 U	460 U	460 U

Metals~Total							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-10	5106-10	5106-10	5106-10	5106-10	5106-10
Sample ID:	GW-110305-5106-10-014	GW-110405-5106-10-015	GW-110405-5106-10-016	GW-110405-5106-10-017	GW-110405-5106-10-018	GW-110405-5106-10-019
Sample Date:	11/3/2005	11/4/2005	11/4/2005	11/4/2005	11/4/2005	11/4/2005
Sample Depth:	62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml	77 to 80 ft bml	82 to 85 ft bml	87 to 90 ft bml
elev_MLLW	-98.9 to -101.9	-103.9 to -106.9	-108.9 to -111.9	-113.9 to -116.9	-118.9 to -121.9	-123.9 to -126.9
elev_NGVD	-105.2 to -108.2	-110.2 to -113.2	-115.2 to -118.2	-120.2 to -123.2	-125.2 to -128.2	-130.2 to -133.2

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	55.5	42.4	21.9 J	18 U	59.6	88.6
Chromium (dissolved)	µg/L	50	1600	1990	320	8.0 U	11.5 U	14.5 J
Copper (dissolved)	µg/L	2.4	550	496	275	72.3 J	55.7	79.3
Lead (dissolved)	µg/L	8.1	22 U	22 U	22 U	22 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025	1.3 U	0.96 U	1.0 U	0.44 U	0.041 U	0.041 U
Nickel (dissolved)	µg/L	8.2	431 U	379 U	92.3 U	32 U	11.2 U	15.8 U
Thallium (dissolved)	µg/L	0.47	2.0 U	2.0 U	2.0 U	6.3 J	0.89 J	0.75 J
Zinc (dissolved)	µg/L	81	460 U	460 U	460 U	460 U	115 U	115 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-10	5106-10	5106-10	5106-10	5106-10	5106-10
Sample ID:	GW-110405-5106-10-020	GW-110705-5106-10-021	GW-110705-5106-10-022	GW-110705-5106-10-023	GW-110705-5106-10-024	GW-110705-5106-10-025
Sample Date:	11/4/2005	11/7/2005	11/7/2005	11/7/2005	11/7/2005	11/7/2005
Sample Depth:	92 to 95 ft bml	97 to 100 ft bml	102 to 105 ft bml	107 to 110 ft bml	107 to 110 ft bml	112 to 115 ft bml
elev_MLLW	-128.9 to -131.9	-133.9 to -136.9	-138.9 to -141.9	-143.9 to -146.9	-143.9 to -146.9	-148.9 to -151.9
elev_NGVD	-135.2 to -138.2	-140.2 to -143.2	-145.2 to -148.2	-150.2 to -153.2	-150.2 to -153.2	-155.2 to -158.2

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14		202	28.6	20.5	30.0
Chromium (dissolved)	µg/L	50		18.2 J	11.8 U	10.6 U	7.9 U
Copper (dissolved)	µg/L	2.4		91.0	27.1	16.6 J	19.9 J
Lead (dissolved)	µg/L	8.1		6.9 J	5.5 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025		0.041 U	0.041 U	0.041 U	0.13 U
Nickel (dissolved)	µg/L	8.2		21.1 J	8.8 U	12.4 U	8.0 U
Thallium (dissolved)	µg/L	0.47		0.50 U	3.2 J	4.4 J	3.3 J
Zinc (dissolved)	µg/L	81		115 U	115 U	115 U	115 U

Metals~Total							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-10	5106-10	5106-11	5106-11	5106-11	5106-11
Sample ID:	GW-110705-5106-10-026	GW-110705-5106-10-027	GW-101305-5106-11-001	GW-101305-5106-11-002	GW-101305-5106-11-003	GW-101305-5106-11-004
Sample Date:	11/7/2005	11/7/2005	10/13/2005	10/13/2005	10/13/2005	10/13/2005
Sample Depth:	117 to 120 ft bml	122 to 125 ft bml	2 to 5 ft bml	7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml
elev_MLLW	-153.9 to -156.9	-158.9 to -161.9	-40 to -43	-45 to -48	-50 to -53	-55 to -58
elev_NGVD	-160.2 to -163.2	-165.2 to -168.2	-46.3 to -49.3	-51.3 to -54.3	-56.3 to -59.3	-61.3 to -64.3

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	22.6	99.6	3.34 U	3.34 U	3.34 U	3.34 U
Chromium (dissolved)	µg/L	50	11.1 U	22.1 U	52.6	100	191	495
Copper (dissolved)	µg/L	2.4	29.2	85.6	7 J	9.7 J	13.4 J	23.6 J
Lead (dissolved)	µg/L	8.1	7.9 J	8.9 J	0.167 U	0.167 U	0.167 U	0.167 U
Mercury (dissolved)	µg/L	0.025	0.066 U	0.060 U	0.44 U	0.44 U	0.44 U	0.44 U
Nickel (dissolved)	µg/L	8.2	11.5 U	31.8 U	34.9	40.6	55.5	105
Thallium (dissolved)	µg/L	0.47	3.0 J	0.50 U	0.4 U	0.35 U	0.2 U	0.184 U
Zinc (dissolved)	µg/L	81	115 U	115 U	3.02 U	3.02 U	3.02 U	3.02 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-11	5106-11	5106-11	5106-11	5106-11	5106-11
Sample ID:	GW-101305-5106-11-005	GW-101305-5106-11-006	GW-101305-5106-11-007	GW-101305-5106-11-008	GW-101305-5106-11-009	GW-101305-5106-11-010
Sample Date:	10/13/2005	10/13/2005	10/13/2005	10/13/2005	10/13/2005	10/13/2005
Sample Depth:	22 to 25 ft bml	27 to 30 ft bml	32 to 35 ft bml	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml
elev_MLLW	-60 to -63	-65 to -68	-70 to -73	-75 to -78	-80 to -83	-85 to -88
elev_NGVD	-66.3 to -69.3	-71.3 to -74.3	-76.3 to -79.3	-81.3 to -84.3	-86.3 to -89.3	-91.3 to -94.3

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	5106-11 (005)	5106-11 (006)	5106-11 (007)	5106-11 (008)	5106-11 (009)	5106-11 (010)
Arsenic (dissolved)	µg/L	0.14		3.34 U	3.34 U	3.34 U	3.34 U	3.34 U	3.34 U
Chromium (dissolved)	µg/L	50		754	952	626	483	95.1	1020
Copper (dissolved)	µg/L	2.4		38.6	47.9	24.5 J	36.4	9.6 J	51
Lead (dissolved)	µg/L	8.1		0.167 U	0.2 J	0.167 U	0.167 U	0.167 U	0.25 J
Mercury (dissolved)	µg/L	0.025		0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Nickel (dissolved)	µg/L	8.2		125	175	164	149	40.8	168
Thallium (dissolved)	µg/L	0.47		0.184 U	0.184 U	0.184 U	0.184 U	0.184 U	0.184 U
Zinc (dissolved)	µg/L	81		3.02 U	3.02 U	3.3 U	23.4 U	3.02 U	39.3 U

Metals~Total

Parameter	Units	CSI	WG	5106-11 (005)	5106-11 (006)	5106-11 (007)	5106-11 (008)	5106-11 (009)	5106-11 (010)
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-11	5106-11	5106-11	5106-11	5106-11	5106-11
Sample ID:	GW-101405-5106-11-011	GW-101405-5106-11-012	GW-101405-5106-11-013	GW-101405-5106-11-014	GW-101405-5106-11-015	GW-101405-5106-11-016
Sample Date:	10/14/2005	10/14/2005	10/14/2005	10/14/2005	10/14/2005	10/14/2005
Sample Depth:	47 to 50 ft bml	57 to 60 ft bml	62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml	77 to 80 ft bml
elev_MLLW	-85 to -88	-95 to -98	-100 to -103	-105 to -108	-110 to -113	-115 to -118
elev_NGVD	-91.3 to -94.3	-101.3 to -104.3	-106.3 to -109.3	-111.3 to -114.3	-116.3 to -119.3	-121.3 to -124.3

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	3.34 U	3.34 U	0.334 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	971	821	4.67	1.18 U	0.805 U	5.98
Copper (dissolved)	µg/L	2.4	56.4	54	4.27	1.64 J	3.62	22.5
Lead (dissolved)	µg/L	8.1	0.6 J	0.167 U	0.025 J	0.115 J	0.0167 U	1.64 J
Mercury (dissolved)	µg/L	0.025	0.44 U	0.44 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	148	132	20.9	11.4	17.4	21.2
Thallium (dissolved)	µg/L	0.47	0.184 U	0.184 U	0.0184 U	0.0184 U	0.125 U	0.055 U
Zinc (dissolved)	µg/L	81	3.02 U	3.02 U	0.302 U	4.13 U	0.302 U	3.53 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-11	5106-11	5106-12	5106-12	5106-12	5106-12
<i>Sample ID:</i>		GW-101405-5106-11-017	GW-101405-5106-11-018	GW-101005-5106-12-001	GW-101105-5106-12-002	GW-101105-5106-12-003	GW-101105-5106-12-004
<i>Sample Date:</i>		10/14/2005	10/14/2005	10/10/2005	10/11/2005	10/11/2005	10/11/2005
<i>Sample Depth:</i>		82 to 85 ft bml	87 to 90 ft bml	2 to 5 ft bml	7 to 10 ft bml	12 to 15 ft bml	12 to 15 ft bml
<i>elev_MLLW</i>		-120 to -123	-125 to -128	-38.2 to -41.2	-43.2 to -46.2	-48.2 to -51.2	-48.2 to -51.2
<i>elev_NGVD</i>		-126.3 to -129.3	-131.3 to -134.3	-44.5 to -47.5	-49.5 to -52.5	-54.5 to -57.5	-54.5 to -57.5
							(Duplicate)
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Metals~Dissolved</i>							
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	2.15 J	3.34 U	3.34 U
Chromium (dissolved)	µg/L	50	1.36 U	1.21 U	433	888 J	1010 J
Copper (dissolved)	µg/L	2.4	1.71 J	2.6	558	35.8 J	41.9 J
Lead (dissolved)	µg/L	8.1	0.07 U	0.045 U	1170	2.75 U	1.35 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.44 U	0.44 U
Nickel (dissolved)	µg/L	8.2	5.12	8.76	1150	161 J	205 J
Thallium (dissolved)	µg/L	0.47	0.05 U	0.0184 U	4680	0.6 U	0.35 U
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	1190	44.2 U	60.2 U
							61.2 U
<i>Metals~Total</i>							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-12	5106-12	5106-12	5106-12	5106-12	5106-12
Sample ID:	GW-101105-5106-12-005	GW-101105-5106-12-006	GW-101105-5106-12-007	GW-101105-5106-12-008	GW-101105-5106-12-009	GW-101105-5106-12-010
Sample Date:	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005
Sample Depth:	17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml	32 to 35 ft bml	37 to 40 ft bml	42 to 45 ft bml
elev_MLLW	-53.2 to -56.2	-58.2 to -61.2	-63.2 to -66.2	-68.2 to -71.2	-73.2 to -76.2	-78.2 to -81.2
elev_NGVD	-59.5 to -62.5	-64.5 to -67.5	-69.5 to -72.5	-74.5 to -77.5	-79.5 to -82.5	-84.5 to -87.5

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	5106-12 (005)	5106-12 (006)	5106-12 (007)	5106-12 (008)	5106-12 (009)	5106-12 (010)
Arsenic (dissolved)	µg/L	0.14		3.34 U	3.34 U	3.34 U	3.34 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50		641 J	1010 J	1230 J	1290 J	5.94 U	1.15 U
Copper (dissolved)	µg/L	2.4		29.2	30.9	51.8	48.9	3.39 U	5.63 U
Lead (dissolved)	µg/L	8.1		0.25 U	0.95 U	0.167 U	1.05 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025		0.44 U	0.44 U	0.44 U	0.44 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2		110 U	245	203	208	20.5 U	19.8 U
Thallium (dissolved)	µg/L	0.47		1 U	0.75 U	0.45 U	0.4 U	0.02 U	0.025 U
Zinc (dissolved)	µg/L	81		19 U	32.7 U	23.4 U	21.4 U	0.302 U	0.302 U

Metals~Total

Parameter	Units	CSI	WG	5106-12 (005)	5106-12 (006)	5106-12 (007)	5106-12 (008)	5106-12 (009)	5106-12 (010)
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-12		5106-12		5106-12		5106-12		5106-12		5106-12	
<i>Sample ID:</i>			GW-101105-5106-12-011	GW-101105-5106-12-012	GW-101205-5106-12-013	GW-101205-5106-12-014	GW-101205-5106-12-015	GW-101205-5106-12-016						
<i>Sample Date:</i>			10/11/2005	10/11/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005						
<i>Sample Depth:</i>			47 to 50 ft bml	52 to 55 ft bml	57 to 60 ft bml	62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml						
<i>elev_MLLW</i>			-83.2 to -86.2	-88.2 to -91.2	-93.2 to -96.2	-98.2 to -101.2	-103.2 to -106.2	-108.2 to -111.2						
<i>elev_NGVD</i>			-89.5 to -92.5	-94.5 to -97.5	-99.5 to -102.5	-104.5 to -107.5	-109.5 to -112.5	-114.5 to -117.5						
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>											
<i>Metals~Dissolved</i>														
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U				
Chromium (dissolved)	µg/L	50	1.4 U	2.05 U	2.2 U	1.41 U	2.92 U	3.71						
Copper (dissolved)	µg/L	2.4	6.36 U	2.78 U	2.25 U	2.27 U	2.62 U	6.8						
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.03 U	0.0167 U						
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U						
Nickel (dissolved)	µg/L	8.2	17.6 U	20.8 U	19.4 U	18.2 U	17.4 U	27.4						
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.05 U						
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	0.302 U	0.302 U	0.302 U	0.302 U						
<i>Metals~Total</i>														
Arsenic	µg/L	0.14	-	-	-	-	-	-						
Chromium	µg/L	50	-	-	-	-	-	-						
Copper	µg/L	2.4	-	-	-	-	-	-						
Lead	µg/L	8.1	-	-	-	-	-	-						
Mercury	µg/L	0.025	-	-	-	-	-	-						
Nickel	µg/L	8.2	-	-	-	-	-	-						
Thallium	µg/L	0.47	-	-	-	-	-	-						
Zinc	µg/L	81	-	-	-	-	-	-						

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-12	5106-12	5106-12	5106-12	5106-12	5106-12
Sample ID:	GW-101205-5106-12-017	GW-101205-5106-12-018	GW-101205-5106-12-019	GW-101205-5106-12-020	GW-101205-5106-12-021	GW-101205-5106-12-022
Sample Date:	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005
Sample Depth:	77 to 80 ft bml	82 to 85 ft bml	87 to 90 ft bml	92 to 95 ft bml	97 to 100 ft bml	102 to 105 ft bml
elev_MLLW	-113.2 to -116.2	-118.2 to -121.2	-123.2 to -126.2	-128.2 to -131.2	-133.2 to -136.2	-138.2 to -141.2
elev_NGVD	-119.5 to -122.5	-124.5 to -127.5	-129.5 to -132.5	-134.5 to -137.5	-139.5 to -142.5	-144.5 to -147.5

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	3.48	10.7	1.72 J	2.77	4.62	4.6
Copper (dissolved)	µg/L	2.4	6.2	4.84	9.74	1.71 J	2.5 J	1.19 J
Lead (dissolved)	µg/L	8.1	0.0167 U	0.045 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	25.7	3.99	34.1	6.28	7.93	8.05
Thallium (dissolved)	µg/L	0.47	0.185 U	0.105 U	0.07 U	0.045 U	0.05 U	0.035 U
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	3.97	0.302 U	0.302 U	0.302 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-12	5106-12	5106-13	5106-13	5106-13	5106-13		
Sample ID:	GW-101205-5106-12-023	GW-101205-5106-12-024	GW-112805-5106-13-001	GW-112805-5106-13-002	GW-112805-5106-13-003	GW-112805-5106-13-004		
Sample Date:	10/12/2005	10/12/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005		
Sample Depth:	107 to 110 ft bml	112 to 115 ft bml	2 to 5 ft bml	7 to 10 ft bml	7 to 10 ft bml	12 to 15 ft bml		
elev_MLLW	-143.2 to -146.2	-148.2 to -151.2	-36.7 to -39.7	-41.7 to -44.7	-41.7 to -44.7	-46.7 to -49.7		
elev_NGVD	-149.5 to -152.5	-154.5 to -157.5	-43 to -46	-48 to -51	-48 to -51 (Duplicate)	-53 to -56		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	77.3	74.1	78.0	34.2
Chromium (dissolved)	µg/L	50	4.78	2.18 J	9.3 U	13.1 U	17.2 U	20.7 U
Copper (dissolved)	µg/L	2.4	1.09 J	5.43	105	113	134	131
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	5.5 U	5.5 U	6.1 J	5.5 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.054 U	0.082 U	0.082 U	0.082 U	0.47 U
Nickel (dissolved)	µg/L	8.2	7.35	24.4	21.2 J	47.7	46.7	40.3 U
Thallium (dissolved)	µg/L	0.47	0.035 U	0.04 U	0.50 U	0.50 U	0.50 U	0.50 U
Zinc (dissolved)	µg/L	81	0.302 U	0.99 U	115 U	115 U	115 U	115 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-13	5106-13	5106-13	5106-13	5106-13	5106-13
<i>Sample ID:</i>			GW-112805-5106-13-005	GW-112805-5106-13-006	GW-112805-5106-13-007	GW-112805-5106-13-008	GW-112805-5106-13-009	GW-112905-5106-13-010
<i>Sample Date:</i>			11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/29/2005
<i>Sample Depth:</i>			17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml	32 to 35 ft bml	37 to 40 ft bml	42 to 45 ft bml
<i>elev_MLLW</i>			-51.7 to -54.7	-56.7 to -59.7	-61.7 to -64.7	-66.7 to -69.7	-71.7 to -74.7	-76.7 to -79.7
<i>elev_NGVD</i>			-58 to -61	-63 to -66	-68 to -71	-73 to -76	-78 to -81	-83 to -86
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Metals~Dissolved</i>								
Arsenic (dissolved)	µg/L	0.14	4.5 U	4.5 U	4.5 U	4.5 U	44.8	4.5 U
Chromium (dissolved)	µg/L	50	10.9 U	10.7 U	12.6 U	13.9 U	20.4 U	23.6 U
Copper (dissolved)	µg/L	2.4	33.9	44.0	44.7	52.9	307	81.5
Lead (dissolved)	µg/L	8.1	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025	0.77 U	0.84 U	1.3 U	0.64 U	0.67 U	1.2 U
Nickel (dissolved)	µg/L	8.2	8.7 U	8.0 U	8.0 U	8.0 U	38.2 U	25.3 U
Thallium (dissolved)	µg/L	0.47	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Zinc (dissolved)	µg/L	81	115 U	115 U	115 U	115 U	115 U	115 U
<i>Metals~Total</i>								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-13	5106-13	5106-13	5106-13	5106-13	5106-13
Sample ID:	GW-112905-5106-13-011	GW-112905-5106-13-012	GW-112905-5106-13-013	GW-112905-5106-13-014	GW-112905-5106-13-015	GW-112905-5106-13-016
Sample Date:	11/29/2005	11/29/2005	11/29/2005	11/29/2005	11/29/2005	11/29/2005
Sample Depth:	47 to 50 ft bml	52 to 55 ft bml	57 to 60 ft bml	62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml
elev_MLLW	-81.7 to -84.7	-86.7 to -89.7	-91.7 to -94.7	-96.7 to -99.7	-101.7 to -104.7	-106.7 to -109.7
elev_NGVD	-88 to -91	-93 to -96	-98 to -101	-103 to -106	-108 to -111	-113 to -116

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	4.5 U	4.6 J	8.0 J	4.5 U	6.7 J	53.4
Chromium (dissolved)	µg/L	50	61.1 U	95.1 U	249	27.6 U	360	43.7 U
Copper (dissolved)	µg/L	2.4	79.3	71.5	88.6	50.2	99.6	105
Lead (dissolved)	µg/L	8.1	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025	1.6 U	1.4 U	2.6 U	2.1 U	2.2 U	1.8 U
Nickel (dissolved)	µg/L	8.2	15.3 U	31.5 U	64.7 U	8.0 U	90.7 U	25.2 U
Thallium (dissolved)	µg/L	0.47	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Zinc (dissolved)	µg/L	81	115 U	115 U	115 U	115 U	115 U	115 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-13	5106-13	5106-13	5106-13	5106-13	5106-13
Sample ID:	GW-112905-5106-13-017	GW-112905-5106-13-018	GW-112905-5106-13-019	GW-113005-5106-13-020	GW-113005-5106-13-021	GW-113005-5106-13-022
Sample Date:	11/29/2005	11/29/2005	11/29/2005	11/30/2005	11/30/2005	11/30/2005
Sample Depth:	77 to 80 ft bml	82 to 85 ft bml	87 to 90 ft bml	92 to 95 ft bml	97 to 100 ft bml	102 to 105 ft bml
elev_MLLW	-111.7 to -114.7	-116.7 to -119.7	-121.7 to -124.7	-126.7 to -129.7	-131.7 to -134.7	-136.7 to -139.7
elev_NGVD	-118 to -121	-123 to -126	-128 to -131	-133 to -136	-138 to -141	-143 to -146

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	64.6	7.9 J	4.5 U	14.7	124	85.9
Chromium (dissolved)	µg/L	50	1240	14.9 U	11.6 U	9.1 U	12.2 U	11.2 U
Copper (dissolved)	µg/L	2.4	410	21.3 J	15 U	15 U	63.6	32.9
Lead (dissolved)	µg/L	8.1	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025	0.85 U	0.24 U	0.20 U	0.22 U	0.36 U	0.30 U
Nickel (dissolved)	µg/L	8.2	317	8.0 U	8.0 U	8.0 U	18.4 J	13.2 J
Thallium (dissolved)	µg/L	0.47	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Zinc (dissolved)	µg/L	81	151 J	115 U	115 U	115 U	115 U	115 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-13	5106-14	5106-14	5106-14	5106-14	5106-14	5106-14
Sample ID:	GW-113005-5106-13-023	GW-120105-5106-14-001	GW-120105-5106-14-002	GW-120105-5106-14-003	GW-120105-5106-14-004	GW-120105-5106-14-005	
Sample Date:	11/30/2005	12/1/2005	12/1/2005	12/1/2005	12/1/2005	12/1/2005	12/1/2005
Sample Depth:	107 to 110 ft bml	2 to 5 ft bml	2 to 5 ft bml	7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml	
elev_MLLW	-141.7 to -144.7	-39 to -42	-39 to -42	-44 to -47	-49 to -52	-54 to -57	
elev_NGVD	-148 to -151	-45.3 to -48.3	-45.3 to -48.3	-50.3 to -53.3	-55.3 to -58.3	-60.3 to -63.3	
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14		0.334 U		0.334 U	
Chromium (dissolved)	µg/L	50		18.7 U		5.94 U	
Copper (dissolved)	µg/L	2.4		12.1 U		7.59 U	
Lead (dissolved)	µg/L	8.1		0.205 U		0.105 U	
Mercury (dissolved)	µg/L	0.025		0.044 U		0.044 U	
Nickel (dissolved)	µg/L	8.2		39.2 U		38.4 U	
Thallium (dissolved)	µg/L	0.47		0.16 U		0.0184 U	
Zinc (dissolved)	µg/L	81		7.25 U		45 U	
Metals~Total							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-14	5106-14	5106-14	5106-14	5106-14	5106-14
Sample ID:	GW-120105-5106-14-006	GW-120105-5106-14-007	GW-120105-5106-14-008	GW-120105-5106-14-009	GW-120205-5106-14-010	GW-120205-5106-14-011
Sample Date:	12/1/2005	12/1/2005	12/1/2005	12/1/2005	12/2/2005	12/2/2005
Sample Depth:	22 to 25 ft bml	27 to 30 ft bml	32 to 35 ft bml	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml
elev_MLLW	-59 to -62	-64 to -67	-69 to -72	-74 to -77	-79 to -82	-84 to -87
elev_NGVD	-65.3 to -68.3	-70.3 to -73.3	-75.3 to -78.3	-80.3 to -83.3	-85.3 to -88.3	-90.3 to -93.3

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	5106-14 (006)	5106-14 (007)	5106-14 (008)	5106-14 (009)	5106-14 (010)	5106-14 (011)
Arsenic (dissolved)	µg/L	0.14	0.334 U	27.4	19.1	40.5	39.4	20.2	
Chromium (dissolved)	µg/L	50	8.32 U	745	204	900	1280	482	
Copper (dissolved)	µg/L	2.4	13.5 U	38.4	19.5	53.2	67.8	32.9	
Lead (dissolved)	µg/L	8.1	0.35 U		0.355 U	0.275 U	0.21 U	0.36 U	1.08 U
Mercury (dissolved)	µg/L	0.025	0.094 J	0.044 U	0.044 U	0.221	0.044 U	0.112 J	
Nickel (dissolved)	µg/L	8.2	51.2 J	149 J	69.6 J	184 J	267 J	145 J	
Thallium (dissolved)	µg/L	0.47	0.03 U	0.045 U	0.035 U	0.045 U	0.035 U	0.03 U	
Zinc (dissolved)	µg/L	81	5.34 U	20.6 U	11 U	26.7 U	30 U	19.9 U	

Metals~Total

Parameter	Units	CSI	WG	5106-14 (006)	5106-14 (007)	5106-14 (008)	5106-14 (009)	5106-14 (010)	5106-14 (011)
Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-14	5106-14	5106-14	5106-14	5106-14	5106-14
Sample ID:	GW-120205-5106-14-012	GW-120205-5106-14-013	GW-120205-5106-14-014	GW-120205-5106-14-015	GW-120205-5106-14-016	GW-120205-5106-14-017
Sample Date:	12/2/2005	12/2/2005	12/2/2005	12/2/2005	12/2/2005	12/2/2005
Sample Depth:	52 to 55 ft bml	52 to 55 ft bml	57 to 60 ft bml	62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml
elev_MLLW	-89 to -92	-89 to -92	-94 to -97	-99 to -102	-104 to -107	-109 to -112
elev_NGVD	-95.3 to -98.3	-95.3 to -98.3	-100.3 to -103.3	-105.3 to -108.3	-110.3 to -113.3	-115.3 to -118.3

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	25.9	31.6	3.34 U	3.24	1.36 J	0.334 U
Chromium (dissolved)	µg/L	50	1250	1310	1810	128	120	76.6
Copper (dissolved)	µg/L	2.4	64.7	67.3	91.6	9.1	8.44	11
Lead (dissolved)	µg/L	8.1	0.565 U	0.555 U	0.85 U	0.11 U	0.155 U	0.095 U
Mercury (dissolved)	µg/L	0.025	0.058 U	0.16 U	0.44 U	0.169 U	0.044 U	0.228 U
Nickel (dissolved)	µg/L	8.2	285 J	305 J	425 J	49 J	51.7 J	39.7 J
Thallium (dissolved)	µg/L	0.47	0.04 U	0.04 U	0.9 U	0.055 U	0.2 U	0.06 U
Zinc (dissolved)	µg/L	81	31.1 U	32.8 U	3.02 U	0.302 U	5.66	1.23 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-14	5106-14	5106-14	5106-14	5106-14	5106-14		
Sample ID:	GW-120205-5106-14-018	GW-120205-5106-14-019	GW-120305-5106-14-020	GW-120305-5106-14-021	GW-120305-5106-14-022	GW-120505-5106-14-023		
Sample Date:	12/2/2005	12/2/2005	12/3/2005	12/3/2005	12/3/2005	12/5/2005		
Sample Depth:	77 to 80 ft bml	82 to 85 ft bml	87 to 90 ft bml	87 to 90 ft bml	92 to 95 ft bml	97 to 100 ft bml		
elev_MLLW	-114 to -117	-119 to -122	-124 to -127	-124 to -127	-129 to -132	-134 to -137		
elev_NGVD	-120.3 to -123.3	-125.3 to -128.3	-130.3 to -133.3	-130.3 to -133.3 (Duplicate)	-135.3 to -138.3	-140.3 to -143.3		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	0.334 U	9.8	12
Chromium (dissolved)	µg/L	50	5.72	4.38	3.89	4.66	4.91	4.99 U
Copper (dissolved)	µg/L	2.4	9.32	11.6	1.67 U	1.45 U	1.99 U	1.44 U
Lead (dissolved)	µg/L	8.1	0.09 U	0.125 U	0.09 U	0.145 U	0.105 U	0.175 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.202 U	0.044 U
Nickel (dissolved)	µg/L	8.2	23.8 J	27.2 J	4.42 J	4.52 J	4.57 J	3.36 U
Thallium (dissolved)	µg/L	0.47	0.035 U	0.035 U	0.025 U	0.02 U	0.025 U	0.095 U
Zinc (dissolved)	µg/L	81	0.37 U	0.302 U	0.302 U	0.302 U	0.302 U	0.302 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-14	5106-14	5106-15	5106-15	5106-15	5106-15
<i>Sample ID:</i>			GW-120505-5106-14-024	GW-120505-5106-14-025	GW-111505-5106-15-001	GW-111505-5106-15-002	GW-111505-5106-15-003	GW-111505-5106-15-004
<i>Sample Date:</i>			12/5/2005	12/5/2005	11/15/2005	11/15/2005	11/15/2005	11/15/2005
<i>Sample Depth:</i>			102 to 105 ft bml	107 to 110 ft bml	2 to 5 ft bml	2 to 5 ft bml	12 to 15 ft bml	22 to 25 ft bml
<i>elev_MLLW</i>			-139 to -142	-144 to -147	-36.9 to -39.9	-36.9 to -39.9	-46.9 to -49.9	-56.9 to -59.9
<i>elev_NGVD</i>			-145.3 to -148.3	-150.3 to -153.3	-43.2 to -46.2	-43.2 to -46.2	-53.2 to -56.2	-63.2 to -66.2
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>					
<i>Metals~Dissolved</i>								
Arsenic (dissolved)	µg/L	0.14	4.23 U	4.37 U	4.7 J	4.5 U	4.5 U	4.5 U
Chromium (dissolved)	µg/L	50	4.64 U	4.71 U	9.8 U	9.8 U	46.7 U	307
Copper (dissolved)	µg/L	2.4	2.5 U	2.99 U	23.0 U	23.8 U	33.3 U	64.7 U
Lead (dissolved)	µg/L	8.1	0.755 U	0.12 U	5.5 U	5.5 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.55 U	1.2 U	0.41 U	0.41 U
Nickel (dissolved)	µg/L	8.2	5.95 U	9.69 U	8.0 U	8.0 U	35.3 U	56.4 U
Thallium (dissolved)	µg/L	0.47	0.085 U	0.06 U	0.50 U	0.50 U	0.50 U	0.50 U
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	115 U	115 U	115 U	115 U
<i>Metals~Total</i>								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-15	5106-15	5106-15	5106-15	5106-15	5106-16
Sample ID:	GW-111505-5106-15-005	GW-111505-5106-15-006	GW-111505-5106-15-007	GW-111605-5106-15-008	GW-111605-5106-15-009	GW-111405-5106-16-001
Sample Date:	11/15/2005	11/15/2005	11/15/2005	11/16/2005	11/16/2005	11/14/2005
Sample Depth:	32 to 35 ft bml	42 to 45 ft bml	52 to 55 ft bml	62 to 65 ft bml	72 to 75 ft bml	1 to 4 ft bml
elev_MLLW	-66.9 to -69.9	-76.9 to -79.9	-86.9 to -89.9	-96.9 to -99.9	-106.9 to -109.9	-36.1 to -39.1
elev_NGVD	-73.2 to -76.2	-83.2 to -86.2	-93.2 to -96.2	-103.2 to -106.2	-113.2 to -116.2	-42.4 to -45.4

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	4.5 U	4.8 J	83.7	49.2	48.8	4.5 U
Chromium (dissolved)	µg/L	50	19.7 U	6.0 U	10.9 U	13.8 U	11.2 U	17.3 U
Copper (dissolved)	µg/L	2.4	32.3 U	27.2 U	109 U	96.5 U	62.5 U	22.8 J
Lead (dissolved)	µg/L	8.1	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025	5.7	0.20 U	0.18 U	0.20 U	0.20 U	0.41 U
Nickel (dissolved)	µg/L	8.2	8.0 U	8.0 U	19.9 U	15.0 U	19.9 U	8.0 U
Thallium (dissolved)	µg/L	0.47	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.71 J
Zinc (dissolved)	µg/L	81	115 U	115 U	115 U	115 U	115 U	115 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-16	5106-16	5106-16	5106-16	5106-16	5106-16
Sample ID:	GW-111405-5106-16-002	GW-111405-5106-16-003	GW-111405-5106-16-004	GW-111405-5106-16-005	GW-111405-5106-16-006	GW-111405-5106-16-007
Sample Date:	11/14/2005	11/14/2005	11/14/2005	11/14/2005	11/14/2005	11/14/2005
Sample Depth:	11 to 14 ft bml	21 to 24 ft bml	31 to 34 ft bml	31 to 34 ft bml	41 to 44 ft bml	51 to 54 ft bml
elev_MLLW	-46.1 to -49.1	-56.1 to -59.1	-66.1 to -69.1	-66.1 to -69.1	-76.1 to -79.1	-86.1 to -89.1
elev_NGVD	-52.4 to -55.4	-62.4 to -65.4	-72.4 to -75.4	-72.4 to -75.4	-82.4 to -85.4	-92.4 to -95.4

Parameters	Units	CSI	WG	(Duplicate)					
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14		30.1	31.0	95.2	139	386	37.0
Chromium (dissolved)	µg/L	50		97.8 U	1110	16.1 U	17.6 U	40.4 U	33.5 U
Copper (dissolved)	µg/L	2.4		125	256	111	106	409	40.2
Lead (dissolved)	µg/L	8.1		5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025		4.8	0.41 U	1.2	0.082 U	0.082 U	0.18 U
Nickel (dissolved)	µg/L	8.2		61.3 U	176	31.0 U	21.5 U	80.3 U	12.6 U
Thallium (dissolved)	µg/L	0.47		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	3.0 J
Zinc (dissolved)	µg/L	81		115 U	804 U	625 U	115 U	338 U	115 U

Metals~Total									
Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-16	5106-16	5106-16	5106-16	5106-16	5106-16
Sample ID:	GW-111405-5106-16-008	GW-111505-5106-16-009	GW-111505-5106-16-010	GW-111505-5106-16-011	GW-111505-5106-16-012	GW-111505-5106-16-013
Sample Date:	11/14/2005	11/15/2005	11/15/2005	11/15/2005	11/15/2005	11/15/2005
Sample Depth:	51 to 54 ft bml	61 to 64 ft bml	71 to 74 ft bml	71 to 74 ft bml	81 to 84 ft bml	91 to 94 ft bml
elev_MLLW	-86.1 to -89.1	-96.1 to -99.1	-106.1 to -109.1	-106.1 to -109.1	-116.1 to -119.1	-126.1 to -129.1
elev_NGVD	-92.4 to -95.4	-102.4 to -105.4	-112.4 to -115.4	-112.4 to -115.4	-122.4 to -125.4	-132.4 to -135.4
Parameters	Units	CSI	WG			
Metals~Dissolved						
Arsenic (dissolved)	µg/L	0.14	33.6	4.5 U	4.5 U	4.5 U
Chromium (dissolved)	µg/L	50	30.6 U	29.0 U	26.6 U	20.6 U
Copper (dissolved)	µg/L	2.4	39.1	17.4 J	15 U	27.7
Lead (dissolved)	µg/L	8.1	5.5 U	5.5 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025	2.0	0.71 U	0.31 U	17.7
Nickel (dissolved)	µg/L	8.2	14.6 U	8.1 U	8.0 U	70.5 U
Thallium (dissolved)	µg/L	0.47	1.1 J	0.65 J	0.50 U	0.50 U
Zinc (dissolved)	µg/L	81	115 U	115 U	115 U	115 U
Metals~Total						
Arsenic	µg/L	0.14	-	-	-	-
Chromium	µg/L	50	-	-	-	-
Copper	µg/L	2.4	-	-	-	-
Lead	µg/L	8.1	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-
Zinc	µg/L	81	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-16	5106-19	5106-19	5106-19	5106-19	5106-19
Sample ID:	GW-111505-5106-16-014	GW-011306-5106-19-001	GW-011306-5106-19-002	GW-011406-5106-19-003	GW-011406-5106-19-004	GW-011606-5106-19-005
Sample Date:	11/15/2005	1/13/2006	1/13/2006	1/14/2006	1/14/2006	1/16/2006
Sample Depth:	101 to 104 ft bml	0.5 to 3.5 ft bml	10.5 to 13.5 ft bml	20.5 to 23.5 ft bml	30.5 to 33.5 ft bml	40.5 to 43.5 ft bml
elev_MLLW	-136.1 to -139.1	-38.6 to -41.6	-48.6 to -51.6	-58.6 to -61.6	-68.6 to -71.6	-78.6 to -81.6
elev_NGVD	-142.4 to -145.4	-44.9 to -47.9	-54.9 to -57.9	-64.9 to -67.9	-74.9 to -77.9	-84.9 to -87.9

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	12.9	7.01	0.334 U	22.3	31.8	0.334 U
Chromium (dissolved)	µg/L	50	13.8 U	7.1	9.81	1080	924	2.32 U
Copper (dissolved)	µg/L	2.4	30.7	7.67	6.15	232	64.1	8.85 U
Lead (dissolved)	µg/L	8.1	5.5 U	0.0167 U	0.0167 U	21.3	0.25 J	0.0167 U
Mercury (dissolved)	µg/L	0.025	1.7	0.249	0.044 U	0.044 U	0.44 U	0.044 U
Nickel (dissolved)	µg/L	8.2	16.2 U	28.1 J	30.4 J	175 J	188 J	41.3 J
Thallium (dissolved)	µg/L	0.47	0.50 U	0.0184 U	0.15 U	0.215 U	0.65 U	0.02 U
Zinc (dissolved)	µg/L	81	115 U	2.24 U	3.66 U	154	36.1 J	10 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-19	5106-19	5106-19	5106-19	5106-19	5106-19		
Sample ID:	GW-011606-5106-19-006	GW-011606-5106-19-007	GW-011606-5106-19-008	GW-011606-5106-19-009	GW-011606-5106-19-010	GW-011706-5106-19-011		
Sample Date:	1/16/2006	1/16/2006	1/16/2006	1/16/2006	1/16/2006	1/17/2006		
Sample Depth:	50.5 to 53.5 ft bml	60.5 to 63.5 ft bml	70.5 to 73.5 ft bml	80.5 to 83.5 ft bml	90.5 to 93.5 ft bml	100.5 to 103.5 ft bml		
elev_MLLW	-88.6 to -91.6	-98.6 to -101.6	-108.6 to -111.6	-118.6 to -121.6	-128.6 to -131.6	-138.6 to -141.6		
elev_NGVD	-94.9 to -97.9	-104.9 to -107.9	-114.9 to -117.9	-124.9 to -127.9	-134.9 to -137.9	-144.9 to -147.9		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	3.94	0.334 U	0.334 U	0.334 U	2.56
Chromium (dissolved)	µg/L	50	2.33 U	19.8 U	3.15 U	5.4 U	1.88 U	3.66 U
Copper (dissolved)	µg/L	2.4	9.86 U	4.47 U	2.88 U	8.66 U	7.78 U	2.85 U
Lead (dissolved)	µg/L	8.1	0.03 U	0.025 U	0.03 U	0.05 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	27.4 J	38.1 J	14.8 U	24.5 J	24.8 J	6.89 U
Thallium (dissolved)	µg/L	0.47	0.145 U	0.065 U	0.04 U	0.035 U	0.03 U	0.035 U
Zinc (dissolved)	µg/L	81	1.59 U	1.8 U	2.7 U	3.02 U	2.11 U	2.33 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-19	5106-19	5106-20	5106-20	5106-20	5106-20		
Sample ID:	GW-011706-5106-19-012	GW-011706-5106-19-013	GW-010406-5106-20-001	GW-010406-5106-20-002	GW-010406-5106-20-003	GW-010406-5106-20-004		
Sample Date:	1/17/2006	1/17/2006	1/4/2006	1/4/2006	1/4/2006	1/4/2006		
Sample Depth:	100.5 to 103.5 ft bml	110.5 to 113.5 ft bml	0.5 to 3.5 ft bml	3.5 to 6.5 ft bml	8.5 to 11.5 ft bml	13.5 to 16.5 ft bml		
elev_MLLW	-138.6 to -141.6	-148.6 to -151.6	-35 to -38	-38 to -41	-43 to -46	-48 to -51		
elev_NGVD	-144.9 to -147.9	-154.9 to -157.9	-41.3 to -44.3	-44.3 to -47.3	-49.3 to -52.3	-54.3 to -57.3		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	1.44 J	1.43 J	5.55 U	6.09 U	3.77 U	8.17
Chromium (dissolved)	µg/L	50	4.13 U	1.31 U	2.95 U	3.44 U	3.62 U	3.15 U
Copper (dissolved)	µg/L	2.4	2.62 U	14 U	11.2 U	10.4 U	8.45 U	9.43 U
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.101 J	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	6.07 U	40.1 J	24 U	25.9 U	29 U	31 U
Thallium (dissolved)	µg/L	0.47	0.03 U	0.025 U	0.145 U	0.11 U	0.1 U	0.095 U
Zinc (dissolved)	µg/L	81	2.2 U	3.62 U	2.87 U	2.98 U	2.37 U	5.26 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-20	5106-20	5106-20	5106-20	5106-20	5106-20
Sample ID:	GW-010406-5106-20-005	GW-010506-5106-20-006	GW-010506-5106-20-007	GW-010506-5106-20-008	GW-010506-5106-20-009	GW-010506-5106-20-010
Sample Date:	1/4/2006	1/5/2006	1/5/2006	1/5/2006	1/5/2006	1/5/2006
Sample Depth:	18.5 to 21.5 ft bml	23.5 to 26.5 ft bml	28.5 to 31.5 ft bml	28.5 to 31.5 ft bml	33.5 to 36.5 ft bml	38.5 to 41.5 ft bml
elev_MLLW	-53 to -56	-58 to -61	-63 to -66	-63 to -66	-68 to -71	-73 to -76
elev_NGVD	-59.3 to -62.3	-64.3 to -67.3	-69.3 to -72.3	-69.3 to -72.3	-74.3 to -77.3	-79.3 to -82.3

Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	4.03 U	7.01	2.15 U	7.07	7.59	12.1
Chromium (dissolved)	µg/L	50	3.33 U	4.16 U	4.99 U	4.92 U	19.2	386
Copper (dissolved)	µg/L	2.4	10.1 U	10.9 U	10.1 U	10.3 U	10.8 U	37.8
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.185 J
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	35.9 U	34.7 U	40.9	41.4	41	100 J
Thallium (dissolved)	µg/L	0.47	0.95 U	0.25 U	0.09 U	0.06 U	0.07 U	0.195 U
Zinc (dissolved)	µg/L	81	5.31 U	3.37 U	10.5 U	11.4 U	3.2 U	12.9

Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-20	5106-20	5106-20	5106-20	5106-20	5106-20
Sample ID:	GW-010506-5106-20-011	GW-010506-5106-20-012	GW-010506-5106-20-013	GW-010506-5106-20-014	GW-010506-5106-20-015	GW-010506-5106-20-016
Sample Date:	1/5/2006	1/5/2006	1/5/2006	1/5/2006	1/5/2006	1/5/2006
Sample Depth:	43.5 to 46.5 ft bml	48.5 to 51.5 ft bml	53.5 to 56.5 ft bml	58.5 to 61.5 ft bml	63.5 to 66.5 ft bml	68.5 to 71.5 ft bml
elev_MLLW	-78 to -81	-83 to -86	-88 to -91	-93 to -96	-98 to -101	-103 to -106
elev_NGVD	-84.3 to -87.3	-89.3 to -92.3	-94.3 to -97.3	-99.3 to -102.3	-104.3 to -107.3	-109.3 to -112.3

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	2.27 J	11.7	-	2.37 J	12.4	-
Chromium (dissolved)	µg/L	50	13	160	316	3.87	404	3.09 U
Copper (dissolved)	µg/L	2.4	9.01	16.4	28.7	3.56 U	31.9	6.45
Lead (dissolved)	µg/L	8.1	0.07 J	0.175 J	0.95 J	0.11 J	0.265 J	0.19 J
Mercury (dissolved)	µg/L	0.025	0.17 J	0.044 U	0.44 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	41.4 J	63.1 J	140 J	20.5 J	94.6 J	19.8 J
Thallium (dissolved)	µg/L	0.47	0.11 U	0.1 U	0.95 U	0.065 U	0.085 U	0.07 U
Zinc (dissolved)	µg/L	81	5.66	7.66	24.6 J	2.82 J	9.28	3.2 J

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-20	5106-20	5106-20	5106-20	5106-20	5106-21
Sample ID:	GW-010506-5106-20-017	GW-010606-5106-20-018	GW-010606-5106-20-019	GW-010606-5106-20-020	GW-010606-5106-20-021	GW-010606-5106-21-001
Sample Date:	1/5/2006	1/6/2006	1/6/2006	1/6/2006	1/6/2006	1/6/2006
Sample Depth:	73.5 to 76.5 ft bml	78.5 to 81.5 ft bml	83.5 to 86.5 ft bml	88.5 to 91.5 ft bml	93.5 to 96.5 ft bml	0.5 to 3.5 ft bml
elev_MLLW	-108 to -111	-113 to -116	-118 to -121	-123 to -126	-128 to -131	-37.6 to -40.6
elev_NGVD	-114.3 to -117.3	-119.3 to -122.3	-124.3 to -127.3	-129.3 to -132.3	-134.3 to -137.3	-43.9 to -46.9

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	3.85	-	-	3.09	1.79 J	2.29 J
Chromium (dissolved)	µg/L	50	1.71 U	2.59 U	1.43 U	1.5 U	1.83 U	2.77 U
Copper (dissolved)	µg/L	2.4	9.14	3.02 U	8.68	12.1	10.7	14.6
Lead (dissolved)	µg/L	8.1	0.09 J	0.145 J	0.125 J	0.045 U	0.04 U	0.145 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	27.9 J	17.3 J	31.8 J	36.3 J	33.8 J	31.6 J
Thallium (dissolved)	µg/L	0.47	0.055 U	0.055 U	0.055 U	0.04 U	0.06 U	0.03 U
Zinc (dissolved)	µg/L	81	44.8	3.95 J	13.2	3.54 J	2.1 J	1.19 J

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-21	5106-21	5106-21	5106-21	5106-21	5106-21
Sample ID:	GW-010606-5106-21-002	GW-010606-5106-21-003	GW-010906-5106-21-004	GW-010906-5106-21-005	GW-010906-5106-21-006	GW-010906-5106-21-007
Sample Date:	1/6/2006	1/6/2006	1/9/2006	1/9/2006	1/9/2006	1/9/2006
Sample Depth:	5.5 to 8.5 ft bml	10.5 to 13.5 ft bml	15.5 to 18.5 ft bml	20.5 to 23.5 ft bml	25.5 to 28.5 ft bml	30.5 to 33.5 ft bml
elev_MLLW	-42.6 to -45.6	-47.6 to -50.6	-52.6 to -55.6	-57.6 to -60.6	-62.6 to -65.6	-67.6 to -70.6
elev_NGVD	-48.9 to -51.9	-53.9 to -56.9	-58.9 to -61.9	-63.9 to -66.9	-68.9 to -71.9	-73.9 to -76.9

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	1.81 J	0.334 U	1.69 U	5.89	8.82	11.4
Chromium (dissolved)	µg/L	50	6.24	3.82	4.27 U	7.41 U	55.5	55.5
Copper (dissolved)	µg/L	2.4	9	6.13	7.11 U	7.85 U	11.1 U	12.7
Lead (dissolved)	µg/L	8.1	0.09 U	0.065 U	0.09 U	0.18 U	0.14 U	0.15 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	31.6 J	31.5 J	39.4	34.2	42.9	47
Thallium (dissolved)	µg/L	0.47	0.02 U	0.0184 U	0.0184 U	0.05 U	0.04 U	0.03 U
Zinc (dissolved)	µg/L	81	0.54 J	5.23	4.59 U	0.302 U	0.99 U	0.3 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-21	5106-21	5106-21	5106-21	5106-21	5106-21
Sample ID:	GW-011006-5106-21-008	GW-011006-5106-21-009	GW-011006-5106-21-010	GW-011006-5106-21-011	GW-011006-5106-21-012	GW-011006-5106-21-013
Sample Date:	1/10/2006	1/10/2006	1/10/2006	1/10/2006	1/10/2006	1/10/2006
Sample Depth:	35.5 to 38.5 ft bml	35.5 to 38.5 ft bml	40.5 to 43.5 ft bml	45.5 to 48.5 ft bml	50.5 to 53.5 ft bml	55.5 to 58.5 ft bml
elev_MLLW	-72.6 to -75.6	-72.6 to -75.6	-77.6 to -80.6	-82.6 to -85.6	-87.6 to -90.6	-92.6 to -95.6
elev_NGVD	-78.9 to -81.9	-78.9 to -81.9	-83.9 to -86.9	-88.9 to -91.9	-93.9 to -96.9	-98.9 to -101.9

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14		21.6	24.5	4.05	7.49
Chromium (dissolved)	µg/L	50		722	660	17.5 U	57.8
Copper (dissolved)	µg/L	2.4		54.7	48.3	12.1	14
Lead (dissolved)	µg/L	8.1		0.38 U	0.38 U	0.15 U	0.13 U
Mercury (dissolved)	µg/L	0.025		0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2		119	111	41.8	51.1
Thallium (dissolved)	µg/L	0.47		0.04 U	0.03 U	0.02 U	0.03 U
Zinc (dissolved)	µg/L	81		15.7 U	13.4 U	4.77 U	0.302 U

Metals~Total							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-21	5106-21	5106-21	5106-21	5106-21	5106-21
Sample ID:	GW-011006-5106-21-014	GW-011006-5106-21-015	GW-011006-5106-21-016	GW-011006-5106-21-017	GW-011006-5106-21-018	GW-011006-5106-21-019
Sample Date:	1/10/2006	1/10/2006	1/10/2006	1/10/2006	1/10/2006	1/11/2006
Sample Depth:	60.5 to 63.5 ft bml	65.5 to 68.5 ft bml	70.5 to 73.5 ft bml	75.5 to 78.5 ft bml	80.5 to 83.5 ft bml	85.5 to 88.5 ft bml
elev_MLLW	-97.6 to -100.6	-102.6 to -105.6	-107.6 to -110.6	-112.6 to -115.6	-117.6 to -120.6	-122.6 to -125.6
elev_NGVD	-103.9 to -106.9	-108.9 to -111.9	-113.9 to -116.9	-118.9 to -121.9	-123.9 to -126.9	-128.9 to -131.9

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14		6.07 U	3.59 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50		92.3	6.65	8.35	6.89
Copper (dissolved)	µg/L	2.4		9.17	7.66	5.75	1.33 J
Lead (dissolved)	µg/L	8.1		0.205 U	0.2 U	0.2 U	0.23 U
Mercury (dissolved)	µg/L	0.025		0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2		31.9 J	22.5 J	14.7 J	2.39 J
Thallium (dissolved)	µg/L	0.47		0.0184 U	0.03 U	0.035 U	0.03 U
Zinc (dissolved)	µg/L	81		7.87	3.7 U	3.76 U	5.85

Parameters	Units	CSI	WG				
Metals~Total							
Arsenic	µg/L	0.14		-	-	-	-
Chromium	µg/L	50		-	-	-	-
Copper	µg/L	2.4		-	-	-	-
Lead	µg/L	8.1		-	-	-	-
Mercury	µg/L	0.025		-	-	-	-
Nickel	µg/L	8.2		-	-	-	-
Thallium	µg/L	0.47		-	-	-	-
Zinc	µg/L	81		-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-22	5106-22	5106-22	5106-22	5106-22	5106-22
Sample ID:	GW-012506-5106-22-001	GW-012506-5106-22-002	GW-012506-5106-22-003	GW-012506-5106-22-004	GW-012506-5106-22-005	GW-012506-5106-22-006
Sample Date:	1/25/2006	1/25/2006	1/25/2006	1/25/2006	1/25/2006	1/25/2006
Sample Depth:	0 to 3 ft bml	0 to 3 ft bml	10 to 13 ft bml	20 to 23 ft bml	30 to 33 ft bml	40 to 43 ft bml
elev_MLLW	-29.2 to -32.2	-29.2 to -32.2	-39.2 to -42.2	-49.2 to -52.2	-59.2 to -62.2	-69.2 to -72.2
elev_NGVD	-35.5 to -38.5	-35.5 to -38.5	-45.5 to -48.5	-55.5 to -58.5	-65.5 to -68.5	-75.5 to -78.5

Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14		145 J	152 J	354 J	351 J	98.0 U	179 J
Chromium (dissolved)	µg/L	50		9.1 U	9.0 UJ	7.2 U	10.7 U	9.0 U	9.0 U
Copper (dissolved)	µg/L	2.4		58.6	65.1 J	101	85.4	97.8	71.9
Lead (dissolved)	µg/L	8.1		2.2 U	2.2 UJ	2.2 U	2.2 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025		0.080 U	0.054 U	0.16 U	0.16 U	0.12 U	0.17 U
Nickel (dissolved)	µg/L	8.2		17.8	18.5 J	18.9	20.6	19.4	15.6
Thallium (dissolved)	µg/L	0.47		0.45 J	0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U
Zinc (dissolved)	µg/L	81		46 U	443 J	178 J	168 J	247 J	94.4 J

Metals~Total									
Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-22	5106-22	5106-22	5106-22	5106-22	5106-22
Sample ID:	GW-012606-5106-22-007	GW-012606-5106-22-008	GW-012606-5106-22-009	GW-012606-5106-22-010	GW-012606-5106-22-011	GW-012606-5106-22-012
Sample Date:	1/26/2006	1/26/2006	1/26/2006	1/26/2006	1/26/2006	1/26/2006
Sample Depth:	50 to 53 ft bml	60 to 63 ft bml	70 to 73 ft bml	80 to 83 ft bml	90 to 93 ft bml	100 to 103 ft bml
elev_MLLW	-79.2 to -82.2	-89.2 to -92.2	-99.2 to -102.2	-109.2 to -112.2	-119.2 to -122.2	-129.2 to -132.2
elev_NGVD	-85.5 to -88.5	-95.5 to -98.5	-105.5 to -108.5	-115.5 to -118.5	-125.5 to -128.5	-135.5 to -138.5

Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14	27.6 U	11.0 U	6.6 U	11.7 U	12.6 U	215 J	
Chromium (dissolved)	µg/L	50	7.9 U	9.3 U	9.8 U	6.2 U	4.8 U	7.9 U	
Copper (dissolved)	µg/L	2.4	41.9	10.5 U	7.9 U	26.1 U	12.2 U	69.6	
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	
Mercury (dissolved)	µg/L	0.025	0.17 U	0.27 U	0.38 U	0.048 U	0.041 U	0.055 U	
Nickel (dissolved)	µg/L	8.2	8.1 J	3.2 U	3.2 U	8.8 J	3.2 U	23.1	
Thallium (dissolved)	µg/L	0.47	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
Zinc (dissolved)	µg/L	81	296 J	119 J	46 U	115 J	52.3 J	46 U	

Metals~Total									
Arsenic	µg/L	0.14	-	-	-	-	-	-	
Chromium	µg/L	50	-	-	-	-	-	-	
Copper	µg/L	2.4	-	-	-	-	-	-	
Lead	µg/L	8.1	-	-	-	-	-	-	
Mercury	µg/L	0.025	-	-	-	-	-	-	
Nickel	µg/L	8.2	-	-	-	-	-	-	
Thallium	µg/L	0.47	-	-	-	-	-	-	
Zinc	µg/L	81	-	-	-	-	-	-	

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	5106-22	5106-23	5106-23	5106-23	5106-23	5106-23
Sample ID:	GW-012606-5106-22-013	GW-021006-5106-23-001	GW-021006-5106-23-002	GW-021006-5106-23-003	GW-021006-5106-23-004	GW-021006-5106-23-005
Sample Date:	1/26/2006	2/10/2006	2/10/2006	2/10/2006	2/10/2006	2/10/2006
Sample Depth:	110 to 113 ft bml	0 to 3 ft bml	7 to 10 ft bml	7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml
elev_MLLW	-139.2 to -142.2	-2.6 to -5.6	-9.6 to -12.6	-9.6 to -12.6	-14.6 to -17.6	-19.6 to -22.6
elev_NGVD	-145.5 to -148.5	-8.9 to -11.9	-15.9 to -18.9	-15.9 to -18.9	-20.9 to -23.9	-25.9 to -28.9
				(Duplicate)		
Parameters	Units	CSI	WG			
Metals~Dissolved						
Arsenic (dissolved)	µg/L	0.14	51.6 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	8.0 U	7.48 U	3.96 U	3.58 U
Copper (dissolved)	µg/L	2.4	38.9	8.81 U	13.2	12.9
Lead (dissolved)	µg/L	8.1	4.5	0.12 U	0.04 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.041 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	13.4	42.1 U	43.4 U	42.4 U
Thallium (dissolved)	µg/L	0.47	0.20 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	2910 J	6.6 U	3.97 U	4.11 U
						2.75 U
						1.24 U
Metals~Total						
Arsenic	µg/L	0.14	-	-	-	-
Chromium	µg/L	50	-	-	-	-
Copper	µg/L	2.4	-	-	-	-
Lead	µg/L	8.1	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-
Zinc	µg/L	81	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-23	5106-23	5106-23	5106-23	5106-23	5106-24
Sample ID:	GW-021006-5106-23-006	GW-021006-5106-23-007	GW-021006-5106-23-008	GW-021006-5106-23-009	GW-021006-5106-23-010	GW-020806-5106-24-001
Sample Date:	2/10/2006	2/10/2006	2/10/2006	2/10/2006	2/10/2006	2/8/2006
Sample Depth:	22 to 25 ft bml	27 to 30 ft bml	32 to 35 ft bml	37 to 40 ft bml	42 to 45 ft bml	2 to 5 ft bml
elev_MLLW	-24.6 to -27.6	-29.6 to -32.6	-34.6 to -37.6	-39.6 to -42.6	-44.6 to -47.6	-4.2 to -7.2
elev_NGVD	-30.9 to -33.9	-35.9 to -38.9	-40.9 to -43.9	-45.9 to -48.9	-50.9 to -53.9	-10.5 to -13.5

Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14		0.334 U	0.334 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50		2.71 U	3.35 U	3.74 U	3.92 U	4.17 U
Copper (dissolved)	µg/L	2.4		20.9	18.8	9.62	13.9	15.3
Lead (dissolved)	µg/L	8.1		0.0167 U	0.0167 U	0.0167 U	0.07 U	0.12 U
Mercury (dissolved)	µg/L	0.025		0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2		43.8 J	47.5 J	45.9 J	53.7 J	61.9 J
Thallium (dissolved)	µg/L	0.47		0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81		0.855 U	1.54 U	0.302 U	0.302 U	0.302 U

Parameters	Units	CSI	WG					
Metals~Total								
Arsenic	µg/L	0.14		-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-24	5106-24	5106-24	5106-24	5106-24	5106-24
Sample ID:	GW-020806-5106-24-002	GW-020806-5106-24-003	GW-020806-5106-24-004	GW-020806-5106-24-005	GW-020806-5106-24-006	GW-020806-5106-24-007
Sample Date:	2/8/2006	2/8/2006	2/8/2006	2/8/2006	2/8/2006	2/8/2006
Sample Depth:	7 to 10 ft bml	12 to 15 ft bml	12 to 15 ft bml	17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml
elev_MLLW	-9.2 to -12.2	-14.2 to -17.2	-14.2 to -17.2	-19.2 to -22.2	-24.2 to -27.2	-29.2 to -32.2
elev_NGVD	-15.5 to -18.5	-20.5 to -23.5	-20.5 to -23.5	-25.5 to -28.5	-30.5 to -33.5	-35.5 to -38.5
			(Duplicate)			
Parameters	Units	CSI	WG			
Metals~Dissolved						
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	2.45 U	2.12 U	1.93 U	2.11 U
Copper (dissolved)	µg/L	2.4	6.7 U	14.6 J	15.4 J	17 J
Lead (dissolved)	µg/L	8.1	0.195 U	0.0167 U	0.02 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	28.6 U	41.6 J	43.8 J	46.2 J
Thallium (dissolved)	µg/L	0.47	0.06 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	9.73 U	3.13 U	3.2 U	4.17 U
						5.19 U
						4.06 U
Metals~Total						
Arsenic	µg/L	0.14	-	-	-	-
Chromium	µg/L	50	-	-	-	-
Copper	µg/L	2.4	-	-	-	-
Lead	µg/L	8.1	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-
Zinc	µg/L	81	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-24	5106-24	5106-24	5106-24	5106-24	5106-24
Sample ID:	GW-020806-5106-24-008	GW-020806-5106-24-009	GW-020906-5106-24-010	GW-020906-5106-24-011	GW-020906-5106-24-012	GW-020906-5106-24-013
Sample Date:	2/8/2006	2/8/2006	2/9/2006	2/9/2006	2/9/2006	2/9/2006
Sample Depth:	32 to 35 ft bml	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml	57 to 60 ft bml
elev_MLLW	-34.2 to -37.2	-39.2 to -42.2	-44.2 to -47.2	-49.2 to -52.2	-54.2 to -57.2	-59.2 to -62.2
elev_NGVD	-40.5 to -43.5	-45.5 to -48.5	-50.5 to -53.5	-55.5 to -58.5	-60.5 to -63.5	-65.5 to -68.5

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14		0.334 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50		2.41 U	2.69 U	3.56 U	3.16 U
Copper (dissolved)	µg/L	2.4		18.4 J	15.7 J	15.4 J	16.8 J
Lead (dissolved)	µg/L	8.1		0.02 U	0.085 U	0.12 U	0.075 U
Mercury (dissolved)	µg/L	0.025		0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2		53.8 J	56.4 J	64.7 J	67.4 J
Thallium (dissolved)	µg/L	0.47		0.0184 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81		4.56 U	2.11 U	1.09 U	0.302 U

Parameters	Units	CSI	WG				
Metals~Total							
Arsenic	µg/L	0.14		-	-	-	-
Chromium	µg/L	50		-	-	-	-
Copper	µg/L	2.4		-	-	-	-
Lead	µg/L	8.1		-	-	-	-
Mercury	µg/L	0.025		-	-	-	-
Nickel	µg/L	8.2		-	-	-	-
Thallium	µg/L	0.47		-	-	-	-
Zinc	µg/L	81		-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-24	5106-24	5106-24	5106-24	5106-24	5106-24	
Sample ID:	GW-020906-5106-24-014	GW-020906-5106-24-015	GW-020906-5106-24-016	GW-020906-5106-24-017	GW-020906-5106-24-018	GW-020906-5106-24-019	
Sample Date:	2/9/2006	2/9/2006	2/9/2006	2/9/2006	2/9/2006	2/9/2006	
Sample Depth:	62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml	77 to 80 ft bml	82 to 85 ft bml	87 to 90 ft bml	
elev_MLLW	-64.2 to -67.2	-69.2 to -72.2	-74.2 to -77.2	-79.2 to -82.2	-84.2 to -87.2	-89.2 to -92.2	
elev_NGVD	-70.5 to -73.5	-75.5 to -78.5	-80.5 to -83.5	-85.5 to -88.5	-90.5 to -93.5	-95.5 to -98.5	
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	1.72 U	7.72	31.7	310	4.17 U
Copper (dissolved)	µg/L	2.4	9.11 U	12.3	14.8	34.7	11.3
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.04 U	0.14 U	0.02 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	42.5 J	48.1 J	55.4 J	102 J	35.6 J
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.025 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	2.83 U	0.302 U	0.302 U	1.12 U	4.16 U
							3.14 U
Metals~Total							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-24	5106-24	5106-25	5106-25	5106-25	5106-25
Sample ID:	GW-020906-5106-24-020	GW-020906-5106-24-021	GW-042706-5106-25-009	GW-042706-5106-25-010	GW-041406-5106-25-001	GW-041406-5106-25-002
Sample Date:	2/9/2006	2/9/2006	4/27/2006	4/27/2006	4/14/2006	4/14/2006
Sample Depth:	92 to 95 ft bml	97 to 100 ft bml	1 to 5 ft bml	9 to 13 ft bml	19 to 23 ft bml	29 to 33 ft bml
elev_MLLW	-94.2 to -97.2	-99.2 to -102.2	-3.2 to -7.2	-11.2 to -15.2	-21.2 to -25.2	-31.2 to -35.2
elev_NGVD	-100.5 to -103.5	-105.5 to -108.5	-9.5 to -13.5	-17.5 to -21.5	-27.5 to -31.5	-37.5 to -41.5

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	1.3 U	0.37 U	0.37 U	0.37 U
Chromium (dissolved)	µg/L	50	8.07	13	5.0	8.7	2.6 U	2.7 U
Copper (dissolved)	µg/L	2.4	17.7	8.01	16 J	3.7 U	27 J	27 J
Lead (dissolved)	µg/L	8.1	0.06 U	0.06 U	0.10 U	0.11 U	0.035 U	0.020 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.053 J	0.055 U	0.055 U	0.055 U	0.055 U
Nickel (dissolved)	µg/L	8.2	46.9 J	22.7 J	24	13	30 J	37 J
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.019 U	0.019 U	0.019 U	0.019 U
Zinc (dissolved)	µg/L	81	4.07 U	2.34 U	4.1 U	4.0 U	1.0 U	2.2 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-25	5106-25	5106-25	5106-25	5106-25	5106-25		
Sample ID:	GW-041706-5106-25-003	GW-041706-5106-25-004	GW-041806-5106-25-005	GW-041806-5106-25-006	GW-041806-5106-25-007	GW-041806-5106-25-008		
Sample Date:	4/17/2006	4/17/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006		
Sample Depth:	39 to 43 ft bml	49 to 53 ft bml	59 to 63 ft bml	69 to 73 ft bml	69 to 73 ft bml	79 to 83 ft bml		
elev_MLLW	-41.2 to -45.2	-51.2 to -55.2	-61.2 to -65.2	-71.2 to -75.2	-71.2 to -75.2	-81.2 to -85.2		
elev_NGVD	-47.5 to -51.5	-57.5 to -61.5	-67.5 to -71.5	-77.5 to -81.5	-77.5 to -81.5	-87.5 to -91.5		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.37 U	0.37 U	0.37 U	1.2 U	0.37 U	8.8
Chromium (dissolved)	µg/L	50	2.8 U	3.4 U	3.2 U	5.6 U	4.8 U	7.0 U
Copper (dissolved)	µg/L	2.4	29 J	23 J	11 J	7.2 U	7.2 U	0.68 U
Lead (dissolved)	µg/L	8.1	0.035 U	0.020 U	0.025 U	0.025 U	0.016 U	0.15 U
Mercury (dissolved)	µg/L	0.025	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U
Nickel (dissolved)	µg/L	8.2	47 J	35 J	33	20	20	1.6 U
Thallium (dissolved)	µg/L	0.47	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Zinc (dissolved)	µg/L	81	3.0 U	4.8 U	3.1 U	2.0 U	2.2 U	4.0 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-26	5106-26	5106-26	5106-26	5106-26	5106-26
Sample ID:	GW-021406-5106-26-001	GW-021406-5106-26-002	GW-021406-5106-26-003	GW-021406-5106-26-004	GW-021406-5106-26-005	GW-021406-5106-26-006
Sample Date:	2/14/2006	2/14/2006	2/14/2006	2/14/2006	2/14/2006	2/14/2006
Sample Depth:	0 to 3 ft bml	7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml
elev_MLLW	1.9 to -1.1	-5.1 to -8.1	-10.1 to -13.1	-15.1 to -18.1	-20.1 to -23.1	-25.1 to -28.1
elev_NGVD	-4.4 to -7.4	-11.4 to -14.4	-16.4 to -19.4	-21.4 to -24.4	-26.4 to -29.4	-31.4 to -34.4

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	60.0	28.7 U	33.3 U	45.3 U	77.7	98.6
Chromium (dissolved)	µg/L	50	8.4 U	7.6 U	0.80 U	0.80 U	12.6 U	19.9 U
Copper (dissolved)	µg/L	2.4	79.7	25.5 U	39.6	69.9	101	102
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	0.091 U	0.082 U	0.082 U	0.082 U	0.30 U	0.29 U
Nickel (dissolved)	µg/L	8.2	23.1	6.9 J	13.0	16.6	12.8 U	14.4 U
Thallium (dissolved)	µg/L	0.47	0.28 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Zinc (dissolved)	µg/L	81	46 U	46 U	1430	64.2 J	46 U	1520

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-26	5106-26	5106-26	5106-26	5106-26	5106-26
Sample ID:	GW-021406-5106-26-007	GW-021406-5106-26-008	GW-021406-5106-26-009	GW-021506-5106-26-010	GW-021506-5106-26-011	GW-021506-5106-26-012
Sample Date:	2/14/2006	2/14/2006	2/14/2006	2/15/2006	2/15/2006	2/15/2006
Sample Depth:	32 to 35 ft bml	37 to 40 ft bml	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml
elev_MLLW	-30.1 to -33.1	-35.1 to -38.1	-35.1 to -38.1	-40.1 to -43.1	-45.1 to -48.1	-50.1 to -53.1
elev_NGVD	-36.4 to -39.4	-41.4 to -44.4	-41.4 to -44.4	-46.4 to -49.4	-51.4 to -54.4	-56.4 to -59.4

(Duplicate)

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	5106-26 (007)	5106-26 (008)	5106-26 (009)	5106-26 (010)	5106-26 (011)	5106-26 (012)
Arsenic (dissolved)	µg/L	0.14		67.2	55.0 J	16.9 J	52.7	48.7	17.3
Chromium (dissolved)	µg/L	50		22.6 U	11.6 U	15.0 U	17.3 U	17.5 U	19.9 U
Copper (dissolved)	µg/L	2.4		105	132	138	115	68.0	25.2
Lead (dissolved)	µg/L	8.1		2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025		0.082 U	0.082 U	0.082 U	0.082 U	0.048 U	0.082 U
Nickel (dissolved)	µg/L	8.2		20.7 U	16.2 U	17.3 U	15.8 U	15.4 U	8.1 U
Thallium (dissolved)	µg/L	0.47		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Zinc (dissolved)	µg/L	81		46 U	46 U	46 U	100 U	46 U	46 U

Metals~Total

Parameter	Units	CSI	WG	5106-26 (007)	5106-26 (008)	5106-26 (009)	5106-26 (010)	5106-26 (011)	5106-26 (012)
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-26	5106-26	5106-26	5106-26	5106-26	5106-26
Sample ID:	GW-021506-5106-26-013	GW-021506-5106-26-014	GW-021506-5106-26-015	GW-021506-5106-26-016	GW-021506-5106-26-017	GW-021606-5106-26-018
Sample Date:	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/16/2006
Sample Depth:	57 to 60 ft bml	62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml	77 to 80 ft bml	82 to 85 ft bml
elev_MLLW	-55.1 to -58.1	-60.1 to -63.1	-65.1 to -68.1	-70.1 to -73.1	-75.1 to -78.1	-80.1 to -83.1
elev_NGVD	-61.4 to -64.4	-66.4 to -69.4	-71.4 to -74.4	-76.4 to -79.4	-81.4 to -84.4	-86.4 to -89.4

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	7.8 U	62.7	164	139	99.7	48.2
Chromium (dissolved)	µg/L	50	16.5 U	18.4 U	20.4 U	20.2 U	10.2 U	13.2 U
Copper (dissolved)	µg/L	2.4	34.9	86.6	101	79.6	85.6	73.9
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	0.041 U	0.042 U	0.041 U	0.041 U	0.041 U	0.041 U
Nickel (dissolved)	µg/L	8.2	16.4 U	19.3 U	24.2 U	20.0 U	48.8	22.3 U
Thallium (dissolved)	µg/L	0.47	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Zinc (dissolved)	µg/L	81	46 U	46 U	71.6 U	46 U	46 U	46 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	5106-26		5106-26		5106-27		5106-27		5106-27		5106-27	
<i>Sample ID:</i>	GW-021606-5106-26-019		GW-021606-5106-26-020		GW-041006-5106-27-001		GW-041006-5106-27-002		GW-041006-5106-27-003		GW-041106-5106-27-004	
<i>Sample Date:</i>	2/16/2006		2/16/2006		4/10/2006		4/10/2006		4/10/2006		4/11/2006	
<i>Sample Depth:</i>	87 to 90 ft bml		92 to 95 ft bml		0 to 4 ft bml		5 to 9 ft bml		10 to 14 ft bml		15 to 19 ft bml	
<i>elev_MLLW</i>	-85.1 to -88.1		-90.1 to -93.1		-0.4 to -4.4		-5.4 to -9.4		-10.4 to -14.4		-15.4 to -19.4	
<i>elev_NGVD</i>	-91.4 to -94.4		-96.4 to -99.4		-6.7 to -10.7		-11.7 to -15.7		-16.7 to -20.7		-21.7 to -25.7	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>									
<i>Metals~Dissolved</i>												
Arsenic (dissolved)	µg/L	0.14		9.6 U		5.0 U		0.37 U		0.37 U		0.37 U
Chromium (dissolved)	µg/L	50		10.1 U		31.1 U		4.0		3.7		4.4
Copper (dissolved)	µg/L	2.4		9.0 J		6.0 U		0.41		0.48		0.58
Lead (dissolved)	µg/L	8.1		2.2 U		2.2 U		0.14 U		0.035 U		0.045 U
Mercury (dissolved)	µg/L	0.025		0.041 U		0.041 U		0.055 U		0.055 U		0.055 U
Nickel (dissolved)	µg/L	8.2		7.9 U		14.3 U		3.7		3.3		3.4
Thallium (dissolved)	µg/L	0.47		0.20 U		0.20 U		0.019 U		0.019 U		0.019 U
Zinc (dissolved)	µg/L	81		46 U		46 U		4.8 U		5.1 U		3.8 U
<i>Metals~Total</i>												
Arsenic	µg/L	0.14		-		-		-		-		-
Chromium	µg/L	50		-		-		-		-		-
Copper	µg/L	2.4		-		-		-		-		-
Lead	µg/L	8.1		-		-		-		-		-
Mercury	µg/L	0.025		-		-		-		-		-
Nickel	µg/L	8.2		-		-		-		-		-
Thallium	µg/L	0.47		-		-		-		-		-
Zinc	µg/L	81		-		-		-		-		-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-27	5106-27	5106-27	5106-27	5106-27	5106-27
Sample ID:	GW-041106-5106-27-005	GW-041106-5106-27-006	GW-041106-5106-27-007	GW-041106-5106-27-008	GW-041106-5106-27-009	GW-041206-5106-27-010
Sample Date:	4/11/2006	4/11/2006	4/11/2006	4/11/2006	4/11/2006	4/12/2006
Sample Depth:	19 to 23 ft bml	30 to 34 ft bml	39 to 43 ft bml	49 to 53 ft bml	49 to 53 ft bml	59 to 63 ft bml
elev_MLLW	-19.4 to -23.4	-30.4 to -34.4	-39.4 to -43.4	-49.4 to -53.4	-49.4 to -53.4	-59.4 to -63.4
elev_NGVD	-25.7 to -29.7	-36.7 to -40.7	-45.7 to -49.7	-55.7 to -59.7	-55.7 to -59.7	-65.7 to -69.7
Parameters	Units	CSI	WG	(Duplicate)		
Metals~Dissolved						
Arsenic (dissolved)	µg/L	0.14	0.37 U	0.37 U	0.37 U	0.37 U
Chromium (dissolved)	µg/L	50	4.4 U	4.0 U	6.6 U	3.1 U
Copper (dissolved)	µg/L	2.4	0.59 U	2.2 U	5.0	11
Lead (dissolved)	µg/L	8.1	0.11 U	0.025 U	0.045 U	0.030 U
Mercury (dissolved)	µg/L	0.025	0.055 U	0.055 U	0.055 U	0.055 U
Nickel (dissolved)	µg/L	8.2	2.7 U	12 U	22	24
Thallium (dissolved)	µg/L	0.47	0.019 U	0.019 U	0.019 U	0.019 U
Zinc (dissolved)	µg/L	81	5.2 U	5.4 U	3.3 U	8.1 U
Metals~Total						
Arsenic	µg/L	0.14	-	-	-	-
Chromium	µg/L	50	-	-	-	-
Copper	µg/L	2.4	-	-	-	-
Lead	µg/L	8.1	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-
Zinc	µg/L	81	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	5106-27		5106-27		5106-28		5106-28		5106-28		5106-28		
<i>Sample ID:</i>	GW-041206-5106-27-011		GW-041206-5106-27-012		GW-042006-5106-28-001		GW-042006-5106-28-002		GW-042006-5106-28-003		GW-042006-5106-28-004		
<i>Sample Date:</i>	4/12/2006		4/12/2006		4/20/2006		4/20/2006		4/20/2006		4/20/2006		
<i>Sample Depth:</i>	69 to 73 ft bml		79 to 83 ft bml		9 to 13 ft bml		19 to 23 ft bml		29 to 33 ft bml		44 to 48 ft bml		
<i>elev_MLLW</i>	-69.4 to -73.4		-79.4 to -83.4		-7.58 to -11.58		-17.58 to -21.58		-27.58 to -31.58		-42.58 to -46.58		
<i>elev_NGVD</i>	-75.7 to -79.7		-85.7 to -89.7		-13.9 to -17.9		-23.9 to -27.9		-33.9 to -37.9		-48.9 to -52.9		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>									
<i>Metals~Dissolved</i>													
Arsenic (dissolved)	µg/L	0.14	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Chromium (dissolved)	µg/L	50	4.6	3.0	3.0 J	2.7 J	2.3 J	4.4 J					
Copper (dissolved)	µg/L	2.4	0.25	2.0	0.87	2.5	2.9	0.88					
Lead (dissolved)	µg/L	8.1	0.10 U	0.13 U	0.14 U	0.13 U	0.11 U	0.17 U					
Mercury (dissolved)	µg/L	0.025	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U					
Nickel (dissolved)	µg/L	8.2	0.79	13	1.4	8.5	8.1	2.7					
Thallium (dissolved)	µg/L	0.47	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U					
Zinc (dissolved)	µg/L	81	3.9 U	5.1 U	6.5	3.1 U	2.6 U	3.2 U					
<i>Metals~Total</i>													
Arsenic	µg/L	0.14	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-29	5106-29	5106-29	5106-29	5106-29	5106-29
Sample ID:	GW-042106-5106-29-001	GW-042106-5106-29-002	GW-042106-5106-29-003	GW-042106-5106-29-004	GW-042406-5106-29-005	GW-042406-5106-29-006
Sample Date:	4/21/2006	4/21/2006	4/21/2006	4/21/2006	4/24/2006	4/24/2006
Sample Depth:	0 to 4 ft bml	9 to 13 ft bml	19 to 23 ft bml	19 to 23 ft bml	29 to 33 ft bml	39 to 43 ft bml
elev_MLLW	1.65 to -2.35	-7.35 to -11.35	-17.35 to -21.35	-17.35 to -21.35	-27.35 to -31.35	-37.35 to -41.35
elev_NGVD	-4.7 to -8.7	-13.7 to -17.7	-23.7 to -27.7	-23.7 to -27.7 (Duplicate)	-33.7 to -37.7	-43.7 to -47.7
Parameters	Units	CSI	WG			
Metals~Dissolved						
Arsenic (dissolved)	µg/L	0.14	0.37 U	0.37 U	0.46	0.37 U
Chromium (dissolved)	µg/L	50	1.5	3.2	3.5	3.9 U
Copper (dissolved)	µg/L	2.4	2.7	0.25	0.30	0.22
Lead (dissolved)	µg/L	8.1	0.045 U	0.016 U	0.060 U	0.016 U
Mercury (dissolved)	µg/L	0.025	0.055 U	0.055 U	0.055 U	0.055 U
Nickel (dissolved)	µg/L	8.2	9.9	1.4	1.1	0.88
Thallium (dissolved)	µg/L	0.47	0.019 U	0.019 U	0.019 U	0.019 U
Zinc (dissolved)	µg/L	81	1.5 U	1.1 U	1.5 U	0.84 U
						0.26 U
Metals~Total						
Arsenic	µg/L	0.14	-	-	-	-
Chromium	µg/L	50	-	-	-	-
Copper	µg/L	2.4	-	-	-	-
Lead	µg/L	8.1	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-
Zinc	µg/L	81	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-29	5106-30	5106-30	5106-30	5106-30	5106-30
<i>Sample ID:</i>			GW-042406-5106-29-007	GW-042606-5106-30-009	GW-042506-5106-30-001	GW-042506-5106-30-002	GW-042506-5106-30-003	GW-042506-5106-30-004
<i>Sample Date:</i>			4/24/2006	4/26/2006	4/25/2006	4/25/2006	4/25/2006	4/25/2006
<i>Sample Depth:</i>			49 to 53 ft bml	1 to 5 ft bml	9 to 13 ft bml	19 to 23 ft bml	29 to 33 ft bml	39 to 43 ft bml
<i>elev_MLLW</i>			-47.35 to -51.35	5.92 to 1.92	-2.08 to -6.08	-12.08 to -16.08	-22.08 to -26.08	-32.08 to -36.08
<i>elev_NGVD</i>			-53.7 to -57.7	-0.4 to -4.4	-8.4 to -12.4	-18.4 to -22.4	-28.4 to -32.4	-38.4 to -42.4
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Metals~Dissolved</i>								
Arsenic (dissolved)	µg/L	0.14	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Chromium (dissolved)	µg/L	50	2.4 U	8.3	5.9 U	8.8 U	9.1 U	9.8 U
Copper (dissolved)	µg/L	2.4	0.68 U	1.6 U	7.5 U	0.94 U	0.65 U	0.69 U
Lead (dissolved)	µg/L	8.1	0.040 U	0.13 U	0.12 U	0.13 U	0.10 U	0.10 U
Mercury (dissolved)	µg/L	0.025	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U
Nickel (dissolved)	µg/L	8.2	4.2 U	10	14 U	2.2 U	1.8 U	2.4 U
Thallium (dissolved)	µg/L	0.47	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Zinc (dissolved)	µg/L	81	0.26 U	6.6 U	13 U	3.9 U	4.7 U	5.9 U
<i>Metals~Total</i>								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			5106-30		5106-30		5106-30		5106-30		5106-31		5106-31			
<i>Sample ID:</i>			GW-042506-5106-30-005		GW-042506-5106-30-006		GW-042606-5106-30-008		GW-042606-5106-30-007		GW-042806-5106-31-001		GW-042806-5106-31-002			
<i>Sample Date:</i>			4/25/2006		4/25/2006		4/26/2006		4/26/2006		4/28/2006		4/28/2006			
<i>Sample Depth:</i>			49 to 53 ft bml		49 to 53 ft bml		59 to 63 ft bml		69 to 73 ft bml		1 to 5 ft bml		9 to 13 ft bml			
<i>elev_MLLW</i>			-42.08 to -46.08		-42.08 to -46.08		-52.08 to -56.08		-62.08 to -66.08		2.1 to -1.9		-5.9 to -9.9			
<i>elev_NGVD</i>			-48.4 to -52.4		-48.4 to -52.4		-58.4 to -62.4		-68.4 to -72.4		-4.2 to -8.2		-12.2 to -16.2			
			<i>(Duplicate)</i>													
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>													
<i>Metals~Dissolved</i>																
Arsenic (dissolved)	µg/L	0.14	0.37 U	0.37 U	0.37 U	4.0	0.37 U	0.37 U								
Chromium (dissolved)	µg/L	50	9.8 U	9.9 U	6.1	3.4 U	8.5 J	10 J								
Copper (dissolved)	µg/L	2.4	0.72 U	0.72 U	1.9 U	14 J	0.92 U	0.86 U								
Lead (dissolved)	µg/L	8.1	0.040 U	0.090 U	0.095 U	0.26 U	0.16 U	0.12 U								
Mercury (dissolved)	µg/L	0.025	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U								
Nickel (dissolved)	µg/L	8.2	3.6 U	3.5 U	6.2	29	1.2	1.9								
Thallium (dissolved)	µg/L	0.47	0.019 U	0.019 U	0.019 U	0.019 U	0.050 U	0.019 U								
Zinc (dissolved)	µg/L	81	5.6 U	6.2 U	6.0 U	30	3.0 U	2.9 U								
<i>Metals~Total</i>																
Arsenic	µg/L	0.14	-	-	-	-	-	-								
Chromium	µg/L	50	-	-	-	-	-	-								
Copper	µg/L	2.4	-	-	-	-	-	-								
Lead	µg/L	8.1	-	-	-	-	-	-								
Mercury	µg/L	0.025	-	-	-	-	-	-								
Nickel	µg/L	8.2	-	-	-	-	-	-								
Thallium	µg/L	0.47	-	-	-	-	-	-								
Zinc	µg/L	81	-	-	-	-	-	-								

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-31	5106-31	5106-31	5106-31	5106-31
<i>Sample ID:</i>			GW-042806-5106-31-003	GW-042806-5106-31-004	GW-042906-5106-31-BS-005	GW-042906-5106-31-BS-006	GW-042906-5106-31-BS-007
<i>Sample Date:</i>			4/28/2006	4/28/2006	4/29/2006	4/29/2006	4/29/2006
<i>Sample Depth:</i>			19 to 23 ft bml	29 to 33 ft bml	39 to 43 ft bml	39 to 43 ft bml	49 to 53 ft bml
<i>elev_MLLW</i>			-15.9 to -19.9	-25.9 to -29.9	-35.9 to -39.9	-35.9 to -39.9	-45.9 to -49.9
<i>elev_NGVD</i>			-22.2 to -26.2	-32.2 to -36.2	-42.2 to -46.2	-42.2 to -46.2	-52.2 to -56.2
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Metals~Dissolved</i>							
Arsenic (dissolved)	µg/L	0.14	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Chromium (dissolved)	µg/L	50	8.6 J	8.5 J	9.8 U	11 U	11 U
Copper (dissolved)	µg/L	2.4	0.78 U	2.3	1.3 U	0.96 U	0.87 U
Lead (dissolved)	µg/L	8.1	0.61 U	0.11 U	0.15 U	0.025 U	0.085 U
Mercury (dissolved)	µg/L	0.025	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U
Nickel (dissolved)	µg/L	8.2	2.1	9.0	5.9 U	5.5 U	2.6 U
Thallium (dissolved)	µg/L	0.47	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Zinc (dissolved)	µg/L	81	11	2.6 U	4.7 U	4.3 U	4.8 U
<i>Metals~Total</i>							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-31	5106-32	5106-32	5106-32	5106-32		
Sample ID:	GW-042906-5106-31-BS-008	GW-050306-5106-32-BS-001	GW-050306-5106-32-BS-002	GW-050306-5106-32-BS-003	GW-050406-5106-32-BS-004		
Sample Date:	4/29/2006	5/3/2006	5/3/2006	5/3/2006	5/4/2006		
Sample Depth:	59 to 63 ft bml	1 to 5 ft bml	9 to 13 ft bml	19 to 23 ft bml	29 to 33 ft bml		
elev_MLLW	-55.9 to -59.9	-15.5 to -19.5	-23.5 to -27.5	-33.5 to -37.5	-43.5 to -47.5		
elev_NGVD	-62.2 to -66.2	-21.8 to -25.8	-29.8 to -33.8	-39.8 to -43.8	-49.8 to -53.8		
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	0.37 U	0.37 U	0.74 J	31	0.37 U
Chromium (dissolved)	µg/L	50	10 U	3.5	11	9.6	5.0 U
Copper (dissolved)	µg/L	2.4	0.89 U	20	1.2 U	2.1 U	17 U
Lead (dissolved)	µg/L	8.1	0.15 U	0.016 U	0.016 U	0.085 U	0.025 U
Mercury (dissolved)	µg/L	0.025	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U
Nickel (dissolved)	µg/L	8.2	3.3 U	33	1.5 U	3.9	46 U
Thallium (dissolved)	µg/L	0.47	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Zinc (dissolved)	µg/L	81	4.7 U	4.2 U	2.4 J	5.3 U	1.8 U
Metals~Total							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-32	5106-32	709-MW2-15	709-MW4-15	709-MW5-15
Sample ID:	GW-050406-5106-32-BS-005	GW-050406-5106-32-BS-006	WG-072112-DJT-709-MW2-15-226	WG-072212-DJT-709-MW4-15-227	WG-072212-DJT-709-MW5-15-228
Sample Date:	5/4/2006	5/4/2006	7/21/2012	7/22/2012	7/22/2012
Sample Depth:	39 to 43 ft bml	49 to 53 ft bml	15 ft BGS	15 ft BGS	15 ft BGS
elev_MLLW	-53.5 to -57.5	-63.5 to -67.5	3.76	2.92	2.92
elev_NGVD	-59.8 to -63.8	-69.8 to -73.8	-2.6	-3.4	-3.4

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	9.1	16	-	-	-
Chromium (dissolved)	µg/L	50	19 U	20 U	-	-	-
Copper (dissolved)	µg/L	2.4	1.2 U	1.1 U	-	-	-
Lead (dissolved)	µg/L	8.1	0.045 U	0.090 U	-	-	-
Mercury (dissolved)	µg/L	0.025	0.055 U	0.055 U	-	-	-
Nickel (dissolved)	µg/L	8.2	2.5 U	1.0 U	-	-	-
Thallium (dissolved)	µg/L	0.47	0.019 U	0.019 U	-	-	-
Zinc (dissolved)	µg/L	81	2.6 U	3.5 U	-	-	-

Metals~Total

Arsenic	µg/L	0.14	-	-	15.8	4.54	3.61
Chromium	µg/L	50	-	-	1.30 J	2.00 U	13.8
Copper	µg/L	2.4	-	-	3.89	1.32	6.80
Lead	µg/L	8.1	-	-	1.540	0.200 U	868
Mercury	µg/L	0.025	-	-	0.02 J	0.20 U	0.20 U
Nickel	µg/L	8.2	-	-	1.50 J	0.20 J	26.1
Thallium	µg/L	0.47	-	-	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	-	-	5.00 U	5.00 U	22.5

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	709-MW6-15	709-MW6-25	709-MW6-50	709-MW7-15
Sample ID:	WG-080912-LP-709-MW6-15-229	WG-080912-LP-709-MW6-25-229	WG-080912-LP-709-MW6-50-229	WG-072812-PR-709-MW7-15-232
Sample Date:	8/9/2012	8/9/2012	8/9/2012	7/28/2012
Sample Depth:	15 ft BGS	25 ft BGS	50 ft BGS	15 ft BGS
elev_MLLW	2.92	-6.82	-31.89	2.87
elev_NGVD	-3.4	-13.1	-38.2	-3.4

Parameters	Units	CSI	WG			
Metals~Dissolved						
Arsenic (dissolved)	µg/L	0.14	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-
Metals~Total						
Arsenic	µg/L	0.14	7.87	73.6	0.32 J	2.26
Chromium	µg/L	50	2.00 U	81.8	2.00 U	2.00 U
Copper	µg/L	2.4	1.18	49.9	1.00 U	0.50 J
Lead	µg/L	8.1	0.345	6.110	0.200 U	0.200 U
Mercury	µg/L	0.025	0.20 U	0.80 U	0.20 U	0.02 J
Nickel	µg/L	8.2	2.00 U	14.2	2.00 U	2.00 U
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U
Zinc	µg/L	81	5.00 U	8.48	5.00 U	1.76 J

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	709-MW8-15	709-MW9-15	709-MW9-25	709-MW11-15
Sample ID:	WG-080912-AMK-709-MW8-15-233	WG-081412-AMK-709-MW9-15-234	WG-081412-AMK-709-MW9-25-235	WG-072912-ALK-709-MW11-15-236
Sample Date:	8/9/2012	8/14/2012	8/14/2012	7/29/2012
Sample Depth:	15 ft BGS	15 ft BGS	25 ft BGS	15 ft BGS
elev_MLLW	2.92	2.92	-6.92	2.92
elev_NGVD	-3.4	-3.4	-13.2	-3.4

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG
Arsenic (dissolved)	µg/L	0.14	-
Chromium (dissolved)	µg/L	50	-
Copper (dissolved)	µg/L	2.4	-
Lead (dissolved)	µg/L	8.1	-
Mercury (dissolved)	µg/L	0.025	-
Nickel (dissolved)	µg/L	8.2	-
Thallium (dissolved)	µg/L	0.47	-
Zinc (dissolved)	µg/L	81	-

Metals~Total

Parameter	Units	CSI	WG
Arsenic	µg/L	0.14	51.7
Chromium	µg/L	50	2.34
Copper	µg/L	2.4	4.68
Lead	µg/L	8.1	0.630
Mercury	µg/L	0.025	0.20 U
Nickel	µg/L	8.2	2.00 U
Thallium	µg/L	0.47	0.200 U
Zinc	µg/L	81	5.00 U

Parameter	Units	WG
Arsenic	µg/L	1.68
Chromium	µg/L	1.65 J
Copper	µg/L	0.53 J
Lead	µg/L	0.157 J
Mercury	µg/L	0.20 U
Nickel	µg/L	0.42 J
Thallium	µg/L	0.200 U
Zinc	µg/L	1.75 J

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	709-MW11-25	709-MW15-15	709-MW15A-50	709-MW16-15
Sample ID:	WG-072912-ALK-709-MW11-25	WG-081512-TS-709MW15-15-238	WG-081412-JN-709-MW15A-50-240	WG-072712-ALK-709-MW16-15-241
Sample Date:	7/29/2012	8/15/2012	8/14/2012	7/27/2012
Sample Depth:	25 ft BGS	15 ft bgs	50 ft BGS	15 ft bgs
elev_MLLW	-8.16	2.85	-32.24	2.92
elev_NGVD	-14.5	-3.5	-38.6	-3.4

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-

Metals~Total

Arsenic	µg/L	0.14	0.60 J	24.0	1.73	5.99
Chromium	µg/L	50	1.08 J	4.01	2.00 U	0.71 J
Copper	µg/L	2.4	0.51 J	1.38	0.58 J	0.83 J
Lead	µg/L	8.1	0.102 J	0.460	0.293	1.310
Mercury	µg/L	0.025	0.03 J	0.20 U	0.20 U	0.02 J
Nickel	µg/L	8.2	0.45 J	4.98	2.00 U	0.83 J
Thallium	µg/L	0.47	0.200 U	0.200 U	0.0187 J	0.200 U
Zinc	µg/L	81	5.00 U	5.00 U	5.00 U	5.00 U

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	709-MW16-25	709-MW16-50	709-MW16-75	709-MW17-15			
<i>Sample ID:</i>	WG-072712-ALK-709-MW16-25-242	WG-072812-ALK-709-MW16-50-243	WG-072812-ALK-709-MW16-75-244	WG-072112-DJT-709-MW17-15-245			
<i>Sample Date:</i>	7/27/2012	7/28/2012	7/28/2012	7/21/2012			
<i>Sample Depth:</i>	25 ft BGS	50 ft BGS	75 ft BGS	15 ft bgs			
<i>elev_MLLW</i>	-7.47	-32.6	-57.62	2.92			
<i>elev_NGVD</i>	-13.8	-38.9	-63.9	-3.4			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-
Metals~Total							
Arsenic	µg/L	0.14	1.35	1.55	0.34 J	3.77	
Chromium	µg/L	50	8.00	13.5	33.5	0.63 J	
Copper	µg/L	2.4	31.8	10.8	1.82	1.02	
Lead	µg/L	8.1	4.270	0.795	0.200 U	0.165 J	
Mercury	µg/L	0.025	0.03 J	0.04 J	0.03 J	0.20 U	
Nickel	µg/L	8.2	5.90	1.57 J	0.79 J	0.56 J	
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U	
Zinc	µg/L	81	15.3	5.00 U	5.00 U	5.00 U	

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	709-MW18-15	709-MW18-25	709-MW18-50	709-MW19-15
Sample ID:	WG-072612-PR-709-MW18-15-246	WG-072612-PR-709-MW18-25-247	WG-072612-PR-709-MW18-50-248	WG-072812-PR-709-MW19-15-249
Sample Date:	7/26/2012	7/26/2012	7/26/2012	7/28/2012
Sample Depth:	15 ft bgs	25 ft BGS	50 ft BGS	15 ft bgs
elev_MLLW	2.92	-7.28	-32.13	2.71
elev_NGVD	-3.4	-13.6	-38.4	-3.6

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG
Arsenic (dissolved)	µg/L	0.14	-
Chromium (dissolved)	µg/L	50	-
Copper (dissolved)	µg/L	2.4	-
Lead (dissolved)	µg/L	8.1	-
Mercury (dissolved)	µg/L	0.025	-
Nickel (dissolved)	µg/L	8.2	-
Thallium (dissolved)	µg/L	0.47	-
Zinc (dissolved)	µg/L	81	-

Metals~Total

Parameter	Units	CSI	WG
Arsenic	µg/L	0.14	12.6
Chromium	µg/L	50	2.00 U 15.3
Copper	µg/L	2.4	0.72 J 26.7
Lead	µg/L	8.1	0.435 3.770 8.220
Mercury	µg/L	0.025	0.20 U 0.03 J 0.04 J 0.05 J
Nickel	µg/L	8.2	0.51 J 8.33
Thallium	µg/L	0.47	0.200 U 0.0229 J 0.0177 J
Zinc	µg/L	81	5.00 U 24.7 32.4

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	709-MW20-15	709-MW20-25	709-MW20-50	709-MW20-75
Sample ID:	WG-082112-JN-709-MW20-15-223	WG-082312-JN-709-MW20-25-224	WG-082112-JN-709-MW20-50-225	WG-082212-JN-709-MW20-75-250
Sample Date:	8/21/2012	8/23/2012	8/21/2012	8/22/2012
Sample Depth:	15 ft BGS	25 ft BGS	50 ft BGS	75 ft BGS
elev_MLLW	4.68	-5.15	-30.47	-55.36
elev_NGVD	-1.6	-11.5	-36.8	-61.7

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-
Metals~Total							
Arsenic	µg/L	0.14	3.29	1.51	0.61 J	2.08	
Chromium	µg/L	50	0.73 J	4.00	6.18	1.66 J	
Copper	µg/L	2.4	2.04	0.85 J	3.52	0.33 J	
Lead	µg/L	8.1	5.960	0.393	0.589	0.316	
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U	
Nickel	µg/L	8.2	3.94	2.00 U	1.58 J	0.43 J	
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U	
Zinc	µg/L	81	17.7	40.0	5.00 U	5.00 U	

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	709-MW21-15	709-MW21-25	709-MW21-50	721-MW1	721-MW2	721-MW3
Sample ID:	WG-072712-PR-709-MW21-15-251	WG-072712-PR-709-MW21-25-252	WG-072712-PR-709-MW21-50-253	MW-1-2/15/2008	MW-2-2/16/2008	MW-3-2/17/2008
Sample Date:	7/27/2012	7/27/2012	7/27/2012	2/15/2008	2/16/2008	2/17/2008
Sample Depth:	15 ft BGS	25 ft BGS	50 ft BGS	10 ft BGS	10 ft BGS	10 ft BGS
elev_MLLW	3.07	-7	-32.02			
elev_NGVD	-3.2	-13.3	-38.3			

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	1 U	1 U
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-
Metals~Total							
Arsenic	µg/L	0.14	1.34	5.06	3.93	-	-
Chromium	µg/L	50	0.56 J	1.68 J	43.2	-	-
Copper	µg/L	2.4	0.24 J	4.49	58.7	-	-
Lead	µg/L	8.1	0.599	0.886	7.740	1 U	1 U
Mercury	µg/L	0.025	0.20 U	0.02 J	0.06 J	-	-
Nickel	µg/L	8.2	0.76 J	1.31 J	19.4	-	-
Thallium	µg/L	0.47	0.200 U	0.200 U	0.0547 J	-	-
Zinc	µg/L	81	33.9	5.95	156	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	721-MW5-15	721-MW5-25	721-MW5-50	721-MW5-75
Sample ID:	WG-082512-ALK-721-MW5-15-254	WG-082512-ALK-721-MW5-25-255	WG-082512-JN-721-MW5-50-256	WG-082512-JN-721-MW5-75-257
Sample Date:	8/25/2012	8/25/2012	8/25/2012	8/25/2012
Sample Depth:	15 ft BGS	25 ft BGS	50 ft BGS	75 ft BGS
elev_MLLW	2.8	-7.21	-32.29	-57.27
elev_NGVD	-3.5	-13.5	-38.6	-63.6

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-

Metals~Total

Arsenic	µg/L	0.14	0.90 J	9.32	0.61 J	1.46
Chromium	µg/L	50	2.14	17.8	0.48 J	2.00 U
Copper	µg/L	2.4	4.24	6.96	1.00 U	1.00 U
Lead	µg/L	8.1	0.424	0.454	0.200 U	0.200 U
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	0.58 J	3.42	2.00 U	2.00 U
Thallium	µg/L	0.47	0.200 U	0.200 U	0.0226 J	0.0215 J
Zinc	µg/L	81	5.00 U	5.00 U	5.00 U	5.00 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	721-MW6-15	721-MW6-25	721-MW6-25	721-MW6-50	721-MW7-15
Sample ID:	WG-072512-DJT-721-MW6-15-258	WG-072512-DJT-721-MW6-25-259	WG-072512-DJT-FD13-310	WG-072512-DJT-721-MW6-50-260	WG-080912-TRH-721-MW7-15-261
Sample Date:	7/25/2012	7/25/2012	7/25/2012	7/25/2012	8/9/2012
Sample Depth:	15 ft BGS	25 ft BGS	25 ft BGS	50 ft BGS	15 ft BGS
elev_MLLW	2.62	-7.41	-7.41	-32.5	2.51
elev_NGVD	-3.7	-13.7	-13.7	-38.8	-3.8
			(Duplicate)		
Parameters	Units	CSI	WG		
Metals~Dissolved					
Arsenic (dissolved)	µg/L	0.14	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-
Metals~Total					
Arsenic	µg/L	0.14	1.00 U	1.00 U	1.00 U
Chromium	µg/L	50	0.69 J	2.00 U	2.00 U
Copper	µg/L	2.4	1.00 U	1.00 U	1.00 U
Lead	µg/L	8.1	0.200 U	0.200 U	0.200 U
Mercury	µg/L	0.025	0.02 J	0.03 J	0.04 J
Nickel	µg/L	8.2	0.36 J	2.00 U	0.71 J
Thallium	µg/L	0.47	0.200 U	0.200 U	0.101 J
Zinc	µg/L	81	5.00 U	5.00 U	5.00 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	721-MW9-15	721-MW9-25	721-MW9-50	721-MW10-15
Sample ID:	WG-072212-DJT-721-MW9-15-262	WG-072212-DJT-721-MW9-25-263	WG-072212-DJT-721-MW9-50-264	WG-080812-TRH-721-MW10-15-265
Sample Date:	7/22/2012	7/22/2012	7/22/2012	8/8/2012
Sample Depth:	15 ft BGS	25 ft BGS	50 ft BGS	15 ft BGS
elev_MLLW	2.69	-7.28	-32.28	1.95
elev_NGVD	-3.6	-13.6	-38.6	-4.4

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	721-MW9-15	721-MW9-25	721-MW9-50	721-MW10-15
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-

Metals~Total

Parameter	Units	CSI	WG	721-MW9-15	721-MW9-25	721-MW9-50	721-MW10-15
Arsenic	µg/L	0.14		0.41 J	24.6	0.93 J	1.52
Chromium	µg/L	50		0.31 J	83.2	2.04	0.99 J
Copper	µg/L	2.4		1.00 U	117	1.00 U	0.30 J
Lead	µg/L	8.1		0.514	9.040	0.200 U	3.630
Mercury	µg/L	0.025		0.20 U	0.80 U	0.20 U	0.20 U
Nickel	µg/L	8.2		0.21 J	19.3	0.21 J	0.25 J
Thallium	µg/L	0.47		0.200 U	0.200 U	0.200 U	0.0064 J
Zinc	µg/L	81		5.00 U	16.0	5.00 U	0.84 J

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	721-MW10-25	721-MW10-50	721-MW10-50	721-MW10-75
Sample ID:	WG-080712-TRH-721-MW10-25-266	WG-080612-TRH-721-MW10-50-267	WG-080612-TRH-721-FD12-309	WG-080712-TRH-721-MW10-75-268
Sample Date:	8/7/2012	8/6/2012	8/6/2012	8/7/2012
Sample Depth:	25 ft BGS	50 ft BGS	50 ft BGS	75 ft BGS
elev_MLLW	-7.98	-33.02	-33.02	-57.9
elev_NGVD	-14.3	-39.3	-39.3	-64.2
			(Duplicate)	
Parameters	Units	CSI	WG	
Metals~Dissolved				
Arsenic (dissolved)	µg/L	0.14	-	-
Chromium (dissolved)	µg/L	50	-	-
Copper (dissolved)	µg/L	2.4	-	-
Lead (dissolved)	µg/L	8.1	-	-
Mercury (dissolved)	µg/L	0.025	-	-
Nickel (dissolved)	µg/L	8.2	-	-
Thallium (dissolved)	µg/L	0.47	-	-
Zinc (dissolved)	µg/L	81	-	-
Metals~Total				
Arsenic	µg/L	0.14	0.26 J	0.84 J
Chromium	µg/L	50	3.05	2.35
Copper	µg/L	2.4	0.85 J	0.44 J
Lead	µg/L	8.1	0.036 J	0.095 J
Mercury	µg/L	0.025	0.20 U	0.04 J
Nickel	µg/L	8.2	1.18 J	0.29 J
Thallium	µg/L	0.47	0.200 U	0.200 U
Zinc	µg/L	81	0.89 J	5.00 U

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	721-MW11-15	721-MW11-25	721-MW11-50	721-MW11-75
Sample ID:	WG-073112-PR-721-MW11-15-269	WG-073112-PR-721-MW11-25-270	WG-080112-PR-721-MW11-50-271	WG-073112-PR-721-MW11-75-272
Sample Date:	7/31/2012	7/31/2012	8/1/2012	7/31/2012
Sample Depth:	15 ft BGS	25 ft BGS	50 ft BGS	75 ft BGS
elev_MLLW	2.7	-7.31	-32.32	-57.32
elev_NGVD	-3.6	-13.6	-38.6	-63.6

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-
Metals~Total							
Arsenic	µg/L	0.14	2.05	1.67	1.04	2.70	
Chromium	µg/L	50	2.26	5.07	0.49 J	2.09	
Copper	µg/L	2.4	0.68 J	0.79 J	0.28 J	0.62 J	
Lead	µg/L	8.1	0.816	0.098 J	0.050 J	0.200 U	
Mercury	µg/L	0.025	0.02 J	0.04 J	0.20 U	0.05 J	
Nickel	µg/L	8.2	1.08 J	1.21 J	0.26 J	0.48 J	
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U	
Zinc	µg/L	81	5.00 U	5.00 U	5.00 U	5.52	

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	721-MW12-15	721-MW12-25	721-MW12-50	721-MW13-15
Sample ID:	WG-073012-ALK-721-MW12-15-273	WG-073012-ALK-721-MW12-25-274	WG-073012-ALK-721-MW12-50-275	WG-073112-AK-721-MW13-15-276
Sample Date:	7/30/2012	7/30/2012	7/30/2012	7/31/2012
Sample Depth:	15 ft BGS	25 ft BGS	50 ft BGS	15 ft BGS
elev_MLLW	2.39	-7.66	-32.66	2.38
elev_NGVD	-3.9	-14	-39	-3.9

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-
Metals~Total							
Arsenic	µg/L	0.14	1.68	0.82 J	2.42	1.60	
Chromium	µg/L	50	2.07	2.00 U	11.4	0.48 J	
Copper	µg/L	2.4	1.00 U	1.00 U	23.8	0.48 J	
Lead	µg/L	8.1	0.113 J	0.200 U	2.320	0.200 U	
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.02 J	
Nickel	µg/L	8.2	2.00 U	2.00 U	2.51	0.95 J	
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U	
Zinc	µg/L	81	5.00 U	5.00 U	16.3	5.00 U	

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	721-MW13-25	721-MW13-50	721-MW14-15	721-MW14-25
Sample ID:	WG-073112-AK-721-MW13-25-277	WG-073112-AK-721-MW13-50-278	WG-080812-TRH-721-MW14-15-279	WG-080912-TRH-721-MW14-25-279
Sample Date:	7/31/2012	7/31/2012	8/8/2012	8/9/2012
Sample Depth:	25 ft BGS	50 ft BGS	15 ft BGS	25 ft BGS
elev_MLLW	-7.69	-32.74	2.66	-7.35
elev_NGVD	-14	-39.1	-3.7	-13.7

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-
Metals~Total							
Arsenic	µg/L	0.14	0.27 J	0.82 J	2.48	0.49 J	
Chromium	µg/L	50	2.00 U	1.90 J	0.63 J	2.00 U	
Copper	µg/L	2.4	1.00 U	1.71	0.29 J	1.00 U	
Lead	µg/L	8.1	0.200 U	0.167 J	0.340	0.200 U	
Mercury	µg/L	0.025	0.03 J	0.03 J	0.02 J	0.20 U	
Nickel	µg/L	8.2	0.33 J	0.57 J	0.33 J	0.21 J	
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.200 U	
Zinc	µg/L	81	5.00 U	5.00 U	2.59 J	1.30 J	

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	721-MW14-50	721-MW15-15	721-MW15-25	721-MW15-50
Sample ID:	WG-080912-TRH-721-MW14-50-281	WG-073012-PR-721-MW15-15-282	WG-073012-PR-721-MW15-25-283	WG-073012-PR-721-MW15-50-284
Sample Date:	8/9/2012	7/30/2012	7/30/2012	7/30/2012
Sample Depth:	50 ft BGS	15 ft BGS	25 ft BGS	50 ft BGS
elev_MLLW	-32.38	2.52	-7.45	-32.38
elev_NGVD	-38.7	-3.8	-13.8	-38.7

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-
Metals~Total							
Arsenic	µg/L	0.14	1.01	5.31	0.76 J	1.70	
Chromium	µg/L	50	30.7	2.00 U	2.00 U	43.4	
Copper	µg/L	2.4	26.6	0.34 J	1.00 U	51.7	
Lead	µg/L	8.1	2.220	0.200 U	0.200 U	5.420	
Mercury	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U	
Nickel	µg/L	8.2	3.75	2.00 U	2.00 U	6.76	
Thallium	µg/L	0.47	0.200 U	0.200 U	0.200 U	0.0114 J	
Zinc	µg/L	81	16.6	5.00 U	5.00 U	31.6	

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Buffelen Production Well	CH-1	CH-1	CH-1	CH-1	CH-1		
Sample ID:	GW-040810-MD-BPW	GW-060106-LH-CH1-001	GW-072006-DR-CH1-002	GW-072006-DR-CH1-003	GW-072006-DR-CH1-004	GW-072006-DR-CH1-005		
Sample Date:	4/8/2010	6/1/2006	7/20/2006	7/20/2006	7/20/2006	7/20/2006		
Sample Depth:	450 ft bgs	7 to 10 ft bgs	23 to 27 ft bgs	48 to 52 ft bgs	73 to 77 ft bgs	73 to 77 ft bgs		
elev_MLLW		10.92 to 7.92	-5.08 to -9.08	-30.08 to -34.08	-55.08 to -59.08	-55.08 to -59.08		
elev_NGVD		4.6 to 1.6	-11.4 to -15.4	-36.4 to -40.4	-61.4 to -65.4	-61.4 to -65.4 (Duplicate)		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	16.6	31.5 J	2.1 J	22.7 J	30.4 J	30.2 J
Chromium (dissolved)	µg/L	50	0.28 U	1.0 U	4.3 UJ	5.2 UJ	113 J	114 J
Copper (dissolved)	µg/L	2.4	0.50 U	7.3	3.65 UJ	3.55 UJ	5.95 UJ	6.85 J
Lead (dissolved)	µg/L	8.1	0.99 U	2.6	0.65 J	3.55 J	0.4 J	5 UJ
Mercury (dissolved)	µg/L	0.025	0.06 U	0.041 U	0.2 U	0.2 U	5 U	5 U
Nickel (dissolved)	µg/L	8.2	0.22 U	5.2 J	3.25 J	3.8 J	41.9 J	42.9 J
Thallium (dissolved)	µg/L	0.47	2.00 U	1.8 J	5 UJ	5 UJ	5 UJ	5 UJ
Zinc (dissolved)	µg/L	81	5.7 J	12 U	20.8 UJ	1200 J	24.1 UJ	28.9 UJ
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	CH-1	CH-1	CH-1	CH-2	CH-2	CH-2
Sample ID:	GW-072006-DR-CH1-006	GW-072106-DR-CH1-007	GW-072106-DR-CH1-008	GW-060106-DR-CH2-001	GW-080206-DR-CH2-002	GW-080206-DR-CH2-003
Sample Date:	7/20/2006	7/21/2006	7/21/2006	6/1/2006	8/2/2006	8/2/2006
Sample Depth:	98 to 102 ft bgs	123 to 126 ft bgs	148 to 152 ft bgs	7 to 10 ft bgs	23 to 27 ft bgs	48 to 52 ft bgs
elev_MLLW	-80.08 to -84.08	-105.08 to -108.08	-130.08 to -134.08	10.92 to 7.92	-5.08 to -9.08	-30.08 to -34.08
elev_NGVD	-86.4 to -90.4	-111.4 to -114.4	-136.4 to -140.4	4.6 to 1.6	-11.4 to -15.4	-36.4 to -40.4

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	CH-1 (GW-072006-DR-CH1-006)	CH-1 (GW-072106-DR-CH1-007)	CH-1 (GW-072106-DR-CH1-008)	CH-2 (GW-060106-DR-CH2-001)	CH-2 (GW-080206-DR-CH2-002)	CH-2 (GW-080206-DR-CH2-003)
Arsenic (dissolved)	µg/L	0.14	50 UJ	4.15 J	5 UJ	1.5	10.3 J	245 J	
Chromium (dissolved)	µg/L	50	150 J	4 J	3.3 J	1.4 J	3.4 UJ	10 UJ	
Copper (dissolved)	µg/L	2.4	12.2 J	2.7 J	3.55 J	3.5	3.2 J	124 J	
Lead (dissolved)	µg/L	8.1	1.3 J	0.4 J	0.45 J	1.1 U	6.1 J	5.5 UJ	
Mercury (dissolved)	µg/L	0.025	5 U	0.2 U	0.2 U	0.091 U	0.041 UJ	0.41 UJ	
Nickel (dissolved)	µg/L	8.2	48.5 J	2.95 J	10.9 J	0.80 U	1.0 J	40 UJ	
Thallium (dissolved)	µg/L	0.47	10 UJ	5 UJ	5 UJ	0.30 U	0.15 UJ	0.50 UJ	
Zinc (dissolved)	µg/L	81	498 J	28.4 J	125 J	16.5 U	12 UJ	115 UJ	

Metals~Total

Parameter	Units	CSI	WG	CH-1 (GW-072006-DR-CH1-006)	CH-1 (GW-072106-DR-CH1-007)	CH-1 (GW-072106-DR-CH1-008)	CH-2 (GW-060106-DR-CH2-001)	CH-2 (GW-080206-DR-CH2-002)	CH-2 (GW-080206-DR-CH2-003)
Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	CH-2	CH-2	CH-2	CH-3	CH-3	CH-3			
Sample ID:	GW-080306-DR-CH2-004	GW-080306-DR-CH2-005	GW-080406-DR-CH2-006	GW-053006-LH-CH3-001	GW-053006-LH-CH3-002	GW-072706-DR-CH3-003			
Sample Date:	8/3/2006	8/3/2006	8/4/2006	5/30/2006	5/30/2006	7/27/2006			
Sample Depth:	73 to 77 ft bgs	98 to 102 ft bgs	123 to 127 ft bgs	10 to 14 ft bgs	21 to 24 ft bgs	48 to 52 ft bgs			
elev_MLLW	-55.08 to -59.08	-80.08 to -84.08	-105.08 to -109.08	7.92 to 3.92	-3.08 to -6.08	-30.08 to -34.08			
elev_NGVD	-61.4 to -65.4	-86.4 to -90.4	-111.4 to -115.4	1.6 to -2.4	-9.4 to -12.4	-36.4 to -40.4			
Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14		105 J	33.8 J	10.2 J	6.5 J	21.0 J	115 J
Chromium (dissolved)	µg/L	50		18.7 UJ	4.1 UJ	2.1 UJ	0.20 UJ	1.5 UJ	40.9 J
Copper (dissolved)	µg/L	2.4		80.3 J	4.3 J	1.8 J	4.9 J	7.3 J	49.4 J
Lead (dissolved)	µg/L	8.1		5.5 UJ	3.2 J	4.2 J	1.9 UJ	3.1 UJ	5.5 UJ
Mercury (dissolved)	µg/L	0.025		0.41 UJ	0.12 UJ	0.15 UJ	0.041 UJ	0.041 UJ	0.41 UJ
Nickel (dissolved)	µg/L	8.2		10.5 J	4.0 J	3.1 J	1.4 J	1.7 J	16.0 J
Thallium (dissolved)	µg/L	0.47		0.50 UJ	0.18 UJ	0.14 UJ	0.78 UJ	1.3 UJ	0.50 UJ
Zinc (dissolved)	µg/L	81		115 UJ	20.3 J	12.4 J	12 UJ	12 UJ	115 UJ
Metals~Total									
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	CH-3	CH-3	CH-3	CH-3	CH-4	CH-4			
Sample ID:	GW-072706-DR-CH3-004	GW-072706-DR-CH3-005	GW-072706-DR-CH3-006	GW-072806-DR-CH3-007	GW-053106-LH-CH4-001	GW-072506-DR-CH4-002			
Sample Date:	7/27/2006	7/27/2006	7/27/2006	7/28/2006	5/31/2006	7/25/2006			
Sample Depth:	73 to 77 ft bgs	98 to 102 ft bgs	98 to 102 ft bgs	123 to 127 ft bgs	9 to 13 ft bgs	23 to 27 ft bgs			
elev_MLLW	-55.08 to -59.08	-80.08 to -84.08	-80.08 to -84.08	-105.08 to -109.08	8.92 to 4.92	-5.08 to -9.08			
elev_NGVD	-61.4 to -65.4	-86.4 to -90.4	-86.4 to -90.4	-111.4 to -115.4	2.6 to -1.4	-11.4 to -15.4			
			(Duplicate)						
Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14		118 J	20.1 J	22.3 J	6.2 J	32.4	47
Chromium (dissolved)	µg/L	50		140 UJ	5.0 J	5.4 J	1.9 J	0.20 U	4.3 U
Copper (dissolved)	µg/L	2.4		108 J	5.0 J	4.6 J	1.5 J	5.2	3.2 U
Lead (dissolved)	µg/L	8.1		5.5 UJ	0.55 UJ	0.55 UJ	0.55 UJ	2.0 U	2.3 J
Mercury (dissolved)	µg/L	0.025		0.41 UJ	85.2 J	0.25 UJ	0.20 UJ	0.059 J	1 U
Nickel (dissolved)	µg/L	8.2		40 UJ	7.6 J	7.9 J	6.0 J	0.80 U	3.05 J
Thallium (dissolved)	µg/L	0.47		1.3 J	0.050 UJ	0.050 UJ	0.050 UJ	0.94 U	0.5 U
Zinc (dissolved)	µg/L	81		115 UJ	12 UJ	12 UJ	12 UJ	12 U	9.3 U
Metals~Total									
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	CH-4	CH-4	CH-4	CH-4	CH-4	CH-5			
Sample ID:	GW-072506-DR-CH4-003	GW-072506-DR-CH4-004	GW-072506-DR-CH4-005	GW-072606-DR-CH4-006	GW-072606-DR-CH4-007	GW-060806-DR-CH5-001			
Sample Date:	7/25/2006	7/25/2006	7/25/2006	7/26/2006	7/26/2006	6/8/2006			
Sample Depth:	48 to 52 ft bgs	73 to 77 ft bgs	98 to 102 ft bgs	123 to 127 ft bgs	148 to 152 ft bgs	9 to 12 ft bgs			
elev_MLLW	-30.08 to -34.08	-55.08 to -59.08	-80.08 to -84.08	-105.08 to -109.08	-130.08 to -134.08	8.92 to 5.92			
elev_NGVD	-36.4 to -40.4	-61.4 to -65.4	-86.4 to -90.4	-111.4 to -115.4	-136.4 to -140.4	2.6 to -0.4			
Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14		64.4	85.5	43 J	28.2	2.7 J	43.2 U
Chromium (dissolved)	µg/L	50		4.3 U	26 J	83.5	5 U	1.1 U	44.1 U
Copper (dissolved)	µg/L	2.4		64.2	12 J	9.5 J	1.7 U	2.9 U	286
Lead (dissolved)	µg/L	8.1		24.8	7.5 J	6 J	0.75 U	0.65 U	968
Mercury (dissolved)	µg/L	0.025		0.2 U	2 U	2 U	0.2 U	0.2 U	0.082 U
Nickel (dissolved)	µg/L	8.2		5.95	27.5 J	42.5 J	3.7 J	16.2	8.0 U
Thallium (dissolved)	µg/L	0.47		5 U	50 U	50 U	5 U	5 U	1.1 U
Zinc (dissolved)	µg/L	81		28000	1340	108 J	12.6 U	41.4 U	233 J
Metals~Total									
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-1	Dock2-1	Dock2-1	Dock2-1	Dock2-1	Dock2-1
Sample ID:	GW-072005-DOCK2-1-001	GW-072005-DOCK2-1-002	GW-072005-DOCK2-1-003	GW-072005-DOCK2-1-004	GW-072105-DOCK2-1-005	GW-072105-DOCK2-1-006
Sample Date:	7/20/2005	7/20/2005	7/20/2005	7/20/2005	7/21/2005	7/21/2005
Sample Depth:	4.5 to 7.5 ft bml	8 to 11 ft bml	13 to 16 ft bml	18 to 21 ft bml	23 to 26 ft bml	28 to 31 ft bml
elev_MLLW	-47.4 to -50.4	-50.9 to -53.9	-55.9 to -58.9	-60.9 to -63.9	-65.9 to -68.9	-70.9 to -73.9
elev_NGVD	-53.7 to -56.7	-57.2 to -60.2	-62.2 to -65.2	-67.2 to -70.2	-72.2 to -75.2	-77.2 to -80.2

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	2.52	2.67	3.69	5.02	1.3 U	0.334 U
Chromium (dissolved)	µg/L	50	135	151	328	408	4.84 U	7.42 U
Copper (dissolved)	µg/L	2.4	19	15	13.6	16.3	8.13 U	4.01 U
Lead (dissolved)	µg/L	8.1	0.085 U	0.075 U	0.05 U	0.09 U	0.475 U	0.125 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.067 J	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	40.7	40.7	45.2	49	34.8 U	41.1 U
Thallium (dissolved)	µg/L	0.47	0.14 U	0.02 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	10.5 U	6.72 U	5.94 U	6.02 U	35.9 U	0.302 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-1	Dock2-1	Dock2-2	Dock2-2	Dock2-2	Dock2-2
Sample ID:	GW-072105-DOCK2-1-007	GW-072105-DOCK2-1-008	GW-071105-DOCK2-2-001	GW-071205-DOCK2-2-002	GW-071205-DOCK2-2-003	GW-071205-DOCK2-2-004
Sample Date:	7/21/2005	7/21/2005	7/11/2005	7/12/2005	7/12/2005	7/12/2005
Sample Depth:	33 to 36 ft bml	38 to 41 ft bml	7.5 to 10.5 ft bml	12.5 to 15.5 ft bml	17.5 to 20.5 ft bml	22.5 to 25.5 ft bml
elev_MLLW	-75.9 to -78.9	-80.9 to -83.9	-49.2 to -52.2	-54.2 to -57.2	-59.2 to -62.2	-64.2 to -67.2
elev_NGVD	-82.2 to -85.2	-87.2 to -90.2	-55.5 to -58.5	-60.5 to -63.5	-65.5 to -68.5	-70.5 to -73.5

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.725 U	0.334 U	0.334 U	0.334 U	0.334 U	1.67 U
Chromium (dissolved)	µg/L	50	3.15 U	3.24 U	2.76	3.5 U	2.28 U	2.06 U
Copper (dissolved)	µg/L	2.4	4.31 U	11.2 U	4.2	2.76	9.18	7.51
Lead (dissolved)	µg/L	8.1	0.315 U	0.04 U	0.0167 U	0.03 U	0.04 U	0.055 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	36.7 U	45.2 U	26.7	32.9 J	42.8 J	30.6 J
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.37 U	0.24 U	0.19 U
Zinc (dissolved)	µg/L	81	4.67 U	0.302 U	309	20.9	244	43.3

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-2	Dock2-2	Dock2-3	Dock2-3	Dock2-3	Dock2-3
Sample ID:	GW-071205-DOCK2-2-005	GW-071305-DOCK2-2-006	GW-072205-DOCK2-3-001	GW-072205-DOCK2-3-002	GW-072205-DOCK2-3-003	GW-072505-DOCK2-3-004
Sample Date:	7/12/2005	7/13/2005	7/22/2005	7/22/2005	7/22/2005	7/25/2005
Sample Depth:	27.5 to 30.5 ft bml	32.5 to 35.5 ft bml	3 to 6 ft bml	3 to 6 ft bml	8 to 11 ft bml	13 to 16 ft bml
elev_MLLW	-69.2 to -72.2	-74.2 to -77.2	-45.6 to -48.6	-45.6 to -48.6	-50.6 to -53.6	-55.6 to -58.6
elev_NGVD	-75.5 to -78.5	-80.5 to -83.5	-51.9 to -54.9	-51.9 to -54.9	-56.9 to -59.9	-61.9 to -64.9

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	1.19 U	0.334 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	2.61 U	1.9 U	42.2	45.7	8.11 U
Copper (dissolved)	µg/L	2.4	8.35	13.6	18.9 U	18.4 U	3.88 U
Lead (dissolved)	µg/L	8.1	0.06 U	0.035 U	0.09 U	0.055 U	0.05 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.055 J
Nickel (dissolved)	µg/L	8.2	41 J	60 J	31.8	33	16.8 U
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.1 U	0.06 J	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	14.7	576	3.47 U	4.03 U	0.975 U

Metals~Total							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-3	Dock2-3	Dock2-3	Dock2-4	Dock2-4	Dock2-4
Sample ID:	GW-072505-DOCK2-3-005	GW-072505-DOCK2-3-006	GW-072505-DOCK2-3-007	GW-072805-DOCK2-4-001	GW-072805-DOCK2-4-002	GW-072805-DOCK2-4-003
Sample Date:	7/25/2005	7/25/2005	7/25/2005	7/28/2005	7/28/2005	7/28/2005
Sample Depth:	18 to 21 ft bml	23 to 26 ft bml	28 to 31 ft bml	4 to 7 ft bml	9 to 12 ft bml	14 to 17 ft bml
elev_MLLW	-60.6 to -63.6	-65.6 to -68.6	-70.6 to -73.6	-46.2 to -49.2	-51.2 to -54.2	-56.2 to -59.2
elev_NGVD	-66.9 to -69.9	-71.9 to -74.9	-76.9 to -79.9	-52.5 to -55.5	-57.5 to -60.5	-62.5 to -65.5

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	Dock2-3 (005)	Dock2-3 (006)	Dock2-3 (007)	Dock2-4 (001)	Dock2-4 (002)	Dock2-4 (003)
Arsenic (dissolved)	µg/L	0.14		0.334 U	0.334 U	0.252 J	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50		2.47 U	3.4 U	0.594 U	2.19 U	2.03 U	4.45 U
Copper (dissolved)	µg/L	2.4		9.05 U	8.57 U	2.54 U	14.1 U	5.57 U	4.39 U
Lead (dissolved)	µg/L	8.1		0.04 U	0.045 U	0.008 U	0.05 U	0.025 U	0.025 U
Mercury (dissolved)	µg/L	0.025		0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2		46	43.4	10.8 U	29.4 U	30.3 U	27.3 U
Thallium (dissolved)	µg/L	0.47		0.0184 U	0.0184 U	0.00367 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81		0.302 U	0.302 U	0.0603 U	0.302 U	0.302 U	0.302 U

Metals~Total

Parameter	Units	CSI	WG	Dock2-3 (005)	Dock2-3 (006)	Dock2-3 (007)	Dock2-4 (001)	Dock2-4 (002)	Dock2-4 (003)
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Dock2-4	Dock2-4	Dock2-4	Dock2-4	Dock2-4	Dock2-5
Sample ID:	GW-072805-DOCK2-4-004	GW-072905-DOCK2-4-005	GW-072905-DOCK2-4-006	GW-072905-DOCK2-4-007	GW-072905-DOCK2-4-008	GW-080105-DOCK2-5-001
Sample Date:	7/28/2005	7/29/2005	7/29/2005	7/29/2005	7/29/2005	8/1/2005
Sample Depth:	19 to 22 ft bml	24 to 27 ft bml	24 to 27 ft bml	29 to 32 ft bml	34 to 37 ft bml	2 to 5 ft bml
elev_MLLW	-61.2 to -64.2	-66.2 to -69.2	-66.2 to -69.2	-71.2 to -74.2	-76.2 to -79.2	-37 to -40
elev_NGVD	-67.5 to -70.5	-72.5 to -75.5	-72.5 to -75.5	-77.5 to -80.5	-82.5 to -85.5	-43.3 to -46.3

Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14		0.58 J	0.37 J	2.46 J	2.64	1.22 J	1.53 U
Chromium (dissolved)	µg/L	50		5.09 U	7.07	7.55	2.27 J	1.38 J	37.7
Copper (dissolved)	µg/L	2.4		5.85 U	7.71 J	7.93 J	8.06 J	3.47 U	14.2 J
Lead (dissolved)	µg/L	8.1		0.045 U	0.06 U	0.02 U	0.04 U	0.04 U	0.035 U
Mercury (dissolved)	µg/L	0.025		0.072 J	0.056 J	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2		27.8 U	32.6 J	32.1 J	33.7 J	23.1 J	30
Thallium (dissolved)	µg/L	0.47		0.0184 U	0.08 U	0.045 U	0.0184 U	0.0184 U	0.12 U
Zinc (dissolved)	µg/L	81		0.302 U	0.302 U	0.302 U	6.84	103	8.98 U

Metals~Total									
Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-5	Dock2-5	Dock2-5	Dock2-5	Dock2-5	Dock2-5
Sample ID:	GW-080105-DOCK2-5-002	GW-080105-DOCK2-5-003	GW-080105-DOCK2-5-004	GW-080205-DOCK2-5-005	GW-080205-DOCK2-5-006	GW-080205-DOCK2-5-007
Sample Date:	8/1/2005	8/1/2005	8/1/2005	8/2/2005	8/2/2005	8/2/2005
Sample Depth:	2 to 5 ft bml	7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml
elev_MLLW	-37 to -40	-42 to -45	-47 to -50	-52 to -55	-57 to -60	-62 to -65
elev_NGVD	-43.3 to -46.3	-48.3 to -51.3	-53.3 to -56.3	-58.3 to -61.3	-63.3 to -66.3	-68.3 to -71.3
	(Duplicate)					

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	6.17	2.73	5.73	1.11 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	38.8	4.6	115	2.16 U	1.98 U	2.42 U
Copper (dissolved)	µg/L	2.4	15.1 J	22.5 J	15.4 J	7.02 U	7.24 U	6.7 U
Lead (dissolved)	µg/L	8.1	0.02 U	0.065 J	0.08 J	0.045 U	0.125 U	0.035 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	31.2	32	36.1	20.5 J	10.7 U	18.6 J
Thallium (dissolved)	µg/L	0.47	0.1 U	0.0184 U	0.075 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	9.52 J	2.89 U	14.4	0.302 U	0.302 U	0.302 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>Dock2-5</i>	<i>Dock2-5</i>	<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-6</i>
<i>Sample ID:</i>			<i>GW-080205-DOCK2-5-008</i>	<i>GW-080205-DOCK2-5-009</i>	<i>GW-090605-DOCK2-6-001</i>	<i>GW-090605-DOCK2-6-002</i>	<i>GW-090605-DOCK2-6-003</i>	<i>GW-090605-DOCK2-6-004</i>
<i>Sample Date:</i>			<i>8/2/2005</i>	<i>8/2/2005</i>	<i>9/6/2005</i>	<i>9/6/2005</i>	<i>9/6/2005</i>	<i>9/6/2005</i>
<i>Sample Depth:</i>			<i>32 to 35 ft bml</i>	<i>37 to 40 ft bml</i>	<i>0.7 to 3.7 ft bml</i>	<i>5.7 to 8.7 ft bml</i>	<i>10.7 to 13.7 ft bml</i>	<i>15.7 to 18.7 ft bml</i>
<i>elev_MLLW</i>			<i>-67 to -70</i>	<i>-72 to -75</i>	<i>-36.8 to -39.8</i>	<i>-41.8 to -44.8</i>	<i>-46.8 to -49.8</i>	<i>-51.8 to -54.8</i>
<i>elev_NGVD</i>			<i>-73.3 to -76.3</i>	<i>-78.3 to -81.3</i>	<i>-43.1 to -46.1</i>	<i>-48.1 to -51.1</i>	<i>-53.1 to -56.1</i>	<i>-58.1 to -61.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Metals~Dissolved</i>								
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.445 U	0.334 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	3.1 U	3.3 U	1.73 U	2.25 U	2.06 U	1.54 U
Copper (dissolved)	µg/L	2.4	5.05 U	7.91 U	2.94 U	10.9 U	6.88 U	8.4 U
Lead (dissolved)	µg/L	8.1	0.035 U	0.03 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	11.2 U	27.8 J	16.1 U	35.1 U	24.5 U	31.2 U
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.085 U	0.055 U	0.05 U	0.03 U
Zinc (dissolved)	µg/L	81	0.302 U	3.1 U	1.13 U	8.82 U	4.76 U	7.69 U
<i>Metals~Total</i>								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-6</i>
<i>Sample ID:</i>			<i>GW-090605-DOCK2-6-005</i>	<i>GW-090605-DOCK2-6-006</i>	<i>GW-090605-DOCK2-6-007</i>	<i>GW-090705-DOCK2-6-008</i>	<i>GW-090705-DOCK2-6-009</i>	<i>GW-090705-DOCK2-6-010</i>
<i>Sample Date:</i>			<i>9/6/2005</i>	<i>9/6/2005</i>	<i>9/6/2005</i>	<i>9/7/2005</i>	<i>9/7/2005</i>	<i>9/7/2005</i>
<i>Sample Depth:</i>			<i>20.7 to 23.7 ft bml</i>	<i>25.7 to 28.7 ft bml</i>	<i>25.7 to 28.7 ft bml</i>	<i>30.7 to 33.7 ft bml</i>	<i>35.7 to 38.7 ft bml</i>	<i>40.7 to 43.7 ft bml</i>
<i>elev_MLLW</i>			<i>-56.8 to -59.8</i>	<i>-61.8 to -64.8</i>	<i>-61.8 to -64.8</i>	<i>-66.8 to -69.8</i>	<i>-71.8 to -74.8</i>	<i>-76.8 to -79.8</i>
<i>elev_NGVD</i>			<i>-63.1 to -66.1</i>	<i>-68.1 to -71.1</i>	<i>-68.1 to -71.1</i>	<i>-73.1 to -76.1</i>	<i>-78.1 to -81.1</i>	<i>-83.1 to -86.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>					
<i>Metals~Dissolved</i>								
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	1.14 U	1.29 U	1.23 U	2.82 U	1.63 U	6.33 U
Copper (dissolved)	µg/L	2.4	9.93 U	10.5 U	10.6 U	7.76 U	13.4 U	8.87 U
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.57 J
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	39.4 U	37.5 U	37.8 U	30.2 U	47.1 U	5.07 U
Thallium (dissolved)	µg/L	0.47	0.025 U	0.0184 U	0.02 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	10.9 U	8.4 U	8.71 U	3.79 U	12.3 U	30 U
<i>Metals~Total</i>								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	<i>Dock2-7</i>	<i>Dock2-7</i>	<i>Dock2-7</i>	<i>Dock2-7</i>	<i>Dock2-7</i>	<i>Dock2-7</i>
Sample ID:	GW-090705-DOCK2-7-001	GW-090705-DOCK2-7-002	GW-090705-DOCK2-7-003	GW-090705-DOCK2-7-004	GW-090705-DOCK2-7-005	GW-090705-DOCK2-7-006
Sample Date:	9/7/2005	9/7/2005	9/7/2005	9/7/2005	9/7/2005	9/7/2005
Sample Depth:	3 to 6 ft bml	8 to 11 ft bml	13 to 16 ft bml	18 to 21 ft bml	23 to 26 ft bml	23 to 26 ft bml
elev_MLLW	-39.7 to -42.7	-44.7 to -47.7	-49.7 to -52.7	-54.7 to -57.7	-59.7 to -62.7	-59.7 to -62.7
elev_NGVD	-46 to -49	-51 to -54	-56 to -59	-61 to -64	-66 to -69	-66 to -69 (Duplicate)

Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	1.66 J	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	1.99 U	1.34 U	1.45 U	1.2 U	1.11 U	1.11 U
Copper (dissolved)	µg/L	2.4	4.85 U	8.09	4.56 U	7.1 U	10.5	10.6
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	19.4	31.6	23.1	26.1	31.5	31.2
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	2.96 U	11.7 U	3.81 U	5.47 U	6.35 U	4.7 U

Parameters	Units	CSI	WG					
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-7	Dock2-7	Dock2-8	Dock2-8	Dock2-8	Dock2-8
Sample ID:	GW-090705-DOCK2-7-007	GW-090705-DOCK2-7-008	GW-082005-DOCK2-8-001	GW-082205-DOCK2-8-002	GW-082205-DOCK2-8-003	GW-082205-DOCK2-8-004
Sample Date:	9/7/2005	9/7/2005	8/20/2005	8/22/2005	8/22/2005	8/22/2005
Sample Depth:	28 to 31 ft bml	33 to 36 ft bml	4 to 7 ft bml	9 to 12 ft bml	14 to 17 ft bml	19 to 22 ft bml
elev_MLLW	-64.7 to -67.7	-69.7 to -72.7	-46.3 to -49.3	-51.3 to -54.3	-56.3 to -59.3	-61.3 to -64.3
elev_NGVD	-71 to -74	-76 to -79	-52.6 to -55.6	-57.6 to -60.6	-62.6 to -65.6	-67.6 to -70.6

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	2.78	9.72	9.81	18.1
Chromium (dissolved)	µg/L	50	1.27 U	0.77 U	129	288	241	261
Copper (dissolved)	µg/L	2.4	7.09 U	13.8	37.2	40.2 U	45.8 U	28.6 U
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.15 U	0.2 U	0.08 U	0.05 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.121 J
Nickel (dissolved)	µg/L	8.2	26.4	36.7	76.3 J	100	83.6	89.4
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.06 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	4.2 U	5.92 U	4.95	11.1 U	11.4 U	5.29 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-8	Dock2-8	Dock2-8	Dock2-8	Dock2-8	Dock2-8
Sample ID:	GW-082205-DOCK2-8-005	GW-082205-DOCK2-8-006	GW-082205-DOCK2-8-007	GW-082205-DOCK2-8-008	GW-082205-DOCK2-8-009	GW-082205-DOCK2-8-010
Sample Date:	8/22/2005	8/22/2005	8/22/2005	8/22/2005	8/22/2005	8/22/2005
Sample Depth:	24 to 27 ft bml	24 to 27 ft bml	29 to 32 ft bml	34 to 37 ft bml	39 to 42 ft bml	44 to 47 ft bml
elev_MLLW	-66.3 to -69.3	-66.3 to -69.3	-71.3 to -74.3	-76.3 to -79.3	-81.3 to -84.3	-86.3 to -89.3
elev_NGVD	-72.6 to -75.6	-72.6 to -75.6	-77.6 to -80.6	-82.6 to -85.6	-87.6 to -90.6	-92.6 to -95.6

(Duplicate)

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14		26.7	26.6	15.1	2.77
Chromium (dissolved)	µg/L	50		654	719	244	16 U
Copper (dissolved)	µg/L	2.4		38.7 U	41.8 U	27.8 U	21.8 U
Lead (dissolved)	µg/L	8.1		0.26 U	0.11 U	0.06 U	0.055 U
Mercury (dissolved)	µg/L	0.025		0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2		111	112	51.4 U	37.7 U
Thallium (dissolved)	µg/L	0.47		0.0184 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81		12.8 U	14.5 U	6.39 U	1.82 U

Metals~Total							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-8	Dock2-8	Dock2-8	Dock2-8	Dock2-8	Dock2-8
Sample ID:	GW-082205-DOCK2-8-011	GW-082205-DOCK2-8-012	GW-082205-DOCK2-8-013	GW-082205-DOCK2-8-014	GW-082205-DOCK2-8-015	GW-082305-DOCK2-8-016
Sample Date:	8/22/2005	8/22/2005	8/22/2005	8/22/2005	8/22/2005	8/23/2005
Sample Depth:	49 to 52 ft bml	54 to 57 ft bml	59 to 62 ft bml	64 to 67 ft bml	69 to 72 ft bml	74 to 77 ft bml
elev_MLLW	-91.3 to -94.3	-96.3 to -99.3	-101.3 to -104.3	-106.3 to -109.3	-111.3 to -114.3	-116.3 to -119.3
elev_NGVD	-97.6 to -100.6	-102.6 to -105.6	-107.6 to -110.6	-112.6 to -115.6	-117.6 to -120.6	-122.6 to -125.6

Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	8.79	1.39 U	0.615 U	1.2 U	0.334 U
Chromium (dissolved)	µg/L	50	4.5 U	7.03 U	3.65 U	5.15 U	7.31 U	5.2 U
Copper (dissolved)	µg/L	2.4	17.9 U	24.9 U	6.16 U	5.82 U	23.1 U	9.5
Lead (dissolved)	µg/L	8.1	0.0167 U	0.055 U	0.05 U	0.045 U	0.04 U	0.06 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	60.1	80.6	14.3 U	16.3 U	40.6 U	22.2 U
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.055 U
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	0.302 U	0.302 U	0.302 U	0.78 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-8	Dock2-8	Dock2-8	Dock2-8	Dock2-9	Dock2-9
Sample ID:	GW-082305-DOCK2-8-017	GW-082305-DOCK2-8-018	GW-082305-DOCK2-8-019	GW-082305-DOCK2-8-020	GW-090805-DOCK2-9-001	GW-090805-DOCK2-9-002
Sample Date:	8/23/2005	8/23/2005	8/23/2005	8/23/2005	9/8/2005	9/8/2005
Sample Depth:	79 to 82 ft bml	84 to 87 ft bml	89 to 92 ft bml	94 to 97 ft bml	4 to 7 ft bml	9 to 12 ft bml
elev_MLLW	-121.3 to -124.3	-126.3 to -129.3	-131.3 to -134.3	-136.3 to -139.3	-40.2 to -43.2	-45.2 to -48.2
elev_NGVD	-127.6 to -130.6	-132.6 to -135.6	-137.6 to -140.6	-142.6 to -145.6	-46.5 to -49.5	-51.5 to -54.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	0.334 U	9.09	11.1
Chromium (dissolved)	µg/L	50	5.09 U	3.52 U	3.05 U	3.1 U	705	851
Copper (dissolved)	µg/L	2.4	9.59	8.06	7.53	7.31	49	26.9
Lead (dissolved)	µg/L	8.1	0.0167 U	0.02 U	0.0167 U	0.0167 U	0.135 U	0.16 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	20 U	20.2 U	23.5 U	22.4 U	92.8 J	141 J
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.11 U	0.065 U
Zinc (dissolved)	µg/L	81	1.36 U	0.785 U	2.22 U	0.605 U	22 U	38.8 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-9	Dock2-9	Dock2-9	Dock2-9	Dock2-9	Dock2-9
Sample ID:	GW-090805-DOCK2-9-003	GW-090805-DOCK2-9-004	GW-090805-DOCK2-9-005	GW-090805-DOCK2-9-006	GW-090805-DOCK2-9-007	GW-090805-DOCK2-9-008
Sample Date:	9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/8/2005
Sample Depth:	14 to 17 ft bml	19 to 22 ft bml	24 to 27 ft bml	29 to 32 ft bml	34 to 37 ft bml	39 to 42 ft bml
elev_MLLW	-50.2 to -53.2	-55.2 to -58.2	-60.2 to -63.2	-65.2 to -68.2	-70.2 to -73.2	-75.2 to -78.2
elev_NGVD	-56.5 to -59.5	-61.5 to -64.5	-66.5 to -69.5	-71.5 to -74.5	-76.5 to -79.5	-81.5 to -84.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.98 U	3.58	0.334 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	151	111	4.32 U	4.09 U	2.77 U	3.03 U
Copper (dissolved)	µg/L	2.4	23.2	21.2	17.1	9.6 U	10.5 U	13.5 U
Lead (dissolved)	µg/L	8.1	0.03 U	0.21 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	61.3 J	46.4 J	25.6 J	27.1 J	23.5 J	29.2 J
Thallium (dissolved)	µg/L	0.47	0.06 U	0.055 U	0.025 U	0.135 U	0.07 U	0.055 U
Zinc (dissolved)	µg/L	81	11.4 U	8.44 U	6.89 U	4.9 U	6.03 U	3.65 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-9	Dock2-9	Dock2-9	Dock2-9	Dock2-10	Dock2-10
Sample ID:	GW-090805-DOCK2-9-009	GW-090805-DOCK2-9-010	GW-090805-DOCK2-9-011	GW-090805-DOCK2-9-012	GW-091205-DOCK2-10-001	GW-091205-DOCK2-10-002
Sample Date:	9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/12/2005	9/12/2005
Sample Depth:	44 to 47 ft bml	49 to 52 ft bml	54 to 57 ft bml	59 to 62 ft bml	2.6 to 5.6 ft bml	2.6 to 5.6 ft bml
elev_MLLW	-80.2 to -83.2	-85.2 to -88.2	-90.2 to -93.2	-95.2 to -98.2	-38 to -41	-38 to -41
elev_NGVD	-86.5 to -89.5	-91.5 to -94.5	-96.5 to -99.5	-101.5 to -104.5	-44.3 to -47.3	-44.3 to -47.3 (Duplicate)

Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.74 J	0.59 J	0.334 U	0.995 U	2.73 U
Chromium (dissolved)	µg/L	50	3.73 U	3.07 U	9.53 U	1.93 U	40.7 U	40.2 U
Copper (dissolved)	µg/L	2.4	4.52 U	10.5 U	13.9 U	17.3	5.4 U	5.15 U
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	33.5 J	42.8 J	51.9 J	37.7 J	20.1 U	19.9 U
Thallium (dissolved)	µg/L	0.47	0.04 U	0.055 U	0.065 U	0.025 U	0.04 U	0.03 U
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	2.21 U	3.33 U	8.15 U	9.46 U

Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-10	Dock2-10	Dock2-10	Dock2-10	Dock2-10
Sample ID:	GW-091205-DOCK2-10-003	GW-091305-DOCK2-10-004	GW-091305-DOCK2-10-005	GW-091305-DOCK2-10-006	GW-091305-DOCK2-10-007
Sample Date:	9/12/2005	9/13/2005	9/13/2005	9/13/2005	9/13/2005
Sample Depth:	7.6 to 10.6 ft bml	12.6 to 15.6 ft bml	17.9 to 20.6 ft bml	22.6 to 25.6 ft bml	27.6 to 30.6 ft bml
elev_MLLW	-43 to -46	-48 to -51	-53.3 to -56	-58 to -61	-63 to -66
elev_NGVD	-49.3 to -52.3	-54.3 to -57.3	-59.6 to -62.3	-64.3 to -67.3	-69.3 to -72.3

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	4.32	2.03 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	102	59.2	1.64 U	1.3 U	1.29 U
Copper (dissolved)	µg/L	2.4	8.39 U	11.4 U	7.21 U	13.3 U	14.5 U
Lead (dissolved)	µg/L	8.1	0.02 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	24.6 U	28.3 J	17.3 U	24.9 U	26.4 J
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.02 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	6.56 U	16.3 U	2.55 U	5.18 U	2.37 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Dock2-10</i>	<i>Dock2-10</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	
<i>Sample ID:</i>		<i>GW-091305-DOCK2-10-008</i>	<i>GW-091305-DOCK2-10-009</i>	<i>GW-101905-DOCK2-11-001</i>	<i>GW-101905-DOCK2-11-002</i>	<i>GW-102005-DOCK2-11-003</i>	
<i>Sample Date:</i>		<i>9/13/2005</i>	<i>9/13/2005</i>	<i>10/19/2005</i>	<i>10/19/2005</i>	<i>10/20/2005</i>	
<i>Sample Depth:</i>		<i>32.6 to 35.6 ft bml</i>	<i>37.6 to 40.6 ft bml</i>	<i>2 to 5 ft bml</i>	<i>7 to 10 ft bml</i>	<i>12 to 15 ft bml</i>	
<i>elev_MLLW</i>		<i>-68 to -71</i>	<i>-73 to -76</i>	<i>-37.5 to -40.5</i>	<i>-42.5 to -45.5</i>	<i>-47.5 to -50.5</i>	
<i>elev_NGVD</i>		<i>-74.3 to -77.3</i>	<i>-79.3 to -82.3</i>	<i>-43.8 to -46.8</i>	<i>-48.8 to -51.8</i>	<i>-53.8 to -56.8</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Metals~Dissolved</i>							
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	161	55.0	30.6
Chromium (dissolved)	µg/L	50	1.25 U	1.99 U	2.0 U	639	470
Copper (dissolved)	µg/L	2.4	10.3 U	13.6 U	16.0 J	62.1	34.3
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	5.5 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.041 U	0.082 U	0.082 U
Nickel (dissolved)	µg/L	8.2	25.5 J	26.4 J	18.4 J	133	107
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	6.3 J	0.67 J	0.50 UJ
Zinc (dissolved)	µg/L	81	2.94 U	0.302 U	115 U	115 U	115 U
<i>Metals~Total</i>							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:		Dock2-11	Dock2-11	Dock2-11	Dock2-11	Dock2-11
Sample ID:		<i>GW-102005-DOCK2-11-004</i>	<i>GW-102005-DOCK2-11-005</i>	<i>GW-102005-DOCK2-11-006</i>	<i>GW-102005-DOCK2-11-007</i>	<i>GW-102005-DOCK2-11-008</i>
Sample Date:		<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>
Sample Depth:		<i>17 to 20 ft bml</i>	<i>17 to 20 ft bml</i>	<i>22 to 25 ft bml</i>	<i>27 to 30 ft bml</i>	<i>32 to 35 ft bml</i>
elev_MLLW		<i>-52.5 to -55.5</i>	<i>-52.5 to -55.5</i>	<i>-57.5 to -60.5</i>	<i>-62.5 to -65.5</i>	<i>-67.5 to -70.5</i>
elev_NGVD		<i>-58.8 to -61.8</i>	<i>-58.8 to -61.8</i>	<i>-63.8 to -66.8</i>	<i>-68.8 to -71.8</i>	<i>-73.8 to -76.8</i>
Parameters		<i>(Duplicate)</i>				
Units	CSI WG					
Metals~Dissolved						
Arsenic (dissolved)	µg/L 0.14	83.5	71.8	39.4	27.1	112
Chromium (dissolved)	µg/L 50	50.6	54.2	1150	792	2.0 U
Copper (dissolved)	µg/L 2.4	15 U	15 U	113	67.3	15 U
Lead (dissolved)	µg/L 8.1	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L 0.025	0.082 U	0.082 U	0.64	0.15 J	0.12 J
Nickel (dissolved)	µg/L 8.2	45.0	45.8	137	113	25.2
Thallium (dissolved)	µg/L 0.47	2.6 J	0.50 UJ	0.50 UJ	-	0.50 UJ
Zinc (dissolved)	µg/L 81	115 U	115 U	132 J	128 J	115 U
Metals~Total						
Arsenic	µg/L 0.14	-	-	-	-	-
Chromium	µg/L 50	-	-	-	-	-
Copper	µg/L 2.4	-	-	-	-	-
Lead	µg/L 8.1	-	-	-	-	-
Mercury	µg/L 0.025	-	-	-	-	-
Nickel	µg/L 8.2	-	-	-	-	-
Thallium	µg/L 0.47	-	-	-	-	-
Zinc	µg/L 81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Dock2-11	Dock2-11	Dock2-11	Dock2-11	Dock2-11
Sample ID:	GW-102005-DOCK2-11-009	GW-102005-DOCK2-11-010	GW-102005-DOCK2-11-011	GW-102005-DOCK2-11-012	GW-102005-DOCK2-11-013
Sample Date:	10/20/2005	10/20/2005	10/20/2005	10/20/2005	10/20/2005
Sample Depth:	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml	57 to 60 ft bml
elev_MLLW	-72.5 to -75.5	-77.5 to -80.5	-82.5 to -85.5	-87.5 to -90.5	-92.5 to -95.5
elev_NGVD	-78.8 to -81.8	-83.8 to -86.8	-88.8 to -91.8	-93.8 to -96.8	-98.8 to -101.8

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Parameter	Units	CSI	WG	Dock2-11-009	Dock2-11-010	Dock2-11-011	Dock2-11-012	Dock2-11-013
Arsenic (dissolved)	µg/L	0.14		107	48.1	51.9	49.8	50.3
Chromium (dissolved)	µg/L	50		32.4	2.0 U	6.4 J	2.0 U	2.0 U
Copper (dissolved)	µg/L	2.4		15 U	15 U	21.1 J	15 U	15 U
Lead (dissolved)	µg/L	8.1		5.5 U	5.5 U	15.4	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025		0.082 U	0.082 U	0.041 U	0.041 U	0.041 U
Nickel (dissolved)	µg/L	8.2		44.8	28.1	53.2	38.6	36.6
Thallium (dissolved)	µg/L	0.47		0.50 UJ	7.5 J	0.50 UJ	0.50 UJ	0.50 UJ
Zinc (dissolved)	µg/L	81		540 J	115 U	8200 J	115 U	115 U

Metals~Total

Parameter	Units	CSI	WG	Dock2-11-009	Dock2-11-010	Dock2-11-011	Dock2-11-012	Dock2-11-013
Arsenic	µg/L	0.14		-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>
<i>Sample ID:</i>	<i>GW-102005-DOCK2-11-014</i>	<i>GW-102005-DOCK2-11-015</i>	<i>GW-102005-DOCK2-11-016</i>	<i>GW-102005-DOCK2-11-017</i>	<i>GW-102005-DOCK2-11-018</i>
<i>Sample Date:</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>
<i>Sample Depth:</i>	<i>62 to 65 ft bml</i>	<i>67 to 70 ft bml</i>	<i>72 to 75 ft bml</i>	<i>77 to 80 ft bml</i>	<i>82 to 85 ft bml</i>
<i>elev_MLLW</i>	<i>-97.5 to -100.5</i>	<i>-102.5 to -105.5</i>	<i>-107.5 to -110.5</i>	<i>-112.5 to -115.5</i>	<i>-117.5 to -120.5</i>
<i>elev_NGVD</i>	<i>-103.8 to -106.8</i>	<i>-108.8 to -111.8</i>	<i>-113.8 to -116.8</i>	<i>-118.8 to -121.8</i>	<i>-123.8 to -126.8</i>

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	38.2	21.3	47.2	84.4	39.9
Chromium (dissolved)	µg/L	50	7.9 J	2.0 U	2.0 U	2.0 U	2.0 U
Copper (dissolved)	µg/L	2.4	15 U	50.1	53.8	61.4	36.1
Lead (dissolved)	µg/L	8.1	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025	0.041 U	0.29 U	0.17 U	0.25 U	0.18 U
Nickel (dissolved)	µg/L	8.2	40.7	13.7 J	19.3 J	17.8 J	10.8 J
Thallium (dissolved)	µg/L	0.47	0.50 UJ	17.5	18.5	18.4	19.7
Zinc (dissolved)	µg/L	81	115 U	115 U	115 U	115 U	115 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Dock2-11	Dock2-11	Dock2-11	Dock2-11	Dock2-12
Sample ID:	<i>GW-102105-DOCK2-11-019</i>	<i>GW-102105-DOCK2-11-020</i>	<i>GW-102105-DOCK2-11-021</i>	<i>GW-102105-DOCK2-11-022</i>	<i>GW-110805-DOCK2-12-001</i>
Sample Date:	<i>10/21/2005</i>	<i>10/21/2005</i>	<i>10/21/2005</i>	<i>10/21/2005</i>	<i>11/8/2005</i>
Sample Depth:	<i>87 to 90 ft bml</i>	<i>92 to 95 ft bml</i>	<i>97 to 100 ft bml</i>	<i>102 to 105 ft bml</i>	<i>2 to 5 ft bml</i>
elev_MLLW	<i>-122.5 to -125.5</i>	<i>-127.5 to -130.5</i>	<i>-132.5 to -135.5</i>	<i>-137.5 to -140.5</i>	<i>-38.6 to -41.6</i>
elev_NGVD	<i>-128.8 to -131.8</i>	<i>-133.8 to -136.8</i>	<i>-138.8 to -141.8</i>	<i>-143.8 to -146.8</i>	<i>-44.9 to -47.9</i>

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	96.1	78.2	53.2	4.5 U	118
Chromium (dissolved)	µg/L	50	2.0 U	5.3 J	5.1 J	6.7 J	15.5 U
Copper (dissolved)	µg/L	2.4	107	129	85.2	46.1	95.3
Lead (dissolved)	µg/L	8.1	5.5 U	5.5 U	3.8 J	5.5 U	2.9 J
Mercury (dissolved)	µg/L	0.025	0.14 U	0.14 U	0.20 U	0.61 U	1.3 U
Nickel (dissolved)	µg/L	8.2	26.4	46.7	20.5	19.7 J	18.8
Thallium (dissolved)	µg/L	0.47	10.8	6.2 J	5.8	6.6 J	0.20 U
Zinc (dissolved)	µg/L	81	115 U	115 U	79.0 J	115 U	77.1 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-12	Dock2-12	Dock2-12	Dock2-12	Dock2-12
Sample ID:	GW-110805-DOCK2-12-002	GW-110805-DOCK2-12-003	GW-110805-DOCK2-12-004	GW-110805-DOCK2-12-005	GW-110805-DOCK2-12-006
Sample Date:	11/8/2005	11/8/2005	11/8/2005	11/8/2005	11/8/2005
Sample Depth:	7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml
elev_MLLW	-43.6 to -46.6	-48.6 to -51.6	-53.6 to -56.6	-58.6 to -61.6	-63.6 to -66.6
elev_NGVD	-49.9 to -52.9	-54.9 to -57.9	-59.9 to -62.9	-64.9 to -67.9	-69.9 to -72.9

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	5.8 J	84.6	124	96.0	90.9
Chromium (dissolved)	µg/L	50	24.3 U	41.4	15.4 U	16.4 U	15.4 U
Copper (dissolved)	µg/L	2.4	12 U	89.1	68.2	72.5	55.3
Lead (dissolved)	µg/L	8.1	4.4 U	2.5 J	2.2 U	2.3 J	2.4 J
Mercury (dissolved)	µg/L	0.025	1.4 U	1.2 U	0.77 U	0.49 U	0.73 U
Nickel (dissolved)	µg/L	8.2	10.3 U	28.4	15.6 U	19.4	17.9
Thallium (dissolved)	µg/L	0.47	3.0 J	0.20 U	0.20 U	0.20 U	0.20 U
Zinc (dissolved)	µg/L	81	92 U	46.0 U	46 U	46 U	46 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Dock2-12	Dock2-12	Dock2-12	Dock2-12	Dock2-12
Sample ID:	GW-110805-DOCK2-12-007	GW-110805-DOCK2-12-008	GW-110805-DOCK2-12-009	GW-110805-DOCK2-12-010	GW-110805-DOCK2-12-011
Sample Date:	11/8/2005	11/8/2005	11/8/2005	11/8/2005	11/8/2005
Sample Depth:	32 to 35 ft bml	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml
elev_MLLW	-68.6 to -71.6	-73.6 to -76.6	-78.6 to -81.6	-83.6 to -86.6	-88.6 to -91.6
elev_NGVD	-74.9 to -77.9	-79.9 to -82.9	-84.9 to -87.9	-89.9 to -92.9	-94.9 to -97.9

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	44.1	89.4	31.3	28.3	26.6
Chromium (dissolved)	µg/L	50	9.3 U	12.7 U	12.0 U	11.1 U	15.3 U
Copper (dissolved)	µg/L	2.4	44.5 J	75.1 J	53.2 J	86.6 J	136 J
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	2.2 J	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	1.1 UJ	0.92 UJ	1.3 UJ	1.5 UJ	3.3 UJ
Nickel (dissolved)	µg/L	8.2	12.5 U	16.3 U	16.7 U	25.5 U	29.2 U
Thallium (dissolved)	µg/L	0.47	1.2 U	0.20 U	0.20 U	0.20 U	0.20 U
Zinc (dissolved)	µg/L	81	46 U	46 U	46 U	46 U	46 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>
<i>Sample ID:</i>			<i>GW-110805-DOCK2-12-012</i>	<i>GW-110805-DOCK2-12-013</i>	<i>GW-110905-DOCK2-12-014</i>	<i>GW-110905-DOCK2-12-015</i>	<i>GW-110905-DOCK2-12-016</i>
<i>Sample Date:</i>			<i>11/8/2005</i>	<i>11/8/2005</i>	<i>11/9/2005</i>	<i>11/9/2005</i>	<i>11/9/2005</i>
<i>Sample Depth:</i>			<i>57 to 60 ft bml</i>	<i>57 to 60 ft bml</i>	<i>62 to 65 ft bml</i>	<i>67 to 70 ft bml</i>	<i>72 to 75 ft bml</i>
<i>elev_MLLW</i>			<i>-93.6 to -96.6</i>	<i>-93.6 to -96.6</i>	<i>-98.6 to -101.6</i>	<i>-103.6 to -106.6</i>	<i>-108.6 to -111.6</i>
<i>elev_NGVD</i>			<i>-99.9 to -102.9</i>	<i>-99.9 to -102.9</i>	<i>-104.9 to -107.9</i>	<i>-109.9 to -112.9</i>	<i>-114.9 to -117.9</i>
			<i>(Duplicate)</i>				
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Metals~Dissolved</i>							
Arsenic (dissolved)	µg/L	0.14	18.8	15.2	34.3	70.6	29.6
Chromium (dissolved)	µg/L	50	19.6 U	19.8 U	12.8 U	10.5 U	12.1 U
Copper (dissolved)	µg/L	2.4	256 J	271 J	81.0 J	86.6 J	60.9 J
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	2.6 UJ	0.90 UJ	6.8 UJ	0.60 UJ	0.27 UJ
Nickel (dissolved)	µg/L	8.2	26.9 U	32.6 U	19.8 U	16.5 U	17.5 U
Thallium (dissolved)	µg/L	0.47	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Zinc (dissolved)	µg/L	81	46 U	46 U	46 U	46 U	46 U
<i>Metals~Total</i>							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Dock2-14</i>	<i>Dock2-14</i>	<i>Dock2-14</i>	<i>Dock2-14</i>	<i>Dock2-14</i>
<i>Sample ID:</i>	<i>GW-102805-DOCK2-14-001</i>	<i>GW-102805-DOCK2-14-002</i>	<i>GW-102805-DOCK2-14-003</i>	<i>GW-102905-DOCK2-14-004</i>	<i>GW-102905-DOCK2-14-005</i>
<i>Sample Date:</i>	<i>10/28/2005</i>	<i>10/28/2005</i>	<i>10/28/2005</i>	<i>10/29/2005</i>	<i>10/29/2005</i>
<i>Sample Depth:</i>	<i>2 to 5 ft bml</i>	<i>12 to 15 ft bml</i>	<i>22 to 25 ft bml</i>	<i>32 to 35 ft bml</i>	<i>42 to 45 ft bml</i>
<i>elev_MLLW</i>	<i>-36.8 to -39.8</i>	<i>-46.8 to -49.8</i>	<i>-56.8 to -59.8</i>	<i>-66.8 to -69.8</i>	<i>-76.8 to -79.8</i>
<i>elev_NGVD</i>	<i>-43.1 to -46.1</i>	<i>-53.1 to -56.1</i>	<i>-63.1 to -66.1</i>	<i>-73.1 to -76.1</i>	<i>-83.1 to -86.1</i>

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	156	55.6 U	71.6	114	180
Chromium (dissolved)	µg/L	50	5.0 U	2.4 U	5.3 U	5.1 U	5.1 U
Copper (dissolved)	µg/L	2.4	107	38.1	82.2	89.0	104
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 J	2.2 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	0.081 U	0.066 U	0.041 U	0.052 U	0.048 U
Nickel (dissolved)	µg/L	8.2	30.7 U	6.9 U	12.9 U	11.9 U	29.2 U
Thallium (dissolved)	µg/L	0.47	3.0 U	4.2 U	2.7 U	2.6 U	2.5 U
Zinc (dissolved)	µg/L	81	46 U	46 U	46 U	46 U	46 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Dock2-14	Dock2-14	Dock2-14	Dock2-14	Dock2-14
Sample ID:	GW-102905-DOCK2-14-006	GW-102905-DOCK2-14-007	GW-103105-DOCK2-14-008	GW-103105-DOCK2-14-009	GW-103105-DOCK2-14-010
Sample Date:	10/29/2005	10/29/2005	10/31/2005	10/31/2005	10/31/2005
Sample Depth:	52 to 55 ft bml	62 to 65 ft bml	72 to 75 ft bml	82 to 85 ft bml	92 to 95 ft bml
elev_MLLW	-86.8 to -89.8	-96.8 to -99.8	-106.8 to -109.8	-116.8 to -119.8	-126.8 to -129.8
elev_NGVD	-93.1 to -96.1	-103.1 to -106.1	-113.1 to -116.1	-123.1 to -126.1	-133.1 to -136.1

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	175	189	77.3	210	108
Chromium (dissolved)	µg/L	50	5.7 U	6.2 U	6.1 U	5.3 U	4.9 U
Copper (dissolved)	µg/L	2.4	106	101	96.1	88.8	68.4
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	2.2 U	2.2 U	2.2 J
Mercury (dissolved)	µg/L	0.025	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U
Nickel (dissolved)	µg/L	8.2	29.7 U	40.1 U	18.4 U	26.9 U	38.6 U
Thallium (dissolved)	µg/L	0.47	2.4 U	2.5 U	2.5 U	2.5 U	3.1 U
Zinc (dissolved)	µg/L	81	46 U	77.2 J	46 U	46 U	46 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-14</i>	<i>Dock2-14</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>		
<i>Sample ID:</i>	GW-103105-DOCK2-14-011	GW-103105-DOCK2-14-012	GW-092205-EA-1-001	GW-092205-EA-1-002	GW-092205-EA-1-003	GW-092205-EA-1-004		
<i>Sample Date:</i>	10/31/2005	10/31/2005	9/22/2005	9/22/2005	9/22/2005	9/22/2005		
<i>Sample Depth:</i>	102 to 105 ft bml	112 to 115 ft bml	19.5 to 22.5 ft bgs	24.5 to 27.5 ft bgs	31.5 to 34.5 ft bgs	36.5 to 39.5 ft bgs		
<i>elev_MLLW</i>	-136.8 to -139.8	-146.8 to -149.8	-1.5 to -4.5	-6.5 to -9.5	-13.5 to -16.5	-18.5 to -21.5		
<i>elev_NGVD</i>	-143.1 to -146.1	-153.1 to -156.1	-7.8 to -10.8	-12.8 to -15.8	-19.8 to -22.8	-24.8 to -27.8		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Metals~Dissolved</i>								
Arsenic (dissolved)	µg/L	0.14	21.6 U	7.9 U	1.4 U	7.21 U	3.71 U	0.334 U
Chromium (dissolved)	µg/L	50	2.6 J	1.5 J	1.93 J	3.76	1.61 U	0.825 U
Copper (dissolved)	µg/L	2.4	18.7	6.5 J	17.2	32.8	37.8	32.8
Lead (dissolved)	µg/L	8.1	2.8 J	2.2 U	0.51 J	0.14 U	0.15 U	0.095 U
Mercury (dissolved)	µg/L	0.025	0.20 U	0.20 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	8.9 U	3.9 U	22.4 J	51.1 J	39.4 J	53.2 J
Thallium (dissolved)	µg/L	0.47	6.9	4.9	0.0184 U	0.105 U	0.055 U	0.03 U
Zinc (dissolved)	µg/L	81	46 U	46 U	5.22	7.87	7.58	6.55
<i>Metals~Total</i>								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	EA-1	EA-1	EA-1	EA-1	EA-1	EA-1	EA-1
Sample ID:	GW-092305-EA-1-005	GW-092305-EA-1-006	GW-092305-EA-1-007	GW-092305-EA-1-008	GW-092605-EA-1-009	GW-092605-EA-1-010	GW-092705-EA-1-011
Sample Date:	9/23/2005	9/23/2005	9/23/2005	9/23/2005	9/26/2005	9/26/2005	9/27/2005
Sample Depth:	41.5 to 44.5 ft bgs	46.5 to 49.5 ft bgs	51.5 to 54.5 ft bgs	56.5 to 59.5 ft bgs	61.5 to 64.5 ft bgs	66.5 to 69.5 ft bgs	71.5 to 74.5 ft bgs
elev_MLLW	-23.5 to -26.5	-28.5 to -31.5	-33.5 to -36.5	-38.5 to -41.5	-43.5 to -46.5	-48.5 to -51.5	-53.5 to -56.5
elev_NGVD	-29.8 to -32.8	-34.8 to -37.8	-39.8 to -42.8	-44.8 to -47.8	-49.8 to -52.8	-54.8 to -57.8	-59.8 to -62.8

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	8.54	10.5	7.35 U	16.5	20.6	3.34 U
Chromium (dissolved)	µg/L	50	0.83 U	12.1	29.2	31.9	28.2	165	203
Copper (dissolved)	µg/L	2.4	40.1	31.9	36.9	11.8	5.2	22.2	14.1 J
Lead (dissolved)	µg/L	8.1	0.095 U	0.105 U	0.12 U	0.115 U	0.13 U	0.07 U	0.167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.05 J	0.044 U	0.044 U	0.44 U
Nickel (dissolved)	µg/L	8.2	58.9 J	51.7 J	66.5 J	57.9 J	16.1	50.6	118
Thallium (dissolved)	µg/L	0.47	0.035 U	0.025 U	0.03 U	0.0184 U	0.02 U	0.02 U	0.2 U
Zinc (dissolved)	µg/L	81	6.53	10.1	13.1	9.09	8.25	5.02	5.65 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>
<i>Sample ID:</i>	<i>GW-092705-EA-1-012</i>	<i>GW-092705-EA-1-013</i>	<i>GW-092705-EA-1-014</i>	<i>GW-092805-EA-1-015</i>	<i>GW-092805-EA-1-016</i>	<i>GW-092805-EA-1-017</i>	<i>GW-092805-EA-1-018</i>
<i>Sample Date:</i>	<i>9/27/2005</i>	<i>9/27/2005</i>	<i>9/27/2005</i>	<i>9/28/2005</i>	<i>9/28/2005</i>	<i>9/28/2005</i>	<i>9/28/2005</i>
<i>Sample Depth:</i>	<i>76.5 to 79.5 ft bgs</i>	<i>81.5 to 84.5 ft bgs</i>	<i>86.5 to 89.5 ft bgs</i>	<i>91.5 to 94.5 ft bgs</i>	<i>96.5 to 99.5 ft bgs</i>	<i>101.5 to 104.5 ft bgs</i>	<i>106.5 to 109.5 ft bgs</i>
<i>elev_MLLW</i>	<i>-58.5 to -61.5</i>	<i>-63.5 to -66.5</i>	<i>-68.5 to -71.5</i>	<i>-73.5 to -76.5</i>	<i>-78.5 to -81.5</i>	<i>-83.5 to -86.5</i>	<i>-88.5 to -91.5</i>
<i>elev_NGVD</i>	<i>-64.8 to -67.8</i>	<i>-69.8 to -72.8</i>	<i>-74.8 to -77.8</i>	<i>-79.8 to -82.8</i>	<i>-84.8 to -87.8</i>	<i>-89.8 to -92.8</i>	<i>-94.8 to -97.8</i>

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	3.34 U	27.7	3.34 U	12.7 J	53.6	190	230
Chromium (dissolved)	µg/L	50	256	763	114	307	212	39.7 U	73.2
Copper (dissolved)	µg/L	2.4	24.6 J	39.6	7.4 J	43	90.1	83.1	154
Lead (dissolved)	µg/L	8.1	0.167 U	0.167 U	0.167 U	0.167 U	0.167 U	0.167 U	0.167 U
Mercury (dissolved)	µg/L	0.025	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Nickel (dissolved)	µg/L	8.2	126	186	108	216	183	80.6	125
Thallium (dissolved)	µg/L	0.47	0.184 U	0.2 U	0.184 U	1.6 U	0.3 U	0.184 U	0.184 U
Zinc (dissolved)	µg/L	81	4.3 U	26.2 U	9 U	9.15 U	71.6	145	155

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>
<i>Sample ID:</i>	<i>GW-100305-EA-1-019</i>	<i>GW-100305-EA-1-020</i>	<i>GW-100405-EA-1-021</i>	<i>GW-100405-EA-1-022</i>	<i>GW-100405-EA-1-023</i>	<i>GW-100505-EA-1-024</i>	<i>GW-100505-EA-1-025</i>
<i>Sample Date:</i>	<i>10/3/2005</i>	<i>10/3/2005</i>	<i>10/4/2005</i>	<i>10/4/2005</i>	<i>10/4/2005</i>	<i>10/5/2005</i>	<i>10/5/2005</i>
<i>Sample Depth:</i>	<i>111.5 to 114.5 ft bgs</i>	<i>116.5 to 119.5 ft bgs</i>	<i>121.5 to 124.5 ft bgs</i>	<i>126.5 to 129.5 ft bgs</i>	<i>126.5 to 129.5 ft bgs</i>	<i>131.5 to 134.5 ft bgs</i>	<i>136.5 to 139.5 ft bgs</i>
<i>elev_MLLW</i>	<i>-93.5 to -96.5</i>	<i>-98.5 to -101.5</i>	<i>-103.5 to -106.5</i>	<i>-108.5 to -111.5</i>	<i>-108.5 to -111.5</i>	<i>-113.5 to -116.5</i>	<i>-118.5 to -121.5</i>
<i>elev_NGVD</i>	<i>-99.8 to -102.8</i>	<i>-104.8 to -107.8</i>	<i>-109.8 to -112.8</i>	<i>-114.8 to -117.8</i>	<i>-114.8 to -117.8</i>	<i>-119.8 to -122.8</i>	<i>-124.8 to -127.8</i>

(Duplicate)

Parameters *Units* *CSI* *WG*

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	631	334	36	31.1	28.3	106	10.7 U
Chromium (dissolved)	µg/L	50	181	125	420	131	99.2	530	167
Copper (dissolved)	µg/L	2.4	1000	621	106	94.8	51.4	153	14.2
Lead (dissolved)	µg/L	8.1	1.9 J	0.6 U	1.2 U	0.65 U	0.45 U	0.167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	4.29	0.48 J	0.44 U	0.44 U	0.44 U	0.44 U	0.044 U
Nickel (dissolved)	µg/L	8.2	565	405	316	211	158	463 J	62.6 J
Thallium (dissolved)	µg/L	0.47	0.35 U	0.3 U	0.184 U	0.4 U	0.25 U	0.184 U	0.0184 U
Zinc (dissolved)	µg/L	81	398	212	66.5	97.8	68.7	359	2.75 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	EA-1	EA-1	EA-1	EA-2	EA-2	EA-2	EA-2		
Sample ID:	GW-100605-EA-1-026	GW-100605-EA-1-027	GW-100705-EA-1-028	GW-101005-EA-2-001	GW-101005-EA-2-002	GW-101005-EA-2-003	GW-101105-EA-2-004		
Sample Date:	10/6/2005	10/6/2005	10/7/2005	10/10/2005	10/10/2005	10/10/2005	10/11/2005		
Sample Depth:	141.5 to 144.5 ft bgs	146.5 to 149.5 ft bgs	151.5 to 154.5 ft bgs	15 to 18 ft bgs	20 to 23 ft bgs	25 to 28 ft bgs	30 to 33 ft bgs		
elev_MLLW	-123.5 to -126.5	-128.5 to -131.5	-133.5 to -136.5	3 to 0	-2 to -5	-7 to -10	-12 to -15		
elev_NGVD	-129.8 to -132.8	-134.8 to -137.8	-139.8 to -142.8	-3.3 to -6.3	-8.3 to -11.3	-13.3 to -16.3	-18.3 to -21.3		
Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	0.334 U	7.74	0.334 U	
Chromium (dissolved)	µg/L	50	3.67 U	5.7 U	3.91 U	21.9	4.86 U	21.3	0.2 U
Copper (dissolved)	µg/L	2.4	1.52 U	0.36 U	2.04 J	6.55	6.75	38	3.39
Lead (dissolved)	µg/L	8.1	0.04 U	0.12 U	0.0167 U	0.0167 U	0.0167 U	0.165 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.046 U	0.044 U	0.044 U	0.047 J	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	20.9 UJ	1.78 UJ	10.9 J	23.6 J	16.1 J	26.4 J	13.8
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.085 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.025 U
Zinc (dissolved)	µg/L	81	0.302 U	9.77	0.302 U	0.302 U	0.302 U	1.81 J	0.435 U
Metals~Total									
Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	EA-2	EA-2	EA-2	EA-2	EA-2	EA-2	EA-2
Sample ID:	GW-101105-EA-2-005	GW-101105-EA-2-006	GW-101105-EA-2-007	GW-101105-EA-2-008	GW-101205-EA-2-009	GW-101205-EA-2-010	GW-101205-EA-2-011
Sample Date:	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/12/2005	10/12/2005	10/12/2005
Sample Depth:	35 to 38 ft bgs	40 to 43 ft bgs	45 to 48 ft bgs	50 to 53 ft bgs	55 to 58 ft bgs	60 to 63 ft bgs	65 to 68 ft bgs
elev_MLLW	-17 to -20	-22 to -25	-27 to -30	-32 to -35	-37 to -40	-42 to -45	-47 to -50
elev_NGVD	-23.3 to -26.3	-28.3 to -31.3	-33.3 to -36.3	-38.3 to -41.3	-43.3 to -46.3	-48.3 to -51.3	-53.3 to -56.3

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.94 J	5.32	3.34 U	3.34 U	3.34 U
Chromium (dissolved)	µg/L	50	0.39 U	18.7	26.5	29.3	295	276	369
Copper (dissolved)	µg/L	2.4	2.72	10.1	4.86	16.6	43	37.2	23.2 J
Lead (dissolved)	µg/L	8.1	0.025 U	0.04 U	0.06 U	0.055 U	0.4 U	0.167 U	0.167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.14 J	0.44 U	0.44 U	0.44 U
Nickel (dissolved)	µg/L	8.2	15.2	10.5	12.5	16.1	113	106	96.2
Thallium (dissolved)	µg/L	0.47	0.02 U	0.0184 U	0.0184 U	0.0184 U	0.184 U	0.184 U	0.184 U
Zinc (dissolved)	µg/L	81	0.302 U	8.05 U	2.72 U	17.6	43.8	56.7	19.2 J

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	EA-2	EA-2	EA-2	EA-2	EA-2	EA-2	EA-2
Sample ID:	GW-101205-EA-2-012	GW-101305-EA-2-013	GW-101305-EA-2-014	GW-101305-EA-2-015	GW-101405-EA-2-016	GW-101405-EA-2-017	GW-101705-EA-2-018
Sample Date:	10/12/2005	10/13/2005	10/13/2005	10/13/2005	10/14/2005	10/14/2005	10/17/2005
Sample Depth:	70 to 73 ft bgs	75 to 78 ft bgs	80 to 83 ft bgs	85 to 88 ft bgs	90 to 93 ft bgs	95 to 98 ft bgs	100 to 103 ft bgs
elev_MLLW	-52 to -55	-57 to -60	-62 to -65	-67 to -70	-72 to -75	-77 to -80	-82 to -85
elev_NGVD	-58.3 to -61.3	-63.3 to -66.3	-68.3 to -71.3	-73.3 to -76.3	-78.3 to -81.3	-83.3 to -86.3	-88.3 to -91.3

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	3.34 U	3.34 U	3.34 U	1.44 J	44.2	87	383
Chromium (dissolved)	µg/L	50	308	2410	258	23.7	171	10 J	131
Copper (dissolved)	µg/L	2.4	20.5 J	88.5	57.7	4.92 U	33.4	33.9	315
Lead (dissolved)	µg/L	8.1	0.2 U	0.5 U	0.85 U	0.0167 U	0.167 U	0.167 U	0.167 U
Mercury (dissolved)	µg/L	0.025	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Nickel (dissolved)	µg/L	8.2	81.8	359	156	17	137	49.2	304
Thallium (dissolved)	µg/L	0.47	0.184 U	0.184 U	0.184 U	0.0184 U	0.184 U	0.184 U	0.184 U
Zinc (dissolved)	µg/L	81	27	60.8	172	17.9 U	228	298	861

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>
<i>Sample ID:</i>	<i>GW-101705-EA-2-020</i>	<i>GW-101805-EA-2-021</i>	<i>GW-101805-EA-2-022</i>	<i>GW-101805-EA-2-023</i>	<i>GW-101905-EA-2-024</i>	<i>GW-101905-EA-2-025</i>	<i>GW-102005-EA-2-026</i>
<i>Sample Date:</i>	<i>10/17/2005</i>	<i>10/18/2005</i>	<i>10/18/2005</i>	<i>10/18/2005</i>	<i>10/19/2005</i>	<i>10/19/2005</i>	<i>10/20/2005</i>
<i>Sample Depth:</i>	<i>110 to 113 ft bgs</i>	<i>115 to 118 ft bgs</i>	<i>115 to 118 ft bgs</i>	<i>120 to 123 ft bgs</i>	<i>125 to 128 ft bgs</i>	<i>130 to 133 ft bgs</i>	<i>135 to 138 ft bgs</i>
<i>elev_MLLW</i>	<i>-92 to -95</i>	<i>-97 to -100</i>	<i>-97 to -100</i>	<i>-102 to -105</i>	<i>-107 to -110</i>	<i>-112 to -115</i>	<i>-117 to -120</i>
<i>elev_NGVD</i>	<i>-98.3 to -101.3</i>	<i>-103.3 to -106.3</i>	<i>-103.3 to -106.3</i>	<i>-108.3 to -111.3</i>	<i>-113.3 to -116.3</i>	<i>-118.3 to -121.3</i>	<i>-123.3 to -126.3</i>

(Duplicate)

Parameters *Units* *CSI* *WG*

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	142	11 U	15.3 U	30.1 U	37.7 U	71.9	2.62 U
Chromium (dissolved)	µg/L	50	51.4	126	127	93.6	153	1180	64.5
Copper (dissolved)	µg/L	2.4	151	119	113	121	100	99.7	6.03
Lead (dissolved)	µg/L	8.1	0.167 U	0.167 U	0.167 U	0.167 U	0.167 U	0.167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.44 U	0.44 U	0.44 U	2.97	0.44 U	0.44 U	0.044 U
Nickel (dissolved)	µg/L	8.2	171	209	211	214	230	366	24.9
Thallium (dissolved)	µg/L	0.47	0.184 U	0.184 U	0.184 U	0.184 U	0.184 U	0.184 U	0.075 U
Zinc (dissolved)	µg/L	81	534	532	530	708	594	348	0.302 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	EA-2	EA-2	EA-2	EA-3	EA-3	EA-3	EA-3		
Sample ID:	GW-102005-EA-2-027	GW-102005-EA-2-028	GW-102105-EA-2-029	GW-102405-EA-3-001	GW-102505-EA-3-002	GW-102505-EA-3-003	GW-102505-EA-3-004		
Sample Date:	10/20/2005	10/20/2005	10/21/2005	10/24/2005	10/25/2005	10/25/2005	10/25/2005		
Sample Depth:	140 to 143 ft bgs	145 to 148 ft bgs	150 to 153 ft bgs	12 to 15 ft bgs	20 to 23 ft bgs	25 to 28 ft bgs	30 to 33 ft bgs		
elev_MLLW	-122 to -125	-127 to -130	-132 to -135	6 to 3	-2 to -5	-7 to -10	-12 to -15		
elev_NGVD	-128.3 to -131.3	-133.3 to -136.3	-138.3 to -141.3	-0.3 to -3.3	-8.3 to -11.3	-13.3 to -16.3	-18.3 to -21.3		
Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14	1.87 U	0.334 U	0.334 U	76.2	51.0	49.5	23.4
Chromium (dissolved)	µg/L	50	1.48 J	0.2 U	0.2 U	2.2 J	2.3 J	2.0 U	2.0 U
Copper (dissolved)	µg/L	2.4	1.37 J	1.88 J	2.08 J	113	83.4	99.0	134
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	5.5 U	5.5 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.14 U	0.12 U	0.066 U	0.074 U
Nickel (dissolved)	µg/L	8.2	7.24	7.25	7.18	21.0 J	8.0 U	10.0 J	14.0 J
Thallium (dissolved)	µg/L	0.47	0.04 U	0.02 U	0.0184 U	1.8 J	12.2	11.5	1.1 J
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	0.302 U	115 U	115 U	115 U	115 U
Metals~Total									
Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	EA-3		
Sample ID:	GW-102505-EA-3-005	GW-102505-EA-3-006	GW-102605-EA-3-007	GW-102605-EA-3-008	GW-102605-EA-3-009	GW-102605-EA-3-010	GW-102705-EA-3-011		
Sample Date:	10/25/2005	10/25/2005	10/26/2005	10/26/2005	10/26/2005	10/26/2005	10/27/2005		
Sample Depth:	35 to 38 ft bgs	40 to 43 ft bgs	45 to 48 ft bgs	50 to 53 ft bgs	55 to 58 ft bgs	60 to 63 ft bgs	65 to 68 ft bgs		
elev_MLLW	-17 to -20	-22 to -25	-27 to -30	-32 to -35	-37 to -40	-42 to -45	-47 to -50		
elev_NGVD	-23.3 to -26.3	-28.3 to -31.3	-33.3 to -36.3	-38.3 to -41.3	-43.3 to -46.3	-48.3 to -51.3	-53.3 to -56.3		
Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14	13.5	4.5 U	148 U	79.8 U	61.6 U	55.7 U	48.3 U
Chromium (dissolved)	µg/L	50	26.2	2.0 U	36.0 U	30.0 U	55.5 J	34.0 U	21.4 U
Copper (dissolved)	µg/L	2.4	136	15 U	74.4 J	61.5 J	60 U	101	60 U
Lead (dissolved)	µg/L	8.1	5.5 U	5.5 U	22 U	22 U	22 U	22 U	22 U
Mercury (dissolved)	µg/L	0.025	0.045 U	0.20 U	0.25 U	0.20 U	1.3 U	0.20 U	0.20 U
Nickel (dissolved)	µg/L	8.2	22.6 J	8.0 U	83.7 J	33.9 J	36.8 J	59.6 J	50.0 J
Thallium (dissolved)	µg/L	0.47	0.68 J	0.50 U	51.8 U	27.9 U	20.2 U	24.8 U	25.5 U
Zinc (dissolved)	µg/L	81	115 U	135 J	460 U	460 U	460 U	460 U	460 U
Metals~Total									
Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	
Sample ID:		GW-102705-EA-3-012	GW-102705-EA-3-013	GW-102705-EA-3-014	GW-102705-EA-3-015	GW-102805-EA-3-016	GW-102805-EA-3-017	GW-102805-EA-3-018	
Sample Date:		10/27/2005	10/27/2005	10/27/2005	10/27/2005	10/28/2005	10/28/2005	10/28/2005	
Sample Depth:		70 to 73 ft bgs	75 to 78 ft bgs	80 to 83 ft bgs	85 to 88 ft bgs	90 to 93 ft bgs	95 to 98 ft bgs	95 to 98 ft bgs	
elev_MLLW		-52 to -55	-57 to -60	-62 to -65	-67 to -70	-72 to -75	-77 to -80	-77 to -80	
elev_NGVD		-58.3 to -61.3	-63.3 to -66.3	-68.3 to -71.3	-73.3 to -76.3	-78.3 to -81.3	-83.3 to -86.3	-83.3 to -86.3	
								(Duplicate)	
Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14	29.6 U	38.8 U	43.8 U	18 U	28.4 U	36 U	36 U
Chromium (dissolved)	µg/L	50	20.6 U	4.9 U	8.0 U	8.0 U	8.0 U	16 U	16 U
Copper (dissolved)	µg/L	2.4	60 U	48.7	80.5 J	103	64.3 J	120 U	120 U
Lead (dissolved)	µg/L	8.1	22 U	4.0	22 U	22 U	22 U	44 U	44 U
Mercury (dissolved)	µg/L	0.025	0.20 U	0.62 U	0.72 U	0.85 U	2.1 U	2.5 U	3.4 U
Nickel (dissolved)	µg/L	8.2	66.0 J	62.6	46.1 J	42.1 J	32 U	64 U	142 J
Thallium (dissolved)	µg/L	0.47	28.2 U	4.2	22.0 U	21.1 U	25.3 U	39.9 U	29.8 U
Zinc (dissolved)	µg/L	81	460 U	882	707 J	1310 J	460 U	920 U	2660 J
Metals~Total									
Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	
Sample ID:	GW-103105-EA-3-019	GW-103105-EA-3-020	GW-110105-DC-EA-3-021	GW-110105-DC-EA-3-022	GW-110205-EA-3-023	GW-110205-EA-3-024	GW-110305-EA-3-025		
Sample Date:	10/31/2005	10/31/2005	11/1/2005	11/1/2005	11/2/2005	11/2/2005	11/3/2005		
Sample Depth:	100 to 103 ft bgs	105 to 108 ft bgs	110 to 113 ft bgs	115 to 118 ft bgs	120 to 123 ft bgs	125 to 128 ft bgs	130 to 133 ft bgs		
elev_MLLW	-82 to -85	-87 to -90	-92 to -95	-97 to -100	-102 to -105	-107 to -110	-112 to -115		
elev_NGVD	-88.3 to -91.3	-93.3 to -96.3	-98.3 to -101.3	-103.3 to -106.3	-108.3 to -111.3	-113.3 to -116.3	-118.3 to -121.3		
Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14	129 U	202 U	22.0 U	24.4 U	23.3 U	1.8 U	18 U
Chromium (dissolved)	µg/L	50	16 U	10.1 J	17.2 J	10.9 J	24.9 J	5.9 J	50.4 U
Copper (dissolved)	µg/L	2.4	120 U	571	60 U	66.1 J	60 U	6.0 U	170
Lead (dissolved)	µg/L	8.1	44 U	22 U	22 U	22 U	22 U	2.2 U	22 U
Mercury (dissolved)	µg/L	0.025	0.41 U	0.53 J	0.41 U	0.41 U	0.066 J	0.048 J	0.041 U
Nickel (dissolved)	µg/L	8.2	64 U	165	88.3 U	319 U	125 U	3.2 U	35.9 U
Thallium (dissolved)	µg/L	0.47	40.6 U	2.0 U	32.3 U	35.6 U	37.1 J	2.6 U	2.0 U
Zinc (dissolved)	µg/L	81	920 U	460 U	460 U	460 U	460 U	46 U	530 J
Metals~Total									
Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	EA-3	EA-3	EA-3	EA-3	EA-3	EXT-9-Deep
Sample ID:	GW-110305-EA-3-026	GW-110305-EA-3-027	GW-110405-EA-3-028	GW-110405-EA-3-029	GW-110705-EA-3-030	GW-092713-MD-MW-ext-9-Deep
Sample Date:	11/3/2005	11/3/2005	11/4/2005	11/4/2005	11/7/2005	9/27/2013
Sample Depth:	135 to 138 ft bgs	140 to 143 ft bgs	145 to 148 ft bgs	150 to 153 ft bgs	155 to 158 ft bgs	
elev_MLLW	-117 to -120	-122 to -125	-127 to -130	-132 to -135	-137 to -140	
elev_NGVD	-123.3 to -126.3	-128.3 to -131.3	-133.3 to -136.3	-138.3 to -141.3	-143.3 to -146.3	

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	18 U	59.3	39.0	47.7	34.3	-
Chromium (dissolved)	µg/L	50	42.2 U	5.7 U	2.5 U	4.6 U	10.1 U	-
Copper (dissolved)	µg/L	2.4	95.6 J	28.9	30.7	31.5	26.2	-
Lead (dissolved)	µg/L	8.1	143	2.2 U	2.2 U	2.2 U	2.8 J	-
Mercury (dissolved)	µg/L	0.025	0.041 U	0.041 U	0.041 U	0.041 U	0.19 U	-
Nickel (dissolved)	µg/L	8.2	32 U	6.9 U	7.7 U	9.2 U	7.6 U	-
Thallium (dissolved)	µg/L	0.47	9.7 J	0.20 U	0.20 U	0.20 U	2.8 J	-
Zinc (dissolved)	µg/L	81	664 J	46 U	46 U	46 U	46 U	-

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	6.72
Chromium	µg/L	50	-	-	-	-	-	8.11 J
Copper	µg/L	2.4	-	-	-	-	-	4.36
Lead	µg/L	8.1	-	-	-	-	-	0.536
Mercury	µg/L	0.025	-	-	-	-	-	0.20 U
Nickel	µg/L	8.2	-	-	-	-	-	8.04
Thallium	µg/L	0.47	-	-	-	-	-	0.400 U
Zinc	µg/L	81	-	-	-	-	-	17.5

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	EXT-9-Int	EXT-9-Shallow	F-Deep	F-Int	Former Production Well		
Sample ID:	GW-092713-MD-MW-ext-9-Intermediate	GW-092713-MD-MW-ext-9-Shallow	GW-092613-NH-MW-F-D	GW-092613-NH-MW-F-I	GW-033010-TG-FPW		
Sample Date:	9/27/2013	9/27/2013	9/26/2013	9/26/2013	3/30/2010		
Sample Depth:							
elev_MLLW							
elev_NGVD							
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	-	75.5	
Chromium (dissolved)	µg/L	50	-	-	-	0.28 UJ	
Copper (dissolved)	µg/L	2.4	-	-	-	0.50 U	
Lead (dissolved)	µg/L	8.1	-	-	-	1.8 J	
Mercury (dissolved)	µg/L	0.025	-	-	-	0.079 J	
Nickel (dissolved)	µg/L	8.2	-	-	-	0.94 J	
Thallium (dissolved)	µg/L	0.47	-	-	-	0.50 U	
Zinc (dissolved)	µg/L	81	-	-	-	5.6 J	
Metals~Total							
Arsenic	µg/L	0.14	463	15.2	6.90	7.76	-
Chromium	µg/L	50	723 J	314 J	16.5 J	12.8 J	-
Copper	µg/L	2.4	21.0	16.5	6.82	57.3	-
Lead	µg/L	8.1	1.090	1.880	1.390	0.555	-
Mercury	µg/L	0.025	2.60	0.20 U	0.03 J	0.20 U	-
Nickel	µg/L	8.2	450	121	12.5	6.75	-
Thallium	µg/L	0.47	1.000 U	1.000 U	0.200 U	0.400 U	-
Zinc	µg/L	81	108	165	10.6	23.1	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Former Production Well	F-Shallow-New	G	G-Int	G-Int	G-Shallow		
Sample ID:	GW-033010-TG-FD-001	GW-101113-MD-F-Shallow	GW-092513-NH-MW-G-D	GW-092613-NH-MW-G-I	GW-092613-NH-FD1	GW-092513-NH-MW-G-S		
Sample Date:	3/30/2010	10/11/2013	9/25/2013	9/26/2013	9/26/2013	9/25/2013		
Sample Depth:								
elev_MLLW								
elev_NGVD								
Parameters	Units	CSI WG	(Duplicate)		(Duplicate)			
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	70.0	-	-	-		
Chromium (dissolved)	µg/L	50	0.28 UJ	-	-	-		
Copper (dissolved)	µg/L	2.4	0.50 U	-	-	-		
Lead (dissolved)	µg/L	8.1	0.99 UJ	-	-	-		
Mercury (dissolved)	µg/L	0.025	0.078 J	-	-	-		
Nickel (dissolved)	µg/L	8.2	0.63 J	-	-	-		
Thallium (dissolved)	µg/L	0.47	0.50 U	-	-	-		
Zinc (dissolved)	µg/L	81	4.6 J	-	-	-		
Metals~Total								
Arsenic	µg/L	0.14	-	1.99	7.56	1.18	1.48	10.8
Chromium	µg/L	50	-	1.83 J	6.49 J	3.44 J	4.36 J	298 J
Copper	µg/L	2.4	-	5.37	3.40	1.33	1.81	69.6
Lead	µg/L	8.1	-	0.467	0.402	0.780	0.937	7.690
Mercury	µg/L	0.025	-	0.03 J	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	µg/L	8.2	-	3.15	6.14	1.71 J	2.54	144
Thallium	µg/L	0.47	-	0.200 U	0.200 U	0.200 U	0.200 U	0.400 U
Zinc	µg/L	81	-	90.7	5.40	55.3	51.9	216

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	H-01	HC08-EP18	HC-N11-5	HC-N11-6	HC-N11-8	HC-N12342526-6	HC-N12342526-7		
Sample ID:	GW-092713-NH-H-01	HC08-EP18	WG-081612-TS-HC-N11-5-505	WG-081612-TS-HC-N11-6-506	WG-081612-TS-HC-N11-8-507	HC-N12342526-6	HC-N12342526-7		
Sample Date:	9/27/2013	10/24/2008	8/16/2012	8/16/2012	8/16/2012	11/10/2011	11/10/2011		
Sample Depth:		12 ft BGS							
elev_MLLW									
elev_NGVD									
Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-	3.0 U	6.0
Chromium (dissolved)	µg/L	50	-	-	-	-	-	10 U	10 U
Copper (dissolved)	µg/L	2.4	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-	1.0 U	1.0 U
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-	0.50 U	0.50 U
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-	-	-
Metals~Total									
Arsenic	µg/L	0.14	1.00 U	50 U	5.71	3.52	1.70	3.3 U	7.5
Chromium	µg/L	50	2.00 UJ	22	0.41 J	2.00 U	2.00 U	11 U	11 U
Copper	µg/L	2.4	1.00 U	25	1.00 U	1.00 U	1.00 U	-	-
Lead	µg/L	8.1	3.860	20 U	0.542	0.620	0.567	1.1 U	1.1 U
Mercury	µg/L	0.025	0.20 U	0.1 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U
Nickel	µg/L	8.2	2.00 U	10 U	2.00 U	2.00 U	2.00 U	-	-
Thallium	µg/L	0.47	0.200 U	-	0.516	0.517	0.520	-	-
Zinc	µg/L	81	5.00 U	40	5.00 U	5.00 U	5.00 U	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HC-N12342526-8	HW-1	HW-1	HW-2	HW-2	HW-3		
Sample ID:	HC-N12342526-8	GW-012407-BS-HW-1-001	GW-012407-BS-HW-1-003	GW-012507-BS-HW-2-001	GW-012507-BS-HW-2-002	GW-012207-BS-HW-3-001		
Sample Date:	11/10/2011	1/24/2007	1/24/2007	1/25/2007	1/25/2007	1/22/2007		
Sample Depth:		0.5 to 2.5 ft bml	20 to 22 ft bml	2.5 to 4.5 ft bml	20 to 22 ft bml	9 to 11 ft bml		
elev_MLLW		-42.8 to -44.8	-62.3 to -64.3	-44.4 to -46.4	-61.9 to -63.9	-45.8 to -47.8		
elev_NGVD		-49.1 to -51.1	-68.6 to -70.6	-50.7 to -52.7	-68.2 to -70.2	-52.1 to -54.1		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	3.0 U	182 J	R	388	231	534
Chromium (dissolved)	µg/L	50	10 U	262	134 U	4.2	6.5	3.5
Copper (dissolved)	µg/L	2.4	-	113 J	150 U	82.9	154	37.9
Lead (dissolved)	µg/L	8.1	1.0 U	1.1 U	55 U	0.11 U	0.11 U	0.11 J
Mercury (dissolved)	µg/L	0.025	0.50 U	3.4	0.50 U	0.44 U	1.6	0.51 U
Nickel (dissolved)	µg/L	8.2	-	78.2	80 U	35.7	81.3	32.2
Thallium (dissolved)	µg/L	0.47	-	0.10 U	5.0 U	0.01 U	0.01 U	0.081 U
Zinc (dissolved)	µg/L	81	-	51.4 U	1150 U	59.3 U	46.0 U	25.2 U
Metals~Total								
Arsenic	µg/L	0.14	3.3 U	-	-	-	-	-
Chromium	µg/L	50	11 U	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	1.1 U	-	-	-	-	-
Mercury	µg/L	0.025	0.50 U	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HW-3	HW-4	HW-4	HYD-1	HYD-1	HYD-1
Sample ID:	GW-012207-BS-HW-3-002	GW-012307-BS-HW-4-001	GW-012307-BS-HW-4-002	GW-083105-HYD-1-001	GW-083105-HYD-1-002	GW-083105-HYD-1-003
Sample Date:	1/22/2007	1/23/2007	1/23/2007	8/31/2005	8/31/2005	8/31/2005
Sample Depth:	20 to 22 ft bml	9 to 11 ft bml	20 to 22 ft bml	4 to 7 ft bml	14 to 17 ft bml	24 to 27 ft bml
elev_MLLW	-56.8 to -58.8	-45 to -47	-56 to -58	-40.3 to -43.3	-50.3 to -53.3	-60.3 to -63.3
elev_NGVD	-63.1 to -65.1	-51.3 to -53.3	-62.3 to -64.3	-46.6 to -49.6	-56.6 to -59.6	-66.6 to -69.6

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	333	471	202	0.334 U	1.11 J	0.41 J
Chromium (dissolved)	µg/L	50	5.1	4.0	25.7	1.79 U	1.59 U	1.84 U
Copper (dissolved)	µg/L	2.4	39.9	75.7	10.2	14 U	13.6 U	14.2 U
Lead (dissolved)	µg/L	8.1	0.11 U	0.11 U	1.1 U	0.135 U	0.125 U	0.085 U
Mercury (dissolved)	µg/L	0.025	0.43 U	0.80 U	0.97 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	39.5	30.9	17.7 U	20.3 U	20.5 U	21.2 U
Thallium (dissolved)	µg/L	0.47	0.049 U	0.01 U	0.10 U	0.02 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	14.0 U	115	81.9 U	1.14 U	1.96 U	0.302 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-1	HYD-1	HYD-1	HYD-1	HYD-1	HYD-1
Sample ID:	GW-083105-HYD-1-004	GW-090105-HYD-1-005	GW-090105-HYD-1-006	GW-090105-HYD-1-007	GW-090105-HYD-1-008	GW-090105-HYD-1-009
Sample Date:	8/31/2005	9/1/2005	9/1/2005	9/1/2005	9/1/2005	9/1/2005
Sample Depth:	34 to 37 ft bml	44 to 47 ft bml	54 to 57 ft bml	64 to 67 ft bml	74 to 77 ft bml	84 to 87 ft bml
elev_MLLW	-70.3 to -73.3	-80.3 to -83.3	-90.3 to -93.3	-100.3 to -103.3	-110.3 to -113.3	-120.3 to -123.3
elev_NGVD	-76.6 to -79.6	-86.6 to -89.6	-96.6 to -99.6	-106.6 to -109.6	-116.6 to -119.6	-126.6 to -129.6

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	HYD-1 (004)	HYD-1 (005)	HYD-1 (006)	HYD-1 (007)	HYD-1 (008)	HYD-1 (009)
Arsenic (dissolved)	µg/L	0.14		0.415 J	1.49 J	0.855 J	12	32	97.8
Chromium (dissolved)	µg/L	50		2.58 U	1.96 U	2.02 U	98.2	92.2	1120
Copper (dissolved)	µg/L	2.4		12.9 U	10.4 U	12.6 U	20.1 U	20.7 U	71.7 U
Lead (dissolved)	µg/L	8.1		0.84 U	0.115 U	0.23 U	0.225 U	0.225 U	0.66 U
Mercury (dissolved)	µg/L	0.025		0.044 U	0.044 U	0.044 U	0.044 U	0.046 J	0.086 J
Nickel (dissolved)	µg/L	8.2		32.2 U	42.4	38.5	38.5	62.7	363
Thallium (dissolved)	µg/L	0.47		0.02 U	0.02 U	0.0184 U	0.0184 U	0.03 U	0.11 U
Zinc (dissolved)	µg/L	81		5.89 U	1.44 U	14.7 U	1.65 U	2.39 U	26.1 U

Metals~Total

Parameter	Units	CSI	WG	HYD-1 (004)	HYD-1 (005)	HYD-1 (006)	HYD-1 (007)	HYD-1 (008)	HYD-1 (009)
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-1	HYD-1	HYD-1	HYD-1	HYD-2	HYD-2		
Sample ID:	GW-090105-HYD-1-010	GW-090105-HYD-1-011	GW-090105-HYD-1-012	GW-090105-HYD-1-013	GW-082905-HYD-2-001	GW-082905-HYD-2-002		
Sample Date:	9/1/2005	9/1/2005	9/1/2005	9/1/2005	8/29/2005	8/29/2005		
Sample Depth:	94 to 97 ft bml	104 to 107 ft bml	114 to 117 ft bml	124 to 127 ft bml	8 to 11 ft bml	18 to 21 ft bml		
elev_MLLW	-130.3 to -133.3	-140.3 to -143.3	-150.3 to -153.3	-160.3 to -163.3	-45.8 to -48.8	-55.8 to -58.8		
elev_NGVD	-136.6 to -139.6	-146.6 to -149.6	-156.6 to -159.6	-166.6 to -169.6	-52.1 to -55.1	-62.1 to -65.1		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	2.6 U	10.4 U	2.46 U	2.3 U	4.45 U	1.31 U
Chromium (dissolved)	µg/L	50	4.1 U	2.82 U	1.22 U	2.32 U	2.56 U	2.51 U
Copper (dissolved)	µg/L	2.4	7.26 U	3.54 U	11.4 U	6.14 U	23.7 U	23.7 U
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.06 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.05 J	0.044 U
Nickel (dissolved)	µg/L	8.2	17 U	6.78 U	28.4 U	24.1 U	39.3 U	39.4 U
Thallium (dissolved)	µg/L	0.47	0.035 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	13.6 U	2.29 U	2.38 U	5.23 U	1.08 U	0.302 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>
<i>Sample ID:</i>			<i>GW-082905-HYD-2-003</i>	<i>GW-082905-HYD-2-004</i>	<i>GW-083005-HYD-2-005</i>	<i>GW-083005-HYD-2-006</i>	<i>GW-083005-HYD-2-007</i>	<i>GW-083005-HYD-2-008</i>
<i>Sample Date:</i>			<i>8/29/2005</i>	<i>8/29/2005</i>	<i>8/30/2005</i>	<i>8/30/2005</i>	<i>8/30/2005</i>	<i>8/30/2005</i>
<i>Sample Depth:</i>			<i>28 to 31 ft bml</i>	<i>38 to 41 ft bml</i>	<i>48 to 51 ft bml</i>	<i>58 to 61 ft bml</i>	<i>68 to 71 ft bml</i>	<i>78 to 81 ft bml</i>
<i>elev_MLLW</i>			<i>-65.8 to -68.8</i>	<i>-75.8 to -78.8</i>	<i>-85.8 to -88.8</i>	<i>-95.8 to -98.8</i>	<i>-105.8 to -108.8</i>	<i>-115.8 to -118.8</i>
<i>elev_NGVD</i>			<i>-72.1 to -75.1</i>	<i>-82.1 to -85.1</i>	<i>-92.1 to -95.1</i>	<i>-102.1 to -105.1</i>	<i>-112.1 to -115.1</i>	<i>-122.1 to -125.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Metals~Dissolved</i>								
Arsenic (dissolved)	µg/L	0.14	0.334 U	1.77 U	1.64 U	2.61 U	105	81.5
Chromium (dissolved)	µg/L	50	2.74 U	2.32 U	2.07 U	3.43 U	924	130
Copper (dissolved)	µg/L	2.4	23.5 U	18.7 U	23.7 U	21.3 U	97.9 J	235 J
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.0167 U	1.13 U	0.31 U
Mercury (dissolved)	µg/L	0.025	0.049 J	0.044 U	0.044 U	0.044 U	0.044 U	0.064 J
Nickel (dissolved)	µg/L	8.2	46.2 U	56.2	52.6	66	397	128
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.11 U	0.07 U
Zinc (dissolved)	µg/L	81	2.97 U	3.34 U	6.96 U	7.56 U	25.1 J	12.2 J
<i>Metals~Total</i>								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-2	HYD-2	HYD-2	HYD-3	HYD-3	HYD-3			
Sample ID:	GW-083005-HYD-2-009	GW-083005-HYD-2-010	GW-083105-HYD-2-011	GW-081005-HYD-3-001	GW-081005-HYD-3-002	GW-081105-HYD-3-003			
Sample Date:	8/30/2005	8/30/2005	8/31/2005	8/10/2005	8/10/2005	8/11/2005			
Sample Depth:	88 to 91 ft bml	98 to 101 ft bml	108 to 111 ft bml	11 to 14 ft bml	21 to 24 ft bml	31 to 34 ft bml			
elev_MLLW	-125.8 to -128.8	-135.8 to -138.8	-145.8 to -148.8	-22.79 to -25.79	-32.79 to -35.79	-42.79 to -45.79			
elev_NGVD	-132.1 to -135.1	-142.1 to -145.1	-152.1 to -155.1	-29.1 to -32.1	-39.1 to -42.1	-49.1 to -52.1			
Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14		34.2	4.12 U	7.34	0.334 U	2.24 J	0.334 U
Chromium (dissolved)	µg/L	50		254	2.9	3.18	4.42	2.9	0.2 U
Copper (dissolved)	µg/L	2.4		50.5 J	40.4 J	11.7 J	28.1 J	30.5 J	22.1 J
Lead (dissolved)	µg/L	8.1		0.225 U	0.065 U	0.065 U	0.19 U	0.215 U	0.0167 U
Mercury (dissolved)	µg/L	0.025		0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2		109	43.5	18.2	25.4	27	29.9
Thallium (dissolved)	µg/L	0.47		0.095 U	0.0184 U	0.0184 U	0.025 U	0.045 U	0.0184 U
Zinc (dissolved)	µg/L	81		1.59 J	0.302 U	0.302 U	0.302 U	0.302 U	25.1 J
Metals~Total									
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	HYD-3	HYD-3	HYD-3	HYD-3	HYD-3	HYD-3
Sample ID:	GW-081105-HYD-3-004	GW-081205-HYD-3-005	GW-081205-HYD-3-006	GW-081505-HYD-3-007	GW-081505-HYD-3-008	GW-081505-HYD-3-009
Sample Date:	8/11/2005	8/12/2005	8/12/2005	8/15/2005	8/15/2005	8/15/2005
Sample Depth:	41 to 44 ft bml	51 to 54 ft bml	61 to 64 ft bml	71 to 74 ft bml	81 to 84 ft bml	91 to 94 ft bml
elev_MLLW	-52.79 to -55.79	-62.79 to -65.79	-72.79 to -75.79	-82.79 to -85.79	-92.79 to -95.79	-102.79 to -105.79
elev_NGVD	-59.1 to -62.1	-69.1 to -72.1	-79.1 to -82.1	-89.1 to -92.1	-99.1 to -102.1	-109.1 to -112.1

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	2.2 J	0.685 J	5.22	3.29 J	7.1
Chromium (dissolved)	µg/L	50	0.2 U	0.2 U	0.2 U	7.61	7.31	7.88
Copper (dissolved)	µg/L	2.4	27.2 J	22.2 J	26.2 J	15.7 J	15.3 J	17 J
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.18 U	0.2 U	0.295 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	36	28.8 J	33.5 J	77.9 J	76.1 J	73.5 J
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.07 U	0.09 U	0.125 U
Zinc (dissolved)	µg/L	81	117 J	18 J	0.49 J	37.4 J	38.3 J	22.4 J

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	HYD-3	HYD-3	HYD-3	HYD-3	HYD-4	HYD-4
Sample ID:	GW-081605-HYD-3-010	GW-081705-HYD-3-011	GW-081705-HYD-3-012	GW-081805-HYD-3-013	GW-092205-HYD-4-001	GW-092205-HYD-4-002
Sample Date:	8/16/2005	8/17/2005	8/17/2005	8/18/2005	9/22/2005	9/22/2005
Sample Depth:	101 to 104 ft bml	111 to 114 ft bml	121 to 124 ft bml	131 to 134 ft bml	6 to 9 ft bml	16 to 19 ft bml
elev_MLLW	-112.79 to -115.79	-122.79 to -125.79	-132.79 to -135.79	-142.79 to -145.79	-50.8 to -53.8	-60.8 to -63.8
elev_NGVD	-119.1 to -122.1	-129.1 to -132.1	-139.1 to -142.1	-149.1 to -152.1	-57.1 to -60.1	-67.1 to -70.1

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	50.8	49.1	0.334 U	6.8	3.34 U	63.9
Chromium (dissolved)	µg/L	50	193	757	4.67 U	2.64	302	338
Copper (dissolved)	µg/L	2.4	22.2	47.5	17.8	7.4	51.9 J	53.2 J
Lead (dissolved)	µg/L	8.1	1.3 U	0.54 U	0.0167 U	0.13 U	0.75 U	1.25 U
Mercury (dissolved)	µg/L	0.025	0.44 U	0.44 U	0.044 U	0.044 U	0.44 U	0.44 U
Nickel (dissolved)	µg/L	8.2	103 J	191 J	47.2 J	14.5 J	183 J	136 J
Thallium (dissolved)	µg/L	0.47	0.0734 U	0.0734 U	0.0184 U	0.0184 U	0.65 U	0.184 U
Zinc (dissolved)	µg/L	81	87.8	13.5 U	0.302 U	6.72	3.02 U	3.02 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-4	HYD-4	HYD-4	HYD-4	HYD-4	HYD-4
Sample ID:	GW-092305-HYD-4-003	GW-092305-HYD-4-004	GW-092305-HYD-4-005	GW-092305-HYD-4-006	GW-092305-HYD-4-007	GW-092405-HYD-4-008
Sample Date:	9/23/2005	9/23/2005	9/23/2005	9/23/2005	9/23/2005	9/24/2005
Sample Depth:	26 to 29 ft bml	36 to 39 ft bml	46 to 49 ft bml	46 to 49 ft bml	56 to 59 ft bml	66 to 69 ft bml
elev_MLLW	-70.8 to -73.8	-80.8 to -83.8	-90.8 to -93.8	-90.8 to -93.8	-100.8 to -103.8	-110.8 to -113.8
elev_NGVD	-77.1 to -80.1	-87.1 to -90.1	-97.1 to -100.1	-97.1 to -100.1	-107.1 to -110.1	-117.1 to -120.1

(Duplicate)

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	HYD-4-003	HYD-4-004	HYD-4-005	HYD-4-006	HYD-4-007	HYD-4-008
Arsenic (dissolved)	µg/L	0.14		59.2	85.6	88.8 U	47.7 U	74.4 U	37.6 U
Chromium (dissolved)	µg/L	50		183	231	326 J	181 J	188	370
Copper (dissolved)	µg/L	2.4		178 J	166 J	388 J	175 J	200	53.8
Lead (dissolved)	µg/L	8.1		1.8 U	0.95 U	0.4 U	0.4 U	0.45 U	0.7 U
Mercury (dissolved)	µg/L	0.025		0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Nickel (dissolved)	µg/L	8.2		158 J	188 J	374 J	218 J	233	80
Thallium (dissolved)	µg/L	0.47		0.45 U	0.35 U	0.184 U	0.184 U	0.184 U	0.184 U
Zinc (dissolved)	µg/L	81		3.4 U	15.9 U	48.6 U	11.9 U	36.7 U	3.02 U

Metals~Total

Parameter	Units	CSI	WG	HYD-4-003	HYD-4-004	HYD-4-005	HYD-4-006	HYD-4-007	HYD-4-008
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-4	HYD-4	HYD-4	HYD-4	HYD-4	HYD-5
Sample ID:	GW-092405-HYD-4-009	GW-092605-HYD-4-010	GW-092605-HYD-4-011	GW-092605-HYD-4-012	GW-092605-HYD-4-013	GW-100405-HYD-5-001
Sample Date:	9/24/2005	9/26/2005	9/26/2005	9/26/2005	9/26/2005	10/4/2005
Sample Depth:	76 to 79 ft bml	86 to 89 ft bml	96 to 99 ft bml	106 to 109 ft bml	116 to 119 ft bml	14 to 17 ft bml
elev_MLLW	-120.8 to -123.8	-130.8 to -133.8	-140.8 to -143.8	-150.8 to -153.8	-160.8 to -163.8	-54.47 to -57.47
elev_NGVD	-127.1 to -130.1	-137.1 to -140.1	-147.1 to -150.1	-157.1 to -160.1	-167.1 to -170.1	-60.8 to -63.8

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	2.64 U	5.25 U	4.97 U	5.76 U	0.334 U
Chromium (dissolved)	µg/L	50	8.04 U	2.93 U	5.16 U	3.86 U	3.54 U	8.33 U
Copper (dissolved)	µg/L	2.4	3.41 U	5.77 U	23 U	18.4 U	43.4 U	3.94 U
Lead (dissolved)	µg/L	8.1	0.035 U	0.045 U	0.04 U	0.03 U	0.04 U	0.055 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	6.98 U	12.5 U	39.6 U	32.9 U	70.4	22 U
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	0.302 U	1.73 U	40 U	0.302 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:			HYD-5	HYD-5	HYD-5	HYD-5	HYD-5	HYD-5
Sample ID:			GW-100505-HYD-5-002	GW-100505-HYD-5-003	GW-100505-HYD-5-004	GW-100505-HYD-5-005	GW-100505-HYD-5-006	GW-100505-HYD-5-007
Sample Date:			10/5/2005	10/5/2005	10/5/2005	10/5/2005	10/5/2005	10/5/2005
Sample Depth:			24 to 27 ft bml	34 to 37 ft bml	34 to 37 ft bml	44 to 47 ft bml	54 to 57 ft bml	64 to 67 ft bml
elev_MLLW			-64.47 to -67.47	-74.47 to -77.47	-74.47 to -77.47	-84.47 to -87.47	-94.47 to -97.47	-104.47 to -107.47
elev_NGVD			-70.8 to -73.8	-80.8 to -83.8	-80.8 to -83.8	-90.8 to -93.8	-100.8 to -103.8	-110.8 to -113.8
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	2.27 J	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	3.74 U	4.57 U	2.85 U	7.69 U	12.1 U	8.51 U
Copper (dissolved)	µg/L	2.4	2.32 UJ	8.58 U	9.84 U	13.2 U	4.42 U	2.18 UJ
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.04 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	17.9 U	43.5 U	50.9 U	48.8 U	6.03 U	5.34 U
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	0.302 U	0.302 U	0.302 U	0.302 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-5	HYD-6	HYD-6	HYD-6	HYD-6	HYD-6		
Sample ID:	GW-100505-HYD-5-008	GW-100105-HYD-6-005	GW-100105-HYD-6-006	GW-100305-HYD-6-007	GW-100305-HYD-6-008	GW-100305-HYD-6-009		
Sample Date:	10/5/2005	10/1/2005	10/1/2005	10/3/2005	10/3/2005	10/3/2005		
Sample Depth:	74 to 84 ft bml	42.3 to 45.4 ft bml	52.3 to 55.3 ft bml	62.3 to 65.3 ft bml	62.3 to 65.3 ft bml	72.3 to 75.3 ft bml		
elev_MLLW	-114.47 to -124.47	-83.99 to -87.09	-93.99 to -96.99	-103.99 to -106.99	-103.99 to -106.99	-113.99 to -116.99		
elev_NGVD	-120.8 to -130.8	-90.3 to -93.4	-100.3 to -103.3	-110.3 to -113.3	-110.3 to -113.3 (Duplicate)	-120.3 to -123.3		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.965 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	5.47 U	30.6	3.1 U	5.91 U	4.02 U	3.14 U
Copper (dissolved)	µg/L	2.4	4.55 U	21.9	9.67	3.57	3.25	3.7
Lead (dissolved)	µg/L	8.1	0.0167 U	0.06 U	0.28 U	2.06 J	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.112 J	0.044 U	0.106 J
Nickel (dissolved)	µg/L	8.2	10.8 U	85.8 J	28.5 J	8.62	8.09	11.4
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.06 U	0.03 U	0.02 U	0.02 U	0.0184 U
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	0.302 U	0.302 U	0.302 U	0.302 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-6	HYD-6	HYD-6	HYD-7	HYD-7	HYD-7		
Sample ID:	GW-100405-HYD-6-010	GW-100405-HYD-6-012	GW-100405-HYD-6-013	GW-083105-HYD-7-001	GW-083105-HYD-7-002	GW-090105-HYD-7-003		
Sample Date:	10/4/2005	10/4/2005	10/4/2005	8/31/2005	8/31/2005	9/1/2005		
Sample Depth:	82.3 to 85.3 ft bml	102.3 to 105.3 ft bml	112.3 to 115.3 ft bml	20 to 23 ft bml	20 to 23 ft bml	30 to 33 ft bml		
elev_MLLW	-123.99 to -126.99	-143.99 to -146.99	-153.99 to -156.99	-27.5 to -30.5	-27.5 to -30.5	-37.5 to -40.5		
elev_NGVD	-130.3 to -133.3	-150.3 to -153.3	-160.3 to -163.3	-33.8 to -36.8	-33.8 to -36.8	-43.8 to -46.8		
					(Duplicate)			
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	8.31	0.5 J	8.09	8.19	10.4 U
Chromium (dissolved)	µg/L	50	2.81 U	4.8 U	1.41 U	255	253	298
Copper (dissolved)	µg/L	2.4	8.1	1.15 J	0.095 U	23.3	17.2	12.9 U
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.04 U	0.3 J	0.355 J	0.235 U
Mercury (dissolved)	µg/L	0.025	0.047 J	0.044 U	0.044 U	0.048 J	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	10.9	7.11	3.13 U	63.8	63	41.5
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.02 U
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	0.302 U	17.1	17.4	13.9 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-7	HYD-7	HYD-7	HYD-7	HYD-7	HYD-7
Sample ID:	GW-090105-HYD-7-004	GW-091405-HYD-7-005	GW-091405-HYD-7-006	GW-091505-HYD-7-007	GW-091505-HYD-7-008	GW-091505-HYD-7-009
Sample Date:	9/1/2005	9/14/2005	9/14/2005	9/15/2005	9/15/2005	9/15/2005
Sample Depth:	40 to 43 ft bml	50 to 53 ft bml	60 to 63 ft bml	70 to 73 ft bml	80 to 83 ft bml	90 to 93 ft bml
elev_MLLW	-47.5 to -50.5	-57.5 to -60.5	-67.5 to -70.5	-77.5 to -80.5	-87.5 to -90.5	-97.5 to -100.5
elev_NGVD	-53.8 to -56.8	-63.8 to -66.8	-73.8 to -76.8	-83.8 to -86.8	-93.8 to -96.8	-103.8 to -106.8

Parameters

Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	HYD-7 (004)	HYD-7 (005)	HYD-7 (006)	HYD-7 (007)	HYD-7 (008)	HYD-7 (009)
Arsenic (dissolved)	µg/L	0.14		8.39 U	1.01 U	1.67 U	0.334 U	0.334 U	0.605 U
Chromium (dissolved)	µg/L	50		501	7.88 U	6.17 U	5.27 U	7.97 U	1.76 U
Copper (dissolved)	µg/L	2.4		23.5 U	4.56 U	3.41 U	12.5 U	11.9 U	4.34 U
Lead (dissolved)	µg/L	8.1		0.14 U	0.02 U	0.03 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025		0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2		55.6	45.4 J	29.6 J	52.3 J	89.2 J	12.7 U
Thallium (dissolved)	µg/L	0.47		0.035 U	0.115 U	0.08 U	0.07 U	0.08 U	0.025 U
Zinc (dissolved)	µg/L	81		16.7 U	5.55 U	5.83 U	13.5 U	2.45 U	9.39 U

Metals~Total

Parameter	Units	CSI	WG	HYD-7 (004)	HYD-7 (005)	HYD-7 (006)	HYD-7 (007)	HYD-7 (008)	HYD-7 (009)
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-7	HYD-7	HYD-7	HYD-8	HYD-8	HYD-8		
Sample ID:	GW-091605-HYD-7-010	GW-091605-HYD-7-011	GW-091605-HYD-7-012	GW-091305-HYD-8-002	GW-091305-HYD-8-001	GW-091305-HYD-8-003		
Sample Date:	9/16/2005	9/16/2005	9/16/2005	9/13/2005	9/13/2005	9/13/2005		
Sample Depth:	100 to 103 ft bml	110 to 113 ft bml	120 to 123 ft bml	2 to 5 ft bml	12 to 15 ft bml	22 to 25 ft bml		
elev_MLLW	-107.5 to -110.5	-117.5 to -120.5	-127.5 to -130.5	-40.1 to -43.1	-50.1 to -53.1	-60.1 to -63.1		
elev_NGVD	-113.8 to -116.8	-123.8 to -126.8	-133.8 to -136.8	-46.4 to -49.4	-56.4 to -59.4	-66.4 to -69.4		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	
Chromium (dissolved)	µg/L	50	0.74 U	0.765 U	0.845 U	1.58 U	1.07 U	1.35 U
Copper (dissolved)	µg/L	2.4	3.4 U	3.24 U	3.87 U	13.5 U	12.6 U	17.7
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.065 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.255	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	8.86 U	10.7 U	11.9 U	23.4 J	31.4 J	35.3 J
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.03 U	0.0184 U	0.025 U
Zinc (dissolved)	µg/L	81	7.53 U	4.31 U	5.77 U	2.9 U	0.302 U	0.302 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-8	HYD-8	HYD-8	HYD-8	HYD-8	HYD-8	
Sample ID:	GW-091305-HYD-8-004	GW-091405-HYD-8-005	GW-091405-HYD-8-006	GW-091405-HYD-8-007	GW-091405-HYD-8-008	GW-091405-HYD-8-009	
Sample Date:	9/13/2005	9/14/2005	9/14/2005	9/14/2005	9/14/2005	9/14/2005	
Sample Depth:	32 to 35 ft bml	42 to 45 ft bml	52 to 55 ft bml	62 to 65 ft bml	72 to 75 ft bml	82 to 85 ft bml	
elev_MLLW	-70.1 to -73.1	-80.1 to -83.1	-90.1 to -93.1	-100.1 to -103.1	-110.1 to -113.1	-120.1 to -123.1	
elev_NGVD	-76.4 to -79.4	-86.4 to -89.4	-96.4 to -99.4	-106.4 to -109.4	-116.4 to -119.4	-126.4 to -129.4	
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	1.41 U	1.29 U	1.06 U	2.97 U	3.94 U
Copper (dissolved)	µg/L	2.4	20.7	23.2	16.8 U	9.19 U	8.1 U
Lead (dissolved)	µg/L	8.1	0.0167 U	0.06 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	46.8 J	44.8 J	38.7 J	33.7 J	25.1 J
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	2.05 U	7.66 U	3.86 U	1.26 U	0.302 U
Metals~Total							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:			HYD-9	HYD-9	HYD-9	HYD-9	HYD-9	HYD-9
Sample ID:			GW-091405-HYD-9-001	GW-091405-HYD-9-002	GW-091505-HYD-9-003	GW-091505-HYD-9-004	GW-091505-HYD-9-005	GW-091505-HYD-9-006
Sample Date:			9/14/2005	9/14/2005	9/15/2005	9/15/2005	9/15/2005	9/15/2005
Sample Depth:			2 to 5 ft bml	12 to 15 ft bml	22 to 25 ft bml	32 to 35 ft bml	42 to 45 ft bml	52 to 55 ft bml
elev_MLLW			-37.35 to -40.35	-47.35 to -50.35	-57.35 to -60.35	-67.35 to -70.35	-77.35 to -80.35	-87.35 to -90.35
elev_NGVD			-43.7 to -46.7	-53.7 to -56.7	-63.7 to -66.7	-73.7 to -76.7	-83.7 to -86.7	-93.7 to -96.7
Parameters	Units	CSI WG						
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.725 U	1.89 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	2.68 U	3.19 U	3.18 U	2.71 U	2.5 U	2.74 U
Copper (dissolved)	µg/L	2.4	14.9 U	8.86 U	12 U	20.2 U	20.9 U	1.77 U
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	24.9 J	30.1 J	33.6 J	49.5 J	41.6 J	18
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.02 U	0.025 U	0.03 U	0.025 U	0.065 U
Zinc (dissolved)	µg/L	81	5.65 U	11.7 U	11.6 U	11.5 U	6.92 U	0.87 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-9	HYD-9	HYD-9	HYD-9	HYD-10	HYD-10
Sample ID:	GW-091505-HYD-9-007	GW-091505-HYD-9-008	GW-091505-HYD-9-009	GW-091505-HYD-9-010	GW-091605-HYD-10-001	GW-091605-HYD-10-002
Sample Date:	9/15/2005	9/15/2005	9/15/2005	9/15/2005	9/16/2005	9/16/2005
Sample Depth:	62 to 65 ft bml	72 to 75 ft bml	82 to 85 ft bml	92 to 95 ft bml	5.3 to 8.3 ft bml	15.3 to 18.3 ft bml
elev_MLLW	-97.35 to -100.35	-107.35 to -110.35	-117.35 to -120.35	-127.35 to -130.35	-21.9 to -24.9	-31.9 to -34.9
elev_NGVD	-103.7 to -106.7	-113.7 to -116.7	-123.7 to -126.7	-133.7 to -136.7	-28.2 to -31.2	-38.2 to -41.2

Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	1.51 U	26.6	0.334 U
Chromium (dissolved)	µg/L	50	1.37 U	1.38 U	1.69 U	2.06 U	4.78 U	2.94 U
Copper (dissolved)	µg/L	2.4	17.4 U	27.7 U	30.6 U	35.3 U	21.8 U	16.6 U
Lead (dissolved)	µg/L	8.1	0.045 U	0.0167 U	0.055 U	0.02 U	0.09 U	0.455 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	51.4	53.2	57	59.5	36.4 U	31.8 U
Thallium (dissolved)	µg/L	0.47	0.04 U	0.05 U	0.035 U	0.025 U	0.025 U	0.0184 U
Zinc (dissolved)	µg/L	81	6.09 U	3.79 U	3.15 U	5.45 U	2.73 U	4.56 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-10	HYD-10	HYD-10	HYD-10	HYD-10	HYD-10		
Sample ID:	GW-091605-HYD-10-003	GW-091605-HYD-10-004	GW-091605-HYD-10-005	GW-091605-HYD-10-006	GW-091605-HYD-10-007	GW-091605-HYD-10-008		
Sample Date:	9/16/2005	9/16/2005	9/16/2005	9/16/2005	9/16/2005	9/16/2005		
Sample Depth:	25.3 to 28.3 ft bml	35.3 to 38.3 ft bml	45.3 to 48.3 ft bml	45.3 to 48.3 ft bml	55.3 to 58.3 ft bml	65.3 to 68.3 ft bml		
elev_MLLW	-41.9 to -44.9	-51.9 to -54.9	-61.9 to -64.9	-61.9 to -64.9	-71.9 to -74.9	-81.9 to -84.9		
elev_NGVD	-48.2 to -51.2	-58.2 to -61.2	-68.2 to -71.2	-68.2 to -71.2 (Duplicate)	-78.2 to -81.2	-88.2 to -91.2		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	0.334 U	2.03 J	
Chromium (dissolved)	µg/L	50	2.2 U	2.8 U	1.15 U	1.62 U	1.2 U	1.58 U
Copper (dissolved)	µg/L	2.4	0.845 U	0.575 U	20.2 U	27.6 U	25.5 U	27.8 U
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.065 U
Mercury (dissolved)	µg/L	0.025	0.044 UJ	0.115 J	0.044 UJ	0.044 UJ	0.044 UJ	0.044 UJ
Nickel (dissolved)	µg/L	8.2	8.62 U	8.55 U	35.4 U	40.7	38.4	47.4
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.02 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	0.31 U	2.09 U	0.302 U	1.21 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-10	HYD-10	HYD-10	HYD-10	NL-13	NL-13
Sample ID:	GW-091605-HYD-10-009	GW-091605-HYD-10-010	GW-091605-HYD-10-011	GW-091705-HYD-10-012	GW-122005-NL-13-001	GW-122005-NL-13-002
Sample Date:	9/16/2005	9/16/2005	9/16/2005	9/17/2005	12/20/2005	12/20/2005
Sample Depth:	75.3 to 78.3 ft bml	85.3 to 88.3 ft bml	95.3 to 98.3 ft bml	105.3 to 108.3 ft bml	0 to 3 ft bml	3 to 6 ft bml
elev_MLLW	-91.9 to -94.9	-101.9 to -104.9	-111.9 to -114.9	-121.9 to -124.9	-1.8 to -4.8	-4.8 to -7.8
elev_NGVD	-98.2 to -101.2	-108.2 to -111.2	-118.2 to -121.2	-128.2 to -131.2	-8.1 to -11.1	-11.1 to -14.1

Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	0.334 U	4.4 U	13.8
Chromium (dissolved)	µg/L	50	1.6 U	1.99 U	2.14 U	1.84 U	8.42	27.9
Copper (dissolved)	µg/L	2.4	27.1 U	13.9 U	2.44 U	10.1 U	11	9.63
Lead (dissolved)	µg/L	8.1	0.18 U	0.0167 U	0.0167 U	0.045 U	0.795 J	1.41 J
Mercury (dissolved)	µg/L	0.025	0.044 UJ	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	51.5	42	22.6 U	46.4	24.9	33.9
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.02 U	0.06 U
Zinc (dissolved)	µg/L	81	2.6 U	5.32 U	0.302 U	5.82 U	1.87 U	2.38 U

Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	NL-13	NL-13	NL-13	NL-13	NL-13	NL-13		
Sample ID:	GW-122005-NL-13-003	GW-122005-NL-13-004	GW-122005-NL-13-005	GW-122105-NL-13-006	GW-122105-NL-13-007	GW-122105-NL-13-008		
Sample Date:	12/20/2005	12/20/2005	12/20/2005	12/21/2005	12/21/2005	12/21/2005		
Sample Depth:	6 to 9 ft bml	9 to 12 ft bml	12 to 15 ft bml	15 to 18 ft bml	18 to 21 ft bml	18 to 21 ft bml		
elev_MLLW	-7.8 to -10.8	-10.8 to -13.8	-13.8 to -16.8	-16.8 to -19.8	-19.8 to -22.8	-19.8 to -22.8		
elev_NGVD	-14.1 to -17.1	-17.1 to -20.1	-20.1 to -23.1	-23.1 to -26.1	-26.1 to -29.1	-26.1 to -29.1		
Parameters	Units	CSI	WG			(Duplicate)		
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	34.4	108	25.1	1.2 J	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	139	369	236	6.83 U	6.08 U	4.79 U
Copper (dissolved)	µg/L	2.4	25 J	65.1	30.6	8.95	3.02 U	2.85 U
Lead (dissolved)	µg/L	8.1	7.95 J	67.6	17 J	0.18 U	0.205 U	0.06 U
Mercury (dissolved)	µg/L	0.025	0.44 U	0.44 U	0.44 U	0.232 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	73.4	148	57.9	19.3 J	14 J	14.5 J
Thallium (dissolved)	µg/L	0.47	0.35 U	0.2 U	0.184 U	0.02 U	0.045 U	0.03 U
Zinc (dissolved)	µg/L	81	22.3 J	63.1	30 J	0.302 U	0.302 U	0.475 J
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		NL-13	NL-13	NL-13	NL-14	NL-14	NL-14		
Sample ID:		GW-122105-NL-13-009	GW-122105-NL-13-010	GW-122105-NL-13-011	GW-121405-NL-14-001	GW-121405-NL-14-002	GW-121405-NL-14-003		
Sample Date:		12/21/2005	12/21/2005	12/21/2005	12/14/2005	12/14/2005	12/14/2005		
Sample Depth:		21 to 24 ft bml	24 to 27 ft bml	27 to 30 ft bml	1 to 4 ft bml	4 to 7 ft bml	7 to 10 ft bml		
elev_MLLW		-22.8 to -25.8	-25.8 to -28.8	-28.8 to -31.8	-5.1 to -8.1	-8.1 to -11.1	-11.1 to -14.1		
elev_NGVD		-29.1 to -32.1	-32.1 to -35.1	-35.1 to -38.1	-11.4 to -14.4	-14.4 to -17.4	-17.4 to -20.4		
Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14		0.334 U	0.334 U	0.334 U	7.54	3.34 U	19.8
Chromium (dissolved)	µg/L	50		3.79 U	5.09 U	3.25 U	4.92	147	59
Copper (dissolved)	µg/L	2.4		8.26	2.28 U	4.17 U	10.1	38.7	17.6
Lead (dissolved)	µg/L	8.1		0.305 U	0.07 U	0.12 U	0.475 U	185	293
Mercury (dissolved)	µg/L	0.025		0.044 U	0.044 U	0.044 U	0.044 U	0.44 U	0.608
Nickel (dissolved)	µg/L	8.2		22.4 J	11.9 J	18.9 J	25.5 J	74.2 J	37.8 J
Thallium (dissolved)	µg/L	0.47		0.02 U	0.0184 U	0.0184 U	0.08 U	0.3 U	0.055 U
Zinc (dissolved)	µg/L	81		0.415 J	0.68 J	0.302 U	0.302 U	33.8 J	16.5
Metals~Total									
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	NL-14	NL-14	NL-14	NL-14	NL-14	NL-14		
Sample ID:	GW-121405-NL-14-004	GW-121405-NL-14-005	GW-121505-NL-14-006	GW-121505-NL-14-007	GW-121505-NL-14-008	GW-121505-NL-14-009		
Sample Date:	12/14/2005	12/14/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005		
Sample Depth:	10 to 13 ft bml	13 to 16 ft bml	16 to 19 ft bml	19 to 22 ft bml	22 to 25 ft bml	25 to 28 ft bml		
elev_MLLW	-14.1 to -17.1	-17.1 to -20.1	-20.1 to -23.1	-23.1 to -26.1	-26.1 to -29.1	-29.1 to -32.1		
elev_NGVD	-20.4 to -23.4	-23.4 to -26.4	-26.4 to -29.4	-29.4 to -32.4	-32.4 to -35.4	-35.4 to -38.4		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	18.4	6.02	19.4	3.86	0.334 U	3.54
Chromium (dissolved)	µg/L	50	54	31.5	53.8	35.7 U	52.5 U	82.7
Copper (dissolved)	µg/L	2.4	10.8	1.52 J	9.8 U	2.08 U	2.17 U	6.46 U
Lead (dissolved)	µg/L	8.1	5.58	1.17 U	2.34 U	0.385 U	0.205 U	0.21 U
Mercury (dissolved)	µg/L	0.025	0.372	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	24.7 J	13.8 J	24.1 U	12.7 U	12.5 U	18.4 U
Thallium (dissolved)	µg/L	0.47	0.025 U	0.0184 U	0.185 U	0.045 U	0.085 U	0.08 U
Zinc (dissolved)	µg/L	81	10.9	5.62	7.41 U	4.51 U	4.37 U	5.15 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		NL-14	NL-14	NL-15	NL-15	NL-15	NL-15	
Sample ID:		GW-121505-NL-14-010	GW-121505-NL-14-011	GW-121605-NL-15-001	GW-121605-NL-15-002	GW-121605-NL-15-003	GW-121605-NL-15-004	
Sample Date:		12/15/2005	12/15/2005	12/16/2005	12/16/2005	12/16/2005	12/16/2005	
Sample Depth:		25 to 28 ft bml	28 to 31 ft bml	0 to 3 ft bml	3 to 6 ft bml	6 to 9 ft bml	9 to 12 ft bml	
elev_MLLW		-29.1 to -32.1	-32.1 to -35.1	-1.8 to -4.8	-4.8 to -7.8	-7.8 to -10.8	-10.8 to -13.8	
elev_NGVD		-35.4 to -38.4	-38.4 to -41.4	-8.1 to -11.1	-11.1 to -14.1	-14.1 to -17.1	-17.1 to -20.1	
		(Duplicate)						
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	9.9	15.6	3.34 U	35
Chromium (dissolved)	µg/L	50	75.7	20.9 U	2.92 U	2.77 U	69.7 U	70.3 U
Copper (dissolved)	µg/L	2.4	4.76 U	4.56 U	13.6	13.6	24.6 U	49.3 U
Lead (dissolved)	µg/L	8.1	0.34 U	0.09 U	0.12 U	0.185 U	8.8 U	19.8 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.44 U	0.44 U
Nickel (dissolved)	µg/L	8.2	16.2 U	10.7 U	23.3	23.3	35.8 U	45.9 U
Thallium (dissolved)	µg/L	0.47	0.07 U	0.055 U	0.025 U	0.0184 U	0.35 U	0.184 U
Zinc (dissolved)	µg/L	81	4.89 U	3.61 U	2.34 U	1.71 U	38.3 U	45.3 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		NL-15	NL-15	NL-15	NL-15	NL-15	NL-15
Sample ID:		GW-121605-NL-15-005	GW-121605-NL-15-006	GW-121905-NL-15-007	GW-121905-NL-15-008	GW-121905-NL-15-009	GW-121905-NL-15-010
Sample Date:		12/16/2005	12/16/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005
Sample Depth:		12 to 15 ft bml	15 to 18 ft bml	18 to 21 ft bml	21 to 24 ft bml	24 to 27 ft bml	27 to 30 ft bml
elev_MLLW		-13.8 to -16.8	-16.8 to -19.8	-19.8 to -22.8	-22.8 to -25.8	-25.8 to -28.8	-28.8 to -31.8
elev_NGVD		-20.1 to -23.1	-23.1 to -26.1	-26.1 to -29.1	-29.1 to -32.1	-32.1 to -35.1	-35.1 to -38.1
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14		53.7	12.2	1.5 U	2.21 U 2.95 U 3.34 U
Chromium (dissolved)	µg/L	50		3.57 U	20.1	3.35 U	2.21 U 14.9 126
Copper (dissolved)	µg/L	2.4		8.81 U	2.42 U	2.28 J	4.87 3.7 14.4 J
Lead (dissolved)	µg/L	8.1		0.07 U	0.105 U	0.095 U	0.09 U 0.075 U 0.75 J
Mercury (dissolved)	µg/L	0.025		0.044 U	0.044 U	0.044 U	0.044 U 0.044 U 0.44 U
Nickel (dissolved)	µg/L	8.2		24.4 J	19.9 J	25.5 J	27.2 J 23.3 J 56.2 J
Thallium (dissolved)	µg/L	0.47		0.0184 U	0.075 U	0.0184 U	0.055 U 0.035 U 0.3 U
Zinc (dissolved)	µg/L	81		0.44 U	0.302 U	0.302 U	0.302 U 3.57 U 29.5 J
Metals~Total							
Arsenic	µg/L	0.14		-	-	-	- - -
Chromium	µg/L	50		-	-	-	- - -
Copper	µg/L	2.4		-	-	-	- - -
Lead	µg/L	8.1		-	-	-	- - -
Mercury	µg/L	0.025		-	-	-	- - -
Nickel	µg/L	8.2		-	-	-	- - -
Thallium	µg/L	0.47		-	-	-	- - -
Zinc	µg/L	81		-	-	-	- - -

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		NL-16	NL-16	NL-16	NL-16	NL-16	NL-16	
Sample ID:		GW-051806-NL-16-BI-001	GW-051806-NL-16-BI-002	GW-051806-NL-16-BI-003	GW-051806-NL-16-BI-004	GW-051906-NL-16-BI-005	GW-051906-NL-16-BI-006	
Sample Date:		5/18/2006	5/18/2006	5/18/2006	5/18/2006	5/19/2006	5/19/2006	
Sample Depth:		1 to 4 ft bml	5 to 8 ft bml	5 to 8 ft bml	8 to 11 ft bml	11 to 14 ft bml	14 to 17 ft bml	
elev_MLLW		-10 to -13	-14 to -17	-14 to -17	-17 to -20	-20 to -23	-23 to -26	
elev_NGVD		-16.3 to -19.3	-20.3 to -23.3	-20.3 to -23.3	-23.3 to -26.3	-26.3 to -29.3	-29.3 to -32.3	
Parameters	Units	CSI	WG	(Duplicate)				
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	5.3 U	0.37 U	0.53 U	0.37 U	130	16
Chromium (dissolved)	µg/L	50	1.9 U	5.4 U	5.1 U	5.9 U	22 J	30 J
Copper (dissolved)	µg/L	2.4	22	22	21	20	8.6	5.9
Lead (dissolved)	µg/L	8.1	8.2	0.21 U	0.20 U	0.085 U	0.37 U	0.50 U
Mercury (dissolved)	µg/L	0.025	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U
Nickel (dissolved)	µg/L	8.2	53	47	52	52	59	41
Thallium (dissolved)	µg/L	0.47	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Zinc (dissolved)	µg/L	81	7.1 U	3.9 U	2.1 U	1.9 U	2.3 U	4.2 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	NL-16	NL-16	NL-23	NL-23	NL-23	NL-23
Sample ID:	GW-051906-NL-16-BI-007	GW-051906-NL-16-BI-008	GW-081106-LH-NL23-001	GW-081106-LH-NL23-002	GW-081106-LH-NL23-003	GW-081406-LH-NL23-004
Sample Date:	5/19/2006	5/19/2006	8/11/2006	8/11/2006	8/11/2006	8/14/2006
Sample Depth:	17 to 20 ft bml	20 to 23 ft bml	0 to 3 ft bml	6 to 9 ft bml	6 to 9 ft bml	9 to 12 ft bml
elev_MLLW	-26 to -29	-29 to -32	-8 to -11	-14 to -17	-14 to -17	-17 to -20
elev_NGVD	-32.3 to -35.3	-35.3 to -38.3	-14.3 to -17.3	-20.3 to -23.3	-20.3 to -23.3	-23.3 to -26.3

(Duplicate)

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	NL-16	NL-16	NL-23	NL-23	NL-23	NL-23
Arsenic (dissolved)	µg/L	0.14		0.87 U	0.37 U	478 J	541 J	446 J	450 J
Chromium (dissolved)	µg/L	50		140 J	6.4 U	11.2 U	23.7 J	33.9 J	50.7 J
Copper (dissolved)	µg/L	2.4		14	7.4	56.1 J	56.1 J	57.9 J	58.8 J
Lead (dissolved)	µg/L	8.1		0.58 J	0.030 U	4.2 J	0.55 UJ	0.55 UJ	1.5
Mercury (dissolved)	µg/L	0.025		0.055 U	0.055 U	0.13 UJ	0.35 UJ	0.30 UJ	1.6 U
Nickel (dissolved)	µg/L	8.2		48	56	25.5 J	40.8 J	34.2 J	31.7 J
Thallium (dissolved)	µg/L	0.47		0.019 U	0.019 U	0.050 UJ	0.050 UJ	0.050 UJ	0.050 U
Zinc (dissolved)	µg/L	81		8.1 U	0.72 U	12 UJ	12 UJ	12 UJ	376 J

Metals~Total

Parameter	Units	CSI	WG	NL-16	NL-16	NL-23	NL-23	NL-23	NL-23
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	NL-23	NL-23	NL-23	NL-23	NL-23	NL-23			
Sample ID:	GW-081406-LH-NL23-005	GW-081406-LH-NL23-006	GW-081406-LH-NL23-007	GW-081506-LH-NL23-008	GW-081506-LH-NL23-009	GW-081506-LH-NL23-010			
Sample Date:	8/14/2006	8/14/2006	8/14/2006	8/15/2006	8/15/2006	8/15/2006			
Sample Depth:	12 to 15 ft bml	15 to 18 ft bml	15 to 18 ft bml	18 to 21 ft bml	21 to 24 ft bml	24 to 27 ft bml			
elev_MLLW	-20 to -23	-23 to -26	-23 to -26	-26 to -29	-29 to -32	-32 to -35			
elev_NGVD	-26.3 to -29.3	-29.3 to -32.3	-29.3 to -32.3	-32.3 to -35.3	-35.3 to -38.3	-38.3 to -41.3			
Parameters	Units	CSI	WG	(Duplicate)					
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14		373 J	90.2 J	8.6 J	8.6 UJ	62.5 UJ	5.4 UJ
Chromium (dissolved)	µg/L	50		11.1 J	178 J	14.3 J	13.9 UJ	345 J	16.2 J
Copper (dissolved)	µg/L	2.4		55.3 J	84.8 J	6.8 J	77.2 J	96.4 J	9.2 J
Lead (dissolved)	µg/L	8.1		6.0	5.5 U	0.55 U	61.6 J	0.55 UJ	0.71 J
Mercury (dissolved)	µg/L	0.025		0.13 U	1.9 U	1.3 U	1.0 UJ	1.7 UJ	1.2 UJ
Nickel (dissolved)	µg/L	8.2		26.4 J	41.9 J	4.7 J	37.3 J	46.7 J	6.5 J
Thallium (dissolved)	µg/L	0.47		0.40 U	1.8 U	0.12 U	0.73 UJ	0.050 UJ	0.050 UJ
Zinc (dissolved)	µg/L	81		R	R	R	1320 J	12 UJ	12 UJ
Metals~Total									
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	NL-24	NL-24	NL-24	NL-24	NL-24	NL-25
Sample ID:	GW-011207-BS-NL-24-001	GW-011507-BS-NL-24-002	GW-011507-BS-NL-24-003	GW-011507-BS-NL-24-004	GW-011507-BS-NL-24-005	GW-011807-ILM-NL-25-001
Sample Date:	1/12/2007	1/15/2007	1/15/2007	1/15/2007	1/15/2007	1/18/2007
Sample Depth:	1.5 to 4.5 ft bml	6.5 to 9.5 ft bml	11.5 to 14.5 ft bml	16.5 to 19.5 ft bml	21.5 to 24.5 ft bml	1.5 to 4.5 ft bml
elev_MLLW	-25.89 to -28.89	-30.89 to -33.89	-35.89 to -38.89	-40.89 to -43.89	-45.89 to -48.89	-29 to -32
elev_NGVD	-32.2 to -35.2	-37.2 to -40.2	-42.2 to -45.2	-47.2 to -50.2	-52.2 to -55.2	-35.3 to -38.3

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	4.5 U	85.7	67.6	24.6	29.6	169
Chromium (dissolved)	µg/L	50	22.9 U	51.2 U	8.1 U	8.8 U	16.8 U	13.2 U
Copper (dissolved)	µg/L	2.4	15.6 J	61.0	45.0	25.4	38.2	52.8
Lead (dissolved)	µg/L	8.1	9.8 J	8.4 U	2.8 U	2.8 U	2.8 U	5.3 U
Mercury (dissolved)	µg/L	0.025	2.1	1.7 U	3.9	0.30 U	3.0	1.3 U
Nickel (dissolved)	µg/L	8.2	8.0 U	69.0	35.3	21.6	40.1	34.9
Thallium (dissolved)	µg/L	0.47	0.50 U	0.86 J	0.25 U	0.25 U	0.25 U	0.18 U
Zinc (dissolved)	µg/L	81	115 U	115 U	58 U	58 U	58 U	34.2 J

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	NL-25	NL-25	NL-25	NL-25	NL-25
Sample ID:	GW-011807-ILM-NL-25-002	GW-011807-ILM-NL-25-003	GW-011807-ILM-NL-25-004	GW-011807-ILM-NL-25-005	GW-011907-ILM-NL-25-006
Sample Date:	1/18/2007	1/18/2007	1/18/2007	1/18/2007	1/19/2007
Sample Depth:	6.5 to 9.5 ft bml	6.5 to 9.5 ft bml	11.5 to 14.5 ft bml	16.5 to 19.5 ft bml	21.5 to 24.5 ft bml
elev_MLLW	-34 to -37	-34 to -37	-39 to -42	-44 to -47	-49 to -52
elev_NGVD	-40.3 to -43.3	-40.3 to -43.3	-45.3 to -48.3	-50.3 to -53.3	-55.3 to -58.3

(Duplicate)

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	296	286	146	129	99.2
Chromium (dissolved)	µg/L	50	14.0 U	14.3 U	11.6 U	16.0 U	13.7 U
Copper (dissolved)	µg/L	2.4	62.7	62.5	30.5	43.1	47.1
Lead (dissolved)	µg/L	8.1	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Mercury (dissolved)	µg/L	0.025	7.2 U	0.41 U	0.41 U	0.41 U	0.41 U
Nickel (dissolved)	µg/L	8.2	41.7	45.4	21.2	29.5	44.2
Thallium (dissolved)	µg/L	0.47	0.12 U	0.10 U	0.12 U	0.10 U	0.10 U
Zinc (dissolved)	µg/L	81	26.2 J	53.8 J	44.9 J	28.3 J	55.5 J

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	NL-26	NL-26	NL-26	NL-26	NL-26
Sample ID:	GW-011707-ILM-NL-26-001	GW-011707-ILM-NL-26-002	GW-011807-ILM-NL-26-003	GW-011807-ILM-NL-26-004	GW-011807-ILM-NL-26-005
Sample Date:	1/17/2007	1/17/2007	1/18/2007	1/18/2007	1/18/2007
Sample Depth:	6.5 to 9.5 ft bml	11.5 to 14.5 ft bml	16.5 to 19.5 ft bml	16.5 to 19.5 ft bml	21.5 to 24.5 ft bml
elev_MLLW	-26.9 to -29.9	-31.9 to -34.9	-36.9 to -39.9	-36.9 to -39.9	-41.9 to -44.9
elev_NGVD	-33.2 to -36.2	-38.2 to -41.2	-43.2 to -46.2	-43.2 to -46.2	-48.2 to -51.2
				<i>(Duplicate)</i>	

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	75.7	168	87.8	87.1	101
Chromium (dissolved)	µg/L	50	11.3 U	9.9 U	8.7 U	10.0 U	10.4 U
Copper (dissolved)	µg/L	2.4	29.8	30.4	31.4	30.2	27.7
Lead (dissolved)	µg/L	8.1	1.6 U	1.1 U	2.0 U	1.1 U	1.1 U
Mercury (dissolved)	µg/L	0.025	9.6 U	11.1 U	2.8 U	2.8 U	5.1 U
Nickel (dissolved)	µg/L	8.2	22.0 U	22.8 U	23.4 U	20.9 U	20.4 U
Thallium (dissolved)	µg/L	0.47	0.61 U	0.10 U	0.10 U	0.10 U	0.10 U
Zinc (dissolved)	µg/L	81	23 U	23 U	65.4 U	23 U	23 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	NL-28	NL-28	NL-28	NL-28	NL-28	NL-29
Sample ID:	GW-011607-BS-NL-28-001	GW-011707-BS-NL-28-002	GW-011707-BS-NL-28-003	GW-011707-BS-NL-28-004	GW-011707-BS-NL-28-005	GW-011807-BS-NL-29-001
Sample Date:	1/16/2007	1/17/2007	1/17/2007	1/17/2007	1/17/2007	1/18/2007
Sample Depth:	1.5 to 3.5 ft bml	6.5 to 9.5 ft bml	11.5 to 14.5 ft bml	16.5 to 19.5 ft bml	21.5 to 24.5 ft bml	1.5 to 4.5 ft bml
elev_MLLW	-4.9 to -6.9	-9.9 to -12.9	-14.9 to -17.9	-19.9 to -22.9	-24.9 to -27.9	-6 to -9
elev_NGVD	-11.2 to -13.2	-16.2 to -19.2	-21.2 to -24.2	-26.2 to -29.2	-31.2 to -34.2	-12.3 to -15.3

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	163	26.7	15.0	5.0 U	18.6	544 J
Chromium (dissolved)	µg/L	50	15.5 U	38.8	40.8	49.9	20.6 U	3.3 U
Copper (dissolved)	µg/L	2.4	63.6	47.5	49.6	67.4	17.6 U	37.2 J
Lead (dissolved)	µg/L	8.1	2.8 U	1.1 U	1.8 U	1.1 U	1.1 U	0.51 U
Mercury (dissolved)	µg/L	0.025	0.17 U	1.4 U	1.0 U	1.7 U	10.5 U	0.41 U
Nickel (dissolved)	µg/L	8.2	37.0	38.1	33.2	44.7	11.7 U	24.5 J
Thallium (dissolved)	µg/L	0.47	1.4 U	0.10 U	0.10 U	0.10 U	0.11 U	0.01 U
Zinc (dissolved)	µg/L	81	58 U	32.2 U	88.9 U	23 U	28.2 U	10.2 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	NL-29	NL-29	NL-29	NL-29	NL-30	NL-30
Sample ID:	GW-011807-BS-NL-29-002	GW-011807-BS-NL-29-003	GW-011807-BS-NL-29-004	GW-011807-BS-NL-29-005	GW-011907-BS-NL-30-001	GW-011907-BS-NL-30-002
Sample Date:	1/18/2007	1/18/2007	1/18/2007	1/18/2007	1/19/2007	1/19/2007
Sample Depth:	6.5 to 9.5 ft bml	11.5 to 14.5 ft bml	16.5 to 19.5 ft bml	21.5 to 24.5 ft bml	1.5 to 4.5 ft bml	6.5 to 9.5 ft bml
elev_MLLW	-11 to -14	-16 to -19	-21 to -24	-26 to -29	-24.75 to -27.75	-29.75 to -32.75
elev_NGVD	-17.3 to -20.3	-22.3 to -25.3	-27.3 to -30.3	-32.3 to -35.3	-31.1 to -34.1	-36.1 to -39.1

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	NL-29-002	NL-29-003	NL-29-004	NL-29-005	NL-30-001	NL-30-002
Arsenic (dissolved)	µg/L	0.14		147 J	154 J	233 J	132 J	618	505
Chromium (dissolved)	µg/L	50		16.0 U	22.4 J	10.8 U	12.2 U	9.3 U	10.1 U
Copper (dissolved)	µg/L	2.4		54.1 U	48.2 J	42.7 J	21.4 J	51.8 J	42.4 J
Lead (dissolved)	µg/L	8.1		5.9 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Mercury (dissolved)	µg/L	0.025		0.41 U	0.41 U	0.41 U	7.9 U	1.2 U	1.3 U
Nickel (dissolved)	µg/L	8.2		30.0 J	32.2 J	32.5 J	14.6 J	36.7	30.2
Thallium (dissolved)	µg/L	0.47		0.50 U	0.10 U	4.4	0.87 U	0.10 U	0.10 U
Zinc (dissolved)	µg/L	81		270 U	31.0 U	44.7 U	39.9 U	23 U	38.7 U

Metals~Total

Parameter	Units	CSI	WG	NL-29-002	NL-29-003	NL-29-004	NL-29-005	NL-30-001	NL-30-002
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	NL-30	NL-30	NL-30	Pier25-1	Pier25-1	Pier25-1
Sample ID:	GW-011907-BS-NL-30-003	GW-011907-ILM-NL-30-004	GW-011907-ILM-NL-30-005	GW-063005-PIER25-1-001	GW-070105-PIER25-1-002	GW-070105-PIER25-1-003
Sample Date:	1/19/2007	1/19/2007	1/19/2007	6/30/2005	7/1/2005	7/1/2005
Sample Depth:	11.5 to 14.5 ft bml	16.5 to 19.5 ft bml	21.5 to 24.5 ft bml	3 to 5 ft bml	14.5 to 16.5 ft bml	24.5 to 26.5 ft bml
elev_MLLW	-34.75 to -37.75	-39.75 to -42.75	-44.75 to -47.75	-40.6 to -42.6	-52.1 to -54.1	-62.1 to -64.1
elev_NGVD	-41.1 to -44.1	-46.1 to -49.1	-51.1 to -54.1	-46.9 to -48.9	-58.4 to -60.4	-68.4 to -70.4

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	175	188	364	2.59	1.64 J	0.334 U
Chromium (dissolved)	µg/L	50	19.0 U	11.2 U	16.2 U	1.96 J	2.26 J	2.5
Copper (dissolved)	µg/L	2.4	33.8 J	51.3 J	51.5 J	19.3	19.2	12.2
Lead (dissolved)	µg/L	8.1	1.1 U	1.1 U	11.2 U	0.0167 U	0.085 J	0.13 J
Mercury (dissolved)	µg/L	0.025	1.4 U	0.41 U	0.091 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	26.4	40.7	36.9	28.1	27.4	23
Thallium (dissolved)	µg/L	0.47	0.10 U	0.10 U	3.7	0.0184 U	0.2 J	0.095 J
Zinc (dissolved)	µg/L	81	38.9 U	24.3 U	76.8 U	10300	42600	5090

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-1	Pier25-1	Pier25-1	Pier25-1	Pier25-1	Pier25-1		
Sample ID:	GW-070105-PIER25-1-004	GW-070505-PIER25-1-005	GW-070505-PIER25-1-006	GW-072605-PIER25-1-007	GW-072705-PIER25-1-009	GW-072705-PIER25-1-010		
Sample Date:	7/1/2005	7/5/2005	7/5/2005	7/26/2005	7/27/2005	7/27/2005		
Sample Depth:	24.5 to 26.5 ft bml	34.5 to 36.5 ft bml	44.5 to 46.5 ft bml	54.5 to 56.5 ft bml	74.5 to 76.5 ft bml	84.5 to 86.5 ft bml		
elev_MLLW	-62.1 to -64.1	-72.1 to -74.1	-82.1 to -84.1	-92.1 to -94.1	-112.1 to -114.1	-122.1 to -124.1		
elev_NGVD	-68.4 to -70.4	-78.4 to -80.4	-88.4 to -90.4	-98.4 to -100.4	-118.4 to -120.4	-128.4 to -130.4		
	(Duplicate)							
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	3000 U	0.334 U	0.545 J	0.975 J
Chromium (dissolved)	µg/L	50	2.29 J	0.2 U	2.67	2.68	2.98	2.99
Copper (dissolved)	µg/L	2.4	11.5	19.1	4.88	3.69	2.25 J	2.44 J
Lead (dissolved)	µg/L	8.1	0.205 J	0.0167 U	0.0167 U	0.045 U	0.165 U	0.175 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.058 J	0.14 J	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	22.1	28.1	17.7	26.3	6.78 J	9.81 J
Thallium (dissolved)	µg/L	0.47	0.07 J	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.03 J
Zinc (dissolved)	µg/L	81	4750	7590	12900	13.4	2.08 J	0.302 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-2	Pier25-2	Pier25-2	Pier25-2	Pier25-2	Pier25-2
Sample ID:	GW-071405-PIER25-2-001	GW-071405-PIER25-2-002	GW-071405-PIER25-2-003	GW-071405-PIER25-2-004	GW-071505-PIER25-2-005	GW-071505-PIER25-2-006
Sample Date:	7/14/2005	7/14/2005	7/14/2005	7/14/2005	7/15/2005	7/15/2005
Sample Depth:	6 to 9 ft bml	16 to 19 ft bml	26 to 29 ft bml	36 to 39 ft bml	46 to 49 ft bml	56 to 59 ft bml
elev_MLLW	-41.2 to -44.2	-51.2 to -54.2	-61.2 to -64.2	-71.2 to -74.2	-81.2 to -84.2	-91.2 to -94.2
elev_NGVD	-47.5 to -50.5	-57.5 to -60.5	-67.5 to -70.5	-77.5 to -80.5	-87.5 to -90.5	-97.5 to -100.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	1.41 U	0.334 U	0.995 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	2.05 U	2.05 U	2.11 U	2.18 U	2.99 U	2.02 U
Copper (dissolved)	µg/L	2.4	18.3 U	18 U	19.1 U	19.2 U	12.7 J	17.4 J
Lead (dissolved)	µg/L	8.1	0.03 U	0.035 U	0.03 U	0.04 U	0.035 U	0.04 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.056 J	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	31.9 J	29.4 J	31.1 J	27.3 J	24.3 J	26.5 J
Thallium (dissolved)	µg/L	0.47	0.025 U	0.0184 U	0.0184 U	0.0184 U	0.41 U	0.17 U
Zinc (dissolved)	µg/L	81	29.4 U	63 U	27.3 U	11.9 U	0.302 U	8.93 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-2	Pier25-2	Pier25-2	Pier25-2	Pier25-2	Pier25-2
Sample ID:	GW-071505-PIER25-2-007	GW-071805-PIER25-2-008	GW-071805-PIER25-2-009	GW-071905-PIER25-2-010	GW-081905-PIER25-2-011	GW-081905-PIER25-2-012
Sample Date:	7/15/2005	7/18/2005	7/18/2005	7/19/2005	8/19/2005	8/19/2005
Sample Depth:	66 to 69 ft bml	76 to 79 ft bml	86 to 89 ft bml	96 to 99 ft bml	106 to 109 ft bml	116 to 119 ft bml
elev_MLLW	-101.2 to -104.2	-111.2 to -114.2	-121.2 to -124.2	-131.2 to -134.2	-141.2 to -144.2	-151.2 to -154.2
elev_NGVD	-107.5 to -110.5	-117.5 to -120.5	-127.5 to -130.5	-137.5 to -140.5	-147.5 to -150.5	-157.5 to -160.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	0.42 J	0.334 U	1.65 J	14.3	2.12 J
Chromium (dissolved)	µg/L	50	1.88 U	9.94	3.12 U	2.02 U	3.31 U	3.08 U
Copper (dissolved)	µg/L	2.4	19.3 J	8.65	3.14	5.71	5.04 J	6.23 J
Lead (dissolved)	µg/L	8.1	0.0167 U	0.045 U	0.02 U	0.03 U	0.075 U	0.065 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 UJ	0.044 U	0.077 J	0.044 UJ	0.044 UJ
Nickel (dissolved)	µg/L	8.2	27.5 J	59.1	25.1	26.5	10.7	12.8
Thallium (dissolved)	µg/L	0.47	0.06 U	0.0184 U	0.25 U	0.03 U	0.0184 U	0.05 U
Zinc (dissolved)	µg/L	81	18.9	57.8	7.78 U	20.3	0.302 U	0.302 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-2	Pier25-2	Pier25-3	Pier25-3	Pier25-3	Pier25-3
Sample ID:	GW-081905-PIER25-2-013	GW-081905-PIER25-2-014	GW-081605-PIER25-3-001	GW-081605-PIER25-3-002	GW-081605-PIER25-3-003	GW-081605-PIER25-3-004
Sample Date:	8/19/2005	8/19/2005	8/16/2005	8/16/2005	8/16/2005	8/16/2005
Sample Depth:	126 to 129 ft bml	146 to 149 ft bml	36.7 to 39.7 ft bml	46.7 to 49.7 ft bml	56.7 to 59.7 ft bml	66.7 to 69.7 ft bml
elev_MLLW	-161.2 to -164.2	-181.2 to -184.2	-72.1 to -75.1	-82.1 to -85.1	-92.1 to -95.1	-102.1 to -105.1
elev_NGVD	-167.5 to -170.5	-187.5 to -190.5	-78.4 to -81.4	-88.4 to -91.4	-98.4 to -101.4	-108.4 to -111.4

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	2.74	0.334 U	0.334 U	4	0.334 U
Chromium (dissolved)	µg/L	50	1.76 U	1.99 U	3.6 U	2.99 U	2.25 U	2.46 U
Copper (dissolved)	µg/L	2.4	22 J	7.63 J	21.8 U	30.5 U	26.4 U	27.7 U
Lead (dissolved)	µg/L	8.1	0.035 U	0.05 U	0.0167 U	0.0167 U	0.0167 U	0.02 U
Mercury (dissolved)	µg/L	0.025	0.044 UJ	0.044 UJ	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	41.6	16	37.4 U	47.7 U	44.8 U	47.4 U
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.105 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	191	0.302 U	32 U	45.4 U	20.8 U	17.2 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-3	Pier25-3	Pier25-3	Pier25-3	Pier25-3	Pier25-3
Sample ID:	GW-081605-PIER25-3-005	GW-081605-PIER25-3-006	GW-081705-PIER25-3-007	GW-081705-PIER25-3-008	GW-081705-PIER25-3-009	GW-081705-PIER25-3-010
Sample Date:	8/16/2005	8/16/2005	8/17/2005	8/17/2005	8/17/2005	8/17/2005
Sample Depth:	76.7 to 79.7 ft bml	86.7 to 89.7 ft bml	96.7 to 99.7 ft bml	106.7 to 109.7 ft bml	116.7 to 119.7 ft bml	126.7 to 129.7 ft bml
elev_MLLW	-112.1 to -115.1	-122.1 to -125.1	-132.1 to -135.1	-142.1 to -145.1	-152.1 to -155.1	-162.1 to -165.1
elev_NGVD	-118.4 to -121.4	-128.4 to -131.4	-138.4 to -141.4	-148.4 to -151.4	-158.4 to -161.4	-168.4 to -171.4

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	7.08	1.15 J	0.334 U
Chromium (dissolved)	µg/L	50	1.94 U	2.68 U	1.69 U	4.15 U	2.82	2.23 J
Copper (dissolved)	µg/L	2.4	25.2 U	16.9 U	24.8 U	2.78 U	13.8	21.5
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	1.21 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	44.2 U	28.4 U	49.3 U	7.42 U	32.5	37.8
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	6.4 U	0.302 U	49.8 U	0.302 U	13.4	9.05

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-3	Pier25-4	Pier25-4	Pier25-4	Pier25-4	Pier25-4
Sample ID:	GW-081705-PIER25-3-011	GW-081205-PIER25-4-001	GW-081205-PIER25-4-002	GW-081205-PIER25-4-003	GW-081205-PIER25-4-004	GW-081305-PIER25-4-005
Sample Date:	8/17/2005	8/12/2005	8/12/2005	8/12/2005	8/12/2005	8/13/2005
Sample Depth:	136.7 to 139.7 ft bml	37.1 to 40.1 ft bml	47.1 to 50.1 ft bml	67.1 to 70.1 ft bml	77.1 to 80.1 ft bml	87.1 to 90.1 ft bml
elev_MLLW	-172.1 to -175.1	-72.1 to -75.1	-82.1 to -85.1	-102.1 to -105.1	-112.1 to -115.1	-122.1 to -125.1
elev_NGVD	-178.4 to -181.4	-78.4 to -81.4	-88.4 to -91.4	-108.4 to -111.4	-118.4 to -121.4	-128.4 to -131.4

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	2.51 U	4.24	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	2.59	2.58	1.96 J	1.7 J	1.94 J	2.14 J
Copper (dissolved)	µg/L	2.4	8.98	23.6 J	32.1 J	43.5 J	59 J	6.92 J
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	21.4	44.2	51.4	47.9	40.5	9.28
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.075 U	0.36 U	0.53 U	0.19 U	0.145 U
Zinc (dissolved)	µg/L	81	6.11	43.7 J	94.9 J	38.3 J	63.2 J	0.302 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-5	Pier25-5	Pier25-5	Pier25-5	Pier25-5	Pier25-5
Sample ID:	GW-081505-PIER25-5-001	GW-081505-PIER25-5-002	GW-081505-PIER25-5-003	GW-081605-PIER25-5-004	GW-081605-PIER25-5-005	GW-081605-PIER25-5-006
Sample Date:	8/15/2005	8/15/2005	8/15/2005	8/16/2005	8/16/2005	8/16/2005
Sample Depth:	32 to 35 ft bml	40.5 to 43.5 ft bml	50.5 to 53.5 ft bml	60.5 to 63.5 ft bml	60.5 to 63.5 ft bml	66.5 to 69.5 ft bml
elev_MLLW	-73.6 to -76.6	-82.1 to -85.1	-92.1 to -95.1	-102.1 to -105.1	-102.1 to -105.1	-108.1 to -111.1
elev_NGVD	-79.9 to -82.9	-88.4 to -91.4	-98.4 to -101.4	-108.4 to -111.4	-108.4 to -111.4	-114.4 to -117.4

Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.334 U	1.94 J	0.695 J	8.25	8.36	16.6
Chromium (dissolved)	µg/L	50	5.65 U	7.69	3.13 U	6.26 U	8.18	8.24
Copper (dissolved)	µg/L	2.4	32.5 J	16.9 J	22.9 J	1.98 J	0.905 J	1.25 J
Lead (dissolved)	µg/L	8.1	0.255 U	0.19 U	0.23 U	0.195 U	0.2 U	0.085 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	51.2 J	51.2 J	51.6 J	5.91	4.75 J	4.75 J
Thallium (dissolved)	µg/L	0.47	0.11 U	0.065 U	0.0184 U	0.05 U	0.04 U	0.03 U
Zinc (dissolved)	µg/L	81	53.5 J	63.4 J	58.8 J	6.06	4.53 J	5.13

Metals~Total	Units	CSI	WG					
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-6	Pier25-6	Pier25-6	Pier25-6	Pier25-6	Pier25-6
Sample ID:	GW-020306-PIER25-6-001	GW-020406-PIER25-6-002	GW-020406-PIER25-6-003	GW-020406-PIER25-6-004	GW-020406-PIER25-6-005	GW-081805-PIER25-6-001
Sample Date:	2/3/2006	2/4/2006	2/4/2006	2/4/2006	2/4/2006	8/18/2005
Sample Depth:	0.5 to 3.5 ft bml	11 to 14 ft bml	21 to 24 ft bml	31 to 34 ft bml	41 to 44 ft bml	45.9 to 48.9 ft bml
elev_MLLW	-35.8 to -38.8	-46.3 to -49.3	-56.3 to -59.3	-66.3 to -69.3	-76.3 to -79.3	-81.2 to -84.2
elev_NGVD	-42.1 to -45.1	-52.6 to -55.6	-62.6 to -65.6	-72.6 to -75.6	-82.6 to -85.6	-87.5 to -90.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	1 U	0.845 U	1.18 U	1.55 U	2.47 U	2.39 U
Copper (dissolved)	µg/L	2.4	26.2	27.1	27.8	25	22.2	7.86 U
Lead (dissolved)	µg/L	8.1	0.08 U	0.09 U	0.105 U	0.085 U	0.085 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 UJ
Nickel (dissolved)	µg/L	8.2	48.6 J	48.4 J	49.6 J	45.3 J	46 J	40.6 U
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.1 U
Zinc (dissolved)	µg/L	81	6.2	6.99	6.09	3.76 U	1.96 U	0.302 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-6	Pier25-6	Pier25-6	Pier25-6	Pier25-6	Pier25-6
Sample ID:	GW-081805-PIER25-6-002	GW-081805-PIER25-6-003	GW-081805-PIER25-6-004	GW-081805-PIER25-6-005	GW-081805-PIER25-6-006	GW-081805-PIER25-6-007
Sample Date:	8/18/2005	8/18/2005	8/18/2005	8/18/2005	8/18/2005	8/18/2005
Sample Depth:	55.9 to 58.9 ft bml	65.9 to 68.9 ft bml	75.9 to 78.9 ft bml	85.9 to 88.9 ft bml	95.9 to 98.9 ft bml	105.9 to 108.9 ft bml
elev_MLLW	-91.2 to -94.2	-101.2 to -104.2	-111.2 to -114.2	-121.2 to -124.2	-131.2 to -134.2	-141.2 to -144.2
elev_NGVD	-97.5 to -100.5	-107.5 to -110.5	-117.5 to -120.5	-127.5 to -130.5	-137.5 to -140.5	-147.5 to -150.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	8.67	0.334 U	2 U	0.334 U	16	0.334 U
Chromium (dissolved)	µg/L	50	2.83 U	3.93 U	0.89 U	1.58 U	2.67 U	1.05 U
Copper (dissolved)	µg/L	2.4	10.3 U	7.23 U	18.1 U	7.75 U	2.72 U	21.4 U
Lead (dissolved)	µg/L	8.1	0.0167 U	0.055 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 UJ	0.044 UJ	0.044 UJ	0.044 UJ	0.044 UJ	0.044 UJ
Nickel (dissolved)	µg/L	8.2	66.7 J	52.6 J	43.7 J	23.5 U	11.7 U	47.6 J
Thallium (dissolved)	µg/L	0.47	0.02 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	64.8 U	14.6 U	8.62 U	430

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-6	Pier25-7	Pier25-7	Pier25-7	Pier25-7	Pier25-7
Sample ID:	GW-081905-PIER25-6-008	GW-082405-PIER25-7-001	GW-082405-PIER25-7-002	GW-082405-PIER25-7-003	GW-082405-PIER25-7-004	GW-082405-PIER25-7-005
Sample Date:	8/19/2005	8/24/2005	8/24/2005	8/24/2005	8/24/2005	8/24/2005
Sample Depth:	115.9 to 118.9 ft bml	19.3 to 22.3 ft bml	29.3 to 32.3 ft bml	39.3 to 42.3 ft bml	49.3 to 52.3 ft bml	59.3 to 62.3 ft bml
elev_MLLW	-151.2 to -154.2	-61.2 to -64.2	-71.2 to -74.2	-81.2 to -84.2	-91.2 to -94.2	-101.2 to -104.2
elev_NGVD	-157.5 to -160.5	-67.5 to -70.5	-77.5 to -80.5	-87.5 to -90.5	-97.5 to -100.5	-107.5 to -110.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	3.53 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	2.25 U	3.75	3.77	3.49	3.31		5.33 U
Copper (dissolved)	µg/L	2.4	4.4 U	15.3 J	20.6 J	15.5 J	6.34 J		5.8 U
Lead (dissolved)	µg/L	8.1	0.0167 U	0.11 U	0.08 U	0.07 U	0.05 U		0.12 U
Mercury (dissolved)	µg/L	0.025	0.044 UJ	0.044 U	0.044 U	0.044 U	0.044 U		0.044 U
Nickel (dissolved)	µg/L	8.2	13.7 U	37.9	36.1	34.8	38.8		10.6 U
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U		0.0184 U
Zinc (dissolved)	µg/L	81	0.302 U	11.5 U	0.302 U	0.302 U	0.385 U		5.15 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-7	Pier25-7	Pier25-7	Pier25-7	Pier25-7	Pier25-7
Sample ID:	GW-082405-PIER25-7-006	GW-082405-PIER25-7-007	GW-082405-PIER25-7-008	GW-082405-PIER25-7-009	GW-082405-PIER25-7-010	GW-082505-PIER25-7-011
Sample Date:	8/24/2005	8/24/2005	8/24/2005	8/24/2005	8/24/2005	8/25/2005
Sample Depth:	69.3 to 72.3 ft bml	79.3 to 82.3 ft bml	89.3 to 92.3 ft bml	99.3 to 102.3 ft bml	109.3 to 112.3 ft bml	119.3 to 122.3 ft bml
elev_MLLW	-111.2 to -114.2	-121.2 to -124.2	-131.2 to -134.2	-141.2 to -144.2	-151.2 to -154.2	-161.2 to -164.2
elev_NGVD	-117.5 to -120.5	-127.5 to -130.5	-137.5 to -140.5	-147.5 to -150.5	-157.5 to -160.5	-167.5 to -170.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.42 U	12.8	1.17 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	7.66 U	7.44 U	2.31 U	2.48 U	1.83 U	4.57 U
Copper (dissolved)	µg/L	2.4	2.96 U	4.04 U	14 U	8.12 U	14.8 U	5.41 U
Lead (dissolved)	µg/L	8.1	0.13 U	0.17 U	0.12 U	0.12 U	0.1 U	0.15 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	3.25 U	5.08 U	50.9 U	45.7 U	44.2 U	6.94 U
Thallium (dissolved)	µg/L	0.47	0.095 U	0.055 U	0.025 U	0.03 U	0.02 U	0.02 U
Zinc (dissolved)	µg/L	81	1.11 U	2.09 U	18.7 U	11.7 U	8.43 U	2.82 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-7	Pier25-8	Pier25-8	Pier25-8	Pier25-8	Pier25-8
Sample ID:	GW-082505-PIER25-7-012	GW-082505-PIER25-8-001	GW-082505-PIER25-8-002	GW-082605-PIER25-8-003	GW-082605-PIER25-8-004	GW-082605-PIER25-8-005
Sample Date:	8/25/2005	8/25/2005	8/25/2005	8/26/2005	8/26/2005	8/26/2005
Sample Depth:	129.3 to 132.3 ft bml	4 to 7 ft bml	14 to 17 ft bml	24 to 27 ft bml	34 to 47 ft bml	34 to 47 ft bml
elev_MLLW	-171.2 to -174.2	-40.1 to -43.1	-50.1 to -53.1	-60.1 to -63.1	-70.1 to -83.1	-70.1 to -83.1
elev_NGVD	-177.5 to -180.5	-46.4 to -49.4	-56.4 to -59.4	-66.4 to -69.4	-76.4 to -89.4	-76.4 to -89.4 (Duplicate)

Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	3.37 U	0.334 U	0.74 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	2.23 J	2.19 U	2.02 U	2.49 U	2.68 U	2.47 U
Copper (dissolved)	µg/L	2.4	12.7 J	27 J	26.4 J	23.6 J	13 U	12.6 U
Lead (dissolved)	µg/L	8.1	0.22 U	0.125 U	0.08 U	0.035 U	0.065 U	0.03 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	26.6	35.3	33.9	41.3	33	32.9
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.165 U	0.09 U	0.0184 U	0.055 U	0.0184 U
Zinc (dissolved)	µg/L	81	3.45 U	1.68 U	4.84 U	0.775 U	0.302 U	0.302 U

Metals~Total	Units	CSI	WG					
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-8	Pier25-8	Pier25-8	Pier25-8	Pier25-8	Pier25-8
Sample ID:	GW-082605-PIER25-8-006	GW-082605-PIER25-8-007	GW-082605-PIER25-8-008	GW-082605-PIER25-8-009	GW-082605-PIER25-8-010	GW-082605-PIER25-8-011
Sample Date:	8/26/2005	8/26/2005	8/26/2005	8/26/2005	8/26/2005	8/26/2005
Sample Depth:	44 to 47 ft bml	54 to 57 ft bml	64 to 67 ft bml	74 to 77 ft bml	84 to 87 ft bml	94 to 97 ft bml
elev_MLLW	-80.1 to -83.1	-90.1 to -93.1	-100.1 to -103.1	-110.1 to -113.1	-120.1 to -123.1	-130.1 to -133.1
elev_NGVD	-86.4 to -89.4	-96.4 to -99.4	-106.4 to -109.4	-116.4 to -119.4	-126.4 to -129.4	-136.4 to -139.4

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	11	5.4 U	66.7
Chromium (dissolved)	µg/L	50	1.85 U	2.05 U	8.42	1.85 J	1.81 J	5.27
Copper (dissolved)	µg/L	2.4	19.2 J	19.6 J	10.8 J	10.7 J	14 J	5.21 U
Lead (dissolved)	µg/L	8.1	0.035 U	0.025 U	0.45 U	0.18 U	0.155 U	0.36 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	51	49.8	25.6	25	27.4	9.49 U
Thallium (dissolved)	µg/L	0.47	0.055 U	0.11 U	0.0184 U	0.07 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	0.302 U	1.88 U	13.1 J	0.302 U	0.302 U	0.302 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-8	Pier25-8	Pier25-8	Pier25-9	Pier25-9	Pier25-9
Sample ID:	GW-082605-PIER25-8-012	GW-082605-PIER25-8-013	GW-082605-PIER25-8-014	GW-102505-PIER25-9-001	GW-102505-PIER25-9-002	GW-102505-PIER25-9-003
Sample Date:	8/26/2005	8/26/2005	8/26/2005	10/25/2005	10/25/2005	10/25/2005
Sample Depth:	104 to 107 ft bml	114 to 117 ft bml	124 to 127 ft bml	31.5 to 34.5 ft bml	41.5 to 44.5 ft bml	41.5 to 44.5 ft bml
elev_MLLW	-140.1 to -143.1	-150.1 to -153.1	-160.1 to -163.1	-71.1 to -74.1	-81.1 to -84.1	-81.1 to -84.1
elev_NGVD	-146.4 to -149.4	-156.4 to -159.4	-166.4 to -169.4	-77.4 to -80.4	-87.4 to -90.4	-87.4 to -90.4 (Duplicate)

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	Pier25-8-012	Pier25-8-013	Pier25-8-014	Pier25-9-001	Pier25-9-002	Pier25-9-003
Arsenic (dissolved)	µg/L	0.14		0.334 U	0.345 U	-	133	211	205
Chromium (dissolved)	µg/L	50		2.12 J	2.37 J	-	5.8 U	5.4 U	4.1 U
Copper (dissolved)	µg/L	2.4		19.1 J	34.5 J	-	103 U	104 U	110 U
Lead (dissolved)	µg/L	8.1		0.295 U	0.155 U	-	6.4 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025		0.053 J	0.044 U	0.044 U	0.082 U	0.084 U	0.041 U
Nickel (dissolved)	µg/L	8.2		31.8	69.5	-	24.2 U	25.9 U	25.8 U
Thallium (dissolved)	µg/L	0.47		0.0184 U	0.0184 U	-	10.6	10.7	9.3 J
Zinc (dissolved)	µg/L	81		0.302 U	2.04 J	-	115 U	115 U	115 U

Metals~Total

Parameter	Units	CSI	WG	Pier25-8-012	Pier25-8-013	Pier25-8-014	Pier25-9-001	Pier25-9-002	Pier25-9-003
Arsenic	µg/L	0.14		-	-	2.07 U	-	-	-
Chromium	µg/L	50		-	-	1.91 J	-	-	-
Copper	µg/L	2.4		-	-	22.3 J	-	-	-
Lead	µg/L	8.1		-	-	0.125 U	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	48.3	-	-	-
Thallium	µg/L	0.47		-	-	0.0184 U	-	-	-
Zinc	µg/L	81		-	-	0.302 U	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-9	Pier25-9	Pier25-9	Pier25-9	Pier25-9	Pier25-9
Sample ID:	GW-102505-PIER25-9-004	GW-102505-PIER25-9-005	GW-102505-PIER25-9-006	GW-102505-PIER25-9-007	GW-102505-PIER25-9-008	GW-102505-PIER25-9-009
Sample Date:	10/25/2005	10/25/2005	10/25/2005	10/25/2005	10/25/2005	10/25/2005
Sample Depth:	51.5 to 54.5 ft bml	61.5 to 64.5 ft bml	71.5 to 74.5 ft bml	71.5 to 74.5 ft bml	81.5 to 84.5 ft bml	91.5 to 94.5 ft bml
elev_MLLW	-91.1 to -94.1	-101.1 to -104.1	-111.1 to -114.1	-111.1 to -114.1	-121.1 to -124.1	-131.1 to -134.1
elev_NGVD	-97.4 to -100.4	-107.4 to -110.4	-117.4 to -120.4	-117.4 to -120.4	-127.4 to -130.4	-137.4 to -140.4

(Duplicate)

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	Pier25-9 (004)	Pier25-9 (005)	Pier25-9 (006)	Pier25-9 (007)	Pier25-9 (008)	Pier25-9 (009)
Arsenic (dissolved)	µg/L	0.14		318	178	295	293	103	21.5 U
Chromium (dissolved)	µg/L	50		4.3 U	3.5 U	3.9 U	5.1 U	2.6 U	2.0 U
Copper (dissolved)	µg/L	2.4		107 U	98.5 U	139 U	138 U	124 U	15 U
Lead (dissolved)	µg/L	8.1		5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025		0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U
Nickel (dissolved)	µg/L	8.2		32.2 U	23.0 U	24.6 U	25.7 U	24.3 U	8.0 U
Thallium (dissolved)	µg/L	0.47		8.7 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Zinc (dissolved)	µg/L	81		115 U	115 U	115 U	115 U	115 U	115 U

Metals~Total

Parameter	Units	CSI	WG	Pier25-9 (004)	Pier25-9 (005)	Pier25-9 (006)	Pier25-9 (007)	Pier25-9 (008)	Pier25-9 (009)
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-9</i>	<i>Pier25-9</i>	<i>Pier25-9</i>	<i>Pier25-10</i>	<i>Pier25-10</i>	<i>Pier25-10</i>
<i>Sample ID:</i>	<i>GW-102605-PIER25-9-010</i>	<i>GW-102605-PIER25-9-011</i>	<i>GW-102605-PIER25-9-012</i>	<i>GW-102605-PIER25-10-001</i>	<i>GW-102705-PIER25-10-002</i>	<i>GW-102705-PIER25-10-003</i>
<i>Sample Date:</i>	<i>10/26/2005</i>	<i>10/26/2005</i>	<i>10/26/2005</i>	<i>10/26/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>
<i>Sample Depth:</i>	<i>101.5 to 104.5 ft bml</i>	<i>111.5 to 114.5 ft bml</i>	<i>121.5 to 124.5 ft bml</i>	<i>26 to 29 ft bml</i>	<i>36 to 39 ft bml</i>	<i>46 to 49 ft bml</i>
<i>elev_MLLW</i>	<i>-141.1 to -144.1</i>	<i>-151.1 to -154.1</i>	<i>-161.1 to -164.1</i>	<i>-61.17 to -64.17</i>	<i>-71.17 to -74.17</i>	<i>-81.17 to -84.17</i>
<i>elev_NGVD</i>	<i>-147.4 to -150.4</i>	<i>-157.4 to -160.4</i>	<i>-167.4 to -170.4</i>	<i>-67.5 to -70.5</i>	<i>-77.5 to -80.5</i>	<i>-87.5 to -90.5</i>

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	92.2	27.1 U	47.4	231	122	101
Chromium (dissolved)	µg/L	50	2.4 U	2.0 U	2.1 U	6.1 J	7.9 J	8.1 J
Copper (dissolved)	µg/L	2.4	55.5 U	15 U	41.0	114	131	214
Lead (dissolved)	µg/L	8.1	5.5 U	5.5 U	2.6 J	4.1	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	0.041 U	0.041 U	0.041 U	0.13 U	0.063 U	0.071 U
Nickel (dissolved)	µg/L	8.2	12.8 U	8.0 U	32.0	26.1	28.9	40.1
Thallium (dissolved)	µg/L	0.47	0.50 U	0.50 U	4.9 U	2.5 U	2.2 U	1.4 U
Zinc (dissolved)	µg/L	81	115 U	115 U	46 U	1100	52.7 J	46 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-10	Pier25-10	Pier25-10	Pier25-10	Pier25-10
Sample ID:	GW-102705-PIER25-10-004	GW-102705-PIER25-10-005	GW-102705-PIER25-10-006	GW-102705-PIER25-10-007	GW-102705-PIER25-10-008
Sample Date:	10/27/2005	10/27/2005	10/27/2005	10/27/2005	10/27/2005
Sample Depth:	56 to 59 ft bml	66 to 69 ft bml	76 to 79 ft bml	86 to 89 ft bml	96 to 99 ft bml
elev_MLLW	-91.17 to -94.17	-101.17 to -104.17	-111.17 to -114.17	-121.17 to -124.17	-131.17 to -134.17
elev_NGVD	-97.5 to -100.5	-107.5 to -110.5	-117.5 to -120.5	-127.5 to -130.5	-137.5 to -140.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	81.8	158	221	217 J	62.0 J
Chromium (dissolved)	µg/L	50	11.9	10.3	11.5	2.4 J	0.85 J
Copper (dissolved)	µg/L	2.4	399	246	116	107	12.6
Lead (dissolved)	µg/L	8.1	2.2 U	2.4 J	2.2 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	0.041 U	0.041 U	0.14 U	0.041 U	0.041 U
Nickel (dissolved)	µg/L	8.2	59.7	40.4	40.4	25.7	12.5
Thallium (dissolved)	µg/L	0.47	0.77 U	1.5 U	2.6 U	0.20 U	0.72 J
Zinc (dissolved)	µg/L	81	46 U	46 U	52.4 J	49.3 J	46 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-10</i>	<i>Pier25-10</i>	<i>Pier25-10</i>	<i>Pier25-11</i>	<i>Pier25-11</i>	
<i>Sample ID:</i>		<i>GW-102705-PIER25-10-009</i>	<i>GW-102805-PIER25-10-010</i>	<i>GW-102805-PIER25-10-011</i>	<i>GW-100605-PIER25-11-001</i>	<i>GW-100605-PIER25-11-002</i>	
<i>Sample Date:</i>		<i>10/27/2005</i>	<i>10/28/2005</i>	<i>10/28/2005</i>	<i>10/6/2005</i>	<i>10/6/2005</i>	
<i>Sample Depth:</i>		<i>96 to 99 ft bml</i>	<i>106 to 109 ft bml</i>	<i>116 to 119 ft bml</i>	<i>25 to 28 ft bml</i>	<i>35 to 38 ft bml</i>	
<i>elev_MLLW</i>		<i>-131.17 to -134.17</i>	<i>-141.17 to -144.17</i>	<i>-151.17 to -154.17</i>	<i>-59.88 to -62.88</i>	<i>-69.88 to -72.88</i>	
<i>elev_NGVD</i>		<i>-137.5 to -140.5</i>	<i>-147.5 to -150.5</i>	<i>-157.5 to -160.5</i>	<i>-66.2 to -69.2</i>	<i>-76.2 to -79.2</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Metals~Dissolved</i>							
Arsenic (dissolved)	µg/L	0.14	40.8	59.1 J	128 J	0.334 U	0.76 J
Chromium (dissolved)	µg/L	50	0.80 U	1.1 J	1.4 J	3.45 U	3.26 U
Copper (dissolved)	µg/L	2.4	12.1	59.2	71.2	10.5	10.2
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	2.2 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.041 U	0.041 U	0.041 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	3.2 U	13.5	31.0	23.7 J	46.4 J
Thallium (dissolved)	µg/L	0.47	0.20 U	0.20 U	0.20 U	0.1 U	0.075 U
Zinc (dissolved)	µg/L	81	46 U	46 U	46 U	0.302 U	0.302 U
<i>Metals~Total</i>							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-11</i>		<i>Pier25-11</i>		<i>Pier25-11</i>		<i>Pier25-11</i>		<i>Pier25-11</i>		
<i>Sample ID:</i>		<i>GW-100605-PIER25-11-003</i>		<i>GW-100605-PIER25-11-004</i>		<i>GW-100705-PIER25-11-006</i>		<i>GW-100705-PIER25-11-007</i>		<i>GW-100705-PIER25-11-008</i>		
<i>Sample Date:</i>		<i>10/6/2005</i>		<i>10/6/2005</i>		<i>10/7/2005</i>		<i>10/7/2005</i>		<i>10/7/2005</i>		
<i>Sample Depth:</i>		<i>35 to 38 ft bml</i>		<i>45 to 48 ft bml</i>		<i>65 to 68 ft bml</i>		<i>75 to 78 ft bml</i>		<i>85 to 88 ft bml</i>		
<i>elev_MLLW</i>		<i>-69.88 to -72.88</i>		<i>-79.88 to -82.88</i>		<i>-99.88 to -102.88</i>		<i>-109.88 to -112.88</i>		<i>-119.88 to -122.88</i>		
<i>elev_NGVD</i>		<i>-76.2 to -79.2</i>		<i>-86.2 to -89.2</i>		<i>-106.2 to -109.2</i>		<i>-116.2 to -119.2</i>		<i>-126.2 to -129.2</i>		
		<i>(Duplicate)</i>										
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>									
<i>Metals~Dissolved</i>												
Arsenic (dissolved)	µg/L	0.14		1.39 J		0.334 U		30.9		74.8		0.334 U
Chromium (dissolved)	µg/L	50		2.87 U		7.9 U		4.57 U		5.39 U		3.88 U
Copper (dissolved)	µg/L	2.4		11		1.73 J		2.48 J		5.08		4.75 U
Lead (dissolved)	µg/L	8.1		0.0167 U		0.075 U		0.0167 U		0.19 U		0.0167 U
Mercury (dissolved)	µg/L	0.025		0.044 U		0.044 U		0.044 U		0.044 U		0.044 U
Nickel (dissolved)	µg/L	8.2		45.6 J		6.32 J		5.9 J		14.2 J		24.4 J
Thallium (dissolved)	µg/L	0.47		0.05 U		0.05 U		0.045 U		0.045 U		0.0184 U
Zinc (dissolved)	µg/L	81		0.302 U		0.302 U		0.302 U		0.302 U		0.302 U
<i>Metals~Total</i>												
Arsenic	µg/L	0.14		-		-		-		-		-
Chromium	µg/L	50		-		-		-		-		-
Copper	µg/L	2.4		-		-		-		-		-
Lead	µg/L	8.1		-		-		-		-		-
Mercury	µg/L	0.025		-		-		-		-		-
Nickel	µg/L	8.2		-		-		-		-		-
Thallium	µg/L	0.47		-		-		-		-		-
Zinc	µg/L	81		-		-		-		-		-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-11</i>		<i>Pier25-11</i>		<i>Pier25-11</i>		<i>Pier25-12</i>		<i>Pier25-12</i>	
<i>Sample ID:</i>	<i>GW-100705-PIER25-11-009</i>		<i>GW-100705-PIER25-11-010</i>		<i>GW-100805-PIER25-11-011</i>		<i>GW-020106-PIER25-12-001</i>		<i>GW-020106-PIER25-12-002</i>	
<i>Sample Date:</i>	<i>10/7/2005</i>		<i>10/7/2005</i>		<i>10/8/2005</i>		<i>2/1/2006</i>		<i>2/1/2006</i>	
<i>Sample Depth:</i>	<i>95 to 98 ft bml</i>		<i>105 to 108 ft bml</i>		<i>115 to 118 ft bml</i>		<i>0 to 3 ft bml</i>		<i>10 to 13 ft bml</i>	
<i>elev_MLLW</i>	<i>-129.88 to -132.88</i>		<i>-139.88 to -142.88</i>		<i>-149.88 to -152.88</i>		<i>-39.7 to -42.7</i>		<i>-49.7 to -52.7</i>	
<i>elev_NGVD</i>	<i>-136.2 to -139.2</i>		<i>-146.2 to -149.2</i>		<i>-156.2 to -159.2</i>		<i>-46 to -49</i>		<i>-56 to -59</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>							
<i>Metals~Dissolved</i>										
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	1.54 U		
Chromium (dissolved)	µg/L	50	5.63 U	4.47 U	2.63 U	1.32 U	0.9 U			
Copper (dissolved)	µg/L	2.4	1.86 U	4.34 U	5.21 U	24 U	24.6 U			
Lead (dissolved)	µg/L	8.1	0.02 U	0.045 U	0.0167 U	0.08 U	0.0167 U			
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U			
Nickel (dissolved)	µg/L	8.2	7.29 U	17.3 J	20.6 J	40.1 U	43.9 U			
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.15 U	0.02 U			
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	0.302 U	1.51 U	1.15 U			
<i>Metals~Total</i>										
Arsenic	µg/L	0.14	-	-	-	-	-			
Chromium	µg/L	50	-	-	-	-	-			
Copper	µg/L	2.4	-	-	-	-	-			
Lead	µg/L	8.1	-	-	-	-	-			
Mercury	µg/L	0.025	-	-	-	-	-			
Nickel	µg/L	8.2	-	-	-	-	-			
Thallium	µg/L	0.47	-	-	-	-	-			
Zinc	µg/L	81	-	-	-	-	-			

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

		Pier25-12	Pier25-12	Pier25-12	Pier25-12	Pier25-12
		GW-020106-PIER25-12-003	GW-020106-PIER25-12-004	GW-020106-PIER25-12-005	GW-020106-PIER25-12-006	GW-020106-PIER25-12-007
		2/1/2006	2/1/2006	2/1/2006	2/1/2006	2/1/2006
		10 to 13 ft bml	20 to 23 ft bml	30 to 33 ft bml	40 to 43 ft bml	50 to 53 ft bml
		elev_MLLW -49.7 to -52.7	elev_MLLW -59.7 to -62.7	elev_MLLW -69.7 to -72.7	elev_MLLW -79.7 to -82.7	elev_MLLW -89.7 to -92.7
		elev_NGVD -56 to -59 (Duplicate)	elev_NGVD -66 to -69	elev_NGVD -76 to -79	elev_NGVD -86 to -89	elev_NGVD -96 to -99
Parameters	Units	CSI	WG			
Metals~Dissolved						
Arsenic (dissolved)	µg/L	0.14	0.334 U	4400	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	0.225 U	413	0.2 U	0.2 U
Copper (dissolved)	µg/L	2.4	24.5 U	493	12	12.2
Lead (dissolved)	µg/L	8.1	0.08 U	1100	0.0167 U	0.03 U
Mercury (dissolved)	µg/L	0.025	0.044 U		0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	41.7 U	20 U	74.4 J	83.5 J
Thallium (dissolved)	µg/L	0.47	0.0184 U	100 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	26.2 U	15 U	0.302 U	0.302 U
Metals~Total						
Arsenic	µg/L	0.14	-	-	-	-
Chromium	µg/L	50	-	-	-	-
Copper	µg/L	2.4	-	-	-	-
Lead	µg/L	8.1	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-
Zinc	µg/L	81	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-12	Pier25-12	Pier25-12	Pier25-13	Pier25-13
Sample ID:	GW-020106-PIER25-12-008	GW-020106-PIER25-12-009	GW-020106-PIER25-12-010	GW-020206-PIER25-13-001	GW-020206-PIER25-13-002
Sample Date:	2/1/2006	2/1/2006	2/1/2006	2/2/2006	2/2/2006
Sample Depth:	60 to 63 ft bml	70 to 73 ft bml	80 to 83 ft bml	0 to 3 ft bml	10 to 13 ft bml
elev_MLLW	-99.7 to -102.7	-109.7 to -112.7	-119.7 to -122.7	-42.8 to -45.8	-52.8 to -55.8
elev_NGVD	-106 to -109	-116 to -119	-126 to -129	-49.1 to -52.1	-59.1 to -62.1

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	3.34 U	14.4 J	496	175	193
Chromium (dissolved)	µg/L	50	167	336	235	6.9 U	7.6 U
Copper (dissolved)	µg/L	2.4	55.8	68.2	450	111	120
Lead (dissolved)	µg/L	8.1	0.25 U	1.95 J	0.7 J	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	0.44 U	0.44 U	1.31 J	0.22 U	0.077 U
Nickel (dissolved)	µg/L	8.2	329 J	339 J	449 J	15.8 U	18.6 U
Thallium (dissolved)	µg/L	0.47	0.184 U	0.184 U	0.184 U	0.20 U	0.20 U
Zinc (dissolved)	µg/L	81	80.1	81.7	329	130 U	984

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>
<i>Sample ID:</i>			<i>GW-020206-PIER25-13-003</i>	<i>GW-020206-PIER25-13-004</i>	<i>GW-020206-PIER25-13-005</i>	<i>GW-020206-PIER25-13-006</i>	<i>GW-020206-PIER25-13-007</i>
<i>Sample Date:</i>			<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>
<i>Sample Depth:</i>			<i>20 to 23 ft bml</i>	<i>30 to 33 ft bml</i>	<i>30 to 33 ft bml</i>	<i>40 to 43 ft bml</i>	<i>50 to 53 ft bml</i>
<i>elev_MLLW</i>			<i>-62.8 to -65.8</i>	<i>-72.8 to -75.8</i>	<i>-72.8 to -75.8</i>	<i>-82.8 to -85.8</i>	<i>-92.8 to -95.8</i>
<i>elev_NGVD</i>			<i>-69.1 to -72.1</i>	<i>-79.1 to -82.1</i>	<i>-79.1 to -82.1</i>	<i>-89.1 to -92.1</i>	<i>-99.1 to -102.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>				
<i>Metals~Dissolved</i>							
Arsenic (dissolved)	µg/L	0.14	98.4	157	162	154 U	123 U
Chromium (dissolved)	µg/L	50	8.2 U	22.6 U	19.5 U	153 U	206 U
Copper (dissolved)	µg/L	2.4	149	273	282	416	699
Lead (dissolved)	µg/L	8.1	2.3 U	2.2 U	2.2 U	22 U	22 U
Mercury (dissolved)	µg/L	0.025	0.072 U	0.082 U	0.082 U	0.23 U	0.58 U
Nickel (dissolved)	µg/L	8.2	28.5 U	39.6	38.4	69.0 U	123 U
Thallium (dissolved)	µg/L	0.47	0.22 U	27.6 U	9.1 U	39.3 U	11.2 U
Zinc (dissolved)	µg/L	81	291 U	46 U	46 U	460 U	460 U
<i>Metals~Total</i>							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-13	Pier25-13	Pier25-13	Pier25-13	Pier25-13
Sample ID:	GW-020206-PIER25-13-008	GW-020306-PIER25-13-009	GW-020306-PIER25-13-010	GW-020306-PIER25-13-011	GW-020306-PIER25-13-012
Sample Date:	2/2/2006	2/3/2006	2/3/2006	2/3/2006	2/3/2006
Sample Depth:	60 to 63 ft bml	70 to 73 ft bml	80 to 83 ft bml	90 to 93 ft bml	100 to 103 ft bml
elev_MLLW	-102.8 to -105.8	-112.8 to -115.8	-122.8 to -125.8	-132.8 to -135.8	-142.8 to -145.8
elev_NGVD	-109.1 to -112.1	-119.1 to -122.1	-129.1 to -132.1	-139.1 to -142.1	-149.1 to -152.1

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	276 U	243 U	18 U	41.8 U	115
Chromium (dissolved)	µg/L	50	68.0 U	457 U	8.0 U	3.8 U	5.1 U
Copper (dissolved)	µg/L	2.4	386	405	60 U	20.2 U	40.7
Lead (dissolved)	µg/L	8.1	22 U	22 U	22 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	3.0 U	0.41 U	1.0 U	0.24 U	0.089 U
Nickel (dissolved)	µg/L	8.2	141 U	304 U	32 U	4.0 U	7.6 U
Thallium (dissolved)	µg/L	0.47	7.6 U	7.1 U	8.9 U	0.59 U	0.49 U
Zinc (dissolved)	µg/L	81	460 U	460 U	460 U	46 U	46 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-13</i>	<i>Pier25-14</i>	<i>Pier25-14</i>	<i>Pier25-14</i>	<i>Pier25-14</i>	
<i>Sample ID:</i>		<i>GW-020306-PIER25-13-013</i>	<i>GW-111605-PIER25-14-001</i>	<i>GW-111605-PIER25-14-002</i>	<i>GW-111605-PIER25-14-003</i>	<i>GW-111605-PIER25-14-004</i>	
<i>Sample Date:</i>		<i>2/3/2006</i>	<i>11/16/2005</i>	<i>11/16/2005</i>	<i>11/16/2005</i>	<i>11/16/2005</i>	
<i>Sample Depth:</i>		<i>110 to 113 ft bml</i>	<i>24.1 to 27.1 ft bml</i>	<i>34.1 to 37.1 ft bml</i>	<i>44.1 to 47.1 ft bml</i>	<i>54.1 to 57.1 ft bml</i>	
<i>elev_MLLW</i>		<i>-152.8 to -155.8</i>	<i>-59.9 to -62.9</i>	<i>-69.9 to -72.9</i>	<i>-79.9 to -82.9</i>	<i>-89.9 to -92.9</i>	
<i>elev_NGVD</i>		<i>-159.1 to -162.1</i>	<i>-66.2 to -69.2</i>	<i>-76.2 to -79.2</i>	<i>-86.2 to -89.2</i>	<i>-96.2 to -99.2</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Metals~Dissolved</i>							
Arsenic (dissolved)	µg/L	0.14	51.3 U	0.334 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	5.3 U	20.5 U	18.5 U	21.2 U	14.9 U
Copper (dissolved)	µg/L	2.4	25.8 U	8.01 U	3.67 U	4.58 U	19.6
Lead (dissolved)	µg/L	8.1	2.2 U	0.1 U	0.28 U	0.175 U	0.08 U
Mercury (dissolved)	µg/L	0.025	0.088 U	0.044 U	0.044 U	0.076 U	0.044 U
Nickel (dissolved)	µg/L	8.2	7.8 U	24.6	11.3	11.4	32.9
Thallium (dissolved)	µg/L	0.47	0.49 U	0.67 U	0.455 U	0.355 U	0.425 U
Zinc (dissolved)	µg/L	81	46 U	5.79 U	7.58 U	5.37 U	7.74 U
<i>Metals~Total</i>							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-14</i>	<i>Pier25-14</i>	<i>Pier25-14</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	
<i>Sample ID:</i>		<i>GW-111605-PIER25-14-005</i>	<i>GW-111605-PIER25-14-006</i>	<i>GW-111605-PIER25-14-007</i>	<i>GW-122205-PIER25-15-001</i>	<i>GW-122205-PIER25-15-002</i>	
<i>Sample Date:</i>		<i>11/16/2005</i>	<i>11/16/2005</i>	<i>11/16/2005</i>	<i>12/22/2005</i>	<i>12/22/2005</i>	
<i>Sample Depth:</i>		<i>54.1 to 57.1 ft bml</i>	<i>64.1 to 67.1 ft bml</i>	<i>74.1 to 77.1 ft bml</i>	<i>4.4 to 7.4 ft bml</i>	<i>14.4 to 17.4 ft bml</i>	
<i>elev_MLLW</i>		<i>-89.9 to -92.9</i>	<i>-99.9 to -102.9</i>	<i>-109.9 to -112.9</i>	<i>-35.3 to -38.3</i>	<i>-45.3 to -48.3</i>	
<i>elev_NGVD</i>		<i>-96.2 to -99.2</i>	<i>-106.2 to -109.2</i>	<i>-116.2 to -119.2</i>	<i>-41.6 to -44.6</i>	<i>-51.6 to -54.6</i>	
		<i>(Duplicate)</i>					
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Metals~Dissolved</i>							
Arsenic (dissolved)	µg/L	0.14	0.334 U	5.86	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	14.4 U	12.7 U	12.3 U	3.04 U	3.48 U
Copper (dissolved)	µg/L	2.4	22.2	2.62 U	14.3	11.1	10.9
Lead (dissolved)	µg/L	8.1	0.06 U	0.225 U	0.2 U	0.2 U	0.17 U
Mercury (dissolved)	µg/L	0.025	0.151 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	36.2	3.53 U	43.4	22.8 J	23.3 J
Thallium (dissolved)	µg/L	0.47	0.305 U	0.28 U	0.245 U	0.0184 U	0.07 U
Zinc (dissolved)	µg/L	81	16.6 U	7.76 U	15.4 U	0.385 J	0.302 U
<i>Metals~Total</i>							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-15	Pier25-15	Pier25-15	Pier25-15	Pier25-15
Sample ID:	GW-122205-PIER25-15-003	GW-113005-PIER25-15-001	GW-113005-PIER25-15-002	GW-113005-PIER25-15-003	GW-113005-PIER25-15-004
Sample Date:	12/22/2005	11/30/2005	11/30/2005	11/30/2005	11/30/2005
Sample Depth:	24.4 to 27.4 ft bml	29 to 32 ft bml	39 to 42 ft bml	49 to 52 ft bml	59 to 62 ft bml
elev_MLLW	-55.3 to -58.3	-59.9 to -62.9	-69.9 to -72.9	-79.9 to -82.9	-89.9 to -92.9
elev_NGVD	-61.6 to -64.6	-66.2 to -69.2	-76.2 to -79.2	-86.2 to -89.2	-96.2 to -99.2

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	Pier25-15 (GW-122205-PIER25-15-003)	Pier25-15 (GW-113005-PIER25-15-001)	Pier25-15 (GW-113005-PIER25-15-002)	Pier25-15 (GW-113005-PIER25-15-003)	Pier25-15 (GW-113005-PIER25-15-004)
Arsenic (dissolved)	µg/L	0.14	0.334 U	28.6	28.0	112	133	
Chromium (dissolved)	µg/L	50	3.53 U	19.3 U	15.6 U	12.0 U	11.1 U	
Copper (dissolved)	µg/L	2.4	5.48	198	56.6	22.8 J	22.3 J	
Lead (dissolved)	µg/L	8.1	0.285 U	14.7	5.5 U	5.5 U	5.5 U	
Mercury (dissolved)	µg/L	0.025	0.044 U	0.31 U	0.37 U	1.5 U	0.39 U	
Nickel (dissolved)	µg/L	8.2	26 J	41.2	9.6 J	8.1 J	17.2 J	
Thallium (dissolved)	µg/L	0.47	0.04 U	0.50 U	0.50 U	0.50 U	0.50 U	
Zinc (dissolved)	µg/L	81	4.49 J	200 J	115 U	115 U	115 U	

Metals~Total

Parameter	Units	CSI	WG	Pier25-15 (GW-122205-PIER25-15-003)	Pier25-15 (GW-113005-PIER25-15-001)	Pier25-15 (GW-113005-PIER25-15-002)	Pier25-15 (GW-113005-PIER25-15-003)	Pier25-15 (GW-113005-PIER25-15-004)
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-15	Pier25-15	Pier25-16	Pier25-16	Pier25-16
Sample ID:	GW-120105-PIER25-15-005	GW-120105-PIER25-15-006	GW-121205-PIER25-16-001	GW-121205-PIER25-16-002	GW-121205-PIER25-16-003
Sample Date:	12/1/2005	12/1/2005	12/12/2005	12/12/2005	12/12/2005
Sample Depth:	69 to 72 ft bml	82 to 85 ft bml	2 to 5 ft bml	7 to 10 ft bml	14.4 to 17.4 ft bml
elev_MLLW	-99.9 to -102.9	-112.9 to -115.9	-37.5 to -40.5	-42.5 to -45.5	-49.9 to -52.9
elev_NGVD	-106.2 to -109.2	-119.2 to -122.2	-43.8 to -46.8	-48.8 to -51.8	-56.2 to -59.2

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	158	46.3	3.05 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	11.5 U	12.6 U	2.57	1.98 U	1.96 U
Copper (dissolved)	µg/L	2.4	15 U	33.2	10.9	12.3	12.9
Lead (dissolved)	µg/L	8.1	5.5 U	5.5 U	0.17 U	0.46 U	0.17 U
Mercury (dissolved)	µg/L	0.025	0.25 J	1.9	0.044 U	0.139 U	0.044 U
Nickel (dissolved)	µg/L	8.2	8.5 J	24.7 J	25.2 J	30.7 J	29.6 J
Thallium (dissolved)	µg/L	0.47	0.50 U	0.50 U	0.0184 U	0.985 J	0.035 U
Zinc (dissolved)	µg/L	81	115 U	115 U	0.302 U	12.1	0.302 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-16	Pier25-16	Pier25-16	Pier25-16	Pier25-16
Sample ID:	GW-112205-PIER25-16-007	GW-112205-PIER25-16-008	GW-112205-PIER25-16-009	GW-112205-PIER25-16-010	GW-112205-PIER25-16-011
Sample Date:	11/22/2005	11/22/2005	11/22/2005	11/22/2005	11/22/2005
Sample Depth:	74.4 to 77.4 ft bml	84.4 to 87.4 ft bml	94.4 to 97.4 ft bml	104.4 to 107.4 ft bml	114.4 to 117.4 ft bml
elev_MLLW	-109.9 to -112.9	-119.9 to -122.9	-129.9 to -132.9	-139.9 to -142.9	-149.9 to -152.9
elev_NGVD	-116.2 to -119.2	-126.2 to -129.2	-136.2 to -139.2	-146.2 to -149.2	-156.2 to -159.2

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	10.2	22.9	4.56 U	5.38 U	1.43 U
Chromium (dissolved)	µg/L	50	15.1 U	5.19 U	5.24 U	4.46 U	4.52 U
Copper (dissolved)	µg/L	2.4	13.8	7.45 U	7.2 U	13.9	8.31 U
Lead (dissolved)	µg/L	8.1	0.405 U	3 U	0.23 U	0.27 U	0.36 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.074 J	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	39.3 J	14 U	17.6 U	33.4 J	28.6 J
Thallium (dissolved)	µg/L	0.47	0.06 U	0.025 U	0.035 U	0.025 U	0.035 U
Zinc (dissolved)	µg/L	81	9.77 U	5.64 U	5.41 U	10.7 U	24.4 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-17	Pier25-17	Pier25-17	Pier25-17	Pier25-17
Sample ID:	GW-121205-PIER25-17-001	GW-121205-PIER25-17-002	GW-121205-PIER25-17-003	GW-111705-PIER25-17-001	GW-111705-PIER25-17-003
Sample Date:	12/12/2005	12/12/2005	12/12/2005	11/17/2005	11/17/2005
Sample Depth:	6.1 to 9.1 ft bml	15.5 to 18.5 ft bml	25.5 to 28.5 ft bml	33.7 to 36.7 ft bml	53.7 to 56.7 ft bml
elev_MLLW	-43.6 to -46.6	-53 to -56	-63 to -66	-71.2 to -74.2	-91.2 to -94.2
elev_NGVD	-49.9 to -52.9	-59.3 to -62.3	-69.3 to -72.3	-77.5 to -80.5	-97.5 to -100.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	2.23 U	2.04 U	64.7	4.5 U
Chromium (dissolved)	µg/L	50	1.53 U	1.54 U	0.255 U	14.1 U	14.6 U
Copper (dissolved)	µg/L	2.4	13.3	12.7	7.02	229	112
Lead (dissolved)	µg/L	8.1	0.27 U	0.31 U	0.23 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.154 U	0.044 U	0.20 U	0.41 U
Nickel (dissolved)	µg/L	8.2	28.7 J	27.3 J	40.2 J	37.9 U	13.0 U
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.50 U	0.50 U
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	0.302 U	115 U	115 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-17	Pier25-17	Pier25-17	Pier25-17	Pier25-17
Sample ID:	GW-111705-PIER25-17-004	GW-111705-PIER25-17-005	GW-111705-PIER25-17-006	GW-111705-PIER25-17-007	GW-112105-PIER25-17-008
Sample Date:	11/17/2005	11/17/2005	11/17/2005	11/17/2005	11/21/2005
Sample Depth:	63.7 to 66.7 ft bml	73.7 to 76.7 ft bml	83.7 to 86.7 ft bml	93.7 to 96.7 ft bml	103.7 to 106.7 ft bml
elev_MLLW	-101.2 to -104.2	-111.2 to -114.2	-121.2 to -124.2	-131.2 to -134.2	-141.2 to -144.2
elev_NGVD	-107.5 to -110.5	-117.5 to -120.5	-127.5 to -130.5	-137.5 to -140.5	-147.5 to -150.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	4.5 U	16.0	18.1	12.6	14.5
Chromium (dissolved)	µg/L	50	19.8 U	191	10.1 U	5.4 U	6.7 U
Copper (dissolved)	µg/L	2.4	97.0	92.2	102	22.4 J	28.6
Lead (dissolved)	µg/L	8.1	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025	0.41 U	0.41 U	0.97 U	0.11 U	0.082 U
Nickel (dissolved)	µg/L	8.2	13.6 J	72.6	14.0 J	8.0 U	13.8 J
Thallium (dissolved)	µg/L	0.47	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Zinc (dissolved)	µg/L	81	115 U	115 U	115 U	115 U	115 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>
<i>Sample ID:</i>			<i>GW-120805-PIER25-18-001</i>	<i>GW-120805-PIER25-18-002</i>	<i>GW-120805-PIER25-18-003</i>	<i>GW-120805-PIER25-18-004</i>	<i>GW-120805-PIER25-18-005</i>
<i>Sample Date:</i>			12/8/2005	12/8/2005	12/8/2005	12/8/2005	12/9/2005
<i>Sample Depth:</i>			2 to 5 ft bml	12 to 15 ft bml	12 to 15 ft bml	22 to 25 ft bml	32 to 35 ft bml
<i>elev_MLLW</i>			-36.5 to -39.5	-46.5 to -49.5	-46.5 to -49.5	-56.5 to -59.5	-66.5 to -69.5
<i>elev_NGVD</i>			-42.8 to -45.8	-52.8 to -55.8	-52.8 to -55.8	-62.8 to -65.8	-72.8 to -75.8
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>				
<i>Metals~Dissolved</i>							
Arsenic (dissolved)	µg/L	0.14	168	90.4 J	194 J	60.5	41.7
Chromium (dissolved)	µg/L	50	16.1 U	18.7 U	21.0 U	20.3 U	19.2 U
Copper (dissolved)	µg/L	2.4	124	126	122	36.1	52.6
Lead (dissolved)	µg/L	8.1	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Mercury (dissolved)	µg/L	0.025	0.38 U	0.093 U	0.041 U	0.56 U	0.33 U
Nickel (dissolved)	µg/L	8.2	27.5 U	23.0 U	23.0 U	0.16 U	12.2 U
Thallium (dissolved)	µg/L	0.47	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc (dissolved)	µg/L	81	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
<i>Metals~Total</i>							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-18	Pier25-18	Pier25-18	Pier25-18	Pier25-18
Sample ID:	GW-120905-PIER25-18-006	GW-120905-PIER25-18-007	GW-120905-PIER25-18-008	GW-120905-PIER25-18-009	GW-120905-PIER25-18-010
Sample Date:	12/9/2005	12/9/2005	12/9/2005	12/9/2005	12/9/2005
Sample Depth:	42 to 45 ft bml	52 to 55 ft bml	62 to 65 ft bml	72 to 75 ft bml	82 to 85 ft bml
elev_MLLW	-76.5 to -79.5	-86.5 to -89.5	-96.5 to -99.5	-106.5 to -109.5	-116.5 to -119.5
elev_NGVD	-82.8 to -85.8	-92.8 to -95.8	-102.8 to -105.8	-112.8 to -115.8	-122.8 to -125.8

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	13.5	6.2 J	29.1	23.4	36.7
Chromium (dissolved)	µg/L	50	12.5 U	10.8 U	11.8 U	9.7 U	50.9 U
Copper (dissolved)	µg/L	2.4	78.0	0.30 U	82.2	91.7	87.9
Lead (dissolved)	µg/L	8.1	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Mercury (dissolved)	µg/L	0.025	0.55 U	0.041 U	0.041 U	0.041 U	0.041 U
Nickel (dissolved)	µg/L	8.2	9.9 U	0.16 U	9.9 U	13.2 U	39.8 U
Thallium (dissolved)	µg/L	0.47	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc (dissolved)	µg/L	81	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-18	Pier25-18	Pier25-18	Pier25-18	Pier25-19
Sample ID:	GW-120905-PIER25-18-011	GW-120905-PIER25-18-012	GW-120905-PIER25-18-013	GW-120905-PIER25-18-014	GW-120705-PIER25-19-001
Sample Date:	12/9/2005	12/9/2005	12/9/2005	12/9/2005	12/7/2005
Sample Depth:	92 to 95 ft bml	102 to 105 ft bml	112 to 115 ft bml	122 to 125 ft bml	2.6 to 5.6 ft bml
elev_MLLW	-126.5 to -129.5	-136.5 to -139.5	-146.5 to -149.5	-156.5 to -159.5	-39.2 to -42.2
elev_NGVD	-132.8 to -135.8	-142.8 to -145.8	-152.8 to -155.8	-162.8 to -165.8	-45.5 to -48.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	40.1	24.3	28.1	27.9	0.36 J
Chromium (dissolved)	µg/L	50	152	4.4 U	4.6 U	4.1 U	7.35 U
Copper (dissolved)	µg/L	2.4	108	24.5	24.1	24.9	11.2
Lead (dissolved)	µg/L	8.1	0.11 U	0.11 U	0.11 U	0.11 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.041 U	0.041 U	0.041 U	0.041 U	0.044 U
Nickel (dissolved)	µg/L	8.2	78.7	9.9 J	11.2 J	6.1 J	25 J
Thallium (dissolved)	µg/L	0.47	0.01 U	0.01 U	0.01 U	0.01 U	0.08 U
Zinc (dissolved)	µg/L	81	2.3 U	2.3 U	2.3 U	2.3 U	0.302 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-19	Pier25-19	Pier25-19	Pier25-19	Pier25-19
Sample ID:	GW-120705-PIER25-19-002	GW-120705-PIER25-19-003	GW-120705-PIER25-19-004	GW-120705-PIER25-19-005	GW-120705-PIER25-19-006
Sample Date:	12/7/2005	12/7/2005	12/7/2005	12/7/2005	12/7/2005
Sample Depth:	12.6 to 15.6 ft bml	22.6 to 25.6 ft bml	32.6 to 35.6 ft bml	42.6 to 45.6 ft bml	52.6 to 55.6 ft bml
elev_MLLW	-49.2 to -52.2	-59.2 to -62.2	-69.2 to -72.2	-79.2 to -82.2	-89.2 to -92.2
elev_NGVD	-55.5 to -58.5	-65.5 to -68.5	-75.5 to -78.5	-85.5 to -88.5	-95.5 to -98.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	2.22 J	2.57	2.89	4.56	2.3 J
Chromium (dissolved)	µg/L	50	9.77 U	5.31 U	5.9 U	11.6 U	3.5 U
Copper (dissolved)	µg/L	2.4	7.5 U	11.7 U	10.3 U	11 U	15.6 U
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.072 J	0.044 U	0.044 U	0.111 J
Nickel (dissolved)	µg/L	8.2	27 J	34.5 J	49.7 J	58.1 J	33.5 J
Thallium (dissolved)	µg/L	0.47	0.025 U	0.02 U	0.025 U	0.035 U	0.04 U
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	0.302 U	0.302 U	0.302 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-19	Pier25-19	Pier25-19	Pier25-19	Pier25-19
Sample ID:	GW-120705-PIER25-19-007	GW-120705-PIER25-19-008	GW-120705-PIER25-19-009	GW-120805-PIER25-19-010	GW-120805-PIER25-19-011
Sample Date:	12/7/2005	12/7/2005	12/7/2005	12/8/2005	12/8/2005
Sample Depth:	62.6 to 65.6 ft bml	72.6 to 75.6 ft bml	82.6 to 85.6 ft bml	92.6 to 95.6 ft bml	102.6 to 105.6 ft bml
elev_MLLW	-99.2 to -102.2	-109.2 to -112.2	-119.2 to -122.2	-129.2 to -132.2	-139.2 to -142.2
elev_NGVD	-105.5 to -108.5	-115.5 to -118.5	-125.5 to -128.5	-135.5 to -138.5	-145.5 to -148.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	12.7	0.334 U	3.8	5.83	0.334 U
Chromium (dissolved)	µg/L	50	97.4	15.3 U	3.04 U	4.13 U	4.5 U
Copper (dissolved)	µg/L	2.4	12.8 U	16.2 U	10.7 U	5.78 U	6.48 U
Lead (dissolved)	µg/L	8.1	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0167 U
Mercury (dissolved)	µg/L	0.025	0.132 J	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	65.4 J	34.4 J	27.7 J	12.6 U	17.8 U
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.12 U	0.02 U	0.0184 U	0.02 U
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	0.302 U	0.302 U	0.302 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-19	Pier25-20	Pier25-20	Pier25-20	Pier25-20
Sample ID:	GW-120805-PIER25-19-012	GW-120605-PIER25-20-001	GW-120605-PIER25-20-002	GW-120605-PIER25-20-003	GW-120605-PIER25-20-004
Sample Date:	12/8/2005	12/6/2005	12/6/2005	12/6/2005	12/6/2005
Sample Depth:	112.6 to 115.6 ft bml	2 to 5 ft bml	12 to 15 ft bml	12 to 15 ft bml	20 to 23 ft bml
elev_MLLW	-149.2 to -152.2	-31.9 to -34.9	-41.9 to -44.9	-41.9 to -44.9	-49.9 to -52.9
elev_NGVD	-155.5 to -158.5	-38.2 to -41.2	-48.2 to -51.2	-48.2 to -51.2	-56.2 to -59.2
				(Duplicate)	

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	2.86	84.1	125	140	128
Chromium (dissolved)	µg/L	50	4.69 U	11.1 U	11.8 U	11.9 J	15.1 U
Copper (dissolved)	µg/L	2.4	12.6 U	102	101	97.2	104
Lead (dissolved)	µg/L	8.1	0.0167 U	0.11 U	0.11 U	0.11 U	0.11 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.41 U	0.20 U	0.090 J	0.041 U
Nickel (dissolved)	µg/L	8.2	39 J	17.4 J	15.7 J	15.9 J	23.1 J
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc (dissolved)	µg/L	81	0.302 U	2.3 U	2.3 U	2.3 U	2.3 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-20	Pier25-20	Pier25-20	Pier25-20	Pier25-20
Sample ID:	GW-120605-PIER25-20-005	GW-120605-PIER25-20-006	GW-120605-PIER25-20-007	GW-120605-PIER25-20-008	GW-120605-PIER25-20-009
Sample Date:	12/6/2005	12/6/2005	12/6/2005	12/6/2005	12/6/2005
Sample Depth:	30 to 33 ft bml	40 to 43 ft bml	50 to 53 ft bml	60 to 63 ft bml	70 to 73 ft bml
elev_MLLW	-59.9 to -62.9	-69.9 to -72.9	-79.9 to -82.9	-89.9 to -92.9	-99.9 to -102.9
elev_NGVD	-66.2 to -69.2	-76.2 to -79.2	-86.2 to -89.2	-96.2 to -99.2	-106.2 to -109.2

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	114	91.9	56.7	78.5	91.2
Chromium (dissolved)	µg/L	50	16.0 U	15.8 U	12.6 U	13.8 U	11.8 U
Copper (dissolved)	µg/L	2.4	140	179	59.1	88.6	19.9 J
Lead (dissolved)	µg/L	8.1	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Mercury (dissolved)	µg/L	0.025	0.041 U	0.31 U	0.29 U	0.24 U	0.26 U
Nickel (dissolved)	µg/L	8.2	24.6 J	26.1	12.2 J	35.6	0.16 U
Thallium (dissolved)	µg/L	0.47	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc (dissolved)	µg/L	81	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-20	Pier25-20	Pier25-20	Pier25-21	Pier25-21
Sample ID:	GW-120605-PIER25-20-010	GW-120605-PIER25-20-011	GW-120605-PIER25-20-012	GW-010306-PIER25-21-001	GW-010306-PIER25-21-002
Sample Date:	12/6/2005	12/6/2005	12/6/2005	1/3/2006	1/3/2006
Sample Depth:	80 to 82 ft bml	90 to 93 ft bml	100 to 103 ft bml	0.5 to 3.5 ft bml	10.5 to 13.5 ft bml
elev_MLLW	-109.9 to -111.9	-119.9 to -122.9	-129.9 to -132.9	-32 to -35	-42 to -45
elev_NGVD	-116.2 to -118.2	-126.2 to -129.2	-136.2 to -139.2	-38.3 to -41.3	-48.3 to -51.3

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	67.1	66.8	30.2	149	135
Chromium (dissolved)	µg/L	50	11.9 U	13.1 U	10.7 U	10.7 U	14.9 U
Copper (dissolved)	µg/L	2.4	73.2 U	76.0 U	21.4 U	109	105
Lead (dissolved)	µg/L	8.1	0.11 U	0.11 U	0.11 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	0.17 U	0.24 U	0.17 U	0.36 U	0.23 U
Nickel (dissolved)	µg/L	8.2	20.9 U	18.9 U	0.16 U	31.0	17.6 U
Thallium (dissolved)	µg/L	0.47	0.01 U	0.01 U	0.01 U	0.22 U	0.20 U
Zinc (dissolved)	µg/L	81	2.3 U	2.3 U	2.3 U	57.0 J	1250

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Pier25-21</i>	<i>Pier25-21</i>	<i>Pier25-21</i>	<i>Pier25-21</i>	<i>Pier25-21</i>
<i>Sample ID:</i>			<i>GW-010306-PIER25-21-003</i>	<i>GW-010306-PIER25-21-004</i>	<i>GW-010406-PIER25-21-007</i>	<i>GW-010406-PIER25-21-008</i>	<i>GW-010406-PIER25-21-009</i>
<i>Sample Date:</i>			<i>1/3/2006</i>	<i>1/3/2006</i>	<i>1/4/2006</i>	<i>1/4/2006</i>	<i>1/4/2006</i>
<i>Sample Depth:</i>			<i>20.5 to 23.5 ft bml</i>	<i>20.5 to 23.5 ft bml</i>	<i>60.5 to 63.5 ft bml</i>	<i>70.5 to 73.5 ft bml</i>	<i>80.5 to 83.5 ft bml</i>
<i>elev_MLLW</i>			<i>-52 to -55</i>	<i>-52 to -55</i>	<i>-92 to -95</i>	<i>-102 to -105</i>	<i>-112 to -115</i>
<i>elev_NGVD</i>			<i>-58.3 to -61.3</i>	<i>-58.3 to -61.3</i>	<i>-98.3 to -101.3</i>	<i>-108.3 to -111.3</i>	<i>-118.3 to -121.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>				
<i>Metals~Dissolved</i>							
Arsenic (dissolved)	µg/L	0.14	102	139	209	54.4	41.0
Chromium (dissolved)	µg/L	50	16.9 U	18.0 U	15.1 U	13.7 U	4.9 U
Copper (dissolved)	µg/L	2.4	98.9	101	9.4	51.4	14.4
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	0.23 U	0.24 U	0.15 U	0.14 U	0.42 U
Nickel (dissolved)	µg/L	8.2	18.2 U	18.6 U	3.2 U	84.4	11.1 U
Thallium (dissolved)	µg/L	0.47	0.20 U	0.20 U	0.74 U	0.20 U	0.36 U
Zinc (dissolved)	µg/L	81	46 U	46 U	46 U	46 U	46 U
<i>Metals~Total</i>							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-21	Pier25-22	Pier25-22	Pier25-22	Pier25-22
Sample ID:	GW-010406-PIER25-21-010	GW-011706-PIER25-22-001	GW-011706-PIER25-22-002	GW-011706-PIER25-22-003	GW-011706-PIER25-22-004
Sample Date:	1/4/2006	1/17/2006	1/17/2006	1/17/2006	1/17/2006
Sample Depth:	90.5 to 93.5 ft bml	0.5 to 3.5 ft bml	10.1 to 13.1 ft bml	20.1 to 23.1 ft bml	30.1 to 33.1 ft bml
elev_MLLW	-122 to -125	-12.5 to -15.5	-22.1 to -25.1	-32.1 to -35.1	-42.1 to -45.1
elev_NGVD	-128.3 to -131.3	-18.8 to -21.8	-28.4 to -31.4	-38.4 to -41.4	-48.4 to -51.4

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	6.5	373 J	441 J	286 J	153 J
Chromium (dissolved)	µg/L	50	5.2 U	7.0 U	8.7 U	10.5 U	11.2 U
Copper (dissolved)	µg/L	2.4	13.4	101	97.3	97.7	79.5
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	0.26 U	0.058 U	0.089 U	0.045 U	0.12 U
Nickel (dissolved)	µg/L	8.2	11.8 U	21.4	18.5	16.1	15.2
Thallium (dissolved)	µg/L	0.47	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U
Zinc (dissolved)	µg/L	81	46 U	49.2 J	46 UJ	157 J	46 UJ

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-22</i>		<i>Pier25-22</i>		<i>Pier25-22</i>		<i>Pier25-22</i>		<i>Pier25-22</i>	
<i>Sample ID:</i>		<i>GW-011806-PIER25-22-005</i>		<i>GW-011806-PIER25-22-006</i>		<i>GW-011806-PIER25-22-007</i>		<i>GW-011806-PIER25-22-009</i>		<i>GW-011806-PIER25-22-010</i>	
<i>Sample Date:</i>		<i>1/18/2006</i>		<i>1/18/2006</i>		<i>1/18/2006</i>		<i>1/18/2006</i>		<i>1/18/2006</i>	
<i>Sample Depth:</i>		<i>40.1 to 43.1 ft bml</i>		<i>50.1 to 53.1 ft bml</i>		<i>50.1 to 53.1 ft bml</i>		<i>70.1 to 73.1 ft bml</i>		<i>80.1 to 83.1 ft bml</i>	
<i>elev_MLLW</i>		<i>-52.1 to -55.1</i>		<i>-62.1 to -65.1</i>		<i>-62.1 to -65.1</i>		<i>-82.1 to -85.1</i>		<i>-92.1 to -95.1</i>	
<i>elev_NGVD</i>		<i>-58.4 to -61.4</i>		<i>-68.4 to -71.4</i>		<i>-68.4 to -71.4</i>		<i>-88.4 to -91.4</i>		<i>-98.4 to -101.4</i>	
		<i>(Duplicate)</i>									
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>								
<i>Metals~Dissolved</i>											
Arsenic (dissolved)	µg/L	0.14	228 UJ	70.1 J	91.4 UJ	161 J	279 J				
Chromium (dissolved)	µg/L	50	89.5 U	10.4 U	40.1 U	7.2 U	8.0 U				
Copper (dissolved)	µg/L	2.4	133	104	129	88.9	81.0				
Lead (dissolved)	µg/L	8.1	22 U	2.2 U	22 U	2.2 U	2.2 U				
Mercury (dissolved)	µg/L	0.025	0.11 U	0.78 U	0.32 U	0.14 U	0.13 U				
Nickel (dissolved)	µg/L	8.2	32 U	20.2	32 U	25.5	24.3				
Thallium (dissolved)	µg/L	0.47	2.9 U	0.20 U	2.0 U	0.20 U	0.20 U				
Zinc (dissolved)	µg/L	81	460 UJ	46 UJ	460 UJ	97.7 J	46 UJ				
<i>Metals~Total</i>											
Arsenic	µg/L	0.14	-	-	-	-	-				
Chromium	µg/L	50	-	-	-	-	-				
Copper	µg/L	2.4	-	-	-	-	-				
Lead	µg/L	8.1	-	-	-	-	-				
Mercury	µg/L	0.025	-	-	-	-	-				
Nickel	µg/L	8.2	-	-	-	-	-				
Thallium	µg/L	0.47	-	-	-	-	-				
Zinc	µg/L	81	-	-	-	-	-				

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-22	Pier25-22	Pier25-22	Pier25-23	Pier25-23
Sample ID:	GW-011806-PIER25-22-011	GW-011806-PIER25-22-012	GW-011806-PIER25-22-013	GW-011106-PIER25-23-001	GW-011106-PIER25-23-002
Sample Date:	1/18/2006	1/18/2006	1/18/2006	1/11/2006	1/11/2006
Sample Depth:	90.1 to 93.1 ft bml	100.1 to 103.1 ft bml	110.1 to 113.1 ft bml	2 to 5 ft bml	13 to 16 ft bml
elev_MLLW	-102.1 to -105.1	-112.1 to -115.1	-122.1 to -125.1	-12.4 to -15.4	-23.4 to -26.4
elev_NGVD	-108.4 to -111.4	-118.4 to -121.4	-128.4 to -131.4	-18.7 to -21.7	-29.7 to -32.7

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	246 J	94.2	70.7	158	92.5
Chromium (dissolved)	µg/L	50	7.8 U	4.9 U	4.8 U	0.80 U	2.5 U
Copper (dissolved)	µg/L	2.4	7.7 J	6.0 U	6.0 U	76.0	72.5
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	0.15 U	0.091 U	0.17 U	0.11 U	0.056 U
Nickel (dissolved)	µg/L	8.2	4.4 J	3.2 U	3.2 U	26.9 U	23.5 U
Thallium (dissolved)	µg/L	0.47	0.52 U	0.24 J	0.20 U	0.20 U	0.20 U
Zinc (dissolved)	µg/L	81	46 UJ	46 U	46 U	46 U	46 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-23	Pier25-23	Pier25-23	Pier25-23	Pier25-23
Sample ID:	GW-011106-PIER25-23-003	GW-011106-PIER25-23-004	GW-011106-PIER25-23-005	GW-011106-PIER25-23-006	GW-011106-PIER25-23-007
Sample Date:	1/11/2006	1/11/2006	1/11/2006	1/11/2006	1/11/2006
Sample Depth:	23 to 26 ft bml	23 to 26 ft bml	33 to 36 ft bml	43 to 46 ft bml	53 to 56 ft bml
elev_MLLW	-33.4 to -36.4	-33.4 to -36.4	-43.4 to -46.4	-53.4 to -56.4	-63.4 to -66.4
elev_NGVD	-39.7 to -42.7	-39.7 to -42.7	-49.7 to -52.7	-59.7 to -62.7	-69.7 to -72.7

(Duplicate)

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Parameter	Units	CSI	WG	Pier25-23-003	Pier25-23-004	Pier25-23-005	Pier25-23-006	Pier25-23-007
Arsenic (dissolved)	µg/L	0.14		258	164	82.7	93.4	76.5
Chromium (dissolved)	µg/L	50		9.4 U	6.2 U	24.8 U	6.6 U	6.0 U
Copper (dissolved)	µg/L	2.4		127 J	65.6 J	31.0 J	92.0	142
Lead (dissolved)	µg/L	8.1		4.4 U	2.2 U	11 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025		0.041 U	0.041 U	0.062 U	0.041 U	0.042 U
Nickel (dissolved)	µg/L	8.2		50.1 U	29.9 U	43.1 U	41.1 U	42.8 U
Thallium (dissolved)	µg/L	0.47		0.40 U	0.20 U	1.0 U	0.20 U	0.20 U
Zinc (dissolved)	µg/L	81		92 U	46 U	230 U	343 U	74.1 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-23	Pier25-23	Pier25-23	Pier25-23	Pier25-23
Sample ID:	GW-011106-PIER25-23-008	GW-011106-PIER25-23-009	GW-011106-PIER25-23-010	GW-011206-PIER25-23-011	GW-011206-PIER25-23-012
Sample Date:	1/11/2006	1/11/2006	1/11/2006	1/12/2006	1/12/2006
Sample Depth:	63 to 66 ft bml	73 to 76 ft bml	83 to 86 ft bml	93 to 96 ft bml	103 to 106 ft bml
elev_MLLW	-73.4 to -76.4	-83.4 to -86.4	-93.4 to -96.4	-103.4 to -106.4	-113.4 to -116.4
elev_NGVD	-79.7 to -82.7	-89.7 to -92.7	-99.7 to -102.7	-109.7 to -112.7	-119.7 to -122.7

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	9.0 U	27.2	58.4	35.3	1.8 U
Chromium (dissolved)	µg/L	50	4.0 U	0.80 U	1.1 U	0.80 U	0.80 U
Copper (dissolved)	µg/L	2.4	30 U	62.5	32.7	6.0 U	6.0 U
Lead (dissolved)	µg/L	8.1	11 U	2.2 U	2.7 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	0.054 U	0.044 U	0.044 U	0.050 U	0.12 U
Nickel (dissolved)	µg/L	8.2	16 U	38.5 U	46.3 U	9.8 U	5.0 U
Thallium (dissolved)	µg/L	0.47	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U
Zinc (dissolved)	µg/L	81	259 U	81.5 U	253 U	111 U	72.9 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>Pier25-23</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>
<i>Sample ID:</i>			<i>GW-011206-PIER25-23-013</i>	<i>GW-011206-PIER25-24-001</i>	<i>GW-011206-PIER25-24-002</i>	<i>GW-011206-PIER25-24-003</i>	<i>GW-011206-PIER25-24-004</i>
<i>Sample Date:</i>			<i>1/12/2006</i>	<i>1/12/2006</i>	<i>1/12/2006</i>	<i>1/12/2006</i>	<i>1/12/2006</i>
<i>Sample Depth:</i>			<i>113 to 116 ft bml</i>	<i>0.5 to 3.5 ft bml</i>	<i>4.1 to 7.1 ft bml</i>	<i>14.1 to 17.1 ft bml</i>	<i>24.1 to 27.1 ft bml</i>
<i>elev_MLLW</i>			<i>-123.4 to -126.4</i>	<i>-30.9 to -33.9</i>	<i>-34.5 to -37.5</i>	<i>-44.5 to -47.5</i>	<i>-54.5 to -57.5</i>
<i>elev_NGVD</i>			<i>-129.7 to -132.7</i>	<i>-37.2 to -40.2</i>	<i>-40.8 to -43.8</i>	<i>-50.8 to -53.8</i>	<i>-60.8 to -63.8</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Metals~Dissolved</i>							
Arsenic (dissolved)	µg/L	0.14	1.8 U	84.4	196	245	217 U
Chromium (dissolved)	µg/L	50	0.80 U	0.80 U	6.5 U	51.7 U	46.4 U
Copper (dissolved)	µg/L	2.4	6.0 U	75.2	82.0	110	113
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	2.2 U	22 U	22 U
Mercury (dissolved)	µg/L	0.025	0.19 U	0.041 U	0.12 U	0.84 U	0.67 U
Nickel (dissolved)	µg/L	8.2	6.0 U	29.6 U	16.2	32 U	32 U
Thallium (dissolved)	µg/L	0.47	0.20 U	0.20 U	0.20 U	2.0 U	2.0 U
Zinc (dissolved)	µg/L	81	74.4 U	46 U	223 U	460 U	460 U
<i>Metals~Total</i>							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-24	Pier25-24	Pier25-24	Pier25-24	Pier25-24		
Sample ID:	GW-011206-PIER25-24-005	GW-011206-PIER25-24-006	GW-011206-PIER25-24-007	GW-011306-PIER25-24-008	GW-011306-PIER25-24-009		
Sample Date:	1/12/2006	1/12/2006	1/12/2006	1/13/2006	1/13/2006		
Sample Depth:	34.1 to 37.1 ft bml	34.1 to 37.1 ft bml	44.1 to 47.1 ft bml	54.1 to 57.1 ft bml	64.1 to 67.1 ft bml		
elev_MLLW	-64.5 to -67.5	-64.5 to -67.5	-74.5 to -77.5	-84.5 to -87.5	-94.5 to -97.5		
elev_NGVD	-70.8 to -73.8	-70.8 to -73.8	-80.8 to -83.8	-90.8 to -93.8	-100.8 to -103.8		
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	167 U	182 U	228	185 U	93.3 U
Chromium (dissolved)	µg/L	50	46.3 U	42.4 U	11.1 U	80.3 U	135 U
Copper (dissolved)	µg/L	2.4	147	153	184	308	346
Lead (dissolved)	µg/L	8.1	22 U	22 U	2.2 U	22 U	22 U
Mercury (dissolved)	µg/L	0.025	1.1 U	0.12 U	0.041 U	0.68 U	0.041 U
Nickel (dissolved)	µg/L	8.2	32 U	32 U	27.5	32.0 J	255
Thallium (dissolved)	µg/L	0.47	2.0 U	2.0 U	0.20 U	2.7 J	2.0 U
Zinc (dissolved)	µg/L	81	460 U	460 U	136 U	460 U	460 U
Metals~Total							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-24	Pier25-24	Pier25-24	Pier25-24	Pier25-24
Sample ID:	GW-011306-PIER25-24-010	GW-011306-PIER25-24-011	GW-011306-PIER25-24-012	GW-011306-PIER25-24-013	GW-011306-PIER25-24-014
Sample Date:	1/13/2006	1/13/2006	1/13/2006	1/13/2006	1/13/2006
Sample Depth:	74.1 to 77.1 ft bml	84.1 to 87.1 ft bml	94.1 to 97.1 ft bml	104.1 to 107.1 ft bml	114.1 to 117.1 ft bml
elev_MLLW	-104.5 to -107.5	-114.5 to -117.5	-124.5 to -127.5	-134.5 to -137.5	-144.5 to -147.5
elev_NGVD	-110.8 to -113.8	-120.8 to -123.8	-130.8 to -133.8	-140.8 to -143.8	-150.8 to -153.8

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	382	94.2	26.3	36.8	44.8
Chromium (dissolved)	µg/L	50	12.6 U	11.3 U	8.5 U	7.8 U	4.2 U
Copper (dissolved)	µg/L	2.4	166	38.9	17.2	22.6	39.3
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U
Nickel (dissolved)	µg/L	8.2	45.7	12.6	5.4 J	5.0 J	21.3
Thallium (dissolved)	µg/L	0.47	0.20 U	0.20 U	0.44 J	0.27 J	0.20 U
Zinc (dissolved)	µg/L	81	46 U	46 U	46 U	46 U	46 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-25	Pier25-25	Pier25-25	Pier25-25	Pier25-25
Sample ID:	GW-012006-PIER25-25-001	GW-012006-PIER25-25-002	GW-012006-PIER25-25-003	GW-012006-PIER25-25-004	GW-012006-PIER25-25-005
Sample Date:	1/20/2006	1/20/2006	1/20/2006	1/20/2006	1/20/2006
Sample Depth:	0 to 3 ft bml	10 to 13 ft bml	20 to 23 ft bml	30 to 33 ft bml	40 to 43 ft bml
elev_MLLW	-33.6 to -36.6	-43.6 to -46.6	-53.6 to -56.6	-63.6 to -66.6	-73.6 to -76.6
elev_NGVD	-39.9 to -42.9	-49.9 to -52.9	-59.9 to -62.9	-69.9 to -72.9	-79.9 to -82.9

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	Pier25-25-001	Pier25-25-002	Pier25-25-003	Pier25-25-004	Pier25-25-005
Arsenic (dissolved)	µg/L	0.14		2.02 U	4.66	0.334 U	0.334 U	1.84 U
Chromium (dissolved)	µg/L	50		1.91 U	2.07 U	1.95 U	9.35 U	114 U
Copper (dissolved)	µg/L	2.4		12.2	10.6	10.2	7.64 U	16.9 U
Lead (dissolved)	µg/L	8.1		0.065 U	0.025 U	0.0167 U	0.045 U	0.2 U
Mercury (dissolved)	µg/L	0.025		0.044 U	0.044 U	0.044 U	0.044 U	0.374 U
Nickel (dissolved)	µg/L	8.2		27.2	31	41.5	39.7 U	60.8 U
Thallium (dissolved)	µg/L	0.47		0.0184 U	0.0184 U	0.0184 U	0.055 U	0.05 U
Zinc (dissolved)	µg/L	81		2.18 U	1.41 U	0.302 U	0.302 U	0.302 U

Metals~Total

Parameter	Units	CSI	WG	Pier25-25-001	Pier25-25-002	Pier25-25-003	Pier25-25-004	Pier25-25-005
Arsenic	µg/L	0.14		-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-25	Pier25-25	Pier25-25	Pier25-25	Pier25-25
Sample ID:	GW-012006-PIER25-25-006	GW-012006-PIER25-25-007	GW-012006-PIER25-25-008	GW-012006-PIER25-25-009	GW-012006-PIER25-25-010
Sample Date:	1/20/2006	1/20/2006	1/20/2006	1/20/2006	1/20/2006
Sample Depth:	50 to 52 ft bml	60 to 63 ft bml	70 to 73 ft bml	80 to 83 ft bml	90 to 93 ft bml
elev_MLLW	-83.6 to -85.6	-93.6 to -96.6	-103.6 to -106.6	-113.6 to -116.6	-123.6 to -126.6
elev_NGVD	-89.9 to -91.9	-99.9 to -102.9	-109.9 to -112.9	-119.9 to -122.9	-129.9 to -132.9

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	15.9 J	23.2	0.334 U	36.8	12.4
Chromium (dissolved)	µg/L	50	640	524	3.24 U	5.97 U	5.19 U
Copper (dissolved)	µg/L	2.4	55.5 U	50 U	14.1 U	5.58 U	2.04 U
Lead (dissolved)	µg/L	8.1	0.167 U	0.125 U	0.025 U	0.105 U	0.02 U
Mercury (dissolved)	µg/L	0.025	0.44 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	229	132	30.8 U	3.54 U	6.34 U
Thallium (dissolved)	µg/L	0.47	0.35 U	0.04 U	0.04 U	0.055 U	0.07 U
Zinc (dissolved)	µg/L	81	37.2 U	7.7 U	3.86 U	2.67 U	2.22 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-26	Pier25-26	Pier25-26	Pier25-26	Pier25-26
Sample ID:	GW-012306-PIER25-26-001	GW-012306-PIER25-26-002	GW-012306-PIER25-26-003	GW-012306-PIER25-26-004	GW-012306-PIER25-26-005
Sample Date:	1/23/2006	1/23/2006	1/23/2006	1/23/2006	1/23/2006
Sample Depth:	1.5 to 4.5 ft bml	11.5 to 14.5 ft bml	21.5 to 24.5 ft bml	31.5 to 34.5 ft bml	41.5 to 44.5 ft bml
elev_MLLW	-9.2 to -12.2	-19.2 to -22.2	-29.2 to -32.2	-39.2 to -42.2	-49.2 to -52.2
elev_NGVD	-15.5 to -18.5	-25.5 to -28.5	-35.5 to -38.5	-45.5 to -48.5	-55.5 to -58.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	170	298	224	167	99.5
Chromium (dissolved)	µg/L	50	8.5 U	11.7 U	57.0 U	48.6 U	50.8 U
Copper (dissolved)	µg/L	2.4	99.6	95.7	101 U	107 U	121 U
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	11 U	11 U	11 U
Mercury (dissolved)	µg/L	0.025	0.16 U	0.11 U	0.082 U	0.21 U	0.14 U
Nickel (dissolved)	µg/L	8.2	19.7 U	20.0 U	19.4 U	42.7 U	134 U
Thallium (dissolved)	µg/L	0.47	0.32 U	0.22 U	1.7 U	1.7 U	1.2 U
Zinc (dissolved)	µg/L	81	94.7 J	46 U	230 U	230 U	230 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-26	Pier25-26	Pier25-26	Pier25-26	Pier25-26
Sample ID:	GW-012306-PIER25-26-006	GW-012406-PIER25-26-007	GW-012406-PIER25-26-008	GW-012406-PIER25-26-010	GW-012406-PIER25-26-011
Sample Date:	1/23/2006	1/24/2006	1/24/2006	1/24/2006	1/24/2006
Sample Depth:	51.5 to 54.5 ft bml	61.5 to 64.5 ft bml	71.5 to 74.5 ft bml	91.5 to 94.5 ft bml	101.5 to 104.5 ft bml
elev_MLLW	-59.2 to -62.2	-69.2 to -72.2	-79.2 to -82.2	-99.2 to -102.2	-109.2 to -112.2
elev_NGVD	-65.5 to -68.5	-75.5 to -78.5	-85.5 to -88.5	-105.5 to -108.5	-115.5 to -118.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	109	19.1 U	42.5 U	159	26.0
Chromium (dissolved)	µg/L	50	52.5 U	54.3 U	109 U	7.9 U	6.5 U
Copper (dissolved)	µg/L	2.4	143 U	191 U	246 U	62.1 U	17.5 U
Lead (dissolved)	µg/L	8.1	11 U	11 U	11 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	0.20 U	0.18 U	0.45 U	0.10 U	0.070 U
Nickel (dissolved)	µg/L	8.2	25.8 U	31.8 U	48.1 U	18.9 U	3.2 U
Thallium (dissolved)	µg/L	0.47	1.0 U	1.0 U	1.9 U	0.28 U	0.41 U
Zinc (dissolved)	µg/L	81	230 U	230 U	230 U	46 U	46 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-27	Pier25-27	Pier25-27	Pier25-27	Pier25-27		
Sample ID:	GW-011906-PIER25-27-001	GW-011906-PIER25-27-002	GW-011906-PIER25-27-003	GW-011906-PIER25-27-004	GW-011906-PIER25-27-005		
Sample Date:	1/19/2006	1/19/2006	1/19/2006	1/19/2006	1/19/2006		
Sample Depth:	0.5 to 3.5 ft bml	10.5 to 13.5 ft bml	10.5 to 13.5 ft bml	20.5 to 23.5 ft bml	30.5 to 33.5 ft bml		
elev_MLLW	-7.9 to -10.9	-17.9 to -20.9	-17.9 to -20.9	-27.9 to -30.9	-37.9 to -40.9		
elev_NGVD	-14.2 to -17.2	-24.2 to -27.2	-24.2 to -27.2	-34.2 to -37.2	-44.2 to -47.2		
Parameters	Units	CSI	WG	(Duplicate)			
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	3.7 U	1.89 U
Chromium (dissolved)	µg/L	50	3	3.01	2.97	2.03 J	1.72 U
Copper (dissolved)	µg/L	2.4	0.665 J	2.47 J	2.73	5.72	5.53
Lead (dissolved)	µg/L	8.1	0.065 U	0.0167 U	0.03 U	0.0167 U	0.04 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	3.96	24	25.9	27.1	30.1
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.22 U	0.05 U	0.06 U	0.03 U
Zinc (dissolved)	µg/L	81	1.55 U	0.9 U	0.845 U	1.85 U	2.82 U
Metals~Total							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-27	Pier25-27	Pier25-27	Pier25-27	Pier25-27
Sample ID:	GW-011906-PIER25-27-006	GW-011906-PIER25-27-007	GW-011906-PIER25-27-008	GW-011906-PIER25-27-009	GW-011906-PIER25-27-010
Sample Date:	1/19/2006	1/19/2006	1/19/2006	1/19/2006	1/19/2006
Sample Depth:	40.5 to 43.5 ft bml	50.5 to 53.5 ft bml	60.5 to 63.5 ft bml	70.5 to 73.5 ft bml	80.5 to 83.5 ft bml
elev_MLLW	-47.9 to -50.9	-57.9 to -60.9	-67.9 to -70.9	-77.9 to -80.9	-87.9 to -90.9
elev_NGVD	-54.2 to -57.2	-64.2 to -67.2	-74.2 to -77.2	-84.2 to -87.2	-94.2 to -97.2

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	1.22 U	0.334 U	16.5	85.4	7.36
Chromium (dissolved)	µg/L	50	2.71	0.845 U	3.28	3.61	4.1
Copper (dissolved)	µg/L	2.4	5.51	12.4	1.63 J	3.06	2.31 J
Lead (dissolved)	µg/L	8.1	0.055 U	0.0167 U	0.13 U	0.045 U	0.06 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	28.7	36.3	4.06	11	5.3
Thallium (dissolved)	µg/L	0.47	0.025 U	0.025 U	0.02 U	0.02 U	0.025 U
Zinc (dissolved)	µg/L	81	2.89 U	4.98 U	2.5 U	2.65 U	2.72 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-27	Pier25-28	Pier25-28	Pier25-28	Pier25-28
Sample ID:	GW-011906-PIER25-27-011	GW-012406-PIER25-28-001	GW-012406-PIER25-28-002	GW-012406-PIER25-28-003	GW-012406-PIER25-28-004
Sample Date:	1/19/2006	1/24/2006	1/24/2006	1/24/2006	1/24/2006
Sample Depth:	90.5 to 93.5 ft bml	0 to 3 ft bml	10 to 13 ft bml	20 to 23 ft bml	30 to 33 ft bml
elev_MLLW	-97.9 to -100.9	-7.1 to -10.1	-17.1 to -20.1	-27.1 to -30.1	-37.1 to -40.1
elev_NGVD	-104.2 to -107.2	-13.4 to -16.4	-23.4 to -26.4	-33.4 to -36.4	-43.4 to -46.4

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	8.91	0.334 U	1.7 J	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	4.03	4.29 U	3.2 U	2.51 U	5.84 U
Copper (dissolved)	µg/L	2.4	3.3	6.68	2.72	2.58	3.29
Lead (dissolved)	µg/L	8.1	0.065 U	0.135 J	0.08 J	0.0167 U	0.075 J
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	6.31	21.6 J	22.2 J	24.3 J	10.1 J
Thallium (dissolved)	µg/L	0.47	0.025 U	0.0184 U	0.135 U	0.035 U	0.025 U
Zinc (dissolved)	µg/L	81	3.22 U	6.15 U	4.61 U	4.4 U	7.59 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-29	Pier25-29	Pier25-29	Pier25-29	Pier25-29
Sample ID:	GW-020606-PIER25-29-001	GW-020606-PIER25-29-002	GW-020606-PIER25-29-003	GW-020606-PIER25-29-004	GW-020606-PIER25-29-005
Sample Date:	2/6/2006	2/6/2006	2/6/2006	2/6/2006	2/6/2006
Sample Depth:	0 to 3 ft bml	2 to 5 ft bml	12 to 15 ft bml	22 to 25 ft bml	32 to 35 ft bml
elev_MLLW	-6.6 to -9.6	-8.6 to -11.6	-18.6 to -21.6	-28.6 to -31.6	-38.6 to -41.6
elev_NGVD	-12.9 to -15.9	-14.9 to -17.9	-24.9 to -27.9	-34.9 to -37.9	-44.9 to -47.9

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	2.4 J	12.3	64.2	75.5	3.6 U
Chromium (dissolved)	µg/L	50	4.1 U	4.8 U	19.0 U	8.8 U	16.4 U
Copper (dissolved)	µg/L	2.4	6.2 J	13.0 J	59.6 J	87.5 J	20.5 J
Lead (dissolved)	µg/L	8.1	2.2 U	4.9 J	4.4 U	4.4 U	4.4 U
Mercury (dissolved)	µg/L	0.025	0.16 U	0.041 U	0.14 U	0.23 U	0.16 U
Nickel (dissolved)	µg/L	8.2	4.1 J	3.2 U	7.1 J	11.1 J	6.4 U
Thallium (dissolved)	µg/L	0.47	0.20 U	0.20 U	0.40 U	0.40 U	0.40 U
Zinc (dissolved)	µg/L	81	46 U	46 U	92 U	92 U	92 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-29	Pier25-29	Pier25-29	Pier25-29	Pier25-29
Sample ID:	GW-020606-PIER25-29-006	GW-020606-PIER25-29-007	GW-020706-PIER25-29-008	GW-020706-PIER25-29-009	GW-020706-PIER25-29-010
Sample Date:	2/6/2006	2/6/2006	2/7/2006	2/7/2006	2/7/2006
Sample Depth:	42 to 45 ft bml	52 to 55 ft bml	62 to 65 ft bml	72 to 75 ft bml	82 to 85 ft bml
elev_MLLW	-48.6 to -51.6	-58.6 to -61.6	-68.6 to -71.6	-78.6 to -81.6	-88.6 to -91.6
elev_NGVD	-54.9 to -57.9	-64.9 to -67.9	-74.9 to -77.9	-84.9 to -87.9	-94.9 to -97.9

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	98.4	89.8	102	73.6	22.1
Chromium (dissolved)	µg/L	50	11.6 U	23.3 U	12.9 U	2.7 U	3.8 U
Copper (dissolved)	µg/L	2.4	130 J	92.2 J	111 J	6.0 U	14.9
Lead (dissolved)	µg/L	8.1	2.2 U	4.4 U	2.2 U	2.2 U	2.2 U
Mercury (dissolved)	µg/L	0.025	0.059 U	0.17 U	0.077 U	0.093 U	0.076 U
Nickel (dissolved)	µg/L	8.2	17.8 J	16.9 J	21.3 J	3.4 J	7.3 J
Thallium (dissolved)	µg/L	0.47	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U
Zinc (dissolved)	µg/L	81	46 U	92 U	46 U	46 U	46 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-29	Pier25-29	Pier25-30	Pier25-30	Pier25-30
Sample ID:	GW-020706-PIER25-29-011	GW-020706-PIER25-29-012	GW-012606-PIER25-30-001	GW-012606-PIER25-30-002	GW-012706-PIER25-30-003
Sample Date:	2/7/2006	2/7/2006	1/26/2006	1/26/2006	1/27/2006
Sample Depth:	92 to 95 ft bml	102 to 105 ft bml	0 to 3 ft bml	10 to 13 ft bml	20 to 23 ft bml
elev_MLLW	-98.6 to -101.6	-108.6 to -111.6	-7.8 to -10.8	-17.8 to -20.8	-27.8 to -30.8
elev_NGVD	-104.9 to -107.9	-114.9 to -117.9	-14.1 to -17.1	-24.1 to -27.1	-34.1 to -37.1

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	102	26.3	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	4.8 U	5.0 U	0.665 U	2.12 J	2.32 J
Copper (dissolved)	µg/L	2.4	79.0 J	6.0 U	13.1	18.8	7.28
Lead (dissolved)	µg/L	8.1	2.2 U	2.2 U	0.07 U	1.22 U	0.045 U
Mercury (dissolved)	µg/L	0.025	0.100 U	0.041 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	60.6 J	3.2 U	29.8 J	31.9 J	36.2 J
Thallium (dissolved)	µg/L	0.47	0.20 U	0.20 U	0.07 U	0.14 U	0.02 U
Zinc (dissolved)	µg/L	81	46 U	46 U	0.302 U	0.302 U	0.302 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-30	Pier25-30	Pier25-30	Pier25-30	Pier25-30
Sample ID:	GW-012706-PIER25-30-004	GW-012706-PIER25-30-005	GW-012706-PIER25-30-006	GW-012706-PIER25-30-007	GW-012706-PIER25-30-008
Sample Date:	1/27/2006	1/27/2006	1/27/2006	1/27/2006	1/27/2006
Sample Depth:	30 to 33 ft bml	40 to 43 ft bml	50 to 53 ft bml	60 to 63 ft bml	70 to 73 ft bml
elev_MLLW	-37.8 to -40.8	-47.8 to -50.8	-57.8 to -60.8	-67.8 to -70.8	-77.8 to -80.8
elev_NGVD	-44.1 to -47.1	-54.1 to -57.1	-64.1 to -67.1	-74.1 to -77.1	-84.1 to -87.1

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	2.39 U	1.53 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	1.59 J	0.69 U	1.19 J	2.13 J	0.425 U
Copper (dissolved)	µg/L	2.4	17.5	9.62	7.21	16.7	18.5
Lead (dissolved)	µg/L	8.1	0.05 U	0.06 U	0.06 U	0.02 U	0.155 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Nickel (dissolved)	µg/L	8.2	37.7 J	42.4 J	23 J	33.5 J	43.6 J
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0184 U
Zinc (dissolved)	µg/L	81	0.302 U	0.302 U	0.302 U	2.89 U	5.56 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-30	Pier25-30	Pier25-30	Pier25-31	Pier25-31
Sample ID:	GW-012706-PIER25-30-009	GW-012706-PIER25-30-010	GW-012706-PIER25-30-011	GW-051006-PIER25-31-LH-001	GW-051006-PIER25-31-LH-002
Sample Date:	1/27/2006	1/27/2006	1/27/2006	5/10/2006	5/10/2006
Sample Depth:	80 to 83 ft bml	90 to 93 ft bml	100 to 103 ft bml	9 to 13 ft bgs	19 to 23 ft bgs
elev_MLLW	-87.8 to -90.8	-97.8 to -100.8	-107.8 to -110.8	5.95 to 1.95	-4.05 to -8.05
elev_NGVD	-94.1 to -97.1	-104.1 to -107.1	-114.1 to -117.1	-0.4 to -4.4	-10.4 to -14.4

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	6.7	0.37 U	0.37 U
Chromium (dissolved)	µg/L	50	0.2 U	0.2 U	2.13 J	16 J	20 J
Copper (dissolved)	µg/L	2.4	17	15.1	5.69	0.74 U	1.9 J
Lead (dissolved)	µg/L	8.1	0.13 U	0.0167 U	0.165 U	0.016 U	0.060 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.044 U	0.044 U	0.055 U	0.055 U
Nickel (dissolved)	µg/L	8.2	37.7 J	37.2 J	12.6 J	1.7 J	1.3 J
Thallium (dissolved)	µg/L	0.47	0.0184 U	0.0184 U	0.0184 U	0.019 U	0.019 U
Zinc (dissolved)	µg/L	81	1.25 U	0.302 U	1.08 U	2.9 U	3.0 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-31	Pier25-31	Pier25-31	Pier25-31	Pier25-31
Sample ID:	GW-051006-PIER25-31-LH-003	GW-051006-PIER25-31-LH-004	GW-051006-PIER25-31-LH-005	GW-051106-PIER25-31-LH-006	GW-051106-PIER25-31-LH-007
Sample Date:	5/10/2006	5/10/2006	5/10/2006	5/11/2006	5/11/2006
Sample Depth:	29 to 33 ft bgs	39 to 43 ft bgs	49 to 53 ft bgs	59 to 63 ft bgs	69 to 73 ft bgs
elev_MLLW	-14.05 to -18.05	-24.05 to -28.05	-34.05 to -38.05	-44.05 to -48.05	-54.05 to -58.05
elev_NGVD	-20.4 to -24.4	-30.4 to -34.4	-40.4 to -44.4	-50.4 to -54.4	-60.4 to -64.4

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	1.2 J	0.37 U	39	19	13
Chromium (dissolved)	µg/L	50	18 J	19 J	18 J	14 J	19 J
Copper (dissolved)	µg/L	2.4	0.73 U	1.7 J	4.4	1.9 U	0.45 U
Lead (dissolved)	µg/L	8.1	0.016 U	0.095 U	1.5 J	0.93 J	0.050 U
Mercury (dissolved)	µg/L	0.025	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U
Nickel (dissolved)	µg/L	8.2	0.80 J	1.0 J	1.7 J	1.8 J	0.54 U
Thallium (dissolved)	µg/L	0.47	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Zinc (dissolved)	µg/L	81	2.5 U	3.3 U	5.0	5.7 U	3.4 U

Metals~Total							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-31	Pier25-31	Pier25-31	Pier25-31	Pier25-32
Sample ID:	GW-051106-PIER25-31-LH-008	GW-051106-PIER25-31-LH-009	GW-051106-PIER25-31-LH-010	GW-051206-PIER25-31-LH-011	GW-040406-PIER25-32-001
Sample Date:	5/11/2006	5/11/2006	5/11/2006	5/12/2006	4/4/2006
Sample Depth:	69 to 73 ft bgs	79 to 83 ft bgs	89 to 93 ft bgs	99 to 103 ft bgs	9 to 12 ft bgs
elev_MLLW	-54.05 to -58.05	-64.05 to -68.05	-74.05 to -78.05	-84.05 to -88.05	6 to 3
elev_NGVD	-60.4 to -64.4	-70.4 to -74.4	-80.4 to -84.4	-90.4 to -94.4	-0.3 to -3.3
	(Duplicate)				

Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14		17	15	3.8 U	0.85 J, 138
Chromium (dissolved)	µg/L	50		19 J	19 J	20 J	13 U, 1.8
Copper (dissolved)	µg/L	2.4		0.53 U	0.51 U	0.52 U	0.80 U, 10.7
Lead (dissolved)	µg/L	8.1		0.15 U	0.085 U	0.045 U	0.050 U, 0.20
Mercury (dissolved)	µg/L	0.025		0.055 U	0.055 U	0.055 U	0.055 U, 0.089 J
Nickel (dissolved)	µg/L	8.2		0.67 J	0.45 U	1.2 J	3.2 U, 3.5
Thallium (dissolved)	µg/L	0.47		0.019 U	0.019 U	0.019 U	0.019 U, 0.77
Zinc (dissolved)	µg/L	81		3.8 U	4.0 U	4.1 U	2.3 U, 6.4 J

Metals~Total							
Arsenic	µg/L	0.14		-	-	-	-
Chromium	µg/L	50		-	-	-	-
Copper	µg/L	2.4		-	-	-	-
Lead	µg/L	8.1		-	-	-	-
Mercury	µg/L	0.025		-	-	-	-
Nickel	µg/L	8.2		-	-	-	-
Thallium	µg/L	0.47		-	-	-	-
Zinc	µg/L	81		-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	Pier25-32	Pier25-32	Pier25-32	Pier25-32	Pier25-32
Sample ID:	GW-040406-PIER25-32-002	GW-040406-PIER25-32-003	GW-040506-PIER25-32-004	GW-040506-PIER25-32-005	GW-040606-PIER25-32-006
Sample Date:	4/4/2006	4/4/2006	4/5/2006	4/5/2006	4/6/2006
Sample Depth:	20 to 23 ft bgs	30 to 34 ft bgs	44 to 47 ft bgs	44 to 47 ft bgs	54 to 58 ft bgs
elev_MLLW	-5 to -8	-15 to -19	-29 to -32	-29 to -32	-39 to -43
elev_NGVD	-11.3 to -14.3	-21.3 to -25.3	-35.3 to -38.3	-35.3 to -38.3	-45.3 to -49.3
				(Duplicate)	

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	2.5	1.6	14.2	15.1	11.7
Chromium (dissolved)	µg/L	50	0.76 U	1.1	0.89	0.91	1.5 U
Copper (dissolved)	µg/L	2.4	0.70	1.7	2.9	3.0	1.8
Lead (dissolved)	µg/L	8.1	0.11 U	0.52	1.2	1.3	1.3
Mercury (dissolved)	µg/L	0.025	0.041 U	0.16 U	0.069 U	0.041 U	0.16 U
Nickel (dissolved)	µg/L	8.2	2.5	0.79 U	1.2 U	1.2 U	0.96
Thallium (dissolved)	µg/L	0.47	0.055 U	0.025 J	0.011 J	0.016 J	0.027 J
Zinc (dissolved)	µg/L	81	2.3 U	7.1 J	33.4	27.1	8.3 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-32</i>	<i>Pier25-32</i>	<i>Pier25-32</i>	<i>Pier25-33</i>	<i>Pier25-33</i>		
<i>Sample ID:</i>	<i>GW-040606-PIER25-32-007</i>	<i>GW-040706-PIER25-32-008</i>	<i>GW-040706-PIER25-32-009</i>	<i>GW-050806-Pier25-33-BS-001</i>	<i>GW-050806-Pier25-33-BS-002</i>		
<i>Sample Date:</i>	<i>4/6/2006</i>	<i>4/7/2006</i>	<i>4/7/2006</i>	<i>5/8/2006</i>	<i>5/8/2006</i>		
<i>Sample Depth:</i>	<i>67 to 71 ft bgs</i>	<i>78 to 82 ft bgs</i>	<i>88 to 92 ft bgs</i>	<i>9 to 13 ft bgs</i>	<i>19 to 23 ft bgs</i>		
<i>elev_MLLW</i>	<i>-52 to -56</i>	<i>-63 to -67</i>	<i>-73 to -77</i>	<i>4.95 to 0.95</i>	<i>-5.05 to -9.05</i>		
<i>elev_NGVD</i>	<i>-58.3 to -62.3</i>	<i>-69.3 to -73.3</i>	<i>-79.3 to -83.3</i>	<i>-1.4 to -5.4</i>	<i>-11.4 to -15.4</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Metals~Dissolved</i>							
Arsenic (dissolved)	µg/L	0.14	2.4	0.37 U	0.37 U	1.4 J	
Chromium (dissolved)	µg/L	50	0.78 U	2.7	3.0	8.1 U	19 J
Copper (dissolved)	µg/L	2.4	0.51	0.48	0.39	17	1.7 J
Lead (dissolved)	µg/L	8.1	0.11 U	0.045 U	0.12 U	0.025 U	0.016 U
Mercury (dissolved)	µg/L	0.025	0.52 U	0.055 U	0.055 U	0.055 U	0.055 U
Nickel (dissolved)	µg/L	8.2	1.0	4.0	3.7	30	11
Thallium (dissolved)	µg/L	0.47	0.018 J	0.019 U	0.019 U	0.019 U	0.019 U
Zinc (dissolved)	µg/L	81	2.8 U	5.1 U	3.1 U	3.8 J	2.4 U
<i>Metals~Total</i>							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-33	Pier25-33	Pier25-33	Pier25-33	Pier25-33
Sample ID:	GW-050806-Pier25-33-BS-003	GW-050806-Pier25-33-BS-004	GW-050906-Pier25-33-LH-005	GW-050906-Pier25-33-LH-006	GW-050906-Pier25-33-LH-007
Sample Date:	5/8/2006	5/8/2006	5/9/2006	5/9/2006	5/9/2006
Sample Depth:	29 to 33 ft bgs	39 to 43 ft bgs	49 to 53 ft bgs	59 to 63 ft bgs	69 to 73 ft bgs
elev_MLLW	-15.05 to -19.05	-25.05 to -29.05	-35.05 to -39.05	-45.05 to -49.05	-55.05 to -59.05
elev_NGVD	-21.4 to -25.4	-31.4 to -35.4	-41.4 to -45.4	-51.4 to -55.4	-61.4 to -65.4

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Chromium (dissolved)	µg/L	50	21 J	23 J	5.5 U	8.4 U	12 J
Copper (dissolved)	µg/L	2.4	0.95 U	0.98 U	0.77 U	1.0 U	1.4 J
Lead (dissolved)	µg/L	8.1	0.045 U	0.035 U	0.020 U	0.030 U	0.016 U
Mercury (dissolved)	µg/L	0.025	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U
Nickel (dissolved)	µg/L	8.2	2.4	1.8 J	1.2 J	2.3	3.9
Thallium (dissolved)	µg/L	0.47	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Zinc (dissolved)	µg/L	81	2.2 U	2.6 U	0.85 U	1.3 U	1.3 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		Pier25-33	Pier25-33	Pit-89	Pit-89	PS3-001	PS3-001	
Sample ID:		GW-050906-Pier25-33-LH-008	GW-050906-Pier25-33-LH-009	Pit Water	Pit WaterDUP	GW-072707-DR-PS3-001-001	GW-072707-DR-PS3-DUP-001	
Sample Date:		5/9/2006	5/9/2006	9/19/1989	9/19/1989	7/27/2007	7/27/2007	
Sample Depth:		79 to 83 ft bgs	89 to 93 ft bgs			20 to 23 ft bgs	20 to 23 ft bgs	
elev_MLLW		-65.05 to -69.05	-75.05 to -79.05			-2.08 to -5.08	-2.08 to -5.08	
elev_NGVD		-71.4 to -75.4	-81.4 to -85.4			-8.4 to -11.4	-8.4 to -11.4	
Parameters	Units	CSI	WG	(Duplicate)				
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	0.37 U	0.37 U	-	-	55	55
Chromium (dissolved)	µg/L	50	12 J	14 J	-	-	3.9	4.3
Copper (dissolved)	µg/L	2.4	2.7	1.7 J	-	-	0.77	0.86
Lead (dissolved)	µg/L	8.1	0.016 U	0.016 U	-	-	0.26	0.26
Mercury (dissolved)	µg/L	0.025	0.055 U	0.055 U	-	-	0.055 U	0.13
Nickel (dissolved)	µg/L	8.2	7.2	7.9	-	-	1.5	1.9
Thallium (dissolved)	µg/L	0.47	0.019 U	0.019 U	-	-	0.36 U	0.36 U
Zinc (dissolved)	µg/L	81	1.7 U	1.7 U	-	-	5.8	7.5
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	90.8	-	-
Chromium	µg/L	50	-	-	-	160	-	-
Copper	µg/L	2.4	-	-	-	355	-	-
Lead	µg/L	8.1	-	-	654	654	-	-
Mercury	µg/L	0.025	-	-	-	2.33	-	-
Nickel	µg/L	8.2	-	-	-	242	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	2270	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PS3-002	PS3-003	PS3-004	PS3-005	PS3-IP
Sample ID:	GW-072707-DR-PS3-002-001	GW-072707-DR-PS3-003-001	GW-072707-DR-PS3-004-001	GW-072707-DR-PS3-005-001	GW-072707-DR-PS3-IP-001
Sample Date:	7/27/2007	7/27/2007	7/27/2007	7/27/2007	7/27/2007
Sample Depth:	20 to 23 ft bgs	20 to 23 ft bgs	20 to 23 ft bgs	20 to 23 ft bgs	20 to 23 ft bgs
elev_MLLW	-2.08 to -5.08	-2.08 to -5.08	-2.08 to -5.08	-2.08 to -5.08	-2.08 to -5.08
elev_NGVD	-8.4 to -11.4	-8.4 to -11.4	-8.4 to -11.4	-8.4 to -11.4	-8.4 to -11.4

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	PS3-002	PS3-003	PS3-004	PS3-005	PS3-IP
Arsenic (dissolved)	µg/L	0.14		24	18	9.3	76	24
Chromium (dissolved)	µg/L	50		3.9	3.0	2.0	10	3.5
Copper (dissolved)	µg/L	2.4		0.97	0.61	0.89	1.3	0.75
Lead (dissolved)	µg/L	8.1		0.49	0.42	0.39	0.42	0.23
Mercury (dissolved)	µg/L	0.025	U	0.055	0.091	0.055	0.12	0.055
Nickel (dissolved)	µg/L	8.2		1.6	1.2	1.1	3.0	1.7
Thallium (dissolved)	µg/L	0.47	U	0.36	0.36	0.36	0.36	0.36
Zinc (dissolved)	µg/L	81		4.8	3.6	19	2.9	7.0

Metals~Total

Parameter	Units	CSI	WG	PS3-002	PS3-003	PS3-004	PS3-005	PS3-IP
Arsenic	µg/L	0.14		-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PS4-001	PS4-002	PS4-002	PS4-003	PS4-004	PS4-005
Sample ID:	GW-022208-PS4-001-001	GW-022208-PS4-002-001	GW-022208-PS4-FD-001	GW-022208-PS4-003-001	GW-022208-PS4-004-001	GW-022208-PS4-005-001
Sample Date:	2/22/2008	2/22/2008	2/22/2008	2/22/2008	2/22/2008	2/22/2008
Sample Depth:	50 to 53 ft bgs	50.5 to 53.5 ft bgs	50.5 to 53.5 ft bgs	50.5 to 53.5 ft bgs	50 to 53 ft bgs	50.5 to 53.5 ft bgs
elev_MLLW	-32.08 to -35.08	-32.58 to -35.58	-32.58 to -35.58	-32.58 to -35.58	-32.08 to -35.08	-32.58 to -35.58
elev_NGVD	-38.4 to -41.4	-38.9 to -41.9	-38.9 to -41.9	-38.9 to -41.9	-38.4 to -41.4	-38.9 to -41.9

(Duplicate)

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	18	19	11	16	43	27
Chromium (dissolved)	µg/L	50	170	200	140	150	110	100
Copper (dissolved)	µg/L	2.4	5.5	7.4	4.1	6.0	7.4	6.1
Lead (dissolved)	µg/L	8.1	0.44 J	0.49 J	0.28 J	0.58 J	0.67 J	0.46 J
Mercury (dissolved)	µg/L	0.025	0.10 J	0.090 J	0.064 J	0.14 J	0.085 J	0.13 J
Nickel (dissolved)	µg/L	8.2	42	44	40	36	24	25
Thallium (dissolved)	µg/L	0.47	0.57	0.74	0.43	0.56	0.61	0.39
Zinc (dissolved)	µg/L	81	7.7	10	44	11	7.8	6.5 J

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PS4-IP	PS5-001	PS5-001	PS5-002R	PS5-003	PT-12A			
Sample ID:	GW-022508-PS4-IP-001	GW-021209-CM-PS5-001-001	GW-021209-CM-FD1-001	GW-021209-CM-PS5-002R-001	GW-021209-CM-PS5-003-001	GW-102405-PT-12A-001			
Sample Date:	2/25/2008	2/12/2009	2/12/2009	2/12/2009	2/12/2009	10/24/2005			
Sample Depth:	50 to 53 ft bgs	32 to 37 ft bgs	32 to 37 ft bgs	20 to 25 ft bgs	45 to 50 ft bgs	68.9 to 71.9 ft bml			
elev_MLLW	-32.08 to -35.08	-14.08 to -19.08	-14.08 to -19.08	-2.08 to -7.08	-27.08 to -32.08	-92.4 to -95.4			
elev_NGVD	-38.4 to -41.4	-20.4 to -25.4	-20.4 to -25.4	-8.4 to -13.4	-33.4 to -38.4	-98.7 to -101.7			
Parameters	Units	CSI	WG	(Duplicate)					
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14		55	25	21	40	17	116
Chromium (dissolved)	µg/L	50		17	0.44 J	0.4 U	2.5 J	0.4 U	6.6 J
Copper (dissolved)	µg/L	2.4		3.9	3.4 J	3 U	23	3 U	249
Lead (dissolved)	µg/L	8.1		0.40 J	1.1 U	1.1 U	1.1 U	1.1 J	5.5 U
Mercury (dissolved)	µg/L	0.025		0.086 J	0.1 U	0.1 U	0.5 U	0.5 U	3.6 U
Nickel (dissolved)	µg/L	8.2		11	2.5 J	2.2 J	3.7 J	2.4 J	23.6 J
Thallium (dissolved)	µg/L	0.47		0.36 U	0.1 U	0.1 U	0.1 U	0.1 U	1.5 J
Zinc (dissolved)	µg/L	81		3200	23 J	20 U	34 J	130 J	115 U
Metals~Total									
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:		PT-12A	PT-12A	PT-12A	PT-13A	PT-13A	PT-13A	
Sample ID:		GW-102405-PT-12A-002	GW-102405-PT-12A-003	GW-102405-PT-12A-004	GW-110905-PT-13A-003	GW-110905-PT-13A-004	GW-111005-PT-13A-005	
Sample Date:		10/24/2005	10/24/2005	10/24/2005	11/9/2005	11/9/2005	11/10/2005	
Sample Depth:		68.9 to 71.9 ft bml	78.9 to 81.9 ft bml	88.9 to 91.9 ft bml	61.9 to 64.9 ft bml	71.9 to 74.9 ft bml	81.9 to 84.9 ft bml	
elev_MLLW		-92.4 to -95.4	-102.4 to -105.4	-112.4 to -115.4	-82.01 to -85.01	-92.01 to -95.01	-102.01 to -105.01	
elev_NGVD		-98.7 to -101.7	-108.7 to -111.7	-118.7 to -121.7	-88.3 to -91.3	-98.3 to -101.3	-108.3 to -111.3	
		(Duplicate)						
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14						
			113	11.5	21.0 U	84.4 J	67.1 J	58 J
Chromium (dissolved)	µg/L	50	20.6 J	2.2 J	2.0 U	148 J	209 J	106 J
Copper (dissolved)	µg/L	2.4	240	73.1	38.3 U	64.2 J	67.8 J	50.4 J
Lead (dissolved)	µg/L	8.1	5.5 U	5.5 U	5.5 U	2 J	1.6 J	1.8 J
Mercury (dissolved)	µg/L	0.025	3.2 U	4.3 U	1.2 U	0.44 U	0.44 U	0.44 U
Nickel (dissolved)	µg/L	8.2	27.7	15.7 J	8.0 U	169	261	232
Thallium (dissolved)	µg/L	0.47	1.6 J	5.4 J	12.2 U	0.184 U	1.4 J	0.65 J
Zinc (dissolved)	µg/L	81	115 U	115 U	115 U	311	444	339
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	PT-13A	PT-13A	PT-13A	PT-13A	PT-13A	PT-15A
Sample ID:	GW-111005-PT-13A-007	GW-111005-PT-13A-008	GW-111005-PT-13A-009	GW-111005-PT-13A-010	GW-111105-PT-13A-011	GW-111005-PT-15A-004
Sample Date:	11/10/2005	11/10/2005	11/10/2005	11/10/2005	11/11/2005	11/10/2005
Sample Depth:	101.9 to 104.9 ft bml	111.9 to 114.9 ft bml	121.9 to 124.9 ft bml	131.9 to 134.9 ft bml	141.9 to 144.9 ft bml	101 to 104 ft bml
elev_MLLW	-122.01 to -125.01	-132.01 to -135.01	-142.01 to -145.01	-152.01 to -155.01	-162.01 to -165.01	-114 to -117
elev_NGVD	-128.3 to -131.3	-138.3 to -141.3	-148.3 to -151.3	-158.3 to -161.3	-168.3 to -171.3	-120.3 to -123.3

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.334 U	0.334 U	0.334 U	0.334 U	1.18 J	321
Chromium (dissolved)	µg/L	50	24.4	17.6	14.8	13.7	15.2	82 U
Copper (dissolved)	µg/L	2.4	4.35	3.4	15.2	4.6	5.15	134
Lead (dissolved)	µg/L	8.1	0.115 J	0.07 J	0.04 J	0.055 J	0.05 J	0.75 U
Mercury (dissolved)	µg/L	0.025	0.044 U	0.11 J	0.044 U	0.044 U	0.044 U	0.44 U
Nickel (dissolved)	µg/L	8.2	10.2	6.37	29.1	9.66	12.2	194
Thallium (dissolved)	µg/L	0.47	0.055 J	0.035 J	0.025 J	0.0184 U	0.03 J	0.184 U
Zinc (dissolved)	µg/L	81	9.46 J	5.55 J	5.14 J	4.68 J	5.2 J	488

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PT-15A	PT-15A	PT-15A	PT-15A	PT-15A	PT-15A
Sample ID:	GW-111005-PT-15A-005	GW-111105-PT-15A-006	GW-111105-PT-15A-007	GW-111405-PT-15A-008	GW-111405-PT-15A-009	GW-111405-PT-15A-010
Sample Date:	11/10/2005	11/11/2005	11/11/2005	11/14/2005	11/14/2005	11/14/2005
Sample Depth:	111 to 114 ft bml	121 to 124 ft bml	131 to 134 ft bml	141 to 144 ft bml	151 to 154 ft bml	151 to 154 ft bml
elev_MLLW	-124 to -127	-134 to -137	-144 to -147	-154 to -157	-164 to -167	-164 to -167
elev_NGVD	-130.3 to -133.3	-140.3 to -143.3	-150.3 to -153.3	-160.3 to -163.3	-170.3 to -173.3	-170.3 to -173.3 (Duplicate)

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	3.34 U	12 J	3.34 U	0.334 U	0.334 U	0.334 U
Chromium (dissolved)	µg/L	50	147	119	1140	8.88	14.3 U	13.3 U
Copper (dissolved)	µg/L	2.4	97.1	180	82.2	1.16 U	2.65 U	2.86 U
Lead (dissolved)	µg/L	8.1	0.8 U	0.65 U	1.35 U	0.065 U	0.065 U	0.055 U
Mercury (dissolved)	µg/L	0.025	0.44 U	1.79 J	0.44 U	0.088 U	0.044 U	0.173 U
Nickel (dissolved)	µg/L	8.2	236	244	115	3.51	6.72	7.86
Thallium (dissolved)	µg/L	0.47	0.184 U	0.184 U	0.184 U	0.0184 U	0.11 U	0.07 U
Zinc (dissolved)	µg/L	81	400	437	35.7 J	2.18 U	1.12 U	1.88 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PT-15A	PZ-1	PZ-2	PZ-2	PZ-3		
Sample ID:	GW-111505-PT-15A-011	PZ-1	PZ-2	PZ-2 (dup)	PZ-3		
Sample Date:	11/15/2005	7/1/2004	7/1/2004	7/1/2004	7/1/2004		
Sample Depth:	161 to 164 ft bml	2 to 3 ft BML	2 to 3 ft BML	2 to 3 ft BML	3.75 to 4.75 ft BML		
elev_MLLW	-174 to -177	-38.25027087 to -39.25027087	-42.02901095 to -43.02901095	-42.02901095 to -43.02901095	-42.40007824 to -43.40007824		
elev_NGVD	-180.3 to -183.3	-44.6 to -45.6	-48.3 to -49.3	-48.3 to -49.3 (Duplicate)	-48.7 to -49.7		
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	0.334 U	18	5.0 U	5.0 U	100
Chromium (dissolved)	µg/L	50	14.2 U	2.0 U	2.0 U	2.0 U	29
Copper (dissolved)	µg/L	2.4	3.75	5.0 U	5.0 U	5.0 U	25 U
Lead (dissolved)	µg/L	8.1	0.06 U	3.0 U	3.0 U	3.0 U	30 U
Mercury (dissolved)	µg/L	0.025	0.044 U	-	-	-	-
Nickel (dissolved)	µg/L	8.2	7.51	5.1	5.0 U	5.0 U	46
Thallium (dissolved)	µg/L	0.47	0.065 U	5.0 U	5.0 U	5.0 U	25 U
Zinc (dissolved)	µg/L	81	1.88 U	55	70	70	250
Metals~Total							
Arsenic	µg/L	0.14	-	60	5 U	5 U	110
Chromium	µg/L	50	-	47	2 U	2 U	32
Copper	µg/L	2.4	-	140	5 U	5 U	25 U
Lead	µg/L	8.1	-	170	3 U	3 U	21
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	64	5 U	5 U	47
Thallium	µg/L	0.47	-	5 U	5 U	5 U	25 U
Zinc	µg/L	81	-	320	61	79	190

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PZ-4	PZ-5	PZ-6	PZ-7	PZ-8
Sample ID:	PZ-4	PZ-5	PZ-6	PZ-7	PZ-8
Sample Date:	7/1/2004	7/1/2004	7/1/2004	7/1/2004	7/1/2004
Sample Depth:	0.5 to 1.5 ft BML	6 to 7 ft BML	6 to 7 ft BML	2 to 3 ft BML	1.5 to 2.5 ft BML
elev_MLLW	-25.57614158 to -26.57614158	-34.70391067 to -35.70391067	-32.37980696 to -33.37980696	-21.51413147 to -22.51413147	-43.15165518 to -44.15165518
elev_NGVD	-31.9 to -32.9	-41 to -42	-38.7 to -39.7	-27.8 to -28.8	-49.5 to -50.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	110	24	6.2	150	39
Chromium (dissolved)	µg/L	50	34	2.0 U	2.0 U	330	380
Copper (dissolved)	µg/L	2.4	25 U	5.0 U	5.0 U	25 U	32
Lead (dissolved)	µg/L	8.1	48	3.0 U	3.0 U	15 U	15 U
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	61	5.0 U	5.0 U	40	62
Thallium (dissolved)	µg/L	0.47	25 U	5.0 U	5.0 U	25 U	25 U
Zinc (dissolved)	µg/L	81	150	31	30	110	100

Metals~Total

Arsenic	µg/L	0.14	97	34	14	150	37
Chromium	µg/L	50	37	19	16	430	370
Copper	µg/L	2.4	25 U	54	36	25 U	32
Lead	µg/L	8.1	100	49	68	15 U	15 U
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	67	30	27	56	66
Thallium	µg/L	0.47	25 U	5 U	5 U	25 U	25 U
Zinc	µg/L	81	270	110	110	120	80

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PZ-9	PZ-SHI-1-33	PZ-SHI-1-75	PZ-SHI-1-100	PZ-SHI-1-126		
Sample ID:	PZ-9	GW-042706-TR-PZ-SHI-1-4	GW-042706-TS-PZ-SHI-1-75	GW-042706-TR-PZ-SHI-1-100	GW-042706-TR-PZ-SHI-1-130		
Sample Date:	7/1/2004	4/27/2006	4/27/2006	4/27/2006	4/27/2006		
Sample Depth:	4 to 5 ft BML	2.25 to 3.25 ft bml	41 to 46 ft bml	66 to 71 ft bml	96 to 101 ft bml		
elev_MLLW	-42.3135332 to -43.3135332	-14.07 to -15.07	-52.8 to -57.8	-77.79 to -82.79	-105.82 to -110.82		
elev_NGVD	-48.6 to -49.6	-20.4 to -21.4	-59.1 to -64.1	-84.1 to -89.1	-112.1 to -117.1		
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	5.0 U	0.37 U	0.37 U	0.37 U	15
Chromium (dissolved)	µg/L	50	2.0 U	2.0	2.8	3.4	130
Copper (dissolved)	µg/L	2.4	5.0 U	20 J	23 J	9.6 J	29 J
Lead (dissolved)	µg/L	8.1	3.0 U	0.030 U	0.016 U	0.035 U	0.030 U
Mercury (dissolved)	µg/L	0.025	-	0.055 U	0.055 U	0.055 U	0.055 U
Nickel (dissolved)	µg/L	8.2	5.0 U	44 J	33 J	360 J	110 J
Thallium (dissolved)	µg/L	0.47	5.0 U	0.019 U	0.019 U	0.019 U	0.019 U
Zinc (dissolved)	µg/L	81	42	2.8 U	1.0 U	0.26 U	5.9 U
Metals~Total							
Arsenic	µg/L	0.14	5 U	-	-	-	-
Chromium	µg/L	50	2 U	-	-	-	-
Copper	µg/L	2.4	5.7	-	-	-	-
Lead	µg/L	8.1	3 U	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	5 U	-	-	-	-
Thallium	µg/L	0.47	5 U	-	-	-	-
Zinc	µg/L	81	51	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:		PZ-SHI-2-25	PZ-SHI-2-25	PZ-SHI-2-75	PZ-SHI-2-100	PZ-SHI-3-42
Sample ID:		GW-042806-TR-PZ-SHI-2-4	GW-042806-TR-PZ-SHI-2-5	WG-082512-AMK-PZ-SHI-2-75-291	WG-082512-LP-PZ-SHI-2-100-292	GW-042706-TR-PZ-SHI-3-4
Sample Date:		4/28/2006	4/28/2006	8/25/2012	8/25/2012	4/27/2006
Sample Depth:		3.75 to 4.75 ft bml	3.75 to 4.75 ft bml	75 ft BGS	100 ft BGS	14.5 to 15.5 ft bml
elev_MLLW		-6 to -7	-6 to -7	-72.86	-99.62	-21.96 to -22.96
elev_NGVD		-12.3 to -13.3	-12.3 to -13.3	-79.2	-105.9	-28.3 to -29.3
Parameters	Units	CSI	WG			
Metals~Dissolved						
Arsenic (dissolved)	µg/L	0.14	5.0	3.67 J	-	450
Chromium (dissolved)	µg/L	50	1.81 J	1.92 J	-	180
Copper (dissolved)	µg/L	2.4	3.53 J	3.72 J	-	14 J
Lead (dissolved)	µg/L	8.1	0.45 J	0.69 J	-	0.47
Mercury (dissolved)	µg/L	0.025	0.055 U	0.2 U	-	0.055 U
Nickel (dissolved)	µg/L	8.2	4.8 J	7.83 J	-	440 J
Thallium (dissolved)	µg/L	0.47	0.019 U	1 UJ	-	0.019 U
Zinc (dissolved)	µg/L	81	8.22 J	8.35 J	-	9.0 U
Metals~Total						
Arsenic	µg/L	0.14	-	-	21.5	124
Chromium	µg/L	50	-	-	677 J	128 J
Copper	µg/L	2.4	-	-	8.58	3.42 J
Lead	µg/L	8.1	-	-	1.000 U	1.830
Mercury	µg/L	0.025	-	-	0.28 J	0.35 J
Nickel	µg/L	8.2	-	-	96.9	88.8
Thallium	µg/L	0.47	-	-	1.0000 U	1.0000 U
Zinc	µg/L	81	-	-	25.0 U	25.0 U

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PZ-SHI-3-75	PZ-SHI-3-100	SP-1	SP-1	SP-1	SP-1
Sample ID:	WG-082512-AMK-PZ-SHI-3-75-293	GW-042706-TR-PZ-SHI-3-100	GW-062306-LH-SP1-001	GW-062306-LH-SP1-002	GW-062306-LH-SP1-003	GW-062306-LH-SP1-004
Sample Date:	8/25/2012	4/27/2006	6/23/2006	6/23/2006	6/23/2006	6/23/2006
Sample Depth:	75 ft BGS	70 to 75 ft bml	9 to 12 ft bgs	18 to 21 ft bgs	23 to 26 ft bgs	34 to 37 ft bgs
elev_MLLW	-81.96	-76.96 to -81.96	8.92 to 5.92	-0.08 to -3.08	-5.08 to -8.08	-16.08 to -19.08
elev_NGVD	-88.3	-83.3 to -88.3	2.6 to -0.4	-6.4 to -9.4	-11.4 to -14.4	-22.4 to -25.4

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	-	1.7	32.5 J	10 UJ	2.1 J	4.9 J
Chromium (dissolved)	µg/L	50	-	3.5	4.8 UJ	3.7 UJ	7.1 UJ	152 J
Copper (dissolved)	µg/L	2.4	-	8.4 J	21.3 J	1.2 UJ	2.1 UJ	3.9 UJ
Lead (dissolved)	µg/L	8.1	-	0.13 U	21.4 J	10 UJ	4.7 J	2.1 UJ
Mercury (dissolved)	µg/L	0.025	-	0.055 U	0.144 J	0.2 U	0.11 J	1 U
Nickel (dissolved)	µg/L	8.2	-	42 J	6.1 J	7.5 J	10.2 J	26 J
Thallium (dissolved)	µg/L	0.47	-	0.019 U	10 UJ	10 UJ	10 UJ	10 UJ
Zinc (dissolved)	µg/L	81	-	0.26 U	29.1 UJ	20.3 UJ	100 UJ	18 UJ

Metals~Total

Arsenic	µg/L	0.14	4.08 J	-	-	-	-	-
Chromium	µg/L	50	44.8 J	-	-	-	-	-
Copper	µg/L	2.4	5.00 U	-	-	-	-	-
Lead	µg/L	8.1	1.070	-	-	-	-	-
Mercury	µg/L	0.025	0.06 J	-	-	-	-	-
Nickel	µg/L	8.2	10.0 U	-	-	-	-	-
Thallium	µg/L	0.47	1.0000 U	-	-	-	-	-
Zinc	µg/L	81	25.0 U	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-1	SP-1	SP-1	SP-1	SP-1	SP-1
Sample ID:	GW-062606-LH-SP1-005	GW-062606-LH-SP1-006	GW-062606-LH-SP1-007	GW-062606-LH-SP1-008	GW-062806-DR-SP1-011	GW-062706-LH-SP1-009
Sample Date:	6/26/2006	6/26/2006	6/26/2006	6/26/2006	6/28/2006	6/27/2006
Sample Depth:	43 to 46 ft bgs	48 to 51 ft bgs	58 to 61 ft bgs	68 to 71 ft bgs	88 to 91 ft bgs	98 to 101 ft bgs
elev_MLLW	-25.08 to -28.08	-30.08 to -33.08	-40.08 to -43.08	-50.08 to -53.08	-70.08 to -73.08	-80.08 to -83.08
elev_NGVD	-31.4 to -34.4	-36.4 to -39.4	-46.4 to -49.4	-56.4 to -59.4	-76.4 to -79.4	-86.4 to -89.4

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	2.8 J	1.6 J	23.7 J	47 J	27.7 J	63.2 J
Chromium (dissolved)	µg/L	50	67.9 J	12 J	221 J	206 J	249 J	72.2 J
Copper (dissolved)	µg/L	2.4	32.1 J	7.8 J	3.8 UJ	7.1 J	7.6 J	3.7 UJ
Lead (dissolved)	µg/L	8.1	8.5 J	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Mercury (dissolved)	µg/L	0.025	0.103 J	0.2 U	1 U	1 U	200 U	0.2 U
Nickel (dissolved)	µg/L	8.2	24.7 J	11.5 J	50.8 J	95 J	116 J	28 J
Thallium (dissolved)	µg/L	0.47	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Zinc (dissolved)	µg/L	81	56.8 J	25 J	19.6 J	100 UJ	24.1 J	24.7 J

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-1	SP-1	SP-1	SP-1	SP-1	SP-1	
Sample ID:	GW-090606-JL-SP1-013	GW-090606-JL-SP1-014	GW-090706-JL-SP1-015	GW-090706-JL-SP1-016	GW-090706-JL-SP1-017	GW-090806-JL-SP1-019	
Sample Date:	9/6/2006	9/6/2006	9/7/2006	9/7/2006	9/7/2006	9/8/2006	
Sample Depth:	118 to 122 ft bgs	128 to 132 ft bgs	138 to 142 ft bgs	148 to 152 ft bgs	158 to 162 ft bgs	178 to 182 ft bgs	
elev_MLLW	-100.08 to -104.08	-110.08 to -114.08	-120.08 to -124.08	-130.08 to -134.08	-140.08 to -144.08	-160.08 to -164.08	
elev_NGVD	-106.4 to -110.4	-116.4 to -120.4	-126.4 to -130.4	-136.4 to -140.4	-146.4 to -150.4	-166.4 to -170.4	
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	126	55.4	2.3 U	27.6	43.1 U 30.6 U
Chromium (dissolved)	µg/L	50	79.1 U	236 U	1.5 U	10.4 U	23.4 U 24.6 U
Copper (dissolved)	µg/L	2.4	272	195	7.5 U	8.2 J	17.5 13.6
Lead (dissolved)	µg/L	8.1	28 U	28 U	2.8 U	2.8 U	2.8 U
Mercury (dissolved)	µg/L	0.025	1.3 U	1.7 U	0.11 U	0.14 U	0.14 U
Nickel (dissolved)	µg/L	8.2	172 U	152 U	4.0 U	7.4 U	11.8 J 12.6
Thallium (dissolved)	µg/L	0.47	2.5 U	2.5 U	0.25 U	1.2 U	0.51 U 0.27 U
Zinc (dissolved)	µg/L	81	575 U	575 U	58 U	91.7 U	58 U 58 U
Metals~Total							
Arsenic	µg/L	0.14	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		SP-1	SP-2	SP-2	SP-2	SP-2	SP-2	
Sample ID:		GW-090806-JL-SP1-020	GW-070706-DR-SP2-001	GW-070706-DR-SP2-002	GW-070706-DR-SP2-003	GW-070706-DR-SP2-004	GW-070706-DR-SP2-005	
Sample Date:		9/8/2006	7/7/2006	7/7/2006	7/7/2006	7/7/2006	7/7/2006	
Sample Depth:		188 to 192 ft bgs	8 to 11 ft bgs	18 to 21 ft bgs	23 to 26 ft bgs	23 to 26 ft bgs	33 to 36 ft bgs	
elev_MLLW		-170.08 to -174.08	9.92 to 6.92	-0.08 to -3.08	-5.08 to -8.08	-5.08 to -8.08	-15.08 to -18.08	
elev_NGVD		-176.4 to -180.4	3.6 to 0.6	-6.4 to -9.4	-11.4 to -14.4	-11.4 to -14.4 (Duplicate)	-21.4 to -24.4	
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	40.3 U	47.6 J	9.9 J	16.1 J	16.0 J	4.7 J
Chromium (dissolved)	µg/L	50	24.9 U	2.9 J	3.3 J	16.3 UJ	5.0 UJ	2.7 J
Copper (dissolved)	µg/L	2.4	15.9	16.7 J	15.5 J	36.1 J	26.2 J	10.7 J
Lead (dissolved)	µg/L	8.1	2.8 U	0.55 UJ	0.82 J	1.7 J	0.78 J	0.55 UJ
Mercury (dissolved)	µg/L	0.025	0.17 U	0.82 UJ	0.70 UJ	1.4 UJ	1.6 UJ	1.0 UJ
Nickel (dissolved)	µg/L	8.2	17.9	2.2 J	1.4 J	5.6 J	20 UJ	14.0 J
Thallium (dissolved)	µg/L	0.47	0.30 U	0.050 UJ	0.052 UJ	0.050 UJ	0.050 UJ	0.050 UJ
Zinc (dissolved)	µg/L	81	58 U	78.6 J	21.0 J	45.5 J	65.5 J	14.2 J
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	SP-2	SP-2	SP-2	SP-2	SP-2	SP-2
Sample ID:	GW-071006-LH-SP2-006	GW-071006-LH-SP2-007	GW-071006-LH-SP2-008	GW-071106-LH-SP2-009	GW-071106-LH-SP2-010	GW-071206-LH-SP2-011
Sample Date:	7/10/2006	7/10/2006	7/10/2006	7/11/2006	7/11/2006	7/12/2006
Sample Depth:	43 to 46 ft bgs	48 to 51 ft bgs	58 to 61 ft bgs	68 to 71 ft bgs	78 to 81 ft bgs	88 to 91 ft bgs
elev_MLLW	-25.08 to -28.08	-30.08 to -33.08	-40.08 to -43.08	-50.08 to -53.08	-60.08 to -63.08	-70.08 to -73.08
elev_NGVD	-31.4 to -34.4	-36.4 to -39.4	-46.4 to -49.4	-56.4 to -59.4	-66.4 to -69.4	-76.4 to -79.4

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	186 J	202 J	189	144	165 J	321 J
Chromium (dissolved)	µg/L	50	557 J	406 J	1320	13.6 U	10 UJ	10 UJ
Copper (dissolved)	µg/L	2.4	120	94.4	158	94.8	109 J	422 J
Lead (dissolved)	µg/L	8.1	5.5 U	5.5 U	5.5 U	5.5 U	5.5 UJ	5.5 UJ
Mercury (dissolved)	µg/L	0.025	1.7 U	1.1 U	1.4 J	1.5 J	0.041 UJ	0.098 UJ
Nickel (dissolved)	µg/L	8.2	114 J	52.6 J	131	40 U	40 UJ	40 UJ
Thallium (dissolved)	µg/L	0.47	1.7 U	5.4 U	2.6 J	1.1 J	0.99 UJ	0.73 UJ
Zinc (dissolved)	µg/L	81	372 J	115 U	115 U	115 U	168 J	394 J

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	SP-2	SP-2	SP-2	SP-2	SP-2	SP-2
Sample ID:	GW-071206-LH-SP2-012	GW-091206-JL-SP2-012	GW-091206-JL-SP2-013	GW-091306-JL-SP2-015	GW-091306-JL-SP2-016	GW-091306-JL-SP2-018
Sample Date:	7/12/2006	9/12/2006	9/12/2006	9/13/2006	9/13/2006	9/13/2006
Sample Depth:	98 to 101 ft bgs	108 to 112 ft bgs	121 to 122 ft bgs	138 to 142 ft bgs	148 to 152 ft bgs	168 to 172 ft bgs
elev_MLLW	-80.08 to -83.08	-90.08 to -94.08	-103.08 to -104.08	-120.08 to -124.08	-130.08 to -134.08	-150.08 to -154.08
elev_NGVD	-86.4 to -89.4	-96.4 to -100.4	-109.4 to -110.4	-126.4 to -130.4	-136.4 to -140.4	-156.4 to -160.4

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	832	0.99 J	45 UJ	9.2 J	10.1 J	28.3 J
Chromium (dissolved)	µg/L	50	10 U	0.31 UJ	449 UJ	18.3 UJ	11.9 UJ	20.6 UJ
Copper (dissolved)	µg/L	2.4	588	0.66 J	222 J	19.5 J	26.2 J	29.0 J
Lead (dissolved)	µg/L	8.1	11.6	0.11 UJ	55 UJ	5.5 UJ	5.5 UJ	5.5 UJ
Mercury (dissolved)	µg/L	0.025	0.91	2.2 UJ	3.4 J	1.6 J	2.1 J	0.34 UJ
Nickel (dissolved)	µg/L	8.2	40 U	0.40 UJ	141 J	8.0 UJ	8.0 UJ	18.7 UJ
Thallium (dissolved)	µg/L	0.47	0.60 U	0.020 UJ	5.2 J	0.50 UJ	0.50 UJ	0.82 J
Zinc (dissolved)	µg/L	81	622 J	3.1 UJ	1150 UJ	115 UJ	115 UJ	115 UJ

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-2	SP-2	SP-2	SP-2	SP-3	SP-3		
Sample ID:	GW-091406-JL-SP2-019	GW-091406-JL-SP2-021	GW-091406-JL-SP2-023	GW-091806-JL-SP2-024	GW-061406-LH-SP3-001	GW-061406-LH-SP3-002		
Sample Date:	9/14/2006	9/14/2006	9/14/2006	9/18/2006	6/14/2006	6/14/2006		
Sample Depth:	178 to 182 ft bgs	198 to 202 ft bgs	218 to 222 ft bgs	228 to 232 ft bgs	7 to 10 ft bgs	18 to 21 ft bgs		
elev_MLLW	-160.08 to -164.08	-180.08 to -184.08	-200.08 to -204.08	-210.08 to -214.08	10.92 to 7.92	-0.08 to -3.08		
elev_NGVD	-166.4 to -170.4	-186.4 to -190.4	-206.4 to -210.4	-216.4 to -220.4	4.6 to 1.6	-6.4 to -9.4		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	4.5 UJ	15.4 J	10.1 J	53.7	14.1 J	25.6 J
Chromium (dissolved)	µg/L	50	20.2 UJ	21.6 UJ	17.4 U	2.6	4 J	7.5 J
Copper (dissolved)	µg/L	2.4	15 UJ	30.0 J	31.5 J	27.0	14.8 J	1.2 J
Lead (dissolved)	µg/L	8.1	5.5 UJ	5.5 UJ	5.5 U	0.55 U	2.1 J	R
Mercury (dissolved)	µg/L	0.025	0.92 J	0.14 UJ	0.13 U	0.064 U	0.2 U	0.5 U
Nickel (dissolved)	µg/L	8.2	15.6 UJ	13.3 UJ	14.9 U	25.0	3.1 J	5.8 J
Thallium (dissolved)	µg/L	0.47	0.50 UJ	0.51 J	0.50 U	0.050 U	R	R
Zinc (dissolved)	µg/L	81	115 UJ	115 UJ	115 U	14.0 J	R	R
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	SP-3	SP-3	SP-3	SP-3	SP-3	SP-3
Sample ID:	GW-061406-LH-SP3-003	GW-061506-LH-SP3-004	GW-061506-LH-SP3-005	GW-061506-LH-SP3-006	GW-061506-LH-SP3-007	GW-061506-LH-SP3-008
Sample Date:	6/14/2006	6/15/2006	6/15/2006	6/15/2006	6/15/2006	6/15/2006
Sample Depth:	23 to 26 ft bgs	33 to 36 ft bgs	43 to 46 ft bgs	48 to 51 ft bgs	58 to 61 ft bgs	68 to 71 ft bgs
elev_MLLW	-5.08 to -8.08	-15.08 to -18.08	-25.08 to -28.08	-30.08 to -33.08	-40.08 to -43.08	-50.08 to -53.08
elev_NGVD	-11.4 to -14.4	-21.4 to -24.4	-31.4 to -34.4	-36.4 to -39.4	-46.4 to -49.4	-56.4 to -59.4

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	1.4 J	11.8 J	38.1 J	42.2 J	43.3 J	26.1 J
Chromium (dissolved)	µg/L	50	17 J	29.4 J	267 J	538 J	582 J	735 J
Copper (dissolved)	µg/L	2.4	11 J	4.8 J	9.4 J	17.5 J	24 J	26.2 J
Lead (dissolved)	µg/L	8.1	11 J	2.3 J	2.6 J	2 J	2.6 J	2 J
Mercury (dissolved)	µg/L	0.025	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nickel (dissolved)	µg/L	8.2	R	29.2 J	106 J	137 J	160 J	193 J
Thallium (dissolved)	µg/L	0.47	R	R	R	R	R	R
Zinc (dissolved)	µg/L	81	R	23.7 J	22.1 J	R	20.8 J	21.9 J

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	SP-3	SP-3	SP-3	SP-3	SP-3	SP-3
Sample ID:	GW-061906-LH-SP3-010	GW-061906-DR-SP3-011	GW-061606-LH-SP3-009	GW-092606-JC-SP3-012	GW-092606-JC-SP3-013	GW-092706-JC-SP3-015
Sample Date:	6/19/2006	6/19/2006	6/16/2006	9/26/2006	9/26/2006	9/27/2006
Sample Depth:	78 to 81 ft bgs	87 to 90 ft bgs	99 to 101 ft bgs	108 to 112 ft bgs	118 to 122 ft bgs	138 to 142 ft bgs
elev_MLLW	-60.08 to -63.08	-69.08 to -72.08	-81.08 to -83.08	-90.08 to -94.08	-100.08 to -104.08	-120.08 to -124.08
elev_NGVD	-66.4 to -69.4	-75.4 to -78.4	-87.4 to -89.4	-96.4 to -100.4	-106.4 to -110.4	-126.4 to -130.4

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	23 J	35 J	252 J	393	93.5	26.6
Chromium (dissolved)	µg/L	50	298 J	350 J	220 J	20 U	20 U	8.8 U
Copper (dissolved)	µg/L	2.4	14 J	14 J	45 J	149	112	13.3
Lead (dissolved)	µg/L	8.1	R	R	R	11 U	11 U	0.55 U
Mercury (dissolved)	µg/L	0.025	0.5 U	0.5 U	5 U	1.0 U	1.0 U	0.17 U
Nickel (dissolved)	µg/L	8.2	80 J	113 J	112 J	127	98.4	10.4
Thallium (dissolved)	µg/L	0.47	R	R	R	1.0 U	1.0 U	0.050 U
Zinc (dissolved)	µg/L	81	140 J	336 J	522 J	230 U	230 U	19.2 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-3	SP-3	SP-3	SP-3	SP-3	SP-4
Sample ID:	GW-092806-JC-SP3-017	GW-092806-ILM-SP3-018	GW-092906-ILM-SP3-019	GW-093006-ILM-SP3-020	GW-100206-ILM-SP3-021	GW-062006-DR-SP4-001
Sample Date:	9/28/2006	9/28/2006	9/29/2006	9/30/2006	10/2/2006	6/20/2006
Sample Depth:	158 to 162 ft bgs	168 to 172 ft bgs	178 to 182 ft bgs	188 to 192 ft bgs	198 to 202 ft bgs	9 to 12 ft bgs
elev_MLLW	-140.08 to -144.08	-150.08 to -154.08	-160.08 to -164.08	-170.08 to -174.08	-180.08 to -184.08	8.92 to 5.92
elev_NGVD	-146.4 to -150.4	-156.4 to -160.4	-166.4 to -170.4	-176.4 to -180.4	-186.4 to -190.4	2.6 to -0.4

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	66.2 J	36.8 J	126	181	26.4 J	10 UJ
Chromium (dissolved)	µg/L	50	5.6 U	4.8 U	2.1 U	2.0	1.1 J	1.8 UJ
Copper (dissolved)	µg/L	2.4	16.9	11.5	17.4 U	22.6	15.4 J	2.7 UJ
Lead (dissolved)	µg/L	8.1	1.5	0.55 U	0.11 U	0.76 J	0.66 J	1.7 UJ
Mercury (dissolved)	µg/L	0.025	0.085 U	0.091 U	0.12 U	0.13 U	0.13 U	0.2 U
Nickel (dissolved)	µg/L	8.2	12.6 J	8.0 J	12.1	15.3	23.8 J	10 UJ
Thallium (dissolved)	µg/L	0.47	0.050 U	0.050 U	0.83	0.33	0.01 UJ	10 UJ
Zinc (dissolved)	µg/L	81	18.5 U	15.0 U	3.3 J	2.3 U	15.9 J	37.5 UJ

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-4	SP-4	SP-4	SP-4	SP-4	SP-4		
Sample ID:	GW-062006-DR-SP4-002	GW-062006-DR-SP4-003	GW-062006-DR-SP4-004	GW-062006-DR-SP4-005	GW-062106-DR-SP4-006	GW-062106-DR-SP4-007		
Sample Date:	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/21/2006	6/21/2006		
Sample Depth:	18 to 21 ft bgs	18 to 21 ft bgs	23 to 26 ft bgs	33 to 36 ft bgs	43 to 46 ft bgs	48 to 51 ft bgs		
elev_MLLW	-0.08 to -3.08	-0.08 to -3.08	-5.08 to -8.08	-15.08 to -18.08	-25.08 to -28.08	-30.08 to -33.08		
elev_NGVD	-6.4 to -9.4	-6.4 to -9.4 (Duplicate)	-11.4 to -14.4	-21.4 to -24.4	-31.4 to -34.4	-36.4 to -39.4		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	3.1 J	2.9 J	4.1 J	10 UJ	2.4 J	3.3 J
Chromium (dissolved)	µg/L	50	12.8 J	4.3 UJ	2.9 UJ	2.1 UJ	7 UJ	3.8 UJ
Copper (dissolved)	µg/L	2.4	10 UJ	1.1 UJ	1.3 UJ	1.3 UJ	1 UJ	1.3 UJ
Lead (dissolved)	µg/L	8.1	1.3 UJ	3 UJ	1.2 UJ	1.2 UJ	1.4 UJ	1.5 UJ
Mercury (dissolved)	µg/L	0.025	0.2 U	0.2 U	0.107 J	0.2 U	0.2 U	0.2 U
Nickel (dissolved)	µg/L	8.2	10 UJ	10 UJ	10 UJ	10 UJ	3.1 J	10 UJ
Thallium (dissolved)	µg/L	0.47	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Zinc (dissolved)	µg/L	81	25.8 UJ	23.9 UJ	200 J	24.1 UJ	33.8 UJ	47.1 UJ
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-4	SP-4	SP-4	SP-4	SP-4	SP-4
Sample ID:	GW-062106-DR-SP4-008	GW-062106-DR-SP4-009	GW-062206-DR-SP4-010	GW-062206-DR-SP4-011	GW-092006-JL-SP4-012	GW-092106-JL-SP4-013
Sample Date:	6/21/2006	6/21/2006	6/22/2006	6/22/2006	9/20/2006	9/21/2006
Sample Depth:	58 to 61 ft bgs	68 to 71 ft bgs	78 to 81 ft bgs	88 to 91 ft bgs	108 to 112 ft bgs	118 to 122 ft bgs
elev_MLLW	-40.08 to -43.08	-50.08 to -53.08	-60.08 to -63.08	-70.08 to -73.08	-90.08 to -94.08	-100.08 to -104.08
elev_NGVD	-46.4 to -49.4	-56.4 to -59.4	-66.4 to -69.4	-76.4 to -79.4	-96.4 to -100.4	-106.4 to -110.4

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	SP-4 (008)	SP-4 (009)	SP-4 (010)	SP-4 (011)	SP-4 (012)	SP-4 (013)
Arsenic (dissolved)	µg/L	0.14		4.8 J	9.8 J	7.8 J	62.7 J	31.5 J	18.9 J
Chromium (dissolved)	µg/L	50	10.1 UJ	447 J	66.5 J	134 J	18.2 J	87.8 J	
Copper (dissolved)	µg/L	2.4	7.1 UJ	22.9 J	1.8 UJ	16.5 J	21.4 J	182 J	
Lead (dissolved)	µg/L	8.1	1 UJ	2 UJ	1.5 UJ	10 UJ	4.6 J	28.4 J	
Mercury (dissolved)	µg/L	0.025	0.2 U	0.658 U	1 U	0.62 U	0.082 UJ	0.12 UJ	
Nickel (dissolved)	µg/L	8.2	5.3 J	28.6 J	24.2 J	33.5 J	10.7 J	157 J	
Thallium (dissolved)	µg/L	0.47	10 UJ	10 UJ	10 UJ	10 UJ	0.070 J	0.42 J	
Zinc (dissolved)	µg/L	81	43.9 UJ	44 UJ	28.6 UJ	100 UJ	12 UJ	353 J	

Metals~Total

Parameter	Units	CSI	WG	SP-4 (008)	SP-4 (009)	SP-4 (010)	SP-4 (011)	SP-4 (012)	SP-4 (013)
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-4	SP-4	SP-4	SP-4	SP-4	SP-5		
Sample ID:	GW-092106-JL-SP4-015	GW-092106-JL-SP4-016	GW-092206-LH-SP4-017	GW-092206-JC-SP4-018	GW-092506-JC-SP4-019	GW-060206-DR-SP5-001		
Sample Date:	9/21/2006	9/21/2006	9/22/2006	9/22/2006	9/25/2006	6/2/2006		
Sample Depth:	138 to 142 ft bgs	148 to 152 ft bgs	158 to 162 ft bgs	168 to 172 ft bgs	178 to 182 ft bgs	9 to 12 ft bgs		
elev_MLLW	-120.08 to -124.08	-130.08 to -134.08	-140.08 to -144.08	-150.08 to -154.08	-160.08 to -164.08	8.92 to 5.92		
elev_NGVD	-126.4 to -130.4	-136.4 to -140.4	-146.4 to -150.4	-156.4 to -160.4	-166.4 to -170.4	2.6 to -0.4		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	19.6 J	0.45 UJ	31.1 J	5.0 J	53.9	28.2
Chromium (dissolved)	µg/L	50	1.6 J	0.91 UJ	5.1 J	1.5 J	2.5 U	15.1 U
Copper (dissolved)	µg/L	2.4	8.9 J	1.5 UJ	17.6 J	3.4 J	27.9	33.4 J
Lead (dissolved)	µg/L	8.1	0.55 UJ	0.55 UJ	0.76 J	0.55 UJ	0.83 J	11 U
Mercury (dissolved)	µg/L	0.025	0.041 UJ	0.041 UJ	0.041 UJ	0.041 UJ	0.17 U	0.082 U
Nickel (dissolved)	µg/L	8.2	8.3 J	0.80 UJ	17.3 J	3.2 J	20.2	16 U
Thallium (dissolved)	µg/L	0.47	0.054 J	0.097 J	0.050 UJ	0.087 J	0.050 U	1.1 J
Zinc (dissolved)	µg/L	81	12 UJ	12 UJ	12 UJ	12 UJ	12 U	230 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5		
Sample ID:	GW-060206-DR-SP5-002	GW-060206-DR-SP5-003	GW-060506-LH-SP5-004	GW-060906-LH-SP5-005	GW-061206-LH-SP5-006	GW-061206-LH-SP5-007		
Sample Date:	6/2/2006	6/2/2006	6/5/2006	6/9/2006	6/12/2006	6/12/2006		
Sample Depth:	18 to 21 ft bgs	23 to 26 ft bgs	33 to 36 ft bgs	43 to 46 ft bgs	48 to 51 ft bgs	58 to 61 ft bgs		
elev_MLLW	-0.08 to -3.08	-5.08 to -8.08	-15.08 to -18.08	-25.08 to -28.08	-30.08 to -33.08	-40.08 to -43.08		
elev_NGVD	-6.4 to -9.4	-11.4 to -14.4	-21.4 to -24.4	-31.4 to -34.4	-36.4 to -39.4	-46.4 to -49.4		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	23 U	32.9 J	276 J	142 J	212	184
Chromium (dissolved)	µg/L	50	31.2 U	44.7 U	12.5 U	101 J	54.1 U	168 U
Copper (dissolved)	µg/L	2.4	75 U	75 U	75.0 J	90.6 J	75.8	103
Lead (dissolved)	µg/L	8.1	28 U	28 U	0.87 J	6.0 J	10.0	8.7
Mercury (dissolved)	µg/L	0.025	0.082 U	0.082 U	0.041 U	0.51 UJ	1.9	0.20 U
Nickel (dissolved)	µg/L	8.2	40 U	40 U	20 U	20.3 J	14.5	80 U
Thallium (dissolved)	µg/L	0.47	2.8 J	2.5 U	0.050 U	0.25 U	5.0	1.4 U
Zinc (dissolved)	µg/L	81	575 U	575 U	14.6 J	58 U	59.6 J	58 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5
Sample ID:	GW-061206-LH-SP5-008	GW-061206-LH-SP5-009	GW-061306-LH-SP5-010	GW-061306-LH-SP5-011	GW-073106-DR-SP5-012	GW-080106-DR-SP5-013
Sample Date:	6/12/2006	6/12/2006	6/13/2006	6/13/2006	7/31/2006	8/1/2006
Sample Depth:	68 to 71 ft bgs	78 to 81 ft bgs	88 to 91 ft bgs	98 to 101 ft bgs	108 to 112 ft bgs	118 to 122 ft bgs
elev_MLLW	-50.08 to -53.08	-60.08 to -63.08	-70.08 to -73.08	-80.08 to -83.08	-90.08 to -94.08	-100.08 to -104.08
elev_NGVD	-56.4 to -59.4	-66.4 to -69.4	-76.4 to -79.4	-86.4 to -89.4	-96.4 to -100.4	-106.4 to -110.4

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	264	228	275 J	161 J	167	117
Chromium (dissolved)	µg/L	50	113	126	817 J	59.2 U	40 UJ	40 UJ
Copper (dissolved)	µg/L	2.4	95.6	76.3	368	137	167 J	247 J
Lead (dissolved)	µg/L	8.1	2.8 U	2.8 U	5.5 U	5.5 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025	0.20 U	0.20 U	0.41 U	0.41 U	0.41 U	0.41 U
Nickel (dissolved)	µg/L	8.2	34.4	28.6	177 J	200 U	160 UJ	160 UJ
Thallium (dissolved)	µg/L	0.47	0.66 U	0.46 U	0.50 U	8.0 J	0.50 U	3.6 J
Zinc (dissolved)	µg/L	81	58 U	58 U	115 U	115 U	115 U	115 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-5	SP-5	SP-6	SP-6	SP-6	SP-6
Sample ID:	GW-080106-DR-SP5-014	GW-080106-DR-SP5-015	GW-060506-DR-SP6-001	GW-060506-DR-SP6-002	GW-060606-LH-SP6-003	GW-060606-LH-SP6-004
Sample Date:	8/1/2006	8/1/2006	6/5/2006	6/5/2006	6/6/2006	6/6/2006
Sample Depth:	128 to 132 ft bgs	138 to 142 ft bgs	7 to 10 ft bgs	18 to 21 ft bgs	23 to 26 ft bgs	33 to 36 ft bgs
elev_MLLW	-110.08 to -114.08	-120.08 to -124.08	10.92 to 7.92	-0.08 to -3.08	-5.08 to -8.08	-15.08 to -18.08
elev_NGVD	-116.4 to -120.4	-126.4 to -130.4	4.6 to 1.6	-6.4 to -9.4	-11.4 to -14.4	-21.4 to -24.4

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	38.5	44.1	65.8 J	190 J	456 J	69.0 J
Chromium (dissolved)	µg/L	50	5.3 J	6.7 J	8.0 U	24.7 U	13.0 U	30.9 U
Copper (dissolved)	µg/L	2.4	19.7 J	20.2 J	47.0 J	173 J	508 J	141 J
Lead (dissolved)	µg/L	8.1	2.4	11.1	22.6	0.55 U	0.55 U	0.55 U
Mercury (dissolved)	µg/L	0.025	0.041 U	0.041 U	0.041 U	0.054 U	0.057 U	0.082 U
Nickel (dissolved)	µg/L	8.2	7.7 J	4.3 J	13.5	36.7	49.5	23.7
Thallium (dissolved)	µg/L	0.47	0.12 J	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Zinc (dissolved)	µg/L	81	12 U	12 U	12 U	12 U	12 U	12.2 J

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-6	SP-6	SP-6	SP-6	SP-6	SP-6
Sample ID:	GW-060606-DR-SP6-005	GW-060606-DR-SP6-006	GW-060606-DR-SP6-007	GW-060706-DR-SP6-008	GW-060706-DR-SP6-009	GW-060706-LH-SP6-010
Sample Date:	6/6/2006	6/6/2006	6/6/2006	6/7/2006	6/7/2006	6/7/2006
Sample Depth:	43 to 46 ft bgs	48 to 51 ft bgs	48 to 51 ft bgs	58 to 61 ft bgs	68 to 71 ft bgs	78 to 81 ft bgs
elev_MLLW	-25.08 to -28.08	-30.08 to -33.08	-30.08 to -33.08	-40.08 to -43.08	-50.08 to -53.08	-60.08 to -63.08
elev_NGVD	-31.4 to -34.4	-36.4 to -39.4	-36.4 to -39.4	-46.4 to -49.4	-56.4 to -59.4	-66.4 to -69.4

(Duplicate)

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	135	140	123	147	136	321 U
Chromium (dissolved)	µg/L	50	40.5 U	134	134	119	223 U	714 U
Copper (dissolved)	µg/L	2.4	133	162	142	129	132	150 U
Lead (dissolved)	µg/L	8.1	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	55 U
Mercury (dissolved)	µg/L	0.025	0.041 U	0.20 U	0.20 U	0.41 U	0.41 U	0.86 U
Nickel (dissolved)	µg/L	8.2	73.3	47.7	49.3	90.5	131 U	180 U
Thallium (dissolved)	µg/L	0.47	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	6.8 U
Zinc (dissolved)	µg/L	81	115 U	115 U	115 U	115 U	115 U	1150 U

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-6	SP-6	SP-6	SP-6	SP-6	SP-6		
Sample ID:	GW-060706-LH-SP6-011	GW-060806-LH-SP6-012	GW-082306-BG-SP6-013	GW-082406-JC-SP6-015	GW-082806-JW-SP6-016	GW-082806-JW-SP6-017		
Sample Date:	6/7/2006	6/8/2006	8/23/2006	8/24/2006	8/28/2006	8/28/2006		
Sample Depth:	88 to 91 ft bgs	98 to 101 ft bgs	117 to 121 ft bgs	137 to 141 ft bgs	157 to 161 ft bgs	167 to 171 ft bgs		
elev_MLLW	-70.08 to -73.08	-80.08 to -83.08	-99.08 to -103.08	-119.08 to -123.08	-139.08 to -143.08	-149.08 to -153.08		
elev_NGVD	-76.4 to -79.4	-86.4 to -89.4	-105.4 to -109.4	-125.4 to -129.4	-145.4 to -149.4	-155.4 to -159.4		
Parameters	Units	CSI	WG					
Metals~Dissolved								
Arsenic (dissolved)	µg/L	0.14	273 U	106 J	209 J	41.7 J	0.86 J	112 J
Chromium (dissolved)	µg/L	50	192 U	467 UJ	193 UJ	5.1 UJ	0.96	0.23 J
Copper (dissolved)	µg/L	2.4	167 J	154 J	258 J	13.7	3.1	17.3
Lead (dissolved)	µg/L	8.1	55 U	2.8 UJ	5.5 UJ	0.55 U	0.39	0.13 J
Mercury (dissolved)	µg/L	0.025	1.5 U	1.9 UJ	0.17 UJ	0.14 U	0.11 U	0.19 U
Nickel (dissolved)	µg/L	8.2	80 U	139 J	160 UJ	8.1 J	1.1	20.4
Thallium (dissolved)	µg/L	0.47	5.0 U	0.25 UJ	0.50 UJ	0.050 U	0.01 U	0.010 U
Zinc (dissolved)	µg/L	81	1150 U	62.3 UJ	115 UJ	12 U	10.5 U	3.8 U
Metals~Total								
Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-6	SP-7	SP-7	SP-7	SP-7	SP-7
Sample ID:	GW-082906-JW-SP6-018	GW-062806-LH-SP7-001	GW-062806-LH-SP7-002	GW-062806-LH-SP7-003	GW-062906-LH-SP7-004	GW-062906-LH-SP7-005
Sample Date:	8/29/2006	6/28/2006	6/28/2006	6/28/2006	6/29/2006	6/29/2006
Sample Depth:	177 to 181 ft bgs	8 to 11 ft bgs	18 to 21 ft bgs	23 to 26 ft bgs	33 to 36 ft bgs	43 to 46 ft bgs
elev_MLLW	-159.08 to -163.08	9.92 to 6.92	-0.08 to -3.08	-5.08 to -8.08	-15.08 to -18.08	-25.08 to -28.08
elev_NGVD	-165.4 to -169.4	3.6 to 0.6	-6.4 to -9.4	-11.4 to -14.4	-21.4 to -24.4	-31.4 to -34.4

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	SP-6	SP-7	SP-7	SP-7	SP-7	SP-7
Arsenic (dissolved)	µg/L	0.14		125 J	74.9	63.6	95.6	82.8	102
Chromium (dissolved)	µg/L	50		6.4	26.7 U	34.3 U	67.0 J	129	183
Copper (dissolved)	µg/L	2.4		21.8	241	235	182	86.3	110
Lead (dissolved)	µg/L	8.1		2.4	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U
Mercury (dissolved)	µg/L	0.025		0.15 U	0.20 U	0.13 U	0.36 U	0.55 U	0.63 U
Nickel (dissolved)	µg/L	8.2		14.3	46.7	48.8	47.7 J	37.9	66.1
Thallium (dissolved)	µg/L	0.47		0.016 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Zinc (dissolved)	µg/L	81		14.8 U	259 U	147 U	143 U	185 U	151 U

Metals~Total

Parameter	Units	CSI	WG	SP-6	SP-7	SP-7	SP-7	SP-7	SP-7
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-7	SP-7	SP-7	SP-7	SP-7	SP-7
Sample ID:	GW-063006-LH-SP7-006	GW-070506-DR-SP7-007	GW-070506-DR-SP7-008	GW-070506-DR-SP7-009	GW-070606-DR-SP7-010	GW-083006-JW-SP7-012
Sample Date:	6/30/2006	7/5/2006	7/5/2006	7/5/2006	7/6/2006	8/30/2006
Sample Depth:	48 to 51 ft bgs	58 to 61 ft bgs	68 to 71 ft bgs	78 to 81 ft bgs	88 to 91 ft bgs	107 to 111 ft bgs
elev_MLLW	-30.08 to -33.08	-40.08 to -43.08	-50.08 to -53.08	-60.08 to -63.08	-70.08 to -73.08	-89.08 to -93.08
elev_NGVD	-36.4 to -39.4	-46.4 to -49.4	-56.4 to -59.4	-66.4 to -69.4	-76.4 to -79.4	-95.4 to -99.4

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	162 J	147 U	79.5 U	79.7 U	133 U	865
Chromium (dissolved)	µg/L	50	195 J	28.0 U	1240 J	1090 J	50 U	405 U
Copper (dissolved)	µg/L	2.4	219 J	78.5 U	134 U	151 U	114 U	537
Lead (dissolved)	µg/L	8.1	R	5.5 U	5.5 U	5.8 J	5.5 U	55 U
Mercury (dissolved)	µg/L	0.025	R	1.5 U	0.53 U	0.73 U	0.80 U	4.8
Nickel (dissolved)	µg/L	8.2	71.5 J	40 U	176	266	200 U	400 U
Thallium (dissolved)	µg/L	0.47	7.0 J	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Zinc (dissolved)	µg/L	81	62.1 J	115 U	115 U	115 U	115 U	2370 J

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-7	SP-7	SP-7	SP-7	SP-7	SP-8
Sample ID:	GW-083006-JW-SP7-013	GW-083106-JW-SP7-015	GW-083106-JW-SP7-016	GW-083106-JW-SP7-017	GW-083106-JW-SP7-018	GW-071306-LH-SP8-001
Sample Date:	8/30/2006	8/31/2006	8/31/2006	8/31/2006	8/31/2006	7/13/2006
Sample Depth:	117 to 121 ft bgs	137 to 141 ft bgs	147 to 151 ft bgs	157 to 161 ft bgs	167 to 171 ft bgs	10 to 13 ft bgs
elev_MLLW	-99.08 to -103.08	-119.08 to -123.08	-129.08 to -133.08	-139.08 to -143.08	-149.08 to -153.08	7.92 to 4.92
elev_NGVD	-105.4 to -109.4	-125.4 to -129.4	-135.4 to -139.4	-145.4 to -149.4	-155.4 to -159.4	1.6 to -1.4

Parameters

Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	SP-7 (013)	SP-7 (015)	SP-7 (016)	SP-7 (017)	SP-7 (018)	SP-8 (001)
Arsenic (dissolved)	µg/L	0.14		206	49.0	49.2	65.1 J	83.6 J	9.75 J
Chromium (dissolved)	µg/L	50		190 U	6.5 U	9.6 U	8.9 U	8.3 U	6.15 UJ
Copper (dissolved)	µg/L	2.4		278	10.4	14.3	14.0	16.4	1.4 J
Lead (dissolved)	µg/L	8.1		5.5 U	1.4	1.9	0.55 U	0.61 J	0.65 J
Mercury (dissolved)	µg/L	0.025		1.6 U	0.13 U	0.20 U	0.14 U	0.041 U	0.2 U
Nickel (dissolved)	µg/L	8.2		161	6.6	9.9	8.7 J	16.8 J	4.9 J
Thallium (dissolved)	µg/L	0.47		0.50 U	0.050 U	0.050 U	0.050 U	0.050 U	5 UJ
Zinc (dissolved)	µg/L	81		669 J	12 U	38.5 J	12 U	12 U	9.15 J

Metals~Total

Parameter	Units	CSI	WG	SP-7 (013)	SP-7 (015)	SP-7 (016)	SP-7 (017)	SP-7 (018)	SP-8 (001)
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-8	SP-8	SP-8	SP-8	SP-8	SP-8
Sample ID:	GW-071306-LH-SP8-002	GW-071306-LH-SP8-003	GW-071406-LH-SP8-004	GW-071406-LH-SP8-005	GW-071406-LH-SP8-006	GW-071706-TR-SP8-007
Sample Date:	7/13/2006	7/13/2006	7/14/2006	7/14/2006	7/14/2006	7/17/2006
Sample Depth:	18 to 21 ft bgs	23 to 26 ft bgs	33 to 36 ft bgs	43 to 46 ft bgs	48 to 51 ft bgs	58 to 61 ft bgs
elev_MLLW	-0.08 to -3.08	-5.08 to -8.08	-15.08 to -18.08	-25.08 to -28.08	-30.08 to -33.08	-40.08 to -43.08
elev_NGVD	-6.4 to -9.4	-11.4 to -14.4	-21.4 to -24.4	-31.4 to -34.4	-36.4 to -39.4	-46.4 to -49.4

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	2.3 J	4.6 J	5 UJ	2.95 J	5 UJ	2.7 J
Chromium (dissolved)	µg/L	50	5.45 UJ	5.55 UJ	5.2 UJ	8.25 UJ	5.9 UJ	4.2 UJ
Copper (dissolved)	µg/L	2.4	2.95 J	2.2 J	4.9 J	3 J	2.2 J	4.05 UJ
Lead (dissolved)	µg/L	8.1	1.65 J	0.45 J	0.5 J	0.45 J	0.5 J	0.6 UJ
Mercury (dissolved)	µg/L	0.025	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel (dissolved)	µg/L	8.2	4.65 J	7.1 J	6.25 J	7.45 J	7.45 J	5 J
Thallium (dissolved)	µg/L	0.47	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Zinc (dissolved)	µg/L	81	12 J	9.4 J	14 J	50 UJ	50 UJ	50 UJ

Metals~Total

Arsenic	µg/L	0.14	-	-	-	-	-	-
Chromium	µg/L	50	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-8	SP-8	SP-8	SP-8	SP-8	SP-8
Sample ID:	GW-071706-TR-SP8-008	GW-071706-TR-SP8-009	GW-071806-TR-SP8-010	GW-071806-TR-SP8-011	GW-100306-ILM-SP8-012	GW-071906-LH-SP8-012
Sample Date:	7/17/2006	7/17/2006	7/18/2006	7/18/2006	10/3/2006	7/19/2006
Sample Depth:	68 to 71 ft bgs	78 to 81 ft bgs	88 to 91 ft bgs	98 to 101 ft bgs	104 to 108 ft bgs	108 to 111 ft bgs
elev_MLLW	-50.08 to -53.08	-60.08 to -63.08	-70.08 to -73.08	-80.08 to -83.08	-86.08 to -90.08	-90.08 to -93.08
elev_NGVD	-56.4 to -59.4	-66.4 to -69.4	-76.4 to -79.4	-86.4 to -89.4	-92.4 to -96.4	-96.4 to -99.4

Parameters

Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	SP-8 (GW-071706-TR-SP8-008)	SP-8 (GW-071706-TR-SP8-009)	SP-8 (GW-071806-TR-SP8-010)	SP-8 (GW-071806-TR-SP8-011)	SP-8 (GW-100306-ILM-SP8-012)	SP-8 (GW-071906-LH-SP8-012)
Arsenic (dissolved)	µg/L	0.14		1.8 J	10 UJ	10 UJ	8.5 J	463	37.3 J
Chromium (dissolved)	µg/L	50		3.8 UJ	28.4 J	8.3 J	18.7 J	160 U	41.9 J
Copper (dissolved)	µg/L	2.4		5.6 UJ	7.95 UJ	6.2 UJ	2.2 UJ	508	6.5 UJ
Lead (dissolved)	µg/L	8.1		0.6 UJ	0.6 UJ	5 UJ	1.1 UJ	1.1 U	10 UJ
Mercury (dissolved)	µg/L	0.025		0.2 U	0.2 U	0.2 U	5 U	1.9 U	5 U
Nickel (dissolved)	µg/L	8.2		5.9 J	7.2 J	4.55 J	12.9 J	54.3	16.2 J
Thallium (dissolved)	µg/L	0.47		5 UJ	5 UJ	5 UJ	10 UJ	0.10 U	10 UJ
Zinc (dissolved)	µg/L	81		50 UJ	13.9 UJ	50 UJ	100 UJ	23 U	41.9 UJ

Metals~Total

Parameter	Units	CSI	WG	SP-8 (GW-071706-TR-SP8-008)	SP-8 (GW-071706-TR-SP8-009)	SP-8 (GW-071806-TR-SP8-010)	SP-8 (GW-071806-TR-SP8-011)	SP-8 (GW-100306-ILM-SP8-012)	SP-8 (GW-071906-LH-SP8-012)
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-8	SP-8	SP-8	SP-8	SP-8	SP-8
Sample ID:	GW-072006-LH-SP8-013	GW-100406-ILM-SP8-014	GW-100406-ILM-SP8-015	GW-100506-ILM-SP8-017	GW-100506-ILM-SP8-018	GW-100506-ILM-SP8-019
Sample Date:	7/20/2006	10/4/2006	10/4/2006	10/5/2006	10/5/2006	10/5/2006
Sample Depth:	112 to 115 ft bgs	124 to 128 ft bgs	134 to 138 ft bgs	154 to 158 ft bgs	164 to 168 ft bgs	164 to 168 ft bgs
elev_MLLW	-94.08 to -97.08	-106.08 to -110.08	-116.08 to -120.08	-136.08 to -140.08	-146.08 to -150.08	-146.08 to -150.08
elev_NGVD	-100.4 to -103.4	-112.4 to -116.4	-122.4 to -126.4	-142.4 to -146.4	-152.4 to -156.4	-152.4 to -156.4 (Duplicate)

Parameters	Units	CSI	WG						
Metals~Dissolved									
Arsenic (dissolved)	µg/L	0.14		582 J	204	6.6	42.1	159 J	122 J
Chromium (dissolved)	µg/L	50		31 J	40 U	0.40 U	2.7 U	9.3 J	2.7 J
Copper (dissolved)	µg/L	2.4		7.2 J	249	7.7	27.3	13.1	14.2
Lead (dissolved)	µg/L	8.1		5 UJ	1.1 U	1.7	0.38	0.11 U	0.11 U
Mercury (dissolved)	µg/L	0.025		4.05 J	1.7 U	0.78 U	0.29 U	0.19 U	0.20 U
Nickel (dissolved)	µg/L	8.2		182 J	248	7.8	42.0	11.8 J	14.1 J
Thallium (dissolved)	µg/L	0.47		5 UJ	0.10 U	0.01 U	0.035 U	0.25 U	0.089 U
Zinc (dissolved)	µg/L	81		15.8 UJ	89.0 J	46.6	22.3 U	2.3 U	2.3 U

Metals~Total									
Arsenic	µg/L	0.14		-	-	-	-	-	-
Chromium	µg/L	50		-	-	-	-	-	-
Copper	µg/L	2.4		-	-	-	-	-	-
Lead	µg/L	8.1		-	-	-	-	-	-
Mercury	µg/L	0.025		-	-	-	-	-	-
Nickel	µg/L	8.2		-	-	-	-	-	-
Thallium	µg/L	0.47		-	-	-	-	-	-
Zinc	µg/L	81		-	-	-	-	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	T3-50	T5-120	T6-60	WMUL-01	WMUL-02
Sample ID:	WG-072912-PR-T3-50-294	WG-082512-LP-T5-120-295	WG-082412-LP-T6-60-296	GW-060712-NE-WMUL01-001	GW-061212-MD-WMUL02-001
Sample Date:	7/29/2012	8/25/2012	8/24/2012	6/7/2012	6/12/2012
Sample Depth:	50 ft BGS	120 ft BGS	60 ft BGS	15 to 15 ft BGS	15 to 15 ft BGS
elev_MLLW	-33.01	-102.09	-42.91	3.18 to 3.18	3.21 to 3.21
elev_NGVD	-39.3	-108.4	-49.2	-3.1 to -3.1	-3.1 to -3.1

Parameters Units CSI WG

Metals~Dissolved

Parameter	Units	CSI	WG	T3-50	T5-120	T6-60	WMUL-01	WMUL-02
Arsenic (dissolved)	µg/L	0.14	-	-	-	-	-	-
Chromium (dissolved)	µg/L	50	-	-	-	-	-	-
Copper (dissolved)	µg/L	2.4	-	-	-	-	-	-
Lead (dissolved)	µg/L	8.1	-	-	-	-	-	-
Mercury (dissolved)	µg/L	0.025	-	-	-	-	-	-
Nickel (dissolved)	µg/L	8.2	-	-	-	-	-	-
Thallium (dissolved)	µg/L	0.47	-	-	-	-	-	-
Zinc (dissolved)	µg/L	81	-	-	-	-	-	-

Metals~Total

Parameter	Units	CSI	WG	T3-50	T5-120	T6-60	WMUL-01	WMUL-02
Arsenic	µg/L	0.14	-	3.57	53.3	8.81	-	-
Chromium	µg/L	50	-	8.74	50.6 J	834 J	-	-
Copper	µg/L	2.4	-	0.63 J	4.25 J	14.5	-	-
Lead	µg/L	8.1	-	0.126 J	1.000 U	1.000	12.5	0.158
Mercury	µg/L	0.025	-	0.05 J	0.80 U	0.13 J	-	-
Nickel	µg/L	8.2	-	2.51 J	52.4	56.5	-	-
Thallium	µg/L	0.47	-	0.400 U	1.0000 U	1.0000 U	-	-
Zinc	µg/L	81	-	4.08 J	25.0 U	25.0 U	-	-

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUM-01	WMUM-01	WMUM-02	WW-A1D	WW-A1D		
Sample ID:	GW-061312-SP-WMUM01-001	GW-061312-SP-FD-001	GW-061412-SP-WMUM02-001	GW-082612-KB-WWA1D-001	GW-082612-KB-WWA1D-002		
Sample Date:	6/13/2012	6/13/2012	6/14/2012	8/26/2012	8/26/2012		
Sample Depth:	15 to 15 ft BGS	15 to 15 ft BGS	15 to 15 ft BGS	2 to 2 ft BML	6 to 6 ft BML		
elev_MLLW	3.06 to 3.06	3.06 to 3.06	3.18 to 3.18	-38.08 to -38.08	-42.08 to -42.08		
elev_NGVD	-3.3 to -3.3	-3.3 to -3.3	-3.1 to -3.1	-44.4 to -44.4	-48.4 to -48.4		
		(Duplicate)					
Parameters	Units	CSI	WG				
Metals~Dissolved							
Arsenic (dissolved)	µg/L	0.14	-	-	9.59	6.13	
Chromium (dissolved)	µg/L	50	-	-	0.53 J	0.32 J	
Copper (dissolved)	µg/L	2.4	-	-	0.43 J	1.00 U	
Lead (dissolved)	µg/L	8.1	-	-	0.032 J	0.200 U	
Mercury (dissolved)	µg/L	0.025	-	-	0.03 J	0.02 J	
Nickel (dissolved)	µg/L	8.2	-	-	4.14	2.16	
Thallium (dissolved)	µg/L	0.47	-	-	0.200 U	0.200 U	
Zinc (dissolved)	µg/L	81	-	-	20.7	7.49	
Metals~Total							
Arsenic	µg/L	0.14	-	-	84.3	7.19	
Chromium	µg/L	50	-	-	201 J	5.81 J	
Copper	µg/L	2.4	-	-	303	3.14	
Lead	µg/L	8.1	145	144	44.5	161	0.653
Mercury	µg/L	0.025	-	-	-	1.13	0.04 J
Nickel	µg/L	8.2	-	-	-	129	3.80
Thallium	µg/L	0.47	-	-	-	0.572	0.200 U
Zinc	µg/L	81	-	-	-	427	12.4

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WW-A1D	WW-A1D	WW-A1D	WW-A1D	WW-A1D
Sample ID:	GW-082612-KB-WWA1D-003	GW-082712-KB-WWA1D-004	GW-082812-KB-WWA1D-005	GW-082812-KB-FD001	GW-082912-KB-WWA1D-006
Sample Date:	8/26/2012	8/27/2012	8/28/2012	8/28/2012	8/29/2012
Sample Depth:	11 to 11 ft BML	22 to 22 ft BML	47 to 47 ft BML	47 to 47 ft BML	67 to 67 ft BML
elev_MLLW	-47.08 to -47.08	-58.08 to -58.08	-83.08 to -83.08	-83.08 to -83.08	-103.08 to -103.08
elev_NGVD	-53.4 to -53.4	-64.4 to -64.4	-89.4 to -89.4	-89.4 to -89.4 (Duplicate)	-109.4 to -109.4
Parameters	Units	CSI	WG		
Metals~Dissolved					
Arsenic (dissolved)	µg/L	0.14	16.8	-	2.20, 2.13, 32.5
Chromium (dissolved)	µg/L	50	1.05 J	-	1.43 J, 3.00, 1.98
Copper (dissolved)	µg/L	2.4	0.28 J	-	4.48, 4.62, 3.79
Lead (dissolved)	µg/L	8.1	0.200 U	-	0.084 J, 0.186 J, 0.368
Mercury (dissolved)	µg/L	0.025	0.03 J	-	0.12 J, 0.10 J, 0.20 U
Nickel (dissolved)	µg/L	8.2	3.96	-	10.1, 4.68
Thallium (dissolved)	µg/L	0.47	0.200 U	-	0.200 U, 0.200 U, 0.0018 J
Zinc (dissolved)	µg/L	81	3.99 J	-	5.00 U, 3.16 J, 2.27
Metals~Total					
Arsenic	µg/L	0.14	22.0	702	7.07, 6.74, 31.9
Chromium	µg/L	50	28.3 J	1760	50.7, 47.3, 17.9
Copper	µg/L	2.4	24.1	7230	42.7, 40.3, 22.3
Lead	µg/L	8.1	3.190	425	5.430, 5.110, 3.020
Mercury	µg/L	0.025	0.05 J	7.42	0.21, 0.20, 0.13 J
Nickel	µg/L	8.2	20.1	2790	47.6, 45.1, 23.1
Thallium	µg/L	0.47	0.0103 J	14.4	0.0788 J, 0.0793 J, 0.0334
Zinc	µg/L	81	33.4	4670	56.1, 47.3, 18.6

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WW-A1D	WW-A1D	WW-A1D	WW-A1D	WW-A1R
Sample ID:	GW-082912-KB-WWA1D-007	GW-082912-KB-WWA1D-008	GW-083012-KB-WWA1D-009	GW-083112-KB-WWA1D-010	GW-082112-MD-WWA1R-001
Sample Date:	8/29/2012	8/29/2012	8/30/2012	8/31/2012	8/21/2012
Sample Depth:	77 to 77 ft BML	87 to 87 ft BML	97 to 97 ft BML	110 to 110 ft BML	2 to 2 ft BML
elev_MLLW	-113.08 to -113.08	-123.08 to -123.08	-133.08 to -133.08	-146.08 to -146.08	-36.18 to -36.18
elev_NGVD	-119.4 to -119.4	-129.4 to -129.4	-139.4 to -139.4	-152.4 to -152.4	-42.5 to -42.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	0.78	120	1.44	1.77	-
Chromium (dissolved)	µg/L	50	0.46 J	13.3	2.00 U	1.52 J	-
Copper (dissolved)	µg/L	2.4	4.52	11.8	5.65	6.74	-
Lead (dissolved)	µg/L	8.1	0.009 J	1.700	0.014 J	0.045 J	-
Mercury (dissolved)	µg/L	0.025	0.20 U	0.20 U	0.20 U	0.20 U	-
Nickel (dissolved)	µg/L	8.2	24.7	21.6	30.0	33.1	-
Thallium (dissolved)	µg/L	0.47	0.0400 U	0.0267 J	0.100 U	0.100 U	-
Zinc (dissolved)	µg/L	81	2.98	12.8	5.00 U	13.1	-

Metals~Total

Arsenic	µg/L	0.14	102	81.8	3.68	7.60	12.7
Chromium	µg/L	50	2360	285	154	134	33.0
Copper	µg/L	2.4	2180	207	22.2	54.0	42.3
Lead	µg/L	8.1	444	41.9	1.540	5.680	26.6
Mercury	µg/L	0.025	4.24	0.38 J	0.20 U	0.04 J	0.20 U
Nickel	µg/L	8.2	2370	256	53.2	67.6	17.1
Thallium	µg/L	0.47	3.6900	0.628	0.100 U	0.100 U	0.200 U
Zinc	µg/L	81	2540	289	29.7	233	59.6

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WW-A1R	WW-A1R	WW-A1R	WW-A1R	WW-A1R
Sample ID:	GW-082112-MD-WWA1R-002	GW-082112-MD-WWA1R-003	GW-082212-MD-WW-A1R-004	GW-082212-MD-WW-A1R-005	GW-082212-MD-WW-A1R-006
Sample Date:	8/21/2012	8/21/2012	8/22/2012	8/22/2012	8/22/2012
Sample Depth:	6 to 6 ft BML	11 to 11 ft BML	20 to 20 ft BML	30 to 30 ft BML	45 to 45 ft BML
elev_MLLW	-40.18 to -40.18	-45.18 to -45.18	-54.18 to -54.18	-64.18 to -64.18	-79.18 to -79.18
elev_NGVD	-46.5 to -46.5	-51.5 to -51.5	-60.5 to -60.5	-70.5 to -70.5	-85.5 to -85.5

Parameters **Units** **CSI** **WG**

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	-	-	0.41	4.00	12.4
Chromium (dissolved)	µg/L	50	-	-	0.20	8.79	19.7
Copper (dissolved)	µg/L	2.4	-	-	0.14	0.85 J	32.3
Lead (dissolved)	µg/L	8.1	-	-	0.279	0.076 J	4.380
Mercury (dissolved)	µg/L	0.025	-	-	0.20 U	0.20 U	0.06 J
Nickel (dissolved)	µg/L	8.2	-	-	0.81	4.70	20.5
Thallium (dissolved)	µg/L	0.47	-	-	0.200 U	0.200 U	0.0730 J
Zinc (dissolved)	µg/L	81	-	-	0.65	5.39	46.7

Metals~Total

Arsenic	µg/L	0.14	4.72	8.49	12.2	5.29	28.5
Chromium	µg/L	50	8.52	2.00 U	57.3	12.5	118
Copper	µg/L	2.4	5.62	0.38 J	63.6	3.74	184
Lead	µg/L	8.1	0.954	0.108 J	12.2	1.610	25.1
Mercury	µg/L	0.025	0.20 U	0.20 U	0.11 J	0.03 J	0.18 J
Nickel	µg/L	8.2	6.88	2.00 U	36.3	7.53	87.4
Thallium	µg/L	0.47	0.200 U	0.200 U	0.0558 J	0.335	0.391 J
Zinc	µg/L	81	9.46	5.00 U	81.6	7.70	185

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WW-A1R	WW-A1R	WW-A1R	WW-A1R	WW-A1R
Sample ID:	GW-082212-MD-WW-A1R-007	GW-082312-MD-WW-A1R-008	GW-082312-MD-WW-A1R-009	GW-082412-MD-WWA1R-010	GW-082512-KB-WWA1R-011
Sample Date:	8/22/2012	8/23/2012	8/23/2012	8/24/2012	8/25/2012
Sample Depth:	55 to 55 ft BML	65 to 65 ft BML	75 to 75 ft BML	85 to 85 ft BML	95 to 95 ft BML
elev_MLLW	-89.18 to -89.18	-99.18 to -99.18	-109.18 to -109.18	-119.18 to -119.18	-129.18 to -129.18
elev_NGVD	-95.5 to -95.5	-105.5 to -105.5	-115.5 to -115.5	-125.5 to -125.5	-135.5 to -135.5

Parameters Units CSI WG

Metals~Dissolved

Arsenic (dissolved)	µg/L	0.14	13.3	-	63.5	6.16	-
Chromium (dissolved)	µg/L	50	35.1	-	333	34.5 J	-
Copper (dissolved)	µg/L	2.4	35.5	-	53.4	13.2	-
Lead (dissolved)	µg/L	8.1	3.930	-	13.3	5.190	-
Mercury (dissolved)	µg/L	0.025	0.02 J	-	0.14 J	0.06 J	-
Nickel (dissolved)	µg/L	8.2	30.7	-	163	20.8	-
Thallium (dissolved)	µg/L	0.47	0.0411 J	-	0.0705 J	0.200 U	-
Zinc (dissolved)	µg/L	81	33.9	-	115	15.6	-

Metals~Total

Arsenic	µg/L	0.14	47.1	8.11	-	533	132
Chromium	µg/L	50	262	29.8	-	2280 J	845 J
Copper	µg/L	2.4	361	5.95	-	3360	764
Lead	µg/L	8.1	207	1.000 U	-	1530	395
Mercury	µg/L	0.025	0.31	0.20 U	-	13.3	2.22
Nickel	µg/L	8.2	194	10.4	-	1310	437
Thallium	µg/L	0.47	4.2900	0.200 U	-	6.6800	1.3700
Zinc	µg/L	81	294	25.0 U	-	4090	1010

TABLE 4.22

GROUNDWATER ANALYTICAL RESULTS – SITE METALS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WW-A1R
Sample ID:	GW-082512-KB-WWA1R-012
Sample Date:	8/25/2012
Sample Depth:	106 to 106 ft BML
elev_MLLW	-140.18 to -140.18
elev_NGVD	-146.5 to -146.5

Parameters	Units	CSI	WG
Metals~Dissolved			
Arsenic (dissolved)	µg/L	0.14	4.54
Chromium (dissolved)	µg/L	50	2.97 J
Copper (dissolved)	µg/L	2.4	2.45
Lead (dissolved)	µg/L	8.1	0.738
Mercury (dissolved)	µg/L	0.025	0.03 J
Nickel (dissolved)	µg/L	8.2	4.73
Thallium (dissolved)	µg/L	0.47	0.200 U
Zinc (dissolved)	µg/L	81	4.46 J
Metals~Total			
Arsenic	µg/L	0.14	63.8
Chromium	µg/L	50	576 J
Copper	µg/L	2.4	401
Lead	µg/L	8.1	140
Mercury	µg/L	0.025	0.96
Nickel	µg/L	8.2	210
Thallium	µg/L	0.47	0.747
Zinc	µg/L	81	583

**GROUNDWATER ANALYTICAL RESULTS – SITE METALS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Notes:

- (1) Site COCs per Tables 3.1 and 3.2 of the Statement of Work (January 2005). Additional non-COC analytical results are presented in the eDAT located in Appendix F.
- (2) Groundwater Cleanup Levels per Table 4.8.
- BGS Below ground surface.
- MLLW Mean lower low water.
- NGVD National geodetic vertical datum.
- COCs Constituents of concern.
- µg/L Microgram per liter.
- MS/cm Milliseimens per centimeter.
- s.u. Standard units.
- Deg C Degree Celsius.
- ntu Nepheletic turbidity units.
- NV No cleanup level has been established for this parameter.
- * Cleanup Level established at a concentration equal to the practical quantitation limit for that chemical in accordance the WAC 173-340-700 (6)(d). Value may decrease with improvements in analytical methods.
- 500** Concentration exceeds the Groundwater Cleanup Level.
- Not analyzed.
- U Not detected at associated concentration.
- J Estimated concentration.
- R Rejected.

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		1-25	1-45	1-100R	2-25	2-50	2-100	3-25
<i>Sample ID:</i>		GW-050106-TS-1-25	GW-041306-TS-1-45	GW-080306-ILM-1-100	GW-041706-TS-2-25	GW-042406-LH-2-50	GW-071706-ZF-2-100	WG-082812-JN-3-25-001
<i>Sample Date:</i>		5/1/2006	4/13/2006	8/3/2006	4/17/2006	4/24/2006	7/17/2006	8/28/2012
<i>Sample Depth:</i>		25 ft bgs	45 ft bgs	100 ft bgs	25 ft bgs	50 ft bgs	100 ft bgs	25 ft BGS
<i>elev_MLLW</i>		-7.49	-27.47	-82.08	-7.29	-32.32	-82.35	-6.05
<i>elev_NGVD</i>		-13.8	-33.8	-88.4	-13.6	-38.6	-88.7	-12.4
Parameters	Units	CSI WG						
Fparam								
Conductivity, field	umhos/cm	10100	81300	89000	1720	25500	8010	2440
Dissolved oxygen (DO), field	µg/L	180	0	0	0	180	2600	40
Oxidation reduction potential (ORP), field	millivolts	-240	-236	-523	-247	-301	-295	-164
pH, field	s.u.	7-8.5	8.45	13.63	9.34	11.41	10.81	7.09
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-
Temperature, field	deg c	13.64	12.68	17.08	13.90	18.2	16.92	17.17
Temperature, field	deg f	-	-	-	-	-	-	-
Turbidity, field	ntu	46.40	343.00	495.00	449.00	100.00	104.00	46.2

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		3-50	3-100	3-175	4-25R	4-25R	4-45R	4-45R
<i>Sample ID:</i>		GW-072706-ILM-3-50	GW-071706-ZF-3-100	GW-071706-ZF-3-175	GW-041906-TS-4-25R	GW-080106-ILM-4-25R	GW-041806-TS-4-45R	GW-073106-ILM-4-45R
<i>Sample Date:</i>		7/27/2006	7/17/2006	7/17/2006	4/19/2006	8/1/2006	4/18/2006	7/31/2006
<i>Sample Depth:</i>		50 ft bgs	100 ft bgs	175 ft bgs	25 ft bgs	25 ft bgs	45 ft bgs	45 ft bgs
<i>elev_MLLW</i>		-31.07	-81.14	-155.88	-6.53	-6.53	-26.61	-26.61
<i>elev_NGVD</i>		-37.4	-87.5	-162.2	-12.8	-12.8	-32.9	-32.9
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm	60800	44600	1080	-	90300	-	> 99.9
Dissolved oxygen (DO), field	µg/L	1650	2350	2980	-	0	-	0
Oxidation reduction potential (ORP), field	millivolts	-464	-246	-158	-	-167	-	-302
pH, field	s.u.	7-8.5	7.57	8.78	-	7.54	-	10.02
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-
Temperature, field	deg c	21.21	16.68	18.21	-	17.32	-	23.58
Temperature, field	deg f	-	-	-	-	-	-	-
Turbidity, field	ntu	591.00	205.00	293.00	0.00	-	22.50	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	4-45R	4-83R	4-115R	4-175R	4-175R	5-25
Sample ID:	GW-073106-ILM-FDUP	GW-080106-ILM-4-83R	GW-072506-ILM-4-115R	GW-072710-CM-4-175R	GW-072710-CM-FD-012	WG-080812-LP-5-25-004
Sample Date:	7/31/2006	8/1/2006	7/25/2006	7/27/2010	7/27/2010	8/8/2012
Sample Depth:	45 ft bgs	83 ft bgs	115 ft bgs	175 ft BGS	175 ft BGS	25 ft BGS
elev_MLLW	-26.61	-64.63	-96.63	-156.53	-156.53	-7.03
elev_NGVD	-32.9	-71	-103	-162.8	-162.8	-13.4
Parameters	Units	CSI	WG			
Fparam						
Conductivity, field	umhos/cm			> 99.9	> 99.9	> 99.9
Dissolved oxygen (DO), field	µg/L			0	0	1020
Oxidation reduction potential (ORP), field	millivolts			-302	-358	-461
pH, field	s.u.	7-8.5		10.02	10.86	11.83
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			23.58	19.14	22.62
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			-	377	344.00
						29.1
						29.1
						16100
						16100
						6400
						450
						450
						-160
						-160
						-286
						7.25
						7.25
						11.17
						-
						18.53
						-
						-
						19.6

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5-50	5-75	5-100	6A-24.5	6A-50	6A-100
<i>Sample ID:</i>		WG-080812-LP-5-50-005	WG-082412-JN-5-75-006	WG-080812-AMK-5-100-007	GW-071606-TR-6A-24.5	WG-080812-JN-6A-50-009	WG-080812-JN-6A-100-010
<i>Sample Date:</i>		8/8/2012	8/24/2012	8/8/2012	7/16/2006	8/8/2012	8/8/2012
<i>Sample Depth:</i>		50 ft BGS	75 ft BGS	100 ft BGS	24.5 ft bgs	50 ft BGS	100 ft BGS
<i>elev_MLLW</i>		-32.02	-56.97	-81.99	-6.19	-31.46	-81.57
<i>elev_NGVD</i>		-38.3	-63.3	-88.3	-12.5	-37.8	-87.9
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	54500	88300	41200	33700	24600	47400
Dissolved oxygen (DO), field	µg/L	5840	350	0	0	820	160
Oxidation reduction potential (ORP), field	millivolts	-429	-127	-178	-151	-265	-256
pH, field	s.u.	7-8.5	8.42	7.74	9.38	11.89	11.97
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	18.94	17.7	18.9	20.6	16.43	15.91
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	53	424	155	412.00	57.5	15

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		7-25	7-100	7-181	8-23	8-54	8-99R
<i>Sample ID:</i>		WG-080812-AMK-7-25-011	WG-080812-AMK-7-100-012	WG-080812-LP-7-181-013	WG-081112-JN-8-23-014	GW-021208-TG-8-54	GW-081606-ILM-8-99
<i>Sample Date:</i>		8/8/2012	8/8/2012	8/8/2012	8/11/2012	12/2/2008	8/16/2006
<i>Sample Depth:</i>		25 ft BGS	100 ft BGS	181 ft BGS	23 ft BGS	54 ft bgs	99 ft bgs
<i>elev_MLLW</i>		-5.73	-80.85	-161.7	-4.87	-35.71	-80.82
<i>elev_NGVD</i>		-12	-87.2	-168	-11.2	-42	-87.1
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	1430	41100	12600	980	19500	53800
Dissolved oxygen (DO), field	µg/L	80	0	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts	-92	-117	-280	-135	-151	-295
pH, field	s.u.	7-8.5	8.26	7.76	8.6	9.07	8.4
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	20.4	19.4	24.42	24.9	14.70	16.2
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	94.3	160	637	7.5	29.2	467.00

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		9-25	9-50	9-100	10-24	10-50
<i>Sample ID:</i>		WG-080812-AMK-9-25-015	WG-080712-AMK-9-50-016	WG-080712-AMK-9-100-017	WG-082112-AMK-10-24-503	WG-082012-TS-10-50-601
<i>Sample Date:</i>		8/8/2012	8/7/2012	8/7/2012	8/21/2012	8/20/2012
<i>Sample Depth:</i>		25 ft BGS	50 ft BGS	100 ft BGS	24 ft BGS	50 ft BGS
<i>elev_MLLW</i>		-6.73	-31.53	-81.57	-7.78	-33.58
<i>elev_NGVD</i>		-13	-37.8	-87.9	-14.1	-39.9
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Fparam</i>						
Conductivity, field	umhos/cm	1930	4590	52500	10100	45400
Dissolved oxygen (DO), field	µg/L	0	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts	-299	-317	-273	-106	-345
pH, field	s.u.	7-8.5	11.07	8.1	7.27	8.7
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	17.4	17.19	18.17	17.91	19.41
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	16.9	598	734	25	8

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			10-100	11-25	11-45	11-75	11-100
<i>Sample ID:</i>			WG-082012-TS-10-100-602	WG-080612-JN-11-25-018	WG-080712-ALK-11-45-019	WG-080712-JN-11-75-020	WG-080712-ALK-11-100-021
<i>Sample Date:</i>			8/20/2012	8/6/2012	8/7/2012	8/7/2012	8/7/2012
<i>Sample Depth:</i>			100 ft BGS	25 ft BGS	45 ft BGS	75 ft BGS	100 ft BGS
<i>elev_MLLW</i>			-83.38	-6.36	-26.44	-56.43	-81.36
<i>elev_NGVD</i>			-89.7	-12.7	-32.8	-62.8	-87.7
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		99900	2330	16800	326	> 99.9
Dissolved oxygen (DO), field	µg/L		0	0	0	9920	0
Oxidation reduction potential (ORP), field	millivolts		-326	-265	-497	95	-168
pH, field	s.u.	7-8.5	8.04	8.5	8.27	8.72	6.88
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		17.28	19.02	17.07	18	21.89
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		177	48.6	6.3	0	401

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	11-183	12-25	12-45	12-45	12-75		
<i>Sample ID:</i>	WG-080712-JN-11-183-022	WG-082412-AMK-12-25-023	GW-031208-MM-12-45	GW-031208-MM-FD02	WG-082412-LP-12-75-024		
<i>Sample Date:</i>	8/7/2012	8/24/2012	12/3/2008	12/3/2008	8/24/2012		
<i>Sample Depth:</i>	183 ft BGS	25 ft BGS	45 ft bgs	45 ft bgs	75 ft BGS		
<i>elev_MLLW</i>	-164.33	-8.23	-28.25	-28.25	-58.16		
<i>elev_NGVD</i>	-170.6	-14.6	-34.6	-34.6	-64.5		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>	<i>(Duplicate)</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm		17500	223	1950	1950	26300
Dissolved oxygen (DO), field	µg/L		630	270	0	0	0
Oxidation reduction potential (ORP), field	millivolts		-261	-122	-197	-197	-171
pH, field	s.u.	7-8.5	12.09	6.92	8.15	8.15	7.35
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		18.04	17.16	13.83	13.83	17.31
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		195	19.5	12.8	12.8	17

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	12-100	12-160	12-160	12A-25	12A-50
<i>Sample ID:</i>	WG-082412-AMK-12-100-025	GW-062713-LP-12-160-12	GW-062713-LP-12-160-13	WG-082112-AMK-12A-25-027	WG-082112-AMK-12A-50-028
<i>Sample Date:</i>	8/24/2012	6/27/2013	6/27/2013	8/21/2012	8/21/2012
<i>Sample Depth:</i>	100 ft BGS	160 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS
<i>elev_MLLW</i>	-84.46	-143.04	-143.04	-6.1	-30.88
<i>elev_NGVD</i>	-90.8	-149.4	-149.4	-12.4	-37.2
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>		
<i>Fparam</i>					
Conductivity, field	umhos/cm			32900	8740
Dissolved oxygen (DO), field	µg/L			8740	8740
Oxidation reduction potential (ORP), field	millivolts			417	417
pH, field	s.u.	7-8.5	8.97	7.95	7.95
Specific Gravity~FIELDPARAM	sg			-217	-217
Temperature, field	deg c			-	-
Temperature, field	deg f			17.66	13.86
Turbidity, field	ntu			-	-
				6.1	0
				56.4	110

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		13-49	14-25R	14-50R	15-25R	15-50R	15-120	
<i>Sample ID:</i>		GW-042606-TS-13-49	WG-081312-TS-14-25R-029	WG-081312-TS-14-50R-030	GW-071106-TR-15-25R	WG-081312-PR-15-50R-31	WG-081512-TS-15-120-032	
<i>Sample Date:</i>		4/26/2006	8/13/2012	8/13/2012	7/11/2006	8/13/2012	8/15/2012	
<i>Sample Depth:</i>		49 ft bgs	25 ft BGS	50 ft BGS	25 ft bgs	50 ft BGS	120 ft BGS	
<i>elev_MLLW</i>		-31.2	-7.39	-32.25	-7.83	-32.77	-102.43	
<i>elev_NGVD</i>		-37.5	-13.7	-38.6	-14.2	-39.1	-108.8	
Parameters	Units	CSI WG						
Fparam								
Conductivity, field	umhos/cm	38400	4940	51300	29000	49900	99900	
Dissolved oxygen (DO), field	µg/L	0	0	0	0	0	0	
Oxidation reduction potential (ORP), field	millivolts	-285	-406	-494	-255	-452	-546	
pH, field	s.u.	7-8.5	7.57	9.27	10.95	9.42	9.79	12.09
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	14.57	16.41	18.75	16.1	20.4	23	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	161.00	118	-5	97.70	62.8	0	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		16-25	16-50	17-24	17-50R	17C-25	17C-50
<i>Sample ID:</i>		GW-040406-TR-16-25	GW-040406-TR-16-50	GW-040706-TS-17-24	GW-040406-TR-17-50R	WG-080612-AMK-17C-25-033	WG-080612-ALK-17C-50-034
<i>Sample Date:</i>		4/4/2006	4/4/2006	4/7/2006	4/4/2006	8/6/2012	8/6/2012
<i>Sample Depth:</i>		25 ft bgs	50 ft bgs	24 ft bgs	50 ft bgs	25 ft BGS	50 ft BGS
<i>elev_MLLW</i>		-6.93	-31.86	-6.36	-32.32	-7.01	-32.01
<i>elev_NGVD</i>		-13.2	-38.2	-12.7	-38.6	-13.3	-38.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	5670	41500	28600	40800	37900	29100
Dissolved oxygen (DO), field	µg/L	1690	240	0	180	610	170
Oxidation reduction potential (ORP), field	millivolts	-193	-417	-263	-512	-203	-280
pH, field	s.u.	7-8.5	10.33	8.25	10.99	8.11	10.34
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	14.20	14.60	16.31	14.20	16.49	24.53
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	110.00	393.00	369.00	221.00	81	248

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			17C-75	17C-100	17C-130	17C-160	18-25
<i>Sample ID:</i>			WG-080612-AMK-17C-75-035	WG-080712-AMK-17C-100-036	WG-080612-ALK-17C-130-037	WG-080712-AMK-17C-160-038	WG-081312-JN-18-25-039
<i>Sample Date:</i>			8/6/2012	8/7/2012	8/6/2012	8/7/2012	8/13/2012
<i>Sample Depth:</i>			75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS	25 ft BGS
<i>elev_MLLW</i>			-57.01	-82.01	-112.01	-142.01	-6.74
<i>elev_NGVD</i>			-63.3	-88.3	-118.3	-148.3	-13.1
Parameters	Units	CSI WG					
Fparam							
Conductivity, field	umhos/cm		55000	3880	2340	2590	5330
Dissolved oxygen (DO), field	µg/L		0	0	330	0	0
Oxidation reduction potential (ORP), field	millivolts		-289	-204	-178	-190	-510
pH, field	s.u.	7-8.5	8.6	7.85	9.3	8.06	11.34
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		21.91	16.49	18.69	17.26	19.9
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		0OR	171	40.5	24.3	52

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	18-50R	19-25	19-25	19-50R	20-25	20-50			
Sample ID:	WG-081512-TS-18-50R-040	GW-072710-CM-19-25	GW-072710-CM-FD-010	GW-071006-TR-19-50R	GW-041906-TR-MW-20-25	GW-072413-BW-MW 25-50			
Sample Date:	8/15/2012	7/27/2010	7/27/2010	7/10/2006	4/19/2006	7/24/2013			
Sample Depth:	50 ft BGS	25 ft BGS	25 ft BGS	50 ft bgs	25 ft bgs	50 ft BGS			
elev_MLLW	-31.75	-7.42	-7.42	-32.59	-7.19	-32.11			
elev_NGVD	-38.1	-13.7	-13.7	-38.9	-13.5	-38.4			
			(Duplicate)						
Parameters	Units	CSI	WG						
<i>Fparam</i>									
Conductivity, field	umhos/cm			87200	494	494	34600	5270	63200
Dissolved oxygen (DO), field	µg/L			0	120	120	0	420	0
Oxidation reduction potential (ORP), field	millivolts			-526	-83	-83	-300	-147	-437
pH, field	s.u.	7-8.5		11.54	8.63	8.63	11.55	6.97	10.88
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	1.032
Temperature, field	deg c			17.22	19.30	19.30	16	13.7	22.84
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			133	43.1	43.1	96.00	99.60	133

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		21-25R	21-48	21C-25	21C-50	21C-75	
<i>Sample ID:</i>		GW-071506-TR-21-25R	GW-071106-TR-21-48	WG-072512-AMK-21C-25-041	WG-072512-AMK-21C-50-042	WG-072512-AMK-21C-75-043	
<i>Sample Date:</i>		7/15/2006	7/11/2006	7/25/2012	7/25/2012	7/25/2012	
<i>Sample Depth:</i>		25 ft bgs	48 ft bgs	25 ft BGS	50 ft BGS	75 ft BGS	
<i>elev_MLLW</i>		-5.65	-28.87	-5.75	-30.75	-55.75	
<i>elev_NGVD</i>		-12	-35.2	-12.1	-37.1	-62.1	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		3220	29700	566	23100	51800
Dissolved oxygen (DO), field	µg/L		0	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts		-168	-237	-203	-199	-209
pH, field	s.u.	7-8.5	8.2	9.18	8.85	8.81	8.27
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		17.3	17.4	19.72	16.03	20.65
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		9.90	29.40	4.2	25.6	26.6

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		21C-100	21C-130	21C-160	22-25R	22-50
<i>Sample ID:</i>		WG-072512-AMK-21C-100-044	GW-062113-IP-21C-130-02	WG-072512-AMK-21C-160-046	GW-041306-TS-22-25R	WG-081712-TS-22-50-048
<i>Sample Date:</i>		7/25/2012	6/21/2013	7/25/2012	4/13/2006	8/17/2012
<i>Sample Depth:</i>		100 ft BGS	130 ft BGS	160 ft BGS	25 ft bgs	50 ft BGS
<i>elev_MLLW</i>		-80.75	-110.75	-140.75	-6.89	-31.57
<i>elev_NGVD</i>		-87.1	-117.1	-147.1	-13.2	-37.9
Parameters	Units	CSI		WG		
Fparam						
Conductivity, field	umhos/cm	61000	9900	11700	7780	31900
Dissolved oxygen (DO), field	µg/L	0	470	0	790	1180
Oxidation reduction potential (ORP), field	millivolts	-512	-333	-152	-102	-425
pH, field	s.u.	7-8.5	8.1	9.43	6.00	11.07
Specific Gravity~FIELDPARAM	sg	-	1.006	-	-	-
Temperature, field	deg c	23.21	19.45	16.55	13.98	17.39
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	245	69	> 1000	425.00	12.4

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		22-70	23-25R	23-50	24-15	24-35	24-50		
<i>Sample ID:</i>		GW-041306-TS-22-70	WG-081712-TS-23-25R-049	GW-041006-TS-23-50	WG-081512-AMK-24-15-502	WG-081512-AMK-24-35-501	WG-081512-AMK-24-50-500		
<i>Sample Date:</i>		4/13/2006	8/17/2012	4/10/2006	8/15/2012	8/15/2012	8/15/2012		
<i>Sample Depth:</i>		70 ft bgs	25 ft BGS	50 ft bgs	15 ft BGS	35 ft BGS	50 ft BGS		
<i>elev_MLLW</i>		-52.31	-6.45	-30.62	3.19	-16.5	-31.59		
<i>elev_NGVD</i>		-58.6	-12.8	-36.9	-3.1	-22.8	-37.9		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			28100	640	44300	423	3420	3330
Dissolved oxygen (DO), field	µg/L			2830	800	6300	480	0	0
Oxidation reduction potential (ORP), field	millivolts			-41	-451	-152	-87	-293	-248
pH, field	s.u.	7-8.5		8.61	10.57	8.69	7.84	8.64	8.48
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			12.15	19.13	16.07	19.38	20.28	20.7
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			104.00	12.3	330.00	2	145	155

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		25-25	25-50	25A-25	25A-25	25A-50	28-15	29-14	30-15
<i>Sample ID:</i>		GW-051208-MM-25-25	GW-051208-MM-25-50	GW-041006-TR-25A-25	GW-071906-ZF-25A-25	GW-071906-ZF-25A-50	28-15-0304	29-14-0304	30-15-0304
<i>Sample Date:</i>		12/5/2008	12/5/2008	4/10/2006	7/19/2006	7/19/2006	3/23/2004	3/23/2004	3/17/2004
<i>Sample Depth:</i>		25 ft bgs	50 ft bgs	25 ft bgs	25 ft bgs	50 ft bgs	15 ft bgs	14 ft bgs	15 ft bgs
<i>elev_MLLW</i>		-7.37	-32.01	-5.78	-5.78	-30.88	3.33	4.3	3.29
<i>elev_NGVD</i>		-13.7	-38.3	-12.1	-12.1	-37.2	-3	-2	-3
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			-	416	20900	-	-	-
Dissolved oxygen (DO), field	µg/L			-	320	760	-	-	-
Oxidation reduction potential (ORP), field	millivolts			-	-184	-279	-	-	-
pH, field	s.u.	7-8.5	9.85	8.46	8.67	9.08	9.32	8.62	9.57
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-	-
Temperature, field	deg c		13.35	13.7	17.17	18.89	-	-	-
Temperature, field	deg f		-	-	-	-	-	-	-
Turbidity, field	ntu		227.0	259.0	59.80	-	196.00	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		32-50R	32-100	34-25	34-25	34-25R	34-50	
<i>Sample ID:</i>		WG-082412-JN-32-50R-051	GW-041208-MM-32-100	GW-071206-TR-34-25	GW-081208-MM-34-25	WG-082012-AMK-34-25R-052	GW-071206-TR-34-50	
<i>Sample Date:</i>		8/24/2012	12/4/2008	7/12/2006	12/8/2008	8/20/2012	7/12/2006	
<i>Sample Depth:</i>		50 ft BGS	100 ft bgs	25 ft bgs	25 ft bgs	25 ft BGS	50 ft bgs	
<i>elev_MLLW</i>		-31.44	-81.38	-6.88	-6.88	-6.86	-31.88	
<i>elev_NGVD</i>		-37.8	-87.7	-13.2	-13.2	-13.2	-38.2	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>				
<i>Fparam</i>								
Conductivity, field	umhos/cm	1300	41700	-	348	370	58900	
Dissolved oxygen (DO), field	µg/L	740	0	-	0	0	0	
Oxidation reduction potential (ORP), field	millivolts	-87	-253	-	-167	-160	-189	
pH, field	s.u.	7-8.5	7.7	8.69	-	7.27	8.26	9.03
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	17.4	13.21	-	13.8	16.71	16.2	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	39.5	64.9	1.30	-	2.9	37.90	

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		34-50R	34-75	34-100	34C-100	34C-130		
<i>Sample ID:</i>		WG-082012-AMK-34-50R-053	WG-082012-AMK-34-75-054	GW-051208-MM-34-100	WG-082112-AMK-34C-100-055	GW-080113-CH-34C-130-24		
<i>Sample Date:</i>		8/20/2012	8/20/2012	12/5/2008	8/21/2012	8/1/2013		
<i>Sample Depth:</i>		50 ft BGS	75 ft BGS	100 ft bgs	100 ft BGS	130 ft BGS		
<i>elev_MLLW</i>		-31.85	-56.81	-81.68	-81.88	-111.88		
<i>elev_NGVD</i>		-38.2	-63.1	-88	-88.2	-118.2		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			389	25900	39000	29900	38600
Dissolved oxygen (DO), field	µg/L			0	0	0	0	4150
Oxidation reduction potential (ORP), field	millivolts			-179	-145	-349	-161	-174
pH, field	s.u.	7-8.5		8.38	7.44	8.37	7.56	7.73
Specific Gravity~FIELDPARAM	sg			-	-	-	-	1.02
Temperature, field	deg c			16.07	21.34	13.4	18.33	16.11
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			64.8	416	59.2	37.5	83

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			34C-130	34C-160	35-25	35-50	35-100
<i>Sample ID:</i>			GW-080113-CH-34C-130-25	GW-080113-CH-34C-160-26	WG-081512-JN-35-25-058	GW-151208-MM-35-50	GW-071906-TR-35-100
<i>Sample Date:</i>			8/1/2013	8/1/2013	8/15/2012	12/15/2008	7/19/2006
<i>Sample Depth:</i>			130 ft BGS	160 ft BGS	25 ft BGS	50 ft bgs	100 ft bgs
<i>elev_MLLW</i>			-111.88	-141.88	-6.79	-31.84	-81.75
<i>elev_NGVD</i>			-118.2	-148.2	-13.1	-38.2	-88.1
			(Duplicate)				
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
Fparam							
Conductivity, field	umhos/cm		38600	7170	666	9190	55100
Dissolved oxygen (DO), field	µg/L		4150	0	0	420	1760
Oxidation reduction potential (ORP), field	millivolts		-174	-246	-192	-218	-239
pH, field	s.u.	7-8.5	7.73	8.3	7.74	8.19	7.23
Specific Gravity~FIELDPARAM	sg		1.02	1.005	-	-	-
Temperature, field	deg c		16.11	17.12	22	11.0	19.8
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		83	74	0	876	463.00

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>35-100R</i>	<i>36-25</i>	<i>36-50</i>	<i>36-100R</i>	<i>38-55</i>
<i>Sample ID:</i>		<i>WG-081512-JN-35-100R-059</i>	<i>WG-080112-AK-36-25-060</i>	<i>WG-080112-AK-36-50-061</i>	<i>GW-072313-BW-MW 36 100R</i>	<i>GW-050206-TS-38-50</i>
<i>Sample Date:</i>		<i>8/15/2012</i>	<i>8/1/2012</i>	<i>8/1/2012</i>	<i>7/23/2013</i>	<i>5/2/2006</i>
<i>Sample Depth:</i>		<i>100 ft BGS</i>	<i>25 ft BGS</i>	<i>50 ft BGS</i>	<i>100 ft BGS</i>	<i>55 ft bgs</i>
<i>elev_MLLW</i>		<i>-81.7</i>	<i>-7.66</i>	<i>-32.6</i>	<i>-82.61</i>	<i>-36.15</i>
<i>elev_NGVD</i>		<i>-88</i>	<i>-14</i>	<i>-38.9</i>	<i>-88.9</i>	<i>-42.5</i>
Parameters	Units	CSI		WG		
Fparam						
Conductivity, field	umhos/cm	43700	761	131	44200	29300
Dissolved oxygen (DO), field	µg/L	0	0	0	0	2130
Oxidation reduction potential (ORP), field	millivolts	-166	-239	-288	-177	-130
pH, field	s.u.	7-8.5	8.22	8.98	7.51	9.28
Specific Gravity~FIELDPARAM	sg	-	-	-	1.023	-
Temperature, field	deg c	20.3	17.09	17.09	14.36	12.94
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	128	65	286	0	170

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		40-25	40-50	40-75	40-100R	40A-25	40A-50
<i>Sample ID:</i>		WG-082112-PR-40-25-063	WG-082112-PR-40-50-064	WG-082112-PR-40-75-065	GW-072513-BW-MW-40-100R	GW-031208-TG-40A-25	GW-031208-TG-40A-50
<i>Sample Date:</i>		8/21/2012	8/21/2012	8/21/2012	7/25/2013	12/3/2008	12/3/2008
<i>Sample Depth:</i>		25 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS	25 ft bgs	50 ft bgs
<i>elev_MLLW</i>		-6.28	-31.22	-56.19	-81.06	-5.58	-30.48
<i>elev_NGVD</i>		-12.6	-37.5	-62.5	-87.4	-11.9	-36.8
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	845	37100	36000	38600	3890	19500
Dissolved oxygen (DO), field	µg/L	960	2660	5970	0	0	0
Oxidation reduction potential (ORP), field	millivolts	-89	-128	-101	-186	-143	-221
pH, field	s.u.	7-8.5	7.14	7.15	7.31	7.21	7.35
Specific Gravity~FIELDPARAM	sg	-	-	-	1.021	-	-
Temperature, field	deg c	17.7	19.8	21.4	17.30	15.8	14.9
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	0	582	261	0	9.7	98.5

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		40A-100	41-50	41-100	41-100	41-138	41C-25	
<i>Sample ID:</i>		GW-031208-TG-40A-100	GW-072706-ILM-41-50	GW-072706-ILM-41-100	GW-081208-MM-41-100	GW-072706-ILM-41-138	WG-071612-BW-41C-25-067	
<i>Sample Date:</i>		12/3/2008	7/27/2006	7/27/2006	12/8/2008	7/27/2006	7/16/2012	
<i>Sample Depth:</i>		100 ft bgs	50 ft bgs	100 ft bgs	100 ft bgs	138 ft bgs	25 ft BGS	
<i>elev_MLLW</i>		-80.55	-32.84	-82.84	-82.84	-120.89	-8.39	
<i>elev_NGVD</i>		-86.9	-39.2	-89.2	-89.2	-127.2	-14.7	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm	54700	51000	-	26100	38300	10700	
Dissolved oxygen (DO), field	µg/L	110	0	-	0	2930	880	
Oxidation reduction potential (ORP), field	millivolts	-141	-283	-	-436	-268	-150	
pH, field	s.u.	7-8.5	6.96	7.85	-	8.48	8.11	7.49
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	15.1	19.37	-	11.9	17.68	14.6	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	68.2	330.00	86.10	-	43.20	240.3	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>41C-50</i>	<i>41C-75</i>	<i>41C-100</i>	<i>41C-130</i>	<i>41C-160</i>
<i>Sample ID:</i>		<i>WG-071612-BW-41C-50-068</i>	<i>WG-071612-BW-41C-75-069</i>	<i>WG-071612-BW-41C-100-500</i>	<i>WG-082912-JN-41C-130-071</i>	<i>WG-071712-BW-41C-160-072</i>
<i>Sample Date:</i>		<i>7/16/2012</i>	<i>7/16/2012</i>	<i>7/16/2012</i>	<i>8/29/2012</i>	<i>7/17/2012</i>
<i>Sample Depth:</i>		<i>50 ft BGS</i>	<i>75 ft BGS</i>	<i>100 ft BGS</i>	<i>130 ft BGS</i>	<i>160 ft BGS</i>
<i>elev_MLLW</i>		<i>-33.39</i>	<i>-58.39</i>	<i>-83.39</i>	<i>-113.39</i>	<i>-143.39</i>
<i>elev_NGVD</i>		<i>-39.7</i>	<i>-64.7</i>	<i>-89.7</i>	<i>-119.7</i>	<i>-149.7</i>
Parameters	Units	CSI		WG		
Fparam						
Conductivity, field	umhos/cm	22300	14200	27600	-	12400
Dissolved oxygen (DO), field	µg/L	110	8040	2970	-	350
Oxidation reduction potential (ORP), field	millivolts	-182	-83	-129	-	-204
pH, field	s.u.	7-8.5	7.39	7.86	7.62	8.38
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	15.5	20.2	14.8	-	14.13
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	495	762	486	-	00R

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		42-25	42-50	43-25	43-25	43-50	44-25
<i>Sample ID:</i>		WG-081012-LP-42-25-074	WG-081012-LP-42-50-075	GW-040506-TR-43-25	GW-091208-TG-43-25	WG-082812-ALK-43-50-076	WG-081012-ALK-44-25-077
<i>Sample Date:</i>		8/10/2012	8/10/2012	4/5/2006	12/9/2008	8/28/2012	8/10/2012
<i>Sample Depth:</i>		25 ft BGS	50 ft BGS	25 ft bgs	25 ft bgs	50 ft BGS	25 ft BGS
<i>elev_MLLW</i>		-6.78	-31.78	-6.48	-6.48	-32.14	-6.92
<i>elev_NGVD</i>		-13.1	-38.1	-12.8	-12.8	-38.5	-13.2
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	396	5730	-	1310	20800	165
Dissolved oxygen (DO), field	µg/L	0	0	-	0	13450	0
Oxidation reduction potential (ORP), field	millivolts	-225	-330	-	-73	-195	-228
pH, field	s.u.	7-8.5	8.12	9.01	7.7	7.58	8.09
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	20.15	19.78	-	14.5	17.31	14.94
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	43.1	201	62.50	-	370	136

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>44-50</i>	<i>45-50</i>	<i>45-100</i>	<i>46-50</i>	<i>46-100</i>	<i>46C-25</i>
<i>Sample ID:</i>		<i>WG-081112-JN-44-50-078</i>	<i>WG-081012-JN-45-50-079</i>	<i>WG-081012-JN-45-100-080</i>	<i>GW-041206-TR-46-50</i>	<i>GW-041206-TR-46-100</i>	<i>WG-082212-AMK-46C-25-081</i>
<i>Sample Date:</i>		<i>8/11/2012</i>	<i>8/10/2012</i>	<i>8/10/2012</i>	<i>4/12/2006</i>	<i>4/12/2006</i>	<i>8/22/2012</i>
<i>Sample Depth:</i>		<i>50 ft BGS</i>	<i>50 ft BGS</i>	<i>100 ft BGS</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>25 ft BGS</i>
<i>elev_MLLW</i>		<i>-31.92</i>	<i>-32.63</i>	<i>-82.51</i>	<i>-31.88</i>	<i>-80.38</i>	<i>-6.91</i>
<i>elev_NGVD</i>		<i>-38.2</i>	<i>-39</i>	<i>-88.8</i>	<i>-38.2</i>	<i>-86.7</i>	<i>-13.2</i>
Parameters	Units	CSI WG					
Fparam							
Conductivity, field	umhos/cm	16400	6370	50500	26600	60600	1270
Dissolved oxygen (DO), field	µg/L	0	0	0	420	670	0
Oxidation reduction potential (ORP), field	millivolts	-235	-201	-157	-455	-253	-171
pH, field	s.u.	7-8.5	8.49	8.12	8.77	8.22	9.47
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	16.2	16.9	15	14.90	14.50	19.72
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	545	236	11.2	639.00	587.00	519

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	46C-50	46C-75	46C-100	46C-130	46C-160
Sample ID:	WG-082212-AMK-46C-50-082	WG-082212-AMK-46C-75-083	WG-082212-AMK-46C-100-084	WG-082212-AMK-46C-130-085	WG-082212-AMK-46C-160-086
Sample Date:	8/22/2012	8/22/2012	8/22/2012	8/22/2012	8/22/2012
Sample Depth:	50 ft BGS	75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS
elev_MLLW	-31.91	-56.91	-81.91	-111.91	-141.91
elev_NGVD	-38.2	-63.2	-88.2	-118.2	-148.2

Parameters	Units	CSI	WG	WG	WG	WG
Fparam						
Conductivity, field	umhos/cm		20200	29300	46600	33000
Dissolved oxygen (DO), field	µg/L		0	0	0	0
Oxidation reduction potential (ORP), field	millivolts		-179	-188	-288	-206
pH, field	s.u.	7-8.5	8.58	8.36	8.63	8.18
Specific Gravity~FIELDPARAM	sg		-	-	-	-
Temperature, field	deg c		21.25	19.81	21.49	17.74
Temperature, field	deg f		-	-	-	-
Turbidity, field	ntu		58.9	44	349	515

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		48-15	49-15	50-15	50-100	51-15	52-15
<i>Sample ID:</i>		WG-081012-ALK-48-15-087	WG-081112-ALK-49-15-088	WG-081112-ALK-50-15-089	50-100R-0503	51-15-0304	WG-082412-PR-52-15-090
<i>Sample Date:</i>		8/10/2012	8/11/2012	8/11/2012	5/13/2003	3/17/2004	8/24/2012
<i>Sample Depth:</i>		15 ft BGS	15 ft BGS	15 ft BGS	100 ft bgs	15 ft bgs	15 ft BGS
<i>elev_MLLW</i>		2.82	3.92	2.52	-82.08	3.12	3.22
<i>elev_NGVD</i>		-3.5	-2.4	-3.8	-88.4	-3.2	-3.1
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	6240	5380	1150	35930	-	330
Dissolved oxygen (DO), field	µg/L	3890	0	4200	-	-	1230
Oxidation reduction potential (ORP), field	millivolts	-154	33	-56	-	-	-165
pH, field	s.u.	7-8.5	12.83	6.39	10.69	7.54	9.26
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	17.16	18.47	16.96	-	-	18.44
Temperature, field	deg f	-	-	-	59.1	-	-
Turbidity, field	ntu	0	-5	4.1	-	-	0

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			53-25	53-50	53-50	53-100	53C-25	53C-50
<i>Sample ID:</i>			GW-081208-TG-53-25	GW-073106-DR-53-50	GW-081208-TG-53-50	GW-071213-AW-53-100-17	WG-072412-AK-53C-25-091	WG-072412-AK-53C-50-092
<i>Sample Date:</i>			12/8/2008	7/31/2006	12/8/2008	7/12/2013	7/24/2012	7/24/2012
<i>Sample Depth:</i>			25 ft bgs	50 ft bgs	50 ft bgs	100 ft BGS	25 ft BGS	50 ft BGS
<i>elev_MLLW</i>			-6.79	-31.72	-31.72	-81.72	-6.52	-31.52
<i>elev_NGVD</i>			-13.1	-38	-38	-88	-12.8	-37.8
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		6250	-	6120	3090	110000	12000
Dissolved oxygen (DO), field	µg/L		0	-	0	2700	0	0
Oxidation reduction potential (ORP), field	millivolts		-199	-	-247	-139	-209	-220
pH, field	s.u.	7-8.5	7.98	-	8.30	7.65	9.37	9.86
Specific Gravity~FIELDPARAM	sg		-	-	-	1.001	-	-
Temperature, field	deg c		13.7	-	14.1	17.01	16.54	18.63
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		63.9	4.80	-	8	13.7	157

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>53C-75</i>	<i>53C-100</i>	<i>53C-130</i>	<i>53C-160</i>	<i>55-25</i>
<i>Sample ID:</i>		<i>WG-072412-AK-53C-75-093</i>	<i>WG-072412-PR-53C-100-094</i>	<i>GW-071013-AW-53C-130-16</i>	<i>WG-072412-PR-53C-160-096</i>	<i>WG-082412-PR-55-25-097</i>
<i>Sample Date:</i>		<i>7/24/2012</i>	<i>7/24/2012</i>	<i>7/10/2013</i>	<i>7/24/2012</i>	<i>8/24/2012</i>
<i>Sample Depth:</i>		<i>75 ft BGS</i>	<i>100 ft BGS</i>	<i>130 ft BGS</i>	<i>160 ft BGS</i>	<i>25 ft BGS</i>
<i>elev_MLLW</i>		<i>-56.52</i>	<i>-81.52</i>	<i>-111.52</i>	<i>-141.52</i>	<i>-6.37</i>
<i>elev_NGVD</i>		<i>-62.8</i>	<i>-87.8</i>	<i>-117.8</i>	<i>-147.8</i>	<i>-12.7</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Fparam</i>						
Conductivity, field	umhos/cm	33700	48400	81500	6910	2400
Dissolved oxygen (DO), field	µg/L	0	0	0	0	870
Oxidation reduction potential (ORP), field	millivolts	-240	-282	-537	-162	-308
pH, field	s.u.	7-8.5	9.41	8.56	12.07	8.09
Specific Gravity~FIELDPARAM	sg	-	-	1.102	-	-
Temperature, field	deg c	15.58	20.88	19.21	16.72	17.14
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	124	> 1000	0	29.1	0

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>55-50</i>	<i>55-100</i>	<i>56-50</i>	<i>57-50</i>	<i>59-25</i>	<i>59-50</i>
<i>Sample ID:</i>		<i>WG-082412-PR-55-50-098</i>	<i>GW-051208-TG-55-100</i>	<i>GW-040606-TS-56-50</i>	<i>GW-040606-TR-57-50</i>	<i>GW-041206-TS-59-25</i>	<i>GW-041206-TS-59-50</i>
<i>Sample Date:</i>		<i>8/24/2012</i>	<i>12/5/2008</i>	<i>4/6/2006</i>	<i>4/6/2006</i>	<i>4/12/2006</i>	<i>4/12/2006</i>
<i>Sample Depth:</i>		<i>50 ft BGS</i>	<i>100 ft bgs</i>	<i>50 ft bgs</i>	<i>50 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>
<i>elev_MLLW</i>		<i>-31.79</i>	<i>-81.91</i>	<i>-32.15</i>	<i>-32.05</i>	<i>-7.32</i>	<i>-32.45</i>
<i>elev_NGVD</i>		<i>-38.1</i>	<i>-88.2</i>	<i>-38.5</i>	<i>-38.4</i>	<i>-13.6</i>	<i>-38.8</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	19700	55600	14500	3060	51200	64100
Dissolved oxygen (DO), field	µg/L	190	0	0	450	0	0
Oxidation reduction potential (ORP), field	millivolts	-343	-45	-174	-178	-323	-516
pH, field	s.u.	7-8.5	8.45	8.31	7.75	8.16	10.78
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	16.14	14.7	14.50	15.00	14.74	16.64
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	102	23.2	0.00	> 999	236.00	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		60-25	60-50	61-25	61-50	61-100	61C-25
<i>Sample ID:</i>		GW-041106-TR-60-25	WG-081512-TS-60-50-099	GW-041208-TG-61-25	GW-041208-TG-61-50	GW-041208-TG-61-100	WG-071712-BW-61C-25-100
<i>Sample Date:</i>		4/11/2006	8/15/2012	12/4/2008	12/4/2008	12/4/2008	7/17/2012
<i>Sample Depth:</i>		25 ft bgs	50 ft BGS	25 ft bgs	50 ft bgs	100 ft bgs	25 ft BGS
<i>elev_MLLW</i>		-7.73	-32.55	-7.35	-32.39	-82.34	-7.81
<i>elev_NGVD</i>		-14	-38.9	-13.7	-38.7	-88.7	-14.1
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	16400	99900	1250	9760	57800	2830
Dissolved oxygen (DO), field	µg/L	420	0	0	0	0	1050
Oxidation reduction potential (ORP), field	millivolts	-263	-500	-131	-252	-134	-121
pH, field	s.u.	7-8.5	7.61	10.64	7.19	8.37	6.88
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	14.20	20.2	12.7	14.2	124	15.63
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	529.00	162	0.0	11.5	37.7	51.6

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			61C-50	61C-75	61C-100	61C-130	61C-160
<i>Sample ID:</i>			WG-071712-BW-61C-50-101	WG-071712-BW-61C-75-102	WG-071712-BW-61C-100-103	GW-062213-AK-61C-130-03	GW-062213-AK-61C-160-04
<i>Sample Date:</i>			7/17/2012	7/17/2012	7/17/2012	6/22/2013	6/22/2013
<i>Sample Depth:</i>			50 ft BGS	75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS
<i>elev_MLLW</i>			-32.81	-57.81	-82.81	-112.81	-142.81
<i>elev_NGVD</i>			-39.1	-64.1	-89.1	-119.1	-149.1
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		7270	20700	39200	100000	21400
Dissolved oxygen (DO), field	µg/L		270	2070	2280	0	0
Oxidation reduction potential (ORP), field	millivolts		-205	-171	-156	-144	-331
pH, field	s.u.	7-8.5	7.99	7.69	7.39	6.85	8.35
Specific Gravity~FIELDPARAM	sg		-	-	-	1.07	1.01
Temperature, field	deg c		17.38	16.63	16.49	18.24	17.81
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		80.8	118	800	21	9

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			64-25	64-50	64-100	64-170	65-15	65-25
<i>Sample ID:</i>			GW-041208-TG-64-25	GW-072006-ZF-64-50	WG-072612-AMK-64-100-106	WG-072612-AMK-64-170-107	GW-65-15-TR-0704	WG-081212-ALK-65-25-108
<i>Sample Date:</i>			12/4/2008	7/20/2006	7/26/2012	7/26/2012	7/18/2004	8/12/2012
<i>Sample Depth:</i>			25 ft bgs	50 ft bgs	100 ft BGS	170 ft BGS	15 ft bgs	25 ft BGS
<i>elev_MLLW</i>			-7.77	-32.58	-82.91	-152.65	2.79	-7.23
<i>elev_NGVD</i>			-14.1	-38.9	-89.2	-159	-3.5	-13.6
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		6330	48800	40200	20400	12	20300
Dissolved oxygen (DO), field	µg/L		80	0	0	0	-	0
Oxidation reduction potential (ORP), field	millivolts		-41	-207	13	-202	-	-330
pH, field	s.u.	7-8.5	7.49	7.53	6.92	7.31	9.37	8.67
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		14.2	16.59	18.23	16.69	16.7	18.73
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		9.2	60.40	18.3	18.5	61.7	271

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		65-50	65-100	65-130	65-130	66-15	66-25
<i>Sample ID:</i>		WG-081212-ALK-65-50-109	WG-081212-JN-65-100-110	GW-070913-AW-65-130-14	GW-070913-AW-FD-15	GW-66-15-TR-0704	GW-66-25-TR-0704
<i>Sample Date:</i>		8/12/2012	8/12/2012	7/9/2013	7/9/2013	7/10/2004	7/10/2004
<i>Sample Depth:</i>		50 ft BGS	100 ft BGS	130 ft BGS	130 ft BGS	15 ft bgs	25 ft bgs
<i>elev_MLLW</i>		-32.22	-82.12	-111.91	-111.91	3.07	-6.88
<i>elev_NGVD</i>		-38.5	-88.4	-118.2	-118.2	-3.2	-13.2
					(Duplicate)		
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	44200	> 99.9	7070	7070	20	16.1
Dissolved oxygen (DO), field	µg/L	0	0	1500	1500	-	-
Oxidation reduction potential (ORP), field	millivolts	-496	-228	-135	-135	-	-
pH, field	s.u.	7-8.5	11.78	8.21	7.84	7.84	7.59
Specific Gravity~FIELDPARAM	sg	-	-	1.005	1.005	-	-
Temperature, field	deg c	17.07	20	16.10	16.10	18.6	15.8
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	468	-5	0	0	7.8	38.1

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>66-50</i>	<i>67-25</i>	<i>67-50</i>	<i>68-25</i>	<i>68-50</i>	<i>69-25</i>	
<i>Sample ID:</i>		<i>GW-66-50-TR-0704</i>	<i>WG-072612-AMK-67-25-112</i>	<i>WG-072612-AMK-67-50-113</i>	<i>GW-041706-TS-68-25</i>	<i>GW-041106-TS-68-50</i>	<i>WG-072712-AMK-69-25-114</i>	
<i>Sample Date:</i>		<i>7/10/2004</i>	<i>7/26/2012</i>	<i>7/26/2012</i>	<i>4/17/2006</i>	<i>4/11/2006</i>	<i>7/27/2012</i>	
<i>Sample Depth:</i>		<i>50 ft bgs</i>	<i>25 ft BGS</i>	<i>50 ft BGS</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>25 ft BGS</i>	
<i>elev_MLLW</i>		<i>-31.88</i>	<i>-7.34</i>	<i>-32.24</i>	<i>-7.33</i>	<i>-32.35</i>	<i>-8.29</i>	
<i>elev_NGVD</i>		<i>-38.2</i>	<i>-13.7</i>	<i>-38.6</i>	<i>-13.6</i>	<i>-38.7</i>	<i>-14.6</i>	
Parameters	Units	CSI	WG					
Fparam								
Conductivity, field	umhos/cm	28.9	5480	29700	8010	39000	17100	
Dissolved oxygen (DO), field	µg/L	-	0	0	0	0	0	
Oxidation reduction potential (ORP), field	millivolts	-	-291	-486	-312	-480	-368	
pH, field	s.u.	7-8.5	7.55	8.77	10.73	8.68	11.07	12.28
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	16.4	15.47	15.57	14.99	17.96	15.57	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	106	0	0.1	486.00	101.00	12.7	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	69-50	70-25	70-50	70-50	71-25	71-50			
Sample ID:	GW-071106-TR-69-50	WG-082612-AMK-70-25-115	GW-041506-TS-70-50	GW-041506-TS-FD2	WG-072712-AMK-71-25-116	WG-072712-AMK-71-50-117			
Sample Date:	7/11/2006	8/26/2012	4/15/2006	4/15/2006	7/27/2012	7/27/2012			
Sample Depth:	50 ft bgs	25 ft BGS	50 ft bgs	50 ft bgs	25 ft BGS	50 ft BGS			
elev_MLLW	-33.28	-8.17	-33.18	-33.18	-7.86	-32.98			
elev_NGVD	-39.6	-14.5	-39.5	-39.5	-14.2	-39.3			
				(Duplicate)					
Parameters	Units	CSI	WG						
<i>Fparam</i>									
Conductivity, field	umhos/cm			41500	26100	36600	36600	31600	45800
Dissolved oxygen (DO), field	µg/L			0	0	0	0	0	760
Oxidation reduction potential (ORP), field	millivolts			-390	-352	-320	-320	-66	-166
pH, field	s.u.	7-8.5		11.49	6.78	7.17	7.17	6.23	7.39
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			19.6	14.63	10.81	10.81	14.22	14.06
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			> 999	103	292.00	292.00	7.7	37.1

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		72-25	72-50	73-25	73-50	74-50	74-75
<i>Sample ID:</i>		GW-041506-TS-72-25	GW-041208-TG-72-50	GW-042106-TS-73-25	GW-042106-TS-73-50	WG-082012-PR-74-50-118	WG-082012-PR-74-75-119
<i>Sample Date:</i>		4/15/2006	12/4/2008	4/21/2006	4/21/2006	8/20/2012	8/20/2012
<i>Sample Depth:</i>		25 ft bgs	50 ft bgs	25 ft bgs	50 ft bgs	50 ft BGS	75 ft BGS
<i>elev_MLLW</i>		-8.4	-33.51	-8.18	-33.29	-31.94	-56.94
<i>elev_NGVD</i>		-14.7	-39.8	-14.5	-39.6	-38.3	-63.3
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	31500	45800	34800	61200	42400	52400
Dissolved oxygen (DO), field	µg/L	1730	0	0	20	0	5890
Oxidation reduction potential (ORP), field	millivolts	-115	-107	-218	-134	-246	-109
pH, field	s.u.	7-8.5	7.22	7.57	7.32	7.24	7.8
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	13.24	11.8	12.07	12.07	19.6	26.3
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	437.00	29.3	20.20	-	45	252

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		74-100	74-130	75-50	75-75	75-100	
<i>Sample ID:</i>		WG-082012-PR-74-100-120	GW-082306-ILM-74-130	WG-080912-ALK-75-50-122	WG-080912-ALK-75-75-123	WG-080912-JN-75-100-124	
<i>Sample Date:</i>		8/20/2012	8/23/2006	8/9/2012	8/9/2012	8/9/2012	
<i>Sample Depth:</i>		100 ft BGS	130 ft bgs	50 ft BGS	75 ft BGS	100 ft BGS	
<i>elev_MLLW</i>		-81.94	-111.9	-31.54	-56.45	-81.47	
<i>elev_NGVD</i>		-88.3	-118.2	-37.9	-62.8	-87.8	
Parameters	Units	CSI		WG			
Fparam							
Conductivity, field	umhos/cm	54400	135100	31400	> 99.9	15000	
Dissolved oxygen (DO), field	µg/L	0	0	0	0	1320	
Oxidation reduction potential (ORP), field	millivolts	-289	-237	-452	-359	-175	
pH, field	s.u.	7-8.5	7.93	7.05	11.38	8.69	10.64
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	
Temperature, field	deg c	26.2	16.27	18.47	21.39	22.34	
Temperature, field	deg f	-	-	-	-	-	
Turbidity, field	ntu	60.4	383.00	66.7	443	15	

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		75-130	76-100	77-100	77-140	77C-25	77C-50
<i>Sample ID:</i>		GW-072413-BW-MW 75-130	GW-051208-TG-76-100	GW-031208-TG-77-100	GW-080906-ILM-77-140	WG-071612-DJT-77C-25-126	WG-071612-DJT-77C-50-127
<i>Sample Date:</i>		7/24/2013	12/5/2008	12/3/2008	8/9/2006	7/16/2012	7/16/2012
<i>Sample Depth:</i>		130 ft BGS	100 ft bgs	100 ft bgs	140 ft bgs	25 ft BGS	50 ft BGS
<i>elev_MLLW</i>		-111.38	-82.49	-85.17	-124.9	-8.9	-33.9
<i>elev_NGVD</i>		-117.7	-88.8	-91.5	-131.2	-15.2	-40.2
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	1070	14300	44900	131600	34500	29400
Dissolved oxygen (DO), field	µg/L	0	0	0	0	4290	70
Oxidation reduction potential (ORP), field	millivolts	-260	123	-197	-159	-85	-201
pH, field	s.u.	7-8.5	8.38	9.32	7.19	6.44	7.75
Specific Gravity~FIELDPARAM	sg	1.009	-	-	-	-	-
Temperature, field	deg c	19.28	12.1	12.4	18.7	16.32	20
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	0	110.0	43.3	158.00	0	> 1000

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			77C-75	77C-100	77C-130	77C-160	78-25
<i>Sample ID:</i>			WG-071612-DJT-77C-75-128	WG-071612-DJT-77C-100-129	GW-062313-LP-77C-130-05	GW-062313-LP-77C-160-06	GW-031208-TG-78-25
<i>Sample Date:</i>			7/16/2012	7/16/2012	6/23/2013	6/23/2013	12/3/2008
<i>Sample Depth:</i>			75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS	25 ft bgs
<i>elev_MLLW</i>			-58.9	-83.9	-113.9	-143.9	-8.39
<i>elev_NGVD</i>			-65.2	-90.2	-120.2	-150.2	-14.7
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		44400	20300	100000	68900	930
Dissolved oxygen (DO), field	µg/L		4780	7000	100	960	0
Oxidation reduction potential (ORP), field	millivolts		-121	-127	-226	-152	-119
pH, field	s.u.	7-8.5	8.1	7.94	6.64	6.88	7.66
Specific Gravity~FIELDPARAM	sg		-	-	1.057	1.036	-
Temperature, field	deg c		19.39	29.4	19.46	17.75	16.1
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		503	646	94	410	5.2

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			78-50	78C-25	78C-50	78C-75	78C-100
<i>Sample ID:</i>			GW-031208-TG-78-50	WG-071912-SP-78C-25-132	WG-071912-SP-78C-50-133	WG-071912-SP-78C-75-134	WG-071912-SP-78C-100-135
<i>Sample Date:</i>			12/3/2008	7/19/2012	7/19/2012	7/19/2012	7/19/2012
<i>Sample Depth:</i>			50 ft bgs	25 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS
<i>elev_MLLW</i>			-33.39	-7.2	-32.2	-57.2	-82.2
<i>elev_NGVD</i>			-39.7	-13.5	-38.5	-63.5	-88.5
Parameters	Units	CSI WG					
Fparam							
Conductivity, field	umhos/cm		3670	3350	2240	38200	99900
Dissolved oxygen (DO), field	µg/L		0	0	120	0	2670
Oxidation reduction potential (ORP), field	millivolts		-139	-151	-142	-175	-115
pH, field	s.u.	7-8.5	7.76	7.52	8.56	8.06	7.95
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		14.8	11.36	11.99	11.45	11.92
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		49.1	28.5	45.1	426	OOR

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	78C-130	78C-160	80-25	81-50	82-30		
<i>Sample ID:</i>	GW-080313-CH-78C-130-27	WG-071912-SP-78C-160-137	WG-072712-AMK-80-25-138	WG-081412-AMK-81-50-139	GW-072610-CM-82-30		
<i>Sample Date:</i>	8/3/2013	7/19/2012	7/27/2012	8/14/2012	7/26/2010		
<i>Sample Depth:</i>	130 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS	29 to 34 ft BGS		
<i>elev_MLLW</i>	-112.2	-142.2	-7.42	-32.02	-12.42 to -17.42		
<i>elev_NGVD</i>	-118.5	-148.5	-13.7	-38.3	-18.7 to -23.7		
Parameters	Units	CSI	WG				
Fparam							
Conductivity, field	umhos/cm		6150	19900	11100	> 99.9	18900
Dissolved oxygen (DO), field	µg/L		440	0	0	0	4060
Oxidation reduction potential (ORP), field	millivolts		-124	-134	-480	-377	-471
pH, field	s.u.	7-8.5	7.8	8.59	11.47	14.26	11.27
Specific Gravity~FIELDPARAM	sg		1	-	-	-	-
Temperature, field	deg c		15.58	9.44	15.27	22.52	23.89
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		6	0	> 1000	24.6	46.2

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		82-30	82-100	82-150	82-150	82-230	82-230
<i>Sample ID:</i>		GW-072610-CM-FD-002	WG-072912-PR-82-100-140	GW-072610-MD-82-150	GW-072610-MD-FD-003	GW-072610-CM-82-230	GW-072610-CM-FD-004
<i>Sample Date:</i>		7/26/2010	7/29/2012	7/26/2010	7/26/2010	7/26/2010	7/26/2010
<i>Sample Depth:</i>		29 to 34 ft BGS	100 ft BGS	145 to 150 ft BGS	145 to 150 ft BGS	227 to 232 ft BGS	227 to 232 ft BGS
<i>elev_MLLW</i>		-12.42 to -17.42	-83.5	-128.75 to -133.75	-128.75 to -133.75	-210.39 to -215.39	-210.39 to -215.39
<i>elev_NGVD</i>		-18.7 to -23.7	-89.8	-135.1 to -140.1	-135.1 to -140.1	-216.7 to -221.7	-216.7 to -221.7
		(Duplicate)			(Duplicate)		(Duplicate)
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	18900	> 99.9	20600	20600	21400	21400
Dissolved oxygen (DO), field	µg/L	4060	0	0	0	5430	5430
Oxidation reduction potential (ORP), field	millivolts	-471	-454	-276	-276	-155	-155
pH, field	s.u.	7-8.5	11.27	12.03	8.77	8.77	7.33
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	23.89	23.36	20.51	20.51	22.04	22.04
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	46.2	0	40.5	40.5	63.7	63.7

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		83C-25	83C-50	83C-75	83C-100	83C-130
<i>Sample ID:</i>		WG-072512-AK-83C-25-141	WG-072512-AK-83C-50-142	WG-072512-AK-83C-75-143	WG-072512-AK-83C-100-144	WG-072512-AK-83C-130-145
<i>Sample Date:</i>		7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012
<i>Sample Depth:</i>		25 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS	130 ft BGS
<i>elev_MLLW</i>		-7.22	-32.22	-57.22	-82.22	-112.22
<i>elev_NGVD</i>		-13.5	-38.5	-63.5	-88.5	-118.5
Parameters	Units	CSI		WG		
Fparam						
Conductivity, field	umhos/cm	48200	31600	70700	99900	99900
Dissolved oxygen (DO), field	µg/L	0	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts	-111	-304	-379	-316	-523
pH, field	s.u.	7-8.5	7.44	8.43	9.62	11.12
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	17.62	17.2	17.03	18.03	24.28
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	0	102	55.2	138	44.2

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	83C-160	84C-25	84C-50	84C-75	84C-100
<i>Sample ID:</i>	WG-072512-AK-83C-160-146	WG-071812-DJT-84C-25-147	WG-071812-DJT-84C-50-148	WG-071812-DJT-84C-75-149	WG-071812-DJT-84C-100-150
<i>Sample Date:</i>	7/25/2012	7/18/2012	7/18/2012	7/18/2012	7/18/2012
<i>Sample Depth:</i>	160 ft BGS	25 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS
<i>elev_MLLW</i>	-142.22	-7.56	-32.56	-57.56	-82.56
<i>elev_NGVD</i>	-148.5	-13.9	-38.9	-63.9	-88.9

<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
Fparam						
Conductivity, field	umhos/cm		26000	1450	15900	56300
Dissolved oxygen (DO), field	µg/L		0	0	0	0
Oxidation reduction potential (ORP), field	millivolts		-337	-141	-197	-179
pH, field	s.u.	7-8.5	10.54	7.2	7.36	7.69
Specific Gravity~FIELDPARAM	sg		-	-	-	-
Temperature, field	deg c		17.95	13.95	18.2	14.21
Temperature, field	deg f		-	-	-	-
Turbidity, field	ntu		-5	206	72.4	98.1

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			84C-130	84C-160	85C-25	85C-50	85C-75
<i>Sample ID:</i>			WG-071812-DJT-84C-130-151	GW-062013-LP-84C-160-01	WG-072012-DJT-85C-25-153	WG-072012-DJT-85C-50-154	WG-072012-DJT-85C-75-155
<i>Sample Date:</i>			7/18/2012	6/20/2013	7/20/2012	7/20/2012	7/20/2012
<i>Sample Depth:</i>			130 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS	75 ft BGS
<i>elev_MLLW</i>			-112.56	-142.56	-6.67	-31.67	-56.67
<i>elev_NGVD</i>			-118.9	-148.9	-13	-38	-63
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		33800	12400	599	9320	39900
Dissolved oxygen (DO), field	µg/L		0	360	0	40	0
Oxidation reduction potential (ORP), field	millivolts		-194	-168	-40	-236	-162
pH, field	s.u.	7-8.5	7.28	7.42	8.91	8.13	8.4
Specific Gravity~FIELDPARAM	sg		-	1.007	-	-	-
Temperature, field	deg c		15.3	14.86	14.7	15.5	16
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		191	0	21.8	65.7	16.8

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			85C-100	85C-130	85C-160	86C-25	86C-50
<i>Sample ID:</i>			WG-072012-DJT-85C-100-156	WG-072012-DJT-85C-130-157	GW-080513-CH-85C-160-28	WG-072412-MD-86C-25-159	WG-072412-MD-86C-50-160
<i>Sample Date:</i>			7/20/2012	7/20/2012	8/5/2013	7/24/2012	7/24/2012
<i>Sample Depth:</i>			100 ft BGS	130 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS
<i>elev_MLLW</i>			-81.67	-111.67	-141.67	-7.88	-32.88
<i>elev_NGVD</i>			-88	-118	-148	-14.2	-39.2
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		36200	42300	50600	842	3320
Dissolved oxygen (DO), field	µg/L		140	80	0	0	0
Oxidation reduction potential (ORP), field	millivolts		-187	-209	-241	-199	-215
pH, field	s.u.	7-8.5	7.68	7.57	9.14	8.63	9.25
Specific Gravity~FIELDPARAM	sg		-	-	1.02	-	-
Temperature, field	deg c		15.9	17.2	16.82	18.6	21.47
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		342	135	393	292	420

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		86C-75	86C-100	86C-130	86C-160	87C-25
<i>Sample ID:</i>		WG-072512-MD-86C-75-161	WG-072512-MD-86C-100-170	WG-072512-MD-86C-130-162	WG-072512-MD-86C-160-163	WG-072412-MD-87C-25-164
<i>Sample Date:</i>		7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/24/2012
<i>Sample Depth:</i>		75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS	25 ft BGS
<i>elev_MLLW</i>		-57.88	-82.88	-112.88	-142.88	-6.37
<i>elev_NGVD</i>		-64.2	-89.2	-119.2	-149.2	-12.7
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Fparam</i>						
Conductivity, field	umhos/cm	38100	44800	46300	46400	514
Dissolved oxygen (DO), field	µg/L	60	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts	-149	-163	-155	-184	-235
pH, field	s.u.	7-8.5	7.75	7.84	7.78	7.32
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	15.9	16.5	16.7	18.2	15.89
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	291	143	316	245	0

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	87C-50	87C-75	87C-100	87C-130	87C-160
Sample ID:	WG-072412-MD-87C-50-165	WG-072412-MD-87C-75-166	WG-072412-MD-87C-100-167	WG-072412-MD-87C-130-168	WG-072412-MD-87C-160-170
Sample Date:	7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012
Sample Depth:	50 ft BGS	75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS
elev_MLLW	-31.37	-56.37	-81.37	-111.37	-141.37
elev_NGVD	-37.7	-62.7	-87.7	-117.7	-147.7

Parameters	Units	CSI	WG	87C-50	87C-75	87C-100	87C-130	87C-160	
Fparam									
Conductivity, field	umhos/cm			2380	39900	43500	44300	47500	
Dissolved oxygen (DO), field	µg/L			0	0	0	0	0	
Oxidation reduction potential (ORP), field	millivolts			-235	-223	-217	-225	-202	
pH, field	s.u.	7-8.5		9.52	8.72	8.51	8.56	8	
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	
Temperature, field	deg c			16.01	16.54	17.32	20.09	19.28	
Temperature, field	deg f			-	-	-	-	-	
Turbidity, field	ntu			65.3	171	115	170	267	

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		88C-25	88C-50	88C-75	88C-100	88C-130
<i>Sample ID:</i>		WG-081612-TS-88C-25-171	WG-081612-TS-88C-50-172	WG-081612-TS-88C-75-173	WG-081612-TS-88C-100-174	GW-073013-CH-88C-130-23
<i>Sample Date:</i>		8/16/2012	8/16/2012	8/16/2012	8/16/2012	7/30/2013
<i>Sample Depth:</i>		25 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS	130 ft BGS
<i>elev_MLLW</i>		-7.87	-32.87	-57.87	-82.87	-112.87
<i>elev_NGVD</i>		-14.2	-39.2	-64.2	-89.2	-119.2
Parameters	Units	CSI WG				
Fparam						
Conductivity, field	umhos/cm	950	5500	39800	32500	38700
Dissolved oxygen (DO), field	µg/L	0	100	0	120	1680
Oxidation reduction potential (ORP), field	millivolts	-171	-244	-216	-187	-225
pH, field	s.u.	7-8.5	8.46	8.26	7.86	7.83
Specific Gravity~FIELDPARAM	sg	-	-	-	-	1.02
Temperature, field	deg c	22.04	20.76	17.97	18.91	20.70
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	0	122	53.5	85.1	22

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			88C-160	89C-25	89C-50	89C-75	89C-100
<i>Sample ID:</i>			GW-073013-CH-88C-160-22	WG-082212-PR-89-25-177	WG-082212-PR-89-50-178	WG-082312-PR-89-75-179	WG-082412-AK-89C-100-180
<i>Sample Date:</i>			7/30/2013	8/22/2012	8/22/2012	8/23/2012	8/24/2012
<i>Sample Depth:</i>			160 ft BGS	25 ft BGS	50 ft BGS	75 ft BGS	100 ft BGS
<i>elev_MLLW</i>			-142.87	-5.87	-30.95	-56.08	-81.01
<i>elev_NGVD</i>			-149.2	-12.2	-37.3	-62.4	-87.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		42700	551	12200	30700	38900
Dissolved oxygen (DO), field	µg/L		0	1390	1820	1400	0
Oxidation reduction potential (ORP), field	millivolts		-240	-319	-396	-417	-187
pH, field	s.u.	7-8.5	7.19	8.24	8.99	7.75	6.51
Specific Gravity~FIELDPARAM	sg		1.02	-	-	-	-
Temperature, field	deg c		16.23	19.06	21.34	21.55	17.24
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		25	0	10.1	0	495

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		89C-130	90C-25	90C-50	90C-75	90C-100	
<i>Sample ID:</i>		WG-082412-AK-89C-130-181	WG-072312-AK-90C-25-183	WG-072312-AK-90C-50-184	GW-092513-NH-90C-75	WG-072312-AK-90C-100-186	
<i>Sample Date:</i>		8/24/2012	7/23/2012	7/23/2012	9/25/2013	7/23/2012	
<i>Sample Depth:</i>		130 ft BGS	25 ft BGS	50 ft BGS		100 ft BGS	
<i>elev_MLLW</i>		-111.01	-7.03	-32.03		-82.03	
<i>elev_NGVD</i>		-117.3	-13.4	-38.4		-88.4	
Parameters	Units	CSI WG					
Fparam							
Conductivity, field	umhos/cm	37400	5240	40600	69100	44700	
Dissolved oxygen (DO), field	µg/L	0	540	0	170	0	
Oxidation reduction potential (ORP), field	millivolts	-200	-177	-279	-357	-523	
pH, field	s.u.	7-8.5	6.51	9.1	9.85	9.41	11.8
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	
Temperature, field	deg c	19.63	18.1	16.2	18.70	18.9	
Temperature, field	deg f	-	-	-	-	-	
Turbidity, field	ntu	> 1000	595	612	28	188	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		90C-130	90C-160	91C-25	91C-50	91C-75
<i>Sample ID:</i>		WG-072312-DJT-90C-130-187	GW-062613-AK-90C160-09	WG-071812-BW-91C-25-189	WG-071812-BW-91C-50-190	WG-071812-BW-91C-75-191
<i>Sample Date:</i>		7/23/2012	6/26/2013	7/18/2012	7/18/2012	7/18/2012
<i>Sample Depth:</i>		130 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS	75 ft BGS
<i>elev_MLLW</i>		-112.03	-142.03	-7.53	-32.53	-57.53
<i>elev_NGVD</i>		-118.4	-148.4	-13.8	-38.8	-63.8
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Fparam</i>						
Conductivity, field	umhos/cm	87000	13000	525	9390	12700
Dissolved oxygen (DO), field	µg/L	0	110	3770	8840	370
Oxidation reduction potential (ORP), field	millivolts	-545	-205	-98	-70	-184
pH, field	s.u.	7-8.5	7.66	8.94	9.5	9.08
Specific Gravity~FIELDPARAM	sg	-	1.0075	-	-	-
Temperature, field	deg c	18.1	18.28	14.91	17.6	22.41
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	76	2	484	OOR	OOR

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		91C-100	91C-130	91C-160	92C-25	92C-50
<i>Sample ID:</i>		WG-071812-BW-91C-100-192	WG-071812-BW-91C-130-193	WG-071812-BW-91C-160-194	WG-071812-AK-92C-25-196	WG-071812-AK-92C-50-197
<i>Sample Date:</i>		7/18/2012	7/18/2012	7/18/2012	7/18/2012	7/18/2012
<i>Sample Depth:</i>		100 ft BGS	130 ft BGS	160 ft BGS	25 ft BGS	50 ft BGS
<i>elev_MLLW</i>		-82.53	-112.53	-142.53	-8	-33
<i>elev_NGVD</i>		-88.8	-118.8	-148.8	-14.3	-39.3
Parameters	Units	CSI		WG		
Fparam						
Conductivity, field	umhos/cm	5040	8740	8440	8300	9350
Dissolved oxygen (DO), field	µg/L	870	290	240	0	5520
Oxidation reduction potential (ORP), field	millivolts	-157	-260	-236	-172	-190
pH, field	s.u.	7-8.5	9.49	9.9	10.11	8.3
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	20.26	16.25	16.2	15.2	17.5
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	799	147	83.6	4.5	40.3

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		92C-75	92C-100	92C-130	92C-160	93C-25
<i>Sample ID:</i>		WG-071812-AK-92C-75-198	WG-071812-AK-92C-100-199	WG-071812-AK-92C-130-200	WG-071812-AK-92C-160-201	WG-071712-DJT-93C-25-202
<i>Sample Date:</i>		7/18/2012	7/18/2012	7/18/2012	7/18/2012	7/17/2012
<i>Sample Depth:</i>		75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS	25 ft BGS
<i>elev_MLLW</i>		-58	-83	-113	-143	-7.56
<i>elev_NGVD</i>		-64.3	-89.3	-119.3	-149.3	-13.9
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm			41200	37100	31000
Dissolved oxygen (DO), field	µg/L			0	0	130
Oxidation reduction potential (ORP), field	millivolts			-357	-220	-228
pH, field	s.u.	7-8.5		7.62	8.2	7.95
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			16.3	17.4	18.2
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			31	3.6	237
						65
						17.5

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		93C-50	93C-75	93C-100	93C-130	93C-160
<i>Sample ID:</i>		WG-071712-DJT-93C-50-203	WG-071712-DJT-93C-75-204	WG-071712-DJT-93C-100-205	GW-062413-AK-93C130-08	GW-062413-AK-93C160-07
<i>Sample Date:</i>		7/17/2012	7/17/2012	7/17/2012	6/24/2013	6/24/2013
<i>Sample Depth:</i>		50 ft BGS	75 ft BGS	100 ft BGS	130 ft BGS	160 ft BGS
<i>elev_MLLW</i>		-32.56	-57.56	-82.56	-112.56	-142.56
<i>elev_NGVD</i>		-38.9	-63.9	-88.9	-118.9	-148.9
Parameters	Units	CSI		WG		
Fparam						
Conductivity, field	umhos/cm	6780	55500	53700	41500	41300
Dissolved oxygen (DO), field	µg/L	0	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts	-247	-212	-216	-222	-181
pH, field	s.u.	7-8.5	7.9	7.44	7.19	7.39
Specific Gravity~FIELDPARAM	sg	-	-	-	1.019	1.0205
Temperature, field	deg c	16.3	14.92	16.48	19.54	16.99
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	47.5	42.8	304	28	68

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>94C-25</i>	<i>94C-50</i>	<i>94C-75</i>	<i>94C-100</i>	<i>94C-130</i>	
<i>Sample ID:</i>		WG-072412-DJT-94C-25-209	WG-072412-DJT-94C-50-210	GW-092413-NH-94C-75	GW-092413-NH-94C-100	GW-092413-NH-94C-130	
<i>Sample Date:</i>		7/24/2012	7/24/2012	9/24/2013	9/24/2013	9/24/2013	
<i>Sample Depth:</i>		25 ft BGS	50 ft BGS				
<i>elev_MLLW</i>		-7.39	-32.39				
<i>elev_NGVD</i>		-13.7	-38.7				
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		32800	40000	46800	53600	27900
Dissolved oxygen (DO), field	µg/L		360	210	1200	1390	450
Oxidation reduction potential (ORP), field	millivolts		-113	-213	-188	-160	-249
pH, field	s.u.	7-8.5	7.18	8.22	7.46	7.44	10.53
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		19.3	18.2	15.18	15.36	16.73
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		0	21.6	42	27	265

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>94C-160</i>	<i>95-15</i>	<i>95C-25</i>	<i>95C-50</i>	<i>95C-75</i>
<i>Sample ID:</i>		<i>WG-072412-DJT-94C-160-214</i>	<i>WG-082512-PR-95-15-215</i>	<i>WG-071912-DJT-95C-25-216</i>	<i>WG-071912-DJT-95C-50-217</i>	<i>WG-071912-DJT-95C-75-218</i>
<i>Sample Date:</i>		<i>7/24/2012</i>	<i>8/25/2012</i>	<i>7/19/2012</i>	<i>7/19/2012</i>	<i>7/19/2012</i>
<i>Sample Depth:</i>		<i>160 ft BGS</i>	<i>15 ft BGS</i>	<i>25 ft BGS</i>	<i>50 ft BGS</i>	<i>75 ft BGS</i>
<i>elev_MLLW</i>		<i>-142.39</i>	<i>2.22</i>	<i>-7.78</i>	<i>-32.78</i>	<i>-57.78</i>
<i>elev_NGVD</i>		<i>-148.7</i>	<i>-4.1</i>	<i>-14.1</i>	<i>-39.1</i>	<i>-64.1</i>
Parameters	Units	CSI		WG		
Fparam						
Conductivity, field	umhos/cm	14400	-	25600	26100	42000
Dissolved oxygen (DO), field	µg/L	60	-	120	0	110
Oxidation reduction potential (ORP), field	millivolts	-254	-	-192	-199	-206
pH, field	s.u.	7-8.5	8.85	7.55	7.34	7.44
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	14.4	-	20.2	18.1	20.7
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	> 1000	-	64	311	285

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>95C-100</i>	<i>95C-130</i>	<i>95C-160</i>	<i>5106-1</i>	<i>5106-1</i>
<i>Sample ID:</i>			<i>WG-071912-DJT-95C-100-219</i>	<i>WG-071912-DJT-95C-130-220</i>	<i>WG-071912-DJT-95C-160-221</i>	<i>GW-092705-5106-1-001</i>	<i>GW-092705-5106-1-002</i>
<i>Sample Date:</i>			<i>7/19/2012</i>	<i>7/19/2012</i>	<i>7/19/2012</i>	<i>9/27/2005</i>	<i>9/27/2005</i>
<i>Sample Depth:</i>			<i>100 ft BGS</i>	<i>130 ft BGS</i>	<i>160 ft BGS</i>	<i>6 to 9 ft bml</i>	<i>10 to 13 ft bml</i>
<i>elev_MLLW</i>			<i>-82.78</i>	<i>-112.78</i>	<i>-142.78</i>	<i>-48.3 to -51.3</i>	<i>-52.3 to -55.3</i>
<i>elev_NGVD</i>			<i>-89.1</i>	<i>-119.1</i>	<i>-149.1</i>	<i>-54.6 to -57.6</i>	<i>-58.6 to -61.6</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		40300	40700	37100	59600	74900
Dissolved oxygen (DO), field	µg/L		0	150	150	620	730
Oxidation reduction potential (ORP), field	millivolts		-231	-276	-189	-119	-134
pH, field	s.u.	7-8.5	7.88	7.56	7.24	8.03	8.22
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		19.9	21	20	13.0	13.2
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		20.3	340	48.2	330	470

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	5106-1	5106-1	5106-1	5106-1	5106-1	5106-1		
<i>Sample ID:</i>	GW-092705-5106-1-003	GW-092705-5106-1-004	GW-092705-5106-1-005	GW-092705-5106-1-006	GW-092705-5106-1-007	GW-092705-5106-1-008		
<i>Sample Date:</i>	9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005	9/27/2005		
<i>Sample Depth:</i>	15 to 18 ft bml	20 to 23 ft bml	25 to 28 ft bml	30 to 33 ft bml	35 to 38 ft bml	35 to 38 ft bml		
<i>elev_MLLW</i>	-57.3 to -60.3	-62.3 to -65.3	-67.3 to -70.3	-72.3 to -75.3	-77.3 to -80.3	-77.3 to -80.3		
<i>elev_NGVD</i>	-63.6 to -66.6	-68.6 to -71.6	-73.6 to -76.6	-78.6 to -81.6	-83.6 to -86.6	-83.6 to -86.6		
						(Duplicate)		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm		76200	83500	95700	98100	> 99.9	> 99.9
Dissolved oxygen (DO), field	µg/L		470	300	270	240	210	210
Oxidation reduction potential (ORP), field	millivolts		-152	-186	-303	-351	-243	-243
pH, field	s.u.	7-8.5	7.96	8.98	11.09	11.64	10.40	10.40
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		13.2	13.8	14.6	15.6	14.1	14.1
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		> 990	> 990	390	400	40	40

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-1	5106-1	5106-1	5106-1	5106-1	5106-1	
<i>Sample ID:</i>		GW-092705-5106-1-009	GW-092705-5106-1-010	GW-092805-5106-1-011	GW-092805-5106-1-012	GW-092805-5106-1-013	GW-092805-5106-1-014	
<i>Sample Date:</i>		9/27/2005	9/27/2005	9/28/2005	9/28/2005	9/28/2005	9/28/2005	
<i>Sample Depth:</i>		40 to 43 ft bml	45 to 48 ft bml	50 to 53 ft bml	55 to 58 ft bml	60 to 63 ft bml	65 to 68 ft bml	
<i>elev_MLLW</i>		-82.3 to -85.3	-87.3 to -90.3	-92.3 to -95.3	-97.3 to -100.3	-102.3 to -105.3	-107.3 to -110.3	
<i>elev_NGVD</i>		-88.6 to -91.6	-93.6 to -96.6	-98.6 to -101.6	-103.6 to -106.6	-108.6 to -111.6	-113.6 to -116.6	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm	> 99.9	76200	70400	78600	88900	97400	
Dissolved oxygen (DO), field	µg/L	230	300	330	300	290	260	
Oxidation reduction potential (ORP), field	millivolts	-398	-445	-460	-483	-491	-494	
pH, field	s.u.	7-8.5	12.31	12.69	12.77	13.17	13.59	13.38
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	13.5	13.3	12.7	12.7	12.9	13.8	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	14	440	580	-10	140	120	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-1	5106-1	5106-1	5106-1	5106-1	5106-1
<i>Sample ID:</i>		GW-092805-5106-1-015	GW-092805-5106-1-016	GW-092805-5106-1-017	GW-092805-5106-1-018	GW-092805-5106-1-019	GW-092905-5106-1-020
<i>Sample Date:</i>		9/28/2005	9/28/2005	9/28/2005	9/28/2005	9/29/2005	9/29/2005
<i>Sample Depth:</i>		70 to 73 ft bml	75 to 78 ft bml	80 to 83 ft bml	85 to 88 ft bml	90 to 93 ft bml	95 to 98 ft bml
<i>elev_MLLW</i>		-112.3 to -115.3	-117.3 to -120.3	-122.3 to -125.3	-127.3 to -130.3	-132.3 to -135.3	-137.3 to -140.3
<i>elev_NGVD</i>		-118.6 to -121.6	-123.6 to -126.6	-128.6 to -131.6	-133.6 to -136.6	-138.6 to -141.6	-143.6 to -146.6
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	94700	51200	11700	3960	7360	8870
Dissolved oxygen (DO), field	µg/L	260	550	830	780	950	900
Oxidation reduction potential (ORP), field	millivolts	-490	-241	-222	-96	-72	6
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	15.0	14.6	14.3	14.1	13.9	14.2
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	640	99	120	890	130	615

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-1	5106-1	5106-1	5106-1	5106-2	5106-2
<i>Sample ID:</i>			GW-092905-5106-1-021	GW-092905-5106-1-022	GW-092905-5106-1-023	GW-093005-5106-1-024	GW-013006-5106-2-001	GW-013006-5106-2-002
<i>Sample Date:</i>			9/29/2005	9/29/2005	9/29/2005	9/30/2005	1/30/2006	1/30/2006
<i>Sample Depth:</i>			100 to 103 ft bml	105 to 108 ft bml	110 to 113 ft bml	115 to 118 ft bml	0 to 3 ft bml	4 to 7 ft bml
<i>elev_MLLW</i>			-142.3 to -145.3	-147.3 to -150.3	-152.3 to -155.3	-157.3 to -160.3	-44.6 to -47.6	-48.6 to -51.6
<i>elev_NGVD</i>			-148.6 to -151.6	-153.6 to -156.6	-158.6 to -161.6	-163.6 to -166.6	-50.9 to -53.9	-54.9 to -57.9
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		10700	22300	15200	13300	31200	54400
Dissolved oxygen (DO), field	µg/L		920	2150	550	600	2450	0
Oxidation reduction potential (ORP), field	millivolts		-26	14	-167	-149	-109	-210
pH, field	s.u.	7-8.5	8.44	8.32	9.56	9.15	7.80	8.11
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		14.1	14.2	14.4	14.6	8.69	9.30
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		290	310	> 990	> 990	-	445

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	5106-2	5106-2	5106-2	5106-2	5106-2	5106-2		
<i>Sample ID:</i>	GW-013006-5106-2-003	GW-013006-5106-2-004	GW-013006-5106-2-005	GW-013006-5106-2-006	GW-013106-5106-2-007	GW-013106-5106-2-008		
<i>Sample Date:</i>	1/30/2006	1/30/2006	1/30/2006	1/30/2006	1/31/2006	1/31/2006		
<i>Sample Depth:</i>	14 to 17 ft bml	24 to 27 ft bml	34 to 37 ft bml	44 to 47 ft bml	54 to 57 ft bml	64 to 67 ft bml		
<i>elev_MLLW</i>	-58.6 to -61.6	-68.6 to -71.6	-78.6 to -81.6	-88.6 to -91.6	-98.6 to -101.6	-108.6 to -111.6		
<i>elev_NGVD</i>	-64.9 to -67.9	-74.9 to -77.9	-84.9 to -87.9	-94.9 to -97.9	-104.9 to -107.9	-114.9 to -117.9		
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm	77000	> 99.9	> 99.9	95400	99000	> 99.9	
Dissolved oxygen (DO), field	µg/L	0	0	0	-	-	0	
Oxidation reduction potential (ORP), field	millivolts	-167	-343	-456	-466	-493	-492	
pH, field	s.u.	7-8.5	8.67	10.76	11.57	11.62	11.63	11.44
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	9.87	9.00	8.70	9.20	8.70	8.50	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	533	637	275	73	264	980	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-2	5106-2	5106-2	5106-2	5106-2	5106-3		
Sample ID:	GW-013106-5106-2-009	GW-013106-5106-2-010	GW-013106-5106-2-011	GW-013106-5106-2-012	GW-013106-5106-2-013	GW-091905-5106-3-001		
Sample Date:	1/31/2006	1/31/2006	1/31/2006	1/31/2006	1/31/2006	9/19/2005		
Sample Depth:	64 to 67 ft bml	74 to 77 ft bml	84 to 87 ft bml	94 to 97 ft bml	104 to 107 ft bml	4 to 7 ft bml		
elev_MLLW	-108.6 to -111.6	-118.6 to -121.6	-128.6 to -131.6	-138.6 to -141.6	-148.6 to -151.6	-46 to -49		
elev_NGVD	-114.9 to -117.9	-124.9 to -127.9	-134.9 to -137.9	-144.9 to -147.9	-154.9 to -157.9	-52.3 to -55.3		
Parameters	Units	CSI	WG					
Fparam								
Conductivity, field	umhos/cm	> 99.9	> 99.9	30500	36800	16000	79000	
Dissolved oxygen (DO), field	µg/L	0	0	4350	4330	370	0	
Oxidation reduction potential (ORP), field	millivolts	-492	-477	-119	-79	-177	-296	
pH, field	s.u.	7-8.5	11.44	11.37	9.41	9.28	8.42	9.83
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	8.50	8.70	8.80	8.80	9.40	14.7	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	980	-	-	-	-	554	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-3	5106-3	5106-3	5106-3	5106-3	5106-3
<i>Sample ID:</i>		GW-091905-5106-3-002	GW-091905-5106-3-003	GW-091905-5106-3-004	GW-091905-5106-3-005	GW-092005-5106-3-006	GW-092005-5106-3-007
<i>Sample Date:</i>		9/19/2005	9/19/2005	9/19/2005	9/19/2005	9/20/2005	9/20/2005
<i>Sample Depth:</i>		9 to 12 ft bml	14 to 17 ft bml	19 to 22 ft bml	25 to 28 ft bml	29 to 32 ft bml	35 to 38 ft bml
<i>elev_MLLW</i>		-51 to -54	-56 to -59	-61 to -64	-67 to -70	-71 to -74	-77 to -80
<i>elev_NGVD</i>		-57.3 to -60.3	-62.3 to -65.3	-67.3 to -70.3	-73.3 to -76.3	-77.3 to -80.3	-83.3 to -86.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	70100	67200	69200	58800	98000	76500
Dissolved oxygen (DO), field	µg/L	0	0	0	410	0	0
Oxidation reduction potential (ORP), field	millivolts	-221	-229	-284	-129	-389	-383
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	14.8	14.6	14.3	13.7	13.7	12.9
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	-	> 999	> 999	> 999	155	> 999

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-3	5106-3	5106-3	5106-3	5106-3	5106-3
<i>Sample ID:</i>		GW-092005-5106-3-008	GW-092005-5106-3-009	GW-092005-5106-3-010	GW-092005-5106-3-011	GW-092005-5106-3-012	GW-092105-5106-3-013
<i>Sample Date:</i>		9/20/2005	9/20/2005	9/20/2005	9/20/2005	9/20/2005	9/21/2005
<i>Sample Depth:</i>		39 to 42 ft bml	45 to 48 ft bml	49 to 52 ft bml	54 to 57 ft bml	59 to 62 ft bml	64 to 67 ft bml
<i>elev_MLLW</i>		-81 to -84	-87 to -90	-91 to -94	-96 to -99	-101 to -104	-106 to -109
<i>elev_NGVD</i>		-87.3 to -90.3	-93.3 to -96.3	-97.3 to -100.3	-102.3 to -105.3	-107.3 to -110.3	-112.3 to -115.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	94200	> 99.9	> 99.9	92700	63000	57700
Dissolved oxygen (DO), field	µg/L	0	0	0	0	0	210
Oxidation reduction potential (ORP), field	millivolts	-331	-410	-415	-421	-286	-89
pH, field	s.u.	7-8.5	11.89	12.18	12.22	12.24	10.06
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	14.1	14.9	14.9	13.9	13.3	13.5
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	> 999	322	> 999	767	> 999	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-3	5106-3	5106-3	5106-3	5106-3	5106-3			
Sample ID:	GW-092105-5106-3-014	GW-092105-5106-3-015	GW-092105-5106-3-016	GW-092105-5106-3-017	GW-092105-5106-3-018	GW-092105-5106-3-019			
Sample Date:	9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/21/2005			
Sample Depth:	69 to 72 ft bml	74 to 77 ft bml	79 to 82 ft bml	79 to 82 ft bml	84 to 87 ft bml	89 to 92 ft bml			
elev_MLLW	-111 to -114	-116 to -119	-121 to -124	-121 to -124	-126 to -129	-131 to -134			
elev_NGVD	-117.3 to -120.3	-122.3 to -125.3	-127.3 to -130.3	-127.3 to -130.3 (Duplicate)	-132.3 to -135.3	-137.3 to -140.3			
Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			28800	10700	65500	65500	33500	15100
Dissolved oxygen (DO), field	µg/L			1100	400	400	400	550	620
Oxidation reduction potential (ORP), field	millivolts			-18	-40	-30	-30	-68	-166
pH, field	s.u.	7-8.5		8.79	9.75	8.63	8.63	9.13	9.80
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			12.9	13.7	14.0	14.0	16.9	14.3
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			> 999	190	260	260	> 999	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-3	5106-3	5106-3	5106-3	5106-3	5106-5
Sample ID:	GW-092105-5106-3-020	GW-092205-5106-3-021	GW-092205-5106-3-022	GW-092205-5106-3-023	GW-092205-5106-3-024	GW-090905-5106-5-001
Sample Date:	9/21/2005	9/22/2005	9/22/2005	9/22/2005	9/22/2005	9/9/2005
Sample Depth:	94 to 97 ft bml	99 to 102 ft bml	104 to 107 ft bml	109 to 112 ft bml	114 to 117 ft bml	4 to 7 ft bml
elev_MLLW	-136 to -139	-141 to -144	-146 to -149	-151 to -154	-156 to -159	-46.1 to -49.1
elev_NGVD	-142.3 to -145.3	-147.3 to -150.3	-152.3 to -155.3	-157.3 to -160.3	-162.3 to -165.3	-52.4 to -55.4

Parameters	Units	CSI	WG				
Fparam							
Conductivity, field	umhos/cm			9080	9900	13600	42300
Dissolved oxygen (DO), field	µg/L			1270	1760	1310	1050
Oxidation reduction potential (ORP), field	millivolts			-20	-34	-91	-116
pH, field	s.u.	7-8.5		8.73	7.99	7.87	8.45
Specific Gravity~FIELDPARAM	sg			-	-	-	-
Temperature, field	deg c			13.7	12.8	12.5	13.3
Temperature, field	deg f			-	-	-	-
Turbidity, field	ntu			130	62	300	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-5	5106-5	5106-5	5106-5	5106-5	5106-5	
<i>Sample ID:</i>		GW-090905-5106-5-002	GW-090905-5106-5-003	GW-090905-5106-5-004	GW-090905-5106-5-005	GW-090905-5106-5-006	GW-090905-5106-5-007	
<i>Sample Date:</i>		9/9/2005	9/9/2005	9/9/2005	9/9/2005	9/9/2005	9/9/2005	
<i>Sample Depth:</i>		9 to 12 ft bml	14 to 17 ft bml	19 to 22 ft bml	24 to 27 ft bml	29 to 32 ft bml	34 to 37 ft bml	
<i>elev_MLLW</i>		-51.1 to -54.1	-56.1 to -59.1	-61.1 to -64.1	-66.1 to -69.1	-71.1 to -74.1	-76.1 to -79.1	
<i>elev_NGVD</i>		-57.4 to -60.4	-62.4 to -65.4	-67.4 to -70.4	-72.4 to -75.4	-77.4 to -80.4	-82.4 to -85.4	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm	60500	79100	57600	45500	70000	> 99.9	
Dissolved oxygen (DO), field	µg/L	0	0	0	1970	0	0	
Oxidation reduction potential (ORP), field	millivolts	-290	-409	-237	-92	-325	-421	
pH, field	s.u.	7-8.5	10.19	11.65	9.77	9.27	10.36	11.58
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	14.4	14.3	14.0	14.0	14.3	15.4	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	-	836	-	> 999	> 999	-	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-5	5106-5	5106-5	5106-5	5106-5	5106-5
Sample ID:	GW-090905-5106-5-008	GW-090905-5106-5-009	GW-090905-5106-5-010	GW-090905-5106-5-011	GW-091005-5106-5-012	GW-091005-5106-5-013
Sample Date:	9/9/2005	9/9/2005	9/9/2005	9/9/2005	9/10/2005	9/10/2005
Sample Depth:	39 to 42 ft bml	44 to 47 ft bml	49 to 52 ft bml	54 to 57 ft bml	59 to 61 ft bml	64 to 67 ft bml
elev_MLLW	-81.1 to -84.1	-86.1 to -89.1	-91.1 to -94.1	-96.1 to -99.1	-101.1 to -103.1	-106.1 to -109.1
elev_NGVD	-87.4 to -90.4	-92.4 to -95.4	-97.4 to -100.4	-102.4 to -105.4	-107.4 to -109.4	-112.4 to -115.4

Parameters Units CSI WG

Fparam

Parameters	Units	CSI	WG	5106-5	5106-5	5106-5	5106-5	5106-5	5106-5
Conductivity, field	umhos/cm			54900	85900	53300	53700	71100	89300
Dissolved oxygen (DO), field	µg/L			1060	0	1350	1560	0	140
Oxidation reduction potential (ORP), field	millivolts			-79	-317	-66	-76	-260	-146
pH, field	s.u.	7-8.5		9.49	10.08	9.10	9.23	9.08	7.47
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			15.6	14.7	14.1	13.8	14.1	13.9
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			> 999	> 999	> 999	-	-	618

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-5	5106-5	5106-5	5106-6	5106-6	5106-6
<i>Sample ID:</i>			GW-091205-5106-5-014	GW-091205-5106-5-015	GW-091205-5106-5-016	GW-101705-5106-6-001	GW-101705-5106-6-002	GW-101705-5106-6-003
<i>Sample Date:</i>			9/12/2005	9/12/2005	9/12/2005	10/17/2005	10/17/2005	10/17/2005
<i>Sample Depth:</i>			69 to 72 ft bml	74 to 77 ft bml	79 to 82 ft bml	8 to 11 ft bml	13 to 16 ft bml	18 to 21 ft bml
<i>elev_MLLW</i>			-111.1 to -114.1	-116.1 to -119.1	-121.1 to -124.1	-50.6 to -53.6	-55.6 to -58.6	-60.6 to -63.6
<i>elev_NGVD</i>			-117.4 to -120.4	-122.4 to -125.4	-127.4 to -130.4	-56.9 to -59.9	-61.9 to -64.9	-66.9 to -69.9
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		52700	55900	55500	59400	59200	49900
Dissolved oxygen (DO), field	µg/L		260	620	1790	270	250	270
Oxidation reduction potential (ORP), field	millivolts		-156	-43	-89	-445	-408	-307
pH, field	s.u.	7-8.5	7.60	8.44	8.16	12.87	12.04	12.92
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		14.3	14.6	15.4	14.3	13.9	13.7
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		-	-	359	> 990	> 990	930

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-6	5106-6	5106-6	5106-6	5106-6	5106-6			
Sample ID:	GW-101705-5106-6-004	GW-101705-5106-6-005	GW-101805-5106-6-006	GW-101805-5106-6-007	GW-101805-5106-6-008	GW-101805-5106-6-009			
Sample Date:	10/17/2005	10/17/2005	10/18/2005	10/18/2005	10/18/2005	10/18/2005			
Sample Depth:	23 to 26 ft bml	23 to 26 ft bml	28 to 31 ft bml	33 to 36 ft bml	38 to 41 ft bml	43 to 46 ft bml			
elev_MLLW	-65.6 to -68.6	-65.6 to -68.6	-70.6 to -73.6	-75.6 to -78.6	-80.6 to -83.6	-85.6 to -88.6			
elev_NGVD	-71.9 to -74.9	-71.9 to -74.9	-76.9 to -79.9	-81.9 to -84.9	-86.9 to -89.9	-91.9 to -94.9			
Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			87600	87600	90900	> 99.9	52900	96400
Dissolved oxygen (DO), field	µg/L			2140	2140	2060	1600	2830	1650
Oxidation reduction potential (ORP), field	millivolts			-508	-508	-398	-439	-148	-412
pH, field	s.u.	7-8.5		11.24	11.24	9.57	10.32	8.77	9.54
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			13.7	13.7	13.54	13.02	12.95	12.9
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			170	170	0	0	167	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-6	5106-6	5106-6	5106-6	5106-6	5106-6
<i>Sample ID:</i>			GW-101805-5106-6-010	GW-101805-5106-6-011	GW-101805-5106-6-012	GW-101805-5106-6-013	GW-101805-5106-6-014	GW-101805-5106-6-015
<i>Sample Date:</i>			10/18/2005	10/18/2005	10/18/2005	10/18/2005	10/18/2005	10/18/2005
<i>Sample Depth:</i>			48 to 51 ft bml	53 to 56 ft bml	58 to 61 ft bml	63 to 66 ft bml	68 to 71 ft bml	73 to 76 ft bml
<i>elev_MLLW</i>			-90.6 to -93.6	-95.6 to -98.6	-100.6 to -103.6	-105.6 to -108.6	-110.6 to -113.6	-115.6 to -118.6
<i>elev_NGVD</i>			-96.9 to -99.9	-101.9 to -104.9	-106.9 to -109.9	-111.9 to -114.9	-116.9 to -119.9	-121.9 to -124.9
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		86100	55800	43600	44500	48700	49900
Dissolved oxygen (DO), field	µg/L		1840	2540	2780	2490	2550	2650
Oxidation reduction potential (ORP), field	millivolts		-292	-189	-187	-198	-224	-264
pH, field	s.u.	7-8.5	7.68	7.45	7.32	7.21	8.32	8.72
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		13.1	13.1	13.2	13.4	13.03	13.5
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		-	47.9	879	-	-	231

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-6	5106-6	5106-6	5106-6	5106-6	5106-6
<i>Sample ID:</i>		GW-101905-5106-6-016	GW-101905-5106-6-017	GW-101905-5106-6-018	GW-101905-5106-6-019	GW-101905-5106-6-020	GW-101905-5106-6-021
<i>Sample Date:</i>		10/19/2005	10/19/2005	10/19/2005	10/19/2005	10/19/2005	10/19/2005
<i>Sample Depth:</i>		78 to 81 ft bml	83 to 86 ft bml	88 to 91 ft bml	93 to 96 ft bml	98 to 101 ft bml	103 to 106 ft bml
<i>elev_MLLW</i>		-120.6 to -123.6	-125.6 to -128.6	-130.6 to -133.6	-135.6 to -138.6	-140.6 to -143.6	-145.6 to -148.6
<i>elev_NGVD</i>		-126.9 to -129.9	-131.9 to -134.9	-136.9 to -139.9	-141.9 to -144.9	-146.9 to -149.9	-151.9 to -154.9
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	43700	49800	51400	45300	49400	49700
Dissolved oxygen (DO), field	µg/L	2690	2400	2910	2520	3440	4110
Oxidation reduction potential (ORP), field	millivolts	-174	-230	-184	-243	-140	-94
pH, field	s.u.	7-8.5	9.44	8.45	8.25	8.35	8.48
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	13.33	13.15	13.1	13.6	15.3	14.8
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	882	> 999	811	-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-7	5106-7	5106-7	5106-7	5106-7	5106-7
<i>Sample ID:</i>		GW-081005-5106-7-001	GW-081005-5106-7-002	GW-081005-5106-7-003	GW-081005-5106-7-004	GW-081005-5106-7-005	GW-081005-5106-7-006
<i>Sample Date:</i>		8/10/2005	8/10/2005	8/10/2005	8/10/2005	8/10/2005	8/10/2005
<i>Sample Depth:</i>		6 to 9 ft bml	11 to 14 ft bml	16 to 19 ft bml	21 to 24 ft bml	21 to 24 ft bml	26 to 29 ft bml
<i>elev_MLLW</i>		-47.73 to -50.73	-52.73 to -55.73	-57.73 to -60.73	-62.73 to -65.73	-62.73 to -65.73	-67.73 to -70.73
<i>elev_NGVD</i>		-54 to -57	-59 to -62	-64 to -67	-69 to -72	-69 to -72 (Duplicate)	-74 to -77
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	75900	46200	85700	97700	97700	83300
Dissolved oxygen (DO), field	µg/L	3290	3340	4600	4170	4170	4540
Oxidation reduction potential (ORP), field	millivolts	-478	-315	-472	-485	-485	-418
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	14.2	14.7	14.3	14.3	14.3	14.5
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	-	878	474	-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-7	5106-7	5106-7	5106-7	5106-7	5106-7
Sample ID:	GW-081005-5106-7-007	GW-081005-5106-7-008	GW-081105-5106-7-009	GW-081105-5106-7-010	GW-081105-5106-7-011	GW-081105-5106-7-012
Sample Date:	8/10/2005	8/10/2005	8/11/2005	8/11/2005	8/11/2005	8/11/2005
Sample Depth:	31 to 34 ft bml	36 to 39 ft bml	41 to 44 ft bml	46 to 49 ft bml	51 to 54 ft bml	56 to 59 ft bml
elev_MLLW	-72.73 to -75.73	-77.73 to -80.73	-82.73 to -85.73	-87.73 to -90.73	-92.73 to -95.73	-97.73 to -100.73
elev_NGVD	-79 to -82	-84 to -87	-89 to -92	-94 to -97	-99 to -102	-104 to -107

Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			99900	48600	49100	66300	38600	70100
Dissolved oxygen (DO), field	µg/L			3300	3670	4320	3240	3390	2860
Oxidation reduction potential (ORP), field	millivolts			-465	-281	-186	-139	-168	-164
pH, field	s.u.	7-8.5		10.44	9.27	8.93	7.44	7.14	7.14
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			14.7	14.5	14.3	14.2	14.4	14.4
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			-	439	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-7	5106-7	5106-7	5106-7	5106-7	5106-8
<i>Sample ID:</i>			GW-081105-5106-7-013	GW-081105-5106-7-014	GW-081105-5106-7-015	GW-081205-5106-7-016	GW-081205-5106-7-017	GW-080305-5106-8-001
<i>Sample Date:</i>			8/11/2005	8/11/2005	8/11/2005	8/12/2005	8/12/2005	8/3/2005
<i>Sample Depth:</i>			61 to 64 ft bml	66 to 69 ft bml	71 to 74 ft bml	76 to 79 ft bml	81 to 84 ft bml	14 to 17 ft bml
<i>elev_MLLW</i>			-102.73 to -105.73	-107.73 to -110.73	-112.73 to -115.73	-117.73 to -120.73	-122.73 to -125.73	-39.2 to -42.2
<i>elev_NGVD</i>			-109 to -112	-114 to -117	-119 to -122	-124 to -127	-129 to -132	-45.5 to -48.5
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		78100	79100	49400	26400	15400	67700
Dissolved oxygen (DO), field	µg/L		2620	2640	3600	3580	3780	2500
Oxidation reduction potential (ORP), field	millivolts		-165	-157	-122	-143	-110	-444
pH, field	s.u.	7-8.5	7.21	7.3	8.02	8.28	7.87	11.78
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		14.8	15.7	14.2	14.3	14.1	16.8
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		699	-	500	444	202	209

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-8	5106-8	5106-8	5106-8	5106-8	5106-8
<i>Sample ID:</i>		GW-080305-5106-8-002	GW-080405-5106-8-003	GW-080405-5106-8-004	GW-080405-5106-8-005	GW-080405-5106-8-006	GW-080505-5106-8-007
<i>Sample Date:</i>		8/3/2005	8/4/2005	8/4/2005	8/4/2005	8/4/2005	8/5/2005
<i>Sample Depth:</i>		19 to 22 ft bml	24 to 27 ft bml	29 to 32 ft bml	34 to 37 ft bml	39 to 42 ft bml	44 to 47 ft bml
<i>elev_MLLW</i>		-44.2 to -47.2	-49.2 to -52.2	-54.2 to -57.2	-59.2 to -62.2	-64.2 to -67.2	-69.2 to -72.2
<i>elev_NGVD</i>		-50.5 to -53.5	-55.5 to -58.5	-60.5 to -63.5	-65.5 to -68.5	-70.5 to -73.5	-75.5 to -78.5
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	77500	81400	83200	92900	96500	> 99.9
Dissolved oxygen (DO), field	µg/L	2360	2190	2270	2310	2500	1920
Oxidation reduction potential (ORP), field	millivolts	-482	-470	-480	-481	-484	-474
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	17.1	15.8	16.8	17.0	18.4	16.0
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	430	106	151	339	157	128

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-8	5106-8	5106-8	5106-8	5106-8	5106-8
<i>Sample ID:</i>		GW-080505-5106-8-008	GW-080505-5106-8-009	GW-080805-5106-8-010	GW-080805-5106-8-011	GW-080805-5106-8-012	GW-080805-5106-8-013
<i>Sample Date:</i>		8/5/2005	8/5/2005	8/8/2005	8/8/2005	8/8/2005	8/8/2005
<i>Sample Depth:</i>		49 to 52 ft bml	54 to 57 ft bml	69 to 72 ft bml	74 to 77 ft bml	79 to 82 ft bml	84 to 87 ft bml
<i>elev_MLLW</i>		-74.2 to -77.2	-79.2 to -82.2	-94.2 to -97.2	-99.2 to -102.2	-104.2 to -107.2	-109.2 to -112.2
<i>elev_NGVD</i>		-80.5 to -83.5	-85.5 to -88.5	-100.5 to -103.5	-105.5 to -108.5	-110.5 to -113.5	-115.5 to -118.5
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	> 99.9	> 99.9	99900	99900	65600	95500
Dissolved oxygen (DO), field	µg/L	1720	2070	1620	1560	2670	2270
Oxidation reduction potential (ORP), field	millivolts	-482	-458	-471	-480	-315	-176
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	16.8	18.5	15.5	15.7	17.1	18.5
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	570	850	-	598	-	978

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-8	5106-8	5106-8	5106-8	5106-8	5106-8
<i>Sample ID:</i>			GW-080805-5106-8-014	GW-080905-5106-8-015	GW-080905-5106-8-016	GW-080905-5106-8-017	GW-080905-5106-8-018	GW-080905-5106-8-019
<i>Sample Date:</i>			8/8/2005	8/9/2005	8/9/2005	8/9/2005	8/9/2005	8/9/2005
<i>Sample Depth:</i>			89 to 92 ft bml	94 to 97 ft bml	94 to 97 ft bml	99 to 102 ft bml	104 to 107 ft bml	109 to 112 ft bml
<i>elev_MLLW</i>			-114.2 to -117.2	-119.2 to -122.2	-119.2 to -122.2	-124.2 to -127.2	-129.2 to -132.2	-134.2 to -137.2
<i>elev_NGVD</i>			-120.5 to -123.5	-125.5 to -128.5	-125.5 to -128.5	-130.5 to -133.5	-135.5 to -138.5	-140.5 to -143.5
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm		> 99.9	79900	79900	54500	44800	17800
Dissolved oxygen (DO), field	µg/L		1930	2650	2650	3280	3290	3190
Oxidation reduction potential (ORP), field	millivolts		-145	-165	-165	-118	46	-59
pH, field	s.u.	7-8.5	7.10	7.65	7.65	7.67	8.48	7.35
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		16.0	15.6	15.6	15.2	15.4	16.0
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		319	-	-	98.8	-	91

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-9	5106-9	5106-9	5106-9	5106-9	5106-9
<i>Sample ID:</i>		GW-110105-5106-9-001	GW-110105-5106-9-002	GW-110105-5106-9-003	GW-110105-5106-9-004	GW-110105-5106-9-005	GW-110105-5106-9-006
<i>Sample Date:</i>		11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/1/2005
<i>Sample Depth:</i>		2 to 5 ft bml	7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml
<i>elev_MLLW</i>		-38.1 to -41.1	-43.1 to -46.1	-48.1 to -51.1	-53.1 to -56.1	-58.1 to -61.1	-63.1 to -66.1
<i>elev_NGVD</i>		-44.4 to -47.4	-49.4 to -52.4	-54.4 to -57.4	-59.4 to -62.4	-64.4 to -67.4	-69.4 to -72.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	49500	49900	61100	67600	75900	88200
Dissolved oxygen (DO), field	µg/L	460	540	440	510	230	520
Oxidation reduction potential (ORP), field	millivolts	-225	-208	-194	-202	-205	-196
pH, field	s.u.	7-8.5	7.84	7.86	7.43	7.45	7.51
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	12.00	11.80	11.60	11.60	11.20	11.70
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	> 999	> 999	128	> 999	> 999	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-9	5106-9	5106-9	5106-9	5106-9	5106-9
<i>Sample ID:</i>			GW-110105-5106-9-007	GW-110105-5106-9-008	GW-110105-5106-9-009	GW-110105-5106-9-010	GW-110105-5106-9-011	GW-110105-5106-9-012
<i>Sample Date:</i>			11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/1/2005
<i>Sample Depth:</i>			32 to 35 ft bml	37 to 40 ft bml	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml
<i>elev_MLLW</i>			-68.1 to -71.1	-73.1 to -76.1	-73.1 to -76.1	-78.1 to -81.1	-83.1 to -86.1	-88.1 to -91.1
<i>elev_NGVD</i>			-74.4 to -77.4	-79.4 to -82.4	-79.4 to -82.4	-84.4 to -87.4	-89.4 to -92.4	-94.4 to -97.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm		48500	> 99.9	> 99.9	> 99.9	> 99.9	79100
Dissolved oxygen (DO), field	µg/L		3880	490	490	410	280	260
Oxidation reduction potential (ORP), field	millivolts		-32	-133	-133	-143	-295	-370
pH, field	s.u.	7-8.5	8.16	8.16	8.16	8.71	10.87	11.59
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		11.60	11.40	11.40	11.70	11.50	11.60
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		> 999	598	598	587	> 999	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-9	5106-9	5106-9	5106-9	5106-9	5106-9
<i>Sample ID:</i>		GW-110105-5106-9-013	GW-110105-5106-9-014	GW-110105-5106-9-015	GW-110105-5106-9-016	GW-110205-5106-9-017	GW-110205-5106-9-018
<i>Sample Date:</i>		11/1/2005	11/1/2005	11/1/2005	11/1/2005	11/2/2005	11/2/2005
<i>Sample Depth:</i>		57 to 60 ft bml	62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml	77 to 80 ft bml	82 to 85 ft bml
<i>elev_MLLW</i>		-93.1 to -96.1	-98.1 to -101.1	-103.1 to -106.1	-108.1 to -111.1	-113.1 to -116.1	-118.1 to -121.1
<i>elev_NGVD</i>		-99.4 to -102.4	-104.4 to -107.4	-109.4 to -112.4	-114.4 to -117.4	-119.4 to -122.4	-124.4 to -127.4
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	84800	> 99.9	> 99.9	> 99.9	49900	15100
Dissolved oxygen (DO), field	µg/L	240	220	360	240	840	730
Oxidation reduction potential (ORP), field	millivolts	-418	-452	-459	-431	-196	-222
pH, field	s.u.	7-8.5	11.45	11.34	10.85	9.86	8.02
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	11.40	11.20	11.60	11.60	11.50	11.20
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	526	71.5	258	662	129	230

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-9	5106-9	5106-9	5106-9	5106-9	5106-10
Sample ID:	GW-110205-5106-9-019	GW-110205-5106-9-020	GW-110205-5106-9-021	GW-110205-5106-9-022	GW-110205-5106-9-023	GW-110205-5106-10-001
Sample Date:	11/2/2005	11/2/2005	11/2/2005	11/2/2005	11/2/2005	11/2/2005
Sample Depth:	87 to 90 ft bml	92 to 95 ft bml	97 to 100 ft bml	102 to 105 ft bml	107 to 110 ft bml	2 to 5 ft bml
elev_MLLW	-123.1 to -126.1	-128.1 to -131.1	-133.1 to -136.1	-138.1 to -141.1	-143.1 to -146.1	-38.9 to -41.9
elev_NGVD	-129.4 to -132.4	-134.4 to -137.4	-139.4 to -142.4	-144.4 to -147.4	-149.4 to -152.4	-45.2 to -48.2

Parameters Units CSI WG

Fparam

Parameters	Units	CSI	WG	5106-9	5106-9	5106-9	5106-9	5106-9	5106-10
Conductivity, field	umhos/cm			13000	19000	7770	10400	12800	44700
Dissolved oxygen (DO), field	µg/L			960	860	810	1290	1280	1860
Oxidation reduction potential (ORP), field	millivolts			-89	-33	-117	-176	-159	-103
pH, field	s.u.	7-8.5		8.67	8.64	8.02	7.93	7.96	8.08
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			11.10	11.10	12.50	12.80	12.50	11.80
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			> 999	> 999	999	196	> 999	999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-10	5106-10	5106-10	5106-10	5106-10	5106-10
<i>Sample ID:</i>			GW-110205-5106-10-002	GW-110305-5106-10-003	GW-110305-5106-10-004	GW-110305-5106-10-005	GW-110305-5106-10-006	GW-110305-5106-10-007
<i>Sample Date:</i>			11/2/2005	11/3/2005	11/3/2005	11/3/2005	11/3/2005	11/3/2005
<i>Sample Depth:</i>			7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml	32 to 35 ft bml
<i>elev_MLLW</i>			-43.9 to -46.9	-48.9 to -51.9	-53.9 to -56.9	-58.9 to -61.9	-63.9 to -66.9	-68.9 to -71.9
<i>elev_NGVD</i>			-50.2 to -53.2	-55.2 to -58.2	-60.2 to -63.2	-65.2 to -68.2	-70.2 to -73.2	-75.2 to -78.2
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		45400	59000	56300	54900	65700	76200
Dissolved oxygen (DO), field	µg/L		1020	650	190	130	420	430
Oxidation reduction potential (ORP), field	millivolts		-179	-143	-251	-241	-396	-397
pH, field	s.u.	7-8.5	8.15	7.76	9.07	8.27	9.86	11.12
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		11.60	11.30	11.00	11.00	11.30	11.70
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		> 999	739	-	688	> 999	895

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-10	5106-10	5106-10	5106-10	5106-10	5106-10
<i>Sample ID:</i>		GW-110305-5106-10-008	GW-110305-5106-10-009	GW-110305-5106-10-010	GW-110305-5106-10-011	GW-110305-5106-10-012	GW-110305-5106-10-013
<i>Sample Date:</i>		11/3/2005	11/3/2005	11/3/2005	11/3/2005	11/3/2005	11/3/2005
<i>Sample Depth:</i>		32 to 35 ft bml	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml	57 to 60 ft bml
<i>elev_MLLW</i>		-68.9 to -71.9	-73.9 to -76.9	-78.9 to -81.9	-83.9 to -86.9	-88.9 to -91.9	-93.9 to -96.9
<i>elev_NGVD</i>		-75.2 to -78.2	-80.2 to -83.2	-85.2 to -88.2	-90.2 to -93.2	-95.2 to -98.2	-100.2 to -103.2
<i>Parameters</i>	<i>Units</i>	<i>(Duplicate)</i>					
	<i>CSI WG</i>						
<i>Fparam</i>							
Conductivity, field	umhos/cm	76200	78100	89400	88100	96200	> 99.9
Dissolved oxygen (DO), field	µg/L	430	270	130	310	420	570
Oxidation reduction potential (ORP), field	millivolts	-397	-409	-444	-430	-435	-455
pH, field	s.u.	7-8.5	11.12	11.29	11.24	10.84	11.24
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	11.70	11.40	11.50	11.50	11.50	11.20
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	895	> 999	610	> 999	> 999	227

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-10	5106-10	5106-10	5106-10	5106-10	5106-10	
<i>Sample ID:</i>		GW-110305-5106-10-014	GW-110405-5106-10-015	GW-110405-5106-10-016	GW-110405-5106-10-017	GW-110405-5106-10-018	GW-110405-5106-10-019	
<i>Sample Date:</i>		11/3/2005	11/4/2005	11/4/2005	11/4/2005	11/4/2005	11/4/2005	
<i>Sample Depth:</i>		62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml	77 to 80 ft bml	82 to 85 ft bml	87 to 90 ft bml	
<i>elev_MLLW</i>		-98.9 to -101.9	-103.9 to -106.9	-108.9 to -111.9	-113.9 to -116.9	-118.9 to -121.9	-123.9 to -126.9	
<i>elev_NGVD</i>		-105.2 to -108.2	-110.2 to -113.2	-115.2 to -118.2	-120.2 to -123.2	-125.2 to -128.2	-130.2 to -133.2	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm	99000	93400	76400	26500	27300	37500	
Dissolved oxygen (DO), field	µg/L	490	200	110	170	820	350	
Oxidation reduction potential (ORP), field	millivolts	-457	-328	-223	-250	-122	-124	
pH, field	s.u.	7-8.5	10.66	9.56	7.78	8.94	8.60	8.87
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	11.00	11.00	10.80	10.80	11.10	10.50	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	538	663	> 999	-	377	218	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-10	5106-10	5106-10	5106-10	5106-10	5106-10
<i>Sample ID:</i>		GW-110405-5106-10-020	GW-110705-5106-10-021	GW-110705-5106-10-022	GW-110705-5106-10-023	GW-110705-5106-10-024	GW-110705-5106-10-025
<i>Sample Date:</i>		11/4/2005	11/7/2005	11/7/2005	11/7/2005	11/7/2005	11/7/2005
<i>Sample Depth:</i>		92 to 95 ft bml	97 to 100 ft bml	102 to 105 ft bml	107 to 110 ft bml	107 to 110 ft bml	112 to 115 ft bml
<i>elev_MLLW</i>		-128.9 to -131.9	-133.9 to -136.9	-138.9 to -141.9	-143.9 to -146.9	-143.9 to -146.9	-148.9 to -151.9
<i>elev_NGVD</i>		-135.2 to -138.2	-140.2 to -143.2	-145.2 to -148.2	-150.2 to -153.2	-150.2 to -153.2 (Duplicate)	-155.2 to -158.2
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	47000	20000	11300	11600	11600	11400
Dissolved oxygen (DO), field	µg/L	700	590	850	750	750	610
Oxidation reduction potential (ORP), field	millivolts	-9	-186	-110	-145	-145	-156
pH, field	s.u.	7-8.5	8.36	7.78	7.66	7.66	7.76
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	10.80	11.00	11.70	12.10	12.10	10.90
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	430	590	> 999	> 999	> 999	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-10	5106-10	5106-11	5106-11	5106-11	5106-11
<i>Sample ID:</i>			GW-110705-5106-10-026	GW-110705-5106-10-027	GW-101305-5106-11-001	GW-101305-5106-11-002	GW-101305-5106-11-003	GW-101305-5106-11-004
<i>Sample Date:</i>			11/7/2005	11/7/2005	10/13/2005	10/13/2005	10/13/2005	10/13/2005
<i>Sample Depth:</i>			117 to 120 ft bml	122 to 125 ft bml	2 to 5 ft bml	7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml
<i>elev_MLLW</i>			-153.9 to -156.9	-158.9 to -161.9	-40 to -43	-45 to -48	-50 to -53	-55 to -58
<i>elev_NGVD</i>			-160.2 to -163.2	-165.2 to -168.2	-46.3 to -49.3	-51.3 to -54.3	-56.3 to -59.3	-61.3 to -64.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		14000	39200	45800	49000	51500	57200
Dissolved oxygen (DO), field	µg/L		180	220	330	340	300	300
Oxidation reduction potential (ORP), field	millivolts		-139	-271	-129	-161	-206	-263
pH, field	s.u.	7-8.5	8.31	8.47	8.43	8.19	8.55	9.36
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		10.50	11.10	12.6	12.7	13.0	13.2
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		> 999	999	> 990	120	860	630

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-11	5106-11	5106-11	5106-11	5106-11	5106-11
<i>Sample ID:</i>		GW-101305-5106-11-005	GW-101305-5106-11-006	GW-101305-5106-11-007	GW-101305-5106-11-008	GW-101305-5106-11-009	GW-101305-5106-11-010
<i>Sample Date:</i>		10/13/2005	10/13/2005	10/13/2005	10/13/2005	10/13/2005	10/13/2005
<i>Sample Depth:</i>		22 to 25 ft bml	27 to 30 ft bml	32 to 35 ft bml	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml
<i>elev_MLLW</i>		-60 to -63	-65 to -68	-70 to -73	-75 to -78	-80 to -83	-85 to -88
<i>elev_NGVD</i>		-66.3 to -69.3	-71.3 to -74.3	-76.3 to -79.3	-81.3 to -84.3	-86.3 to -89.3	-91.3 to -94.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	61100	62400	78700	84100	50400	78500
Dissolved oxygen (DO), field	µg/L	290	300	270	270	300	270
Oxidation reduction potential (ORP), field	millivolts	-276	-324	-383	-369	-232	-277
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	13.9	14.5	13.5	13.3	13.0	12.8
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	840	> 990	> 990	450	270	> 990

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-11	5106-11	5106-11	5106-11	5106-11	5106-11
<i>Sample ID:</i>		GW-101405-5106-11-011	GW-101405-5106-11-012	GW-101405-5106-11-013	GW-101405-5106-11-014	GW-101405-5106-11-015	GW-101405-5106-11-016
<i>Sample Date:</i>		10/14/2005	10/14/2005	10/14/2005	10/14/2005	10/14/2005	10/14/2005
<i>Sample Depth:</i>		47 to 50 ft bml	57 to 60 ft bml	62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml	77 to 80 ft bml
<i>elev_MLLW</i>		-85 to -88	-95 to -98	-100 to -103	-105 to -108	-110 to -113	-115 to -118
<i>elev_NGVD</i>		-91.3 to -94.3	-101.3 to -104.3	-106.3 to -109.3	-111.3 to -114.3	-116.3 to -119.3	-121.3 to -124.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	65400	69100	52700	14700	27800	13600
Dissolved oxygen (DO), field	µg/L	510	290	760	530	640	620
Oxidation reduction potential (ORP), field	millivolts	-50	-69	-28	-56	-60	-52
pH, field	s.u.	7-8.5	8.06	7.78	7.44	7.92	7.82
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	12.7	12.6	12.7	12.6	12.7	13.1
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	450	510	170	> 990	> 990	> 990

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-11	5106-11	5106-11	5106-11	5106-11	5106-12
<i>Sample ID:</i>		GW-101405-5106-11-017	GW-101405-5106-11-018	GW-101405-5106-11-019	GW-101405-5106-11-020	GW-101505-5106-11-021	GW-101005-5106-12-001
<i>Sample Date:</i>		10/14/2005	10/14/2005	10/14/2005	10/14/2005	10/15/2005	10/10/2005
<i>Sample Depth:</i>		82 to 85 ft bml	87 to 90 ft bml	92 to 95 ft bml	97 to 100 ft bml	102 to 105 ft bml	2 to 5 ft bml
<i>elev_MLLW</i>		-120 to -123	-125 to -128	-130 to -133	-135 to -138	-140 to -143	-38.2 to -41.2
<i>elev_NGVD</i>		-126.3 to -129.3	-131.3 to -134.3	-136.3 to -139.3	-141.3 to -144.3	-146.3 to -149.3	-44.5 to -47.5
Parameters	Units	CSI WG					
Fparam							
Conductivity, field	umhos/cm	13200	12300	22700	9200	7070	48500
Dissolved oxygen (DO), field	µg/L	470	710	590	1200	1900	350
Oxidation reduction potential (ORP), field	millivolts	79	-48	-46	89	92	-313
pH, field	s.u.	7-8.5	8.17	8.23	8.11	7.17	7.27
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	14.4	14.3	13.3	13.0	13.0	13.1
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	-	> 990	> 990	44	210	790

9.15

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-12	5106-12	5106-12	5106-12	5106-12	5106-12
<i>Sample ID:</i>		GW-101105-5106-12-002	GW-101105-5106-12-003	GW-101105-5106-12-004	GW-101105-5106-12-005	GW-101105-5106-12-006	GW-101105-5106-12-007
<i>Sample Date:</i>		10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005
<i>Sample Depth:</i>		7 to 10 ft bml	12 to 15 ft bml	12 to 15 ft bml	17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml
<i>elev_MLLW</i>		-43.2 to -46.2	-48.2 to -51.2	-48.2 to -51.2	-53.2 to -56.2	-58.2 to -61.2	-63.2 to -66.2
<i>elev_NGVD</i>		-49.5 to -52.5	-54.5 to -57.5	-54.5 to -57.5	-59.5 to -62.5	-64.5 to -67.5	-69.5 to -72.5
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	55200	56500	56500	59000	66400	75200
Dissolved oxygen (DO), field	µg/L	340	340	340	330	310	270
Oxidation reduction potential (ORP), field	millivolts	-404	-437	-437	-356	-390	-309
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	12.8	12.5	12.5	12.5	13.5	13.4
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	780	490	490	290	> 990	560

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-12	5106-12	5106-12	5106-12	5106-12	5106-12
<i>Sample ID:</i>		GW-101105-5106-12-008	GW-101105-5106-12-009	GW-101105-5106-12-010	GW-101105-5106-12-011	GW-101105-5106-12-012	GW-101205-5106-12-013
<i>Sample Date:</i>		10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/12/2005
<i>Sample Depth:</i>		32 to 35 ft bml	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml	57 to 60 ft bml
<i>elev_MLLW</i>		-68.2 to -71.2	-73.2 to -76.2	-78.2 to -81.2	-83.2 to -86.2	-88.2 to -91.2	-93.2 to -96.2
<i>elev_NGVD</i>		-74.5 to -77.5	-79.5 to -82.5	-84.5 to -87.5	-89.5 to -92.5	-94.5 to -97.5	-99.5 to -102.5
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	77600	60200	46800	39600	32600	33100
Dissolved oxygen (DO), field	µg/L	280	660	990	960	780	810
Oxidation reduction potential (ORP), field	millivolts	-342	-127	-102	-102	-104	-91
pH, field	s.u.	7-8.5	7.47	7.52	7.62	7.66	7.65
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	14.5	13.8	14.2	13.2	12.9	12.8
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	> 990	30	100	170	23	6

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-12	5106-12	5106-12	5106-12	5106-12	5106-12
<i>Sample ID:</i>		GW-101205-5106-12-014	GW-101205-5106-12-015	GW-101205-5106-12-016	GW-101205-5106-12-017	GW-101205-5106-12-018	GW-101205-5106-12-019
<i>Sample Date:</i>		10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005
<i>Sample Depth:</i>		62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml	77 to 80 ft bml	82 to 85 ft bml	87 to 90 ft bml
<i>elev_MLLW</i>		-98.2 to -101.2	-103.2 to -106.2	-108.2 to -111.2	-113.2 to -116.2	-118.2 to -121.2	-123.2 to -126.2
<i>elev_NGVD</i>		-104.5 to -107.5	-109.5 to -112.5	-114.5 to -117.5	-119.5 to -122.5	-124.5 to -127.5	-129.5 to -132.5
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	30700	36200	> 99.9	90000	2820	42200
Dissolved oxygen (DO), field	µg/L	800	780	760	670	930	3240
Oxidation reduction potential (ORP), field	millivolts	-88	-77	-99	-76	-110	64
pH, field	s.u.	7-8.5	7.54	7.46	7.88	8.06	8.42
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	12.7	12.7	12.6	12.9	13.2	13.1
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	18	17	13	21	120	710

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-12	5106-12	5106-12	5106-12	5106-12	5106-13	
<i>Sample ID:</i>		GW-101205-5106-12-020	GW-101205-5106-12-021	GW-101205-5106-12-022	GW-101205-5106-12-023	GW-101205-5106-12-024	GW-112805-5106-13-001	
<i>Sample Date:</i>		10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	11/28/2005	
<i>Sample Depth:</i>		92 to 95 ft bml	97 to 100 ft bml	102 to 105 ft bml	107 to 110 ft bml	112 to 115 ft bml	2 to 5 ft bml	
<i>elev_MLLW</i>		-128.2 to -131.2	-133.2 to -136.2	-138.2 to -141.2	-143.2 to -146.2	-148.2 to -151.2	-36.7 to -39.7	
<i>elev_NGVD</i>		-134.5 to -137.5	-139.5 to -142.5	-144.5 to -147.5	-149.5 to -152.5	-154.5 to -157.5	-43 to -46	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>				
<i>Fparam</i>								
Conductivity, field	umhos/cm	5740	13700	13000	14700	27600	44900	
Dissolved oxygen (DO), field	µg/L	730	1370	1500	1320	840	1070	
Oxidation reduction potential (ORP), field	millivolts	-7	-10	-7	-36	-135	124	
pH, field	s.u.	7-8.5	8.12	7.78	7.46	7.56	7.63	
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	13.4	13.0	13.0	12.8	12.7	10.0	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	> 990	160	1	5	140	> 999	

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-13	5106-13	5106-13	5106-13	5106-13	5106-13
<i>Sample ID:</i>		GW-112805-5106-13-002	GW-112805-5106-13-003	GW-112805-5106-13-004	GW-112805-5106-13-005	GW-112805-5106-13-006	GW-112805-5106-13-007
<i>Sample Date:</i>		11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005
<i>Sample Depth:</i>		7 to 10 ft bml	7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml
<i>elev_MLLW</i>		-41.7 to -44.7	-41.7 to -44.7	-46.7 to -49.7	-51.7 to -54.7	-56.7 to -59.7	-61.7 to -64.7
<i>elev_NGVD</i>		-48 to -51	-48 to -51	-53 to -56	-58 to -61	-63 to -66	-68 to -71
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	47500	47500	52900	60000	67000	73900
Dissolved oxygen (DO), field	µg/L	910	910	730	550	790	790
Oxidation reduction potential (ORP), field	millivolts	-43	-43	-67	-85	-66	69
pH, field	s.u.	7-8.5	7.85	7.85	7.67	7.41	7.37
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	10.5	10.5	10.3	10.5	10.4	10.4
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	> 999	> 999	> 999	> 999	800	137

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-13	5106-13	5106-13	5106-13	5106-13	5106-13	
<i>Sample ID:</i>		GW-112805-5106-13-008	GW-112805-5106-13-009	GW-112905-5106-13-010	GW-112905-5106-13-011	GW-112905-5106-13-012	GW-112905-5106-13-013	
<i>Sample Date:</i>		11/28/2005	11/28/2005	11/29/2005	11/29/2005	11/29/2005	11/29/2005	
<i>Sample Depth:</i>		32 to 35 ft bml	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml	57 to 60 ft bml	
<i>elev_MLLW</i>		-66.7 to -69.7	-71.7 to -74.7	-76.7 to -79.7	-81.7 to -84.7	-86.7 to -89.7	-91.7 to -94.7	
<i>elev_NGVD</i>		-73 to -76	-78 to -81	-83 to -86	-88 to -91	-93 to -96	-98 to -101	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm	80700	89300	> 99.9	96500	90500	79200	
Dissolved oxygen (DO), field	µg/L	720	720	410	400	360	280	
Oxidation reduction potential (ORP), field	millivolts	7	44	-54	-330	-361	-411	
pH, field	s.u.	7-8.5	7.49	7.40	8.64	9.36	10.79	10.19
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	10.3	10.1	9.2	9.5	8.8	9.7	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	> 999	> 999	551	> 999	999	526	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-13	5106-13	5106-13	5106-13	5106-13	5106-13	
<i>Sample ID:</i>		GW-112905-5106-13-014	GW-112905-5106-13-015	GW-112905-5106-13-016	GW-112905-5106-13-017	GW-112905-5106-13-018	GW-112905-5106-13-019	
<i>Sample Date:</i>		11/29/2005	11/29/2005	11/29/2005	11/29/2005	11/29/2005	11/29/2005	
<i>Sample Depth:</i>		62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml	77 to 80 ft bml	82 to 85 ft bml	87 to 90 ft bml	
<i>elev_MLLW</i>		-96.7 to -99.7	-101.7 to -104.7	-106.7 to -109.7	-111.7 to -114.7	-116.7 to -119.7	-121.7 to -124.7	
<i>elev_NGVD</i>		-103 to -106	-108 to -111	-113 to -116	-118 to -121	-123 to -126	-128 to -131	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm	76100	94300	40500	82100	6610	1300	
Dissolved oxygen (DO), field	µg/L	550	450	1000	470	490	1120	
Oxidation reduction potential (ORP), field	millivolts	-299	-309	-27	-292	-121	-78	
pH, field	s.u.	7-8.5	8.38	9.69	9.15	9.47	9.39	9.13
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	9.5	9.7	9.5	9.7	10.2	10.2	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	496	> 999	999	402	> 999	959	

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-13	5106-13	5106-13	5106-13	5106-14	5106-14
<i>Sample ID:</i>		GW-113005-5106-13-020	GW-113005-5106-13-021	GW-113005-5106-13-022	GW-113005-5106-13-023	GW-120105-5106-14-001	GW-120105-5106-14-002
<i>Sample Date:</i>		11/30/2005	11/30/2005	11/30/2005	11/30/2005	12/1/2005	12/1/2005
<i>Sample Depth:</i>		92 to 95 ft bml	97 to 100 ft bml	102 to 105 ft bml	107 to 110 ft bml	2 to 5 ft bml	2 to 5 ft bml
<i>elev_MLLW</i>		-126.7 to -129.7	-131.7 to -134.7	-136.7 to -139.7	-141.7 to -144.7	-39 to -42	-39 to -42
<i>elev_NGVD</i>		-133 to -136	-138 to -141	-143 to -146	-148 to -151	-45.3 to -48.3	-45.3 to -48.3 <i>(Duplicate)</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	2350	24100	12100	18500	46100	46100
Dissolved oxygen (DO), field	µg/L	1720	2550	1760	810	720	720
Oxidation reduction potential (ORP), field	millivolts	-3	-26	-126	-113	-23	-23
pH, field	s.u.	7-8.5	8.41	7.59	7.82	7.86	7.25
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	9.6	9.7	9.6	10.4	10.40	10.40
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	104	447	325	335	> 999	> 999

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-14	5106-14	5106-14	5106-14	5106-14	5106-14
<i>Sample ID:</i>			GW-120105-5106-14-003	GW-120105-5106-14-004	GW-120105-5106-14-005	GW-120105-5106-14-006	GW-120105-5106-14-007	GW-120105-5106-14-008
<i>Sample Date:</i>			12/1/2005	12/1/2005	12/1/2005	12/1/2005	12/1/2005	12/1/2005
<i>Sample Depth:</i>			7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml	32 to 35 ft bml
<i>elev_MLLW</i>			-44 to -47	-49 to -52	-54 to -57	-59 to -62	-64 to -67	-69 to -72
<i>elev_NGVD</i>			-50.3 to -53.3	-55.3 to -58.3	-60.3 to -63.3	-65.3 to -68.3	-70.3 to -73.3	-75.3 to -78.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		49000	52700	58100	56200	66800	67000
Dissolved oxygen (DO), field	µg/L		780	740	520	740	190	130
Oxidation reduction potential (ORP), field	millivolts		-108	-115	-129	-112	-346	-225
pH, field	s.u.	7-8.5	7.08	7.10	7.21	7.40	9.78	8.69
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		10.00	9.80	10.00	9.50	9.60	9.20
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		999	999	729	750	751	197

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-14	5106-14	5106-14	5106-14	5106-14	5106-14			
Sample ID:	GW-120105-5106-14-009	GW-120205-5106-14-010	GW-120205-5106-14-011	GW-120205-5106-14-012	GW-120205-5106-14-013	GW-120205-5106-14-014			
Sample Date:	12/1/2005	12/2/2005	12/2/2005	12/2/2005	12/2/2005	12/2/2005			
Sample Depth:	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml	52 to 55 ft bml	57 to 60 ft bml			
elev_MLLW	-74 to -77	-79 to -82	-84 to -87	-89 to -92	-89 to -92	-94 to -97			
elev_NGVD	-80.3 to -83.3	-85.3 to -88.3	-90.3 to -93.3	-95.3 to -98.3	-95.3 to -98.3 (Duplicate)	-100.3 to -103.3			
Parameters	Units	CSI	WG						
<i>Fparam</i>									
Conductivity, field	umhos/cm			81300	84400	74700	78500	78500	87900
Dissolved oxygen (DO), field	µg/L			200	250	260	380	380	330
Oxidation reduction potential (ORP), field	millivolts			-337	-322	-344	-301	-301	-325
pH, field	s.u.	7-8.5		8.97	9.29	9.97	9.67	9.67	9.62
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			9.00	8.60	8.80	9.00	9.00	8.70
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			> 999	183	> 999	> 999	> 999	320

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-14	5106-14	5106-14	5106-14	5106-14	5106-14
<i>Sample ID:</i>			GW-120205-5106-14-015	GW-120205-5106-14-016	GW-120205-5106-14-017	GW-120205-5106-14-018	GW-120205-5106-14-019	GW-120305-5106-14-020
<i>Sample Date:</i>			12/2/2005	12/2/2005	12/2/2005	12/2/2005	12/2/2005	12/3/2005
<i>Sample Depth:</i>			62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml	77 to 80 ft bml	82 to 85 ft bml	87 to 90 ft bml
<i>elev_MLLW</i>			-99 to -102	-104 to -107	-109 to -112	-114 to -117	-119 to -122	-124 to -127
<i>elev_NGVD</i>			-105.3 to -108.3	-110.3 to -113.3	-115.3 to -118.3	-120.3 to -123.3	-125.3 to -128.3	-130.3 to -133.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		71100	71600	45900	33200	30000	1920
Dissolved oxygen (DO), field	µg/L		250	410	610	1140	780	1200
Oxidation reduction potential (ORP), field	millivolts		-141	-64	-84	-14	-82	-27
pH, field	s.u.	7-8.5	7.61	7.37	7.68	8.12	8.19	8.90
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		9.30	9.80	9.70	9.50	9.80	9.70
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		541	315	> 999	999	999	260

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-14	5106-14	5106-14	5106-14	5106-14	5106-15
<i>Sample ID:</i>		GW-120305-5106-14-021	GW-120305-5106-14-022	GW-120505-5106-14-023	GW-120505-5106-14-024	GW-120505-5106-14-025	GW-111505-5106-15-001
<i>Sample Date:</i>		12/3/2005	12/3/2005	12/5/2005	12/5/2005	12/5/2005	11/15/2005
<i>Sample Depth:</i>		87 to 90 ft bml	92 to 95 ft bml	97 to 100 ft bml	102 to 105 ft bml	107 to 110 ft bml	2 to 5 ft bml
<i>elev_MLLW</i>		-124 to -127	-129 to -132	-134 to -137	-139 to -142	-144 to -147	-36.9 to -39.9
<i>elev_NGVD</i>		-130.3 to -133.3	-135.3 to -138.3	-140.3 to -143.3	-145.3 to -148.3	-150.3 to -153.3	-43.2 to -46.2
<i>Parameters</i>	<i>Units</i>	<i>(Duplicate)</i>					
		<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	1920	3760	4100	6720	14600	44600
Dissolved oxygen (DO), field	µg/L	1200	1420	830	1100	750	8040
Oxidation reduction potential (ORP), field	millivolts	-27	92	-6	-75	-105	89
pH, field	s.u.	7-8.5	8.12	7.68	7.52	7.64	7.68
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	9.70	9.10	10.50	10.30	9.90	10.8
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	260	267	271	529	387	563

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-15	5106-15	5106-15	5106-15	5106-15	5106-15
<i>Sample ID:</i>			GW-111505-5106-15-002	GW-111505-5106-15-003	GW-111505-5106-15-004	GW-111505-5106-15-005	GW-111505-5106-15-006	GW-111505-5106-15-007
<i>Sample Date:</i>			11/15/2005	11/15/2005	11/15/2005	11/15/2005	11/15/2005	11/15/2005
<i>Sample Depth:</i>			2 to 5 ft bml	12 to 15 ft bml	22 to 25 ft bml	32 to 35 ft bml	42 to 45 ft bml	52 to 55 ft bml
<i>elev_MLLW</i>			-36.9 to -39.9	-46.9 to -49.9	-56.9 to -59.9	-66.9 to -69.9	-76.9 to -79.9	-86.9 to -89.9
<i>elev_NGVD</i>			-43.2 to -46.2	-53.2 to -56.2	-63.2 to -66.2	-73.2 to -76.2	-83.2 to -86.2	-93.2 to -96.2
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	(Duplicate)					
<i>Fparam</i>								
Conductivity, field	umhos/cm		44600	51400	66600	51500	50100	44000
Dissolved oxygen (DO), field	µg/L		8040	740	470	700	1140	1120
Oxidation reduction potential (ORP), field	millivolts		89	-41	-370	-83	-48	-78
pH, field	s.u.	7-8.5	7.68	7.85	10.04	8.33	7.60	7.86
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		10.8	10.7	10.2	10.5	10.4	10.4
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		563	> 999	> 999	> 999	200	723

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-15	5106-15	5106-15	5106-16	5106-16	5106-16
<i>Sample ID:</i>			GW-111605-5106-15-008	GW-111605-5106-15-009	GW-111505-5106-16-014	GW-111405-5106-16-001	GW-111405-5106-16-002	GW-111405-5106-16-003
<i>Sample Date:</i>			11/16/2005	11/16/2005	11/15/2005	11/14/2005	11/14/2005	11/14/2005
<i>Sample Depth:</i>			62 to 65 ft bml	72 to 75 ft bml	101 to 104 ft bml	1 to 4 ft bml	11 to 14 ft bml	21 to 24 ft bml
<i>elev_MLLW</i>			-96.9 to -99.9	-106.9 to -109.9	-135.9 to -138.9	-36.1 to -39.1	-46.1 to -49.1	-56.1 to -59.1
<i>elev_NGVD</i>			-103.2 to -106.2	-113.2 to -116.2	-142.2 to -145.2	-42.4 to -45.4	-52.4 to -55.4	-62.4 to -65.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		39400	23600	12800	46300	48300	61400
Dissolved oxygen (DO), field	µg/L		1430	980	1160	610	840	690
Oxidation reduction potential (ORP), field	millivolts		-34	-60	-77	-289	-288	-296
pH, field	s.u.	7-8.5	7.54	8.08	7.90	8.27	8.15	9.01
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		10.6	10.8	10.7	11.4	11.5	10.7
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		75	548	829	> 999	397	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-16	5106-16	5106-16	5106-16	5106-16	5106-16
<i>Sample ID:</i>			GW-111405-5106-16-004	GW-111405-5106-16-005	GW-111405-5106-16-006	GW-111405-5106-16-007	GW-111405-5106-16-008	GW-111505-5106-16-009
<i>Sample Date:</i>			11/14/2005	11/14/2005	11/14/2005	11/14/2005	11/14/2005	11/15/2005
<i>Sample Depth:</i>			31 to 34 ft bml	31 to 34 ft bml	41 to 44 ft bml	51 to 54 ft bml	51 to 54 ft bml	61 to 64 ft bml
<i>elev_MLLW</i>			-66.1 to -69.1	-66.1 to -69.1	-76.1 to -79.1	-86.1 to -89.1	-86.1 to -89.1	-96.1 to -99.1
<i>elev_NGVD</i>			-72.4 to -75.4	-72.4 to -75.4	-82.4 to -85.4	-92.4 to -95.4	-92.4 to -95.4	-102.4 to -105.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>		(Duplicate)			(Duplicate)	
<i>Fparam</i>								
Conductivity, field	umhos/cm		43600	43600	41000	19000	19000	30700
Dissolved oxygen (DO), field	µg/L		920	920	1400	1200	1200	1550
Oxidation reduction potential (ORP), field	millivolts		-107	-107	-87	-68	-68	-52
pH, field	s.u.	7-8.5	7.73	7.73	7.30	7.64	7.64	7.35
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		10.4	10.4	10.3	9.8	9.8	9.2
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		> 999	> 999	102	107	107	89.7

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-16	5106-16	5106-16	5106-16	5106-19	5106-19
<i>Sample ID:</i>			GW-111505-5106-16-010	GW-111505-5106-16-011	GW-111505-5106-16-012	GW-111505-5106-16-013	GW-011306-5106-19-001	GW-011306-5106-19-002
<i>Sample Date:</i>			11/15/2005	11/15/2005	11/15/2005	11/15/2005	1/13/2006	1/13/2006
<i>Sample Depth:</i>			71 to 74 ft bml	71 to 74 ft bml	81 to 84 ft bml	91 to 94 ft bml	0.5 to 3.5 ft bml	10.5 to 13.5 ft bml
<i>elev_MLLW</i>			-106.1 to -109.1	-106.1 to -109.1	-116.1 to -119.1	-126.1 to -129.1	-38.6 to -41.6	-48.6 to -51.6
<i>elev_NGVD</i>			-112.4 to -115.4	-112.4 to -115.4	-122.4 to -125.4	-132.4 to -135.4	-44.9 to -47.9	-54.9 to -57.9
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm		9200	9200	18400	13400	46900	52600
Dissolved oxygen (DO), field	µg/L		580	580	3360	420	290	340
Oxidation reduction potential (ORP), field	millivolts		-80	-80	61	-119	-113	-89
pH, field	s.u.	7-8.5	8.12	8.12	8.02	8.02	7.46	7.45
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		9.7	9.7	5.9	10.3	8.9	8.9
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		154	154	907	> 999	623	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-19	5106-19	5106-19	5106-19	5106-19	5106-19	
<i>Sample ID:</i>		GW-011406-5106-19-003	GW-011406-5106-19-004	GW-011606-5106-19-005	GW-011606-5106-19-006	GW-011606-5106-19-007	GW-011606-5106-19-008	
<i>Sample Date:</i>		1/14/2006	1/14/2006	1/16/2006	1/16/2006	1/16/2006	1/16/2006	
<i>Sample Depth:</i>		20.5 to 23.5 ft bml	30.5 to 33.5 ft bml	40.5 to 43.5 ft bml	50.5 to 53.5 ft bml	60.5 to 63.5 ft bml	70.5 to 73.5 ft bml	
<i>elev_MLLW</i>		-58.6 to -61.6	-68.6 to -71.6	-78.6 to -81.6	-88.6 to -91.6	-98.6 to -101.6	-108.6 to -111.6	
<i>elev_NGVD</i>		-64.9 to -67.9	-74.9 to -77.9	-84.9 to -87.9	-94.9 to -97.9	-104.9 to -107.9	-114.9 to -117.9	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm	65100	58100	55200	50900	59800	18000	
Dissolved oxygen (DO), field	µg/L	40	0	1380	440	300	330	
Oxidation reduction potential (ORP), field	millivolts	-121	-153	205	15	-60	-89	
pH, field	s.u.	7-8.5	7.92	8.96	7.58	7.68	7.23	7.94
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	8.8	8.3	8.8	8.9	8.9	9.2	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	> 999	> 999	522	836	> 999	> 999	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-19	5106-19	5106-19	5106-19	5106-19	5106-20
<i>Sample ID:</i>			GW-011606-5106-19-009	GW-011606-5106-19-010	GW-011706-5106-19-011	GW-011706-5106-19-012	GW-011706-5106-19-013	GW-010406-5106-20-001
<i>Sample Date:</i>			1/16/2006	1/16/2006	1/17/2006	1/17/2006	1/17/2006	1/4/2006
<i>Sample Depth:</i>			80.5 to 83.5 ft bml	90.5 to 93.5 ft bml	100.5 to 103.5 ft bml	100.5 to 103.5 ft bml	110.5 to 113.5 ft bml	0.5 to 3.5 ft bml
<i>elev_MLLW</i>			-118.6 to -121.6	-128.6 to -131.6	-138.6 to -141.6	-138.6 to -141.6	-148.6 to -151.6	-35 to -38
<i>elev_NGVD</i>			-124.9 to -127.9	-134.9 to -137.9	-144.9 to -147.9	-144.9 to -147.9	-154.9 to -157.9	-41.3 to -44.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm		27400	22900	8140	8140	42700	48300
Dissolved oxygen (DO), field	µg/L		80	330	790	790	1330	2700
Oxidation reduction potential (ORP), field	millivolts		-134	-164	-141	-141	44	39
pH, field	s.u.	7-8.5	7.98	8.18	7.78	7.78	7.73	7.83
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		9.7	9.3	8.9	8.9	8.4	8.8
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		682	213	> 999	> 999	440	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-20	5106-20	5106-20	5106-20	5106-20	5106-20
<i>Sample ID:</i>			GW-010406-5106-20-002	GW-010406-5106-20-003	GW-010406-5106-20-004	GW-010406-5106-20-005	GW-010506-5106-20-006	GW-010506-5106-20-007
<i>Sample Date:</i>			1/4/2006	1/4/2006	1/4/2006	1/4/2006	1/5/2006	1/5/2006
<i>Sample Depth:</i>			3.5 to 6.5 ft bml	8.5 to 11.5 ft bml	13.5 to 16.5 ft bml	18.5 to 21.5 ft bml	23.5 to 26.5 ft bml	28.5 to 31.5 ft bml
<i>elev_MLLW</i>			-38 to -41	-43 to -46	-48 to -51	-53 to -56	-58 to -61	-63 to -66
<i>elev_NGVD</i>			-44.3 to -47.3	-49.3 to -52.3	-54.3 to -57.3	-59.3 to -62.3	-64.3 to -67.3	-69.3 to -72.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		49100	53400	54900	63400	69000	73300
Dissolved oxygen (DO), field	µg/L		130	1110	550	330	710	420
Oxidation reduction potential (ORP), field	millivolts		-131	-13	-85	-155	-72	-92
pH, field	s.u.	7-8.5	7.76	7.55	7.73	7.64	7.37	7.28
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		9.2	9.2	8.9	8.8	9.0	8.8
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		> 999	50	580	> 999	166	> 999

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-20	5106-20	5106-20	5106-20	5106-20	5106-20
<i>Sample ID:</i>			GW-010506-5106-20-008	GW-010506-5106-20-009	GW-010506-5106-20-010	GW-010506-5106-20-011	GW-010506-5106-20-012	GW-010506-5106-20-013
<i>Sample Date:</i>			1/5/2006	1/5/2006	1/5/2006	1/5/2006	1/5/2006	1/5/2006
<i>Sample Depth:</i>			28.5 to 31.5 ft bml	33.5 to 36.5 ft bml	38.5 to 41.5 ft bml	43.5 to 46.5 ft bml	48.5 to 51.5 ft bml	53.5 to 56.5 ft bml
<i>elev_MLLW</i>			-63 to -66	-68 to -71	-73 to -76	-78 to -81	-83 to -86	-88 to -91
<i>elev_NGVD</i>			-69.3 to -72.3	-74.3 to -77.3	-79.3 to -82.3	-84.3 to -87.3	-89.3 to -92.3	-94.3 to -97.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm		73300	81000	90800	69500	98600	66500
Dissolved oxygen (DO), field	µg/L		420	300	0	630	0	0
Oxidation reduction potential (ORP), field	millivolts		-92	-71	-221	-98	-155	-276
pH, field	s.u.	7-8.5	7.28	7.25	8.61	7.38	8.68	9.39
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		8.8	9.1	9.2	9.1	9.2	9.5
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		> 999	358	> 999	853	> 999	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-20	5106-20	5106-20	5106-20	5106-20	5106-20
<i>Sample ID:</i>		GW-010506-5106-20-014	GW-010506-5106-20-015	GW-010506-5106-20-016	GW-010506-5106-20-017	GW-010606-5106-20-018	GW-010606-5106-20-019
<i>Sample Date:</i>		1/5/2006	1/5/2006	1/5/2006	1/5/2006	1/6/2006	1/6/2006
<i>Sample Depth:</i>		58.5 to 61.5 ft bml	63.5 to 66.5 ft bml	68.5 to 71.5 ft bml	73.5 to 76.5 ft bml	78.5 to 81.5 ft bml	83.5 to 86.5 ft bml
<i>elev_MLLW</i>		-93 to -96	-98 to -101	-103 to -106	-108 to -111	-113 to -116	-118 to -121
<i>elev_NGVD</i>		-99.3 to -102.3	-104.3 to -107.3	-109.3 to -112.3	-114.3 to -117.3	-119.3 to -122.3	-124.3 to -127.3
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	34000	58300	22000	32800	9450	40100
Dissolved oxygen (DO), field	µg/L	310	0	3550	190	80	3560
Oxidation reduction potential (ORP), field	millivolts	-105	-141	74	-52	-118	-5
pH, field	s.u.	7-8.5	7.73	8.25	8.22	8.04	8.22
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	9.8	9.8	9.8	10.0	10.5	9.9
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	570	880	> 999	> 999	> 999	977

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-20	5106-20	5106-21	5106-21	5106-21	5106-21
<i>Sample ID:</i>		GW-010606-5106-20-020	GW-010606-5106-20-021	GW-010606-5106-21-001	GW-010606-5106-21-002	GW-010606-5106-21-003	GW-010906-5106-21-004
<i>Sample Date:</i>		1/6/2006	1/6/2006	1/6/2006	1/6/2006	1/6/2006	1/9/2006
<i>Sample Depth:</i>		88.5 to 91.5 ft bml	93.5 to 96.5 ft bml	0.5 to 3.5 ft bml	5.5 to 8.5 ft bml	10.5 to 13.5 ft bml	15.5 to 18.5 ft bml
<i>elev_MLLW</i>		-123 to -126	-128 to -131	-37.6 to -40.6	-42.6 to -45.6	-47.6 to -50.6	-52.6 to -55.6
<i>elev_NGVD</i>		-129.3 to -132.3	-134.3 to -137.3	-43.9 to -46.9	-48.9 to -51.9	-53.9 to -56.9	-58.9 to -61.9
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	46200	33300	48300	50300	54600	54300
Dissolved oxygen (DO), field	µg/L	1590	1540	220	170	610	480
Oxidation reduction potential (ORP), field	millivolts	0	88	-67	-48	11	-91
pH, field	s.u.	7-8.5	7.87	7.71	7.50	7.33	7.30
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	9.7	9.9	10.0	10.1	10.1	9.8
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	108	> 999	999	> 999	256	> 999

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-21	5106-21	5106-21	5106-21	5106-21	5106-21
<i>Sample ID:</i>		GW-010906-5106-21-005	GW-010906-5106-21-006	GW-010906-5106-21-007	GW-011006-5106-21-008	GW-011006-5106-21-009	GW-011006-5106-21-010
<i>Sample Date:</i>		1/9/2006	1/9/2006	1/9/2006	1/10/2006	1/10/2006	1/10/2006
<i>Sample Depth:</i>		20.5 to 23.5 ft bml	25.5 to 28.5 ft bml	30.5 to 33.5 ft bml	35.5 to 38.5 ft bml	35.5 to 38.5 ft bml	40.5 to 43.5 ft bml
<i>elev_MLLW</i>		-57.6 to -60.6	-62.6 to -65.6	-67.6 to -70.6	-72.6 to -75.6	-72.6 to -75.6	-77.6 to -80.6
<i>elev_NGVD</i>		-63.9 to -66.9	-68.9 to -71.9	-73.9 to -76.9	-78.9 to -81.9	-78.9 to -81.9	-83.9 to -86.9
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	63800	72500	78100	65800	65800	57700
Dissolved oxygen (DO), field	µg/L	330	260	100	90	90	510
Oxidation reduction potential (ORP), field	millivolts	13	58	32	-10	-10	-36
pH, field	s.u.	7-8.5	7.15	7.16	7.21	8.42	8.42
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	9.6	9.3	9.2	9.6	9.6	9.9
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	> 999	224	205	> 999	> 999	> 999

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-21	5106-21	5106-21	5106-21	5106-21	5106-21
<i>Sample ID:</i>		GW-011006-5106-21-011	GW-011006-5106-21-012	GW-011006-5106-21-013	GW-011006-5106-21-014	GW-011006-5106-21-015	GW-011006-5106-21-016
<i>Sample Date:</i>		1/10/2006	1/10/2006	1/10/2006	1/10/2006	1/10/2006	1/10/2006
<i>Sample Depth:</i>		45.5 to 48.5 ft bml	50.5 to 53.5 ft bml	55.5 to 58.5 ft bml	60.5 to 63.5 ft bml	65.5 to 68.5 ft bml	70.5 to 73.5 ft bml
<i>elev_MLLW</i>		-82.6 to -85.6	-87.6 to -90.6	-92.6 to -95.6	-97.6 to -100.6	-102.6 to -105.6	-107.6 to -110.6
<i>elev_NGVD</i>		-88.9 to -91.9	-93.9 to -96.9	-98.9 to -101.9	-103.9 to -106.9	-108.9 to -111.9	-113.9 to -116.9
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	77500	67800	40400	48600	27400	17300
Dissolved oxygen (DO), field	µg/L	350	30	60	90	1420	930
Oxidation reduction potential (ORP), field	millivolts	45	-116	-81	-62	-78	-47
pH, field	s.u.	7-8.5	7.19	7.25	7.50	7.55	7.85
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	10.0	10.0	9.3	9.2	9.3	9.4
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	340	> 999	> 999	> 999	> 999	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-21	5106-21	5106-21	5106-22	5106-22	5106-22
<i>Sample ID:</i>		GW-011006-5106-21-017	GW-011006-5106-21-018	GW-011106-5106-21-019	GW-012506-5106-22-001	GW-012506-5106-22-002	GW-012506-5106-22-003
<i>Sample Date:</i>		1/10/2006	1/10/2006	1/11/2006	1/25/2006	1/25/2006	1/25/2006
<i>Sample Depth:</i>		75.5 to 78.5 ft bml	80.5 to 83.5 ft bml	85.5 to 88.5 ft bml	0 to 3 ft bml	0 to 3 ft bml	10 to 13 ft bml
<i>elev_MLLW</i>		-112.6 to -115.6	-117.6 to -120.6	-122.6 to -125.6	-29.2 to -32.2	-29.2 to -32.2	-39.2 to -42.2
<i>elev_NGVD</i>		-118.9 to -121.9	-123.9 to -126.9	-128.9 to -131.9	-35.5 to -38.5	-35.5 to -38.5	-45.5 to -48.5
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	960	1380	4840	49300	49300	50300
Dissolved oxygen (DO), field	µg/L	650	1450	130	-	-	-
Oxidation reduction potential (ORP), field	millivolts	69	93	-60	-190	-190	-199
pH, field	s.u.	7-8.5	8.13	8.06	7.26	7.26	7.25
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	9.4	9.1	10.1	9.0	9.0	9.0
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	> 999	145	> 999	312	312	-

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-22	5106-22	5106-22	5106-22	5106-22	5106-22	
<i>Sample ID:</i>		GW-012506-5106-22-004	GW-012506-5106-22-005	GW-012506-5106-22-006	GW-012606-5106-22-007	GW-012606-5106-22-008	GW-012606-5106-22-009	
<i>Sample Date:</i>		1/25/2006	1/25/2006	1/25/2006	1/26/2006	1/26/2006	1/26/2006	
<i>Sample Depth:</i>		20 to 23 ft bml	30 to 33 ft bml	40 to 43 ft bml	50 to 53 ft bml	60 to 63 ft bml	70 to 73 ft bml	
<i>elev_MLLW</i>		-49.2 to -52.2	-59.2 to -62.2	-69.2 to -72.2	-79.2 to -82.2	-89.2 to -92.2	-99.2 to -102.2	
<i>elev_NGVD</i>		-55.5 to -58.5	-65.5 to -68.5	-75.5 to -78.5	-85.5 to -88.5	-95.5 to -98.5	-105.5 to -108.5	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm		48900	46500	37200	8880	4440	1650
Dissolved oxygen (DO), field	µg/L		-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts		-188	-155	-186	-207	-194	-156
pH, field	s.u.	7-8.5	7.22	7.04	7.05	7.71	8.04	8.15
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		9.1	9.1	8.9	8.9	8.8	8.9
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		-	57.8	117	106	52.6	390

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-22	5106-22	5106-22	5106-22	5106-23	5106-23	
<i>Sample ID:</i>		GW-012606-5106-22-010	GW-012606-5106-22-011	GW-012606-5106-22-012	GW-012606-5106-22-013	GW-021006-5106-23-001	GW-021006-5106-23-002	
<i>Sample Date:</i>		1/26/2006	1/26/2006	1/26/2006	1/26/2006	2/10/2006	2/10/2006	
<i>Sample Depth:</i>		80 to 83 ft bml	90 to 93 ft bml	100 to 103 ft bml	110 to 113 ft bml	0 to 3 ft bml	7 to 10 ft bml	
<i>elev_MLLW</i>		-109.2 to -112.2	-119.2 to -122.2	-129.2 to -132.2	-139.2 to -142.2	-2.6 to -5.6	-9.6 to -12.6	
<i>elev_NGVD</i>		-115.5 to -118.5	-125.5 to -128.5	-135.5 to -138.5	-145.5 to -148.5	-8.9 to -11.9	-15.9 to -18.9	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>				
<i>Fparam</i>								
Conductivity, field	umhos/cm	4820	1930	35000	15200	34400	42200	
Dissolved oxygen (DO), field	µg/L	-	-	860	40	11630	130	
Oxidation reduction potential (ORP), field	millivolts	-220	-232	-116	-107	-54	-175	
pH, field	s.u.	7-8.5	8.50	8.61	7.82	7.62	8.09	7.52
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	8.9	8.80	9.17	9.01	6.9	9.0	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	-	452	-	-	-	-	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-23	5106-23	5106-23	5106-23	5106-23	5106-23
<i>Sample ID:</i>		GW-021006-5106-23-003	GW-021006-5106-23-004	GW-021006-5106-23-005	GW-021006-5106-23-006	GW-021006-5106-23-007	GW-021006-5106-23-008
<i>Sample Date:</i>		2/10/2006	2/10/2006	2/10/2006	2/10/2006	2/10/2006	2/10/2006
<i>Sample Depth:</i>		7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml	32 to 35 ft bml
<i>elev_MLLW</i>		-9.6 to -12.6	-14.6 to -17.6	-19.6 to -22.6	-24.6 to -27.6	-29.6 to -32.6	-34.6 to -37.6
<i>elev_NGVD</i>		-15.9 to -18.9	-20.9 to -23.9	-25.9 to -28.9	-30.9 to -33.9	-35.9 to -38.9	-40.9 to -43.9
<i>Parameters</i>	<i>Units</i>	<i>(Duplicate)</i>					
<i>CS1 WG</i>							
<i>Fparam</i>							
Conductivity, field	umhos/cm	42200	47300	49900	48600	47500	46600
Dissolved oxygen (DO), field	µg/L	130	-	0	0	0	70
Oxidation reduction potential (ORP), field	millivolts	-175	-187	-174	-197	-202	-170
pH, field	s.u.	7-8.5	7.52	7.85	7.83	7.89	7.86
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	9.0	9.0	9.3	10.0	10.3	10.6
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	-	-	-	696	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-23	5106-23	5106-23	5106-23	5106-23	5106-23
<i>Sample ID:</i>		GW-021006-5106-23-009	GW-021006-5106-23-010	GW-021306-5106-23-011	GW-021306-5106-23-012	GW-021306-5106-23-013	GW-021306-5106-23-014
<i>Sample Date:</i>		2/10/2006	2/10/2006	2/13/2006	2/13/2006	2/13/2006	2/13/2006
<i>Sample Depth:</i>		37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml	57 to 60 ft bml	62 to 65 ft bml
<i>elev_MLLW</i>		-39.6 to -42.6	-44.6 to -47.6	-49.6 to -52.6	-54.6 to -57.6	-59.6 to -62.6	-64.6 to -67.6
<i>elev_NGVD</i>		-45.9 to -48.9	-50.9 to -53.9	-55.9 to -58.9	-60.9 to -63.9	-65.9 to -68.9	-70.9 to -73.9
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	53200	54000	62500	68500	74200	77500
Dissolved oxygen (DO), field	µg/L	0	60	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts	-165	-156	-173	-174	-176	-181
pH, field	s.u.	7-8.5	7.38	7.28	7.39	7.4	7.41
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	10.7	9.4	9.0	9.2	9.1	8.8
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	460	-	-	-	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-23	5106-23	5106-23	5106-23	5106-23	5106-23
<i>Sample ID:</i>		GW-021306-5106-23-015	GW-021306-5106-23-016	GW-021306-5106-23-017	GW-021306-5106-23-018	GW-021306-5106-23-019	GW-021406-5106-23-020
<i>Sample Date:</i>		2/13/2006	2/13/2006	2/13/2006	2/13/2006	2/13/2006	2/14/2006
<i>Sample Depth:</i>		67 to 70 ft bml	72 to 75 ft bml	77 to 80 ft bml	82 to 85 ft bml	87 to 90 ft bml	92 to 95 ft bml
<i>elev_MLLW</i>		-69.6 to -72.6	-74.6 to -77.6	-79.6 to -82.6	-84.6 to -87.6	-89.6 to -92.6	-94.6 to -97.6
<i>elev_NGVD</i>		-75.9 to -78.9	-80.9 to -83.9	-85.9 to -88.9	-90.9 to -93.9	-95.9 to -98.9	-100.9 to -103.9
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	76700	70900	38200	37100	37300	507
Dissolved oxygen (DO), field	µg/L	0	0	5200	5300	11560	600
Oxidation reduction potential (ORP), field	millivolts	-286	-292	-74	-88	-74	-131
pH, field	s.u.	7-8.5	8.49	9.06	8.06	7.91	8.46
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	8.5	7.8	8.2	8.0	8.9	8.0
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	-	-	-	-	-	96.8

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		5106-24	5106-24	5106-24	5106-24	5106-24	5106-24
<i>Sample ID:</i>		GW-020806-5106-24-001	GW-020806-5106-24-002	GW-020806-5106-24-003	GW-020806-5106-24-004	GW-020806-5106-24-005	GW-020806-5106-24-006
<i>Sample Date:</i>		2/8/2006	2/8/2006	2/8/2006	2/8/2006	2/8/2006	2/8/2006
<i>Sample Depth:</i>		2 to 5 ft bml	7 to 10 ft bml	12 to 15 ft bml	12 to 15 ft bml	17 to 20 ft bml	22 to 25 ft bml
<i>elev_MLLW</i>		-4.2 to -7.2	-9.2 to -12.2	-14.2 to -17.2	-14.2 to -17.2	-19.2 to -22.2	-24.2 to -27.2
<i>elev_NGVD</i>		-10.5 to -13.5	-15.5 to -18.5	-20.5 to -23.5	-20.5 to -23.5 <i>(Duplicate)</i>	-25.5 to -28.5	-30.5 to -33.5
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	46300	32400	46100	46100	47200	47900
Dissolved oxygen (DO), field	µg/L	5850	0	0	0	0	30
Oxidation reduction potential (ORP), field	millivolts	-135	-191	-181	-181	-182	-152
pH, field	s.u.	7-8.5	7.91	7.58	7.72	7.72	7.35
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	9.4	10.3	10.4	10.4	9.8	9.7
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	198	-	-	-	475	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-24	5106-24	5106-24	5106-24	5106-24	5106-24
<i>Sample ID:</i>		GW-020806-5106-24-007	GW-020806-5106-24-008	GW-020806-5106-24-009	GW-020906-5106-24-010	GW-020906-5106-24-011	GW-020906-5106-24-012
<i>Sample Date:</i>		2/8/2006	2/8/2006	2/8/2006	2/9/2006	2/9/2006	2/9/2006
<i>Sample Depth:</i>		27 to 30 ft bml	32 to 35 ft bml	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml
<i>elev_MLLW</i>		-29.2 to -32.2	-34.2 to -37.2	-39.2 to -42.2	-44.2 to -47.2	-49.2 to -52.2	-54.2 to -57.2
<i>elev_NGVD</i>		-35.5 to -38.5	-40.5 to -43.5	-45.5 to -48.5	-50.5 to -53.5	-55.5 to -58.5	-60.5 to -63.5
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	41800	49500	50800	55300	61100	50100
Dissolved oxygen (DO), field	µg/L	0	40	50	0	150	220
Oxidation reduction potential (ORP), field	millivolts	-170	-133	-148	-170	-149	-157
pH, field	s.u.	7-8.5	7.52	7.16	7.15	7.16	7.08
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	9.4	9.4	9.1	8.8	8.2	8.0
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	-	-	-	-	622	232

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-24	5106-24	5106-24	5106-24	5106-24	5106-24
<i>Sample ID:</i>			GW-020906-5106-24-013	GW-020906-5106-24-014	GW-020906-5106-24-015	GW-020906-5106-24-016	GW-020906-5106-24-017	GW-020906-5106-24-018
<i>Sample Date:</i>			2/9/2006	2/9/2006	2/9/2006	2/9/2006	2/9/2006	2/9/2006
<i>Sample Depth:</i>			57 to 60 ft bml	62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml	77 to 80 ft bml	82 to 85 ft bml
<i>elev_MLLW</i>			-59.2 to -62.2	-64.2 to -67.2	-69.2 to -72.2	-74.2 to -77.2	-79.2 to -82.2	-84.2 to -87.2
<i>elev_NGVD</i>			-65.5 to -68.5	-70.5 to -73.5	-75.5 to -78.5	-80.5 to -83.5	-85.5 to -88.5	-90.5 to -93.5
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		40900	35200	48700	54500	67200	28600
Dissolved oxygen (DO), field	µg/L		130	350	70	0	0	2440
Oxidation reduction potential (ORP), field	millivolts		-169	-153	-168	-163	-180	-137
pH, field	s.u.	7-8.5	7.41	7.43	7.38	7.35	7.46	7.53
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		7.9	7.5	8.0	8.3	8.7	9.2
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		196	81.8	-	671	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-24	5106-24	5106-25	5106-25	5106-25	5106-25
<i>Sample ID:</i>			GW-020906-5106-24-019	GW-020906-5106-24-020	GW-042706-5106-25-009	GW-042706-5106-25-010	GW-041406-5106-25-001	GW-041406-5106-25-002
<i>Sample Date:</i>			2/9/2006	2/9/2006	4/27/2006	4/27/2006	4/14/2006	4/14/2006
<i>Sample Depth:</i>			87 to 90 ft bml	92 to 95 ft bml	1 to 5 ft bml	9 to 13 ft bml	19 to 23 ft bml	29 to 33 ft bml
<i>elev_MLLW</i>			-89.2 to -92.2	-94.2 to -97.2	-3.2 to -7.2	-11.2 to -15.2	-21.2 to -25.2	-31.2 to -35.2
<i>elev_NGVD</i>			-95.5 to -98.5	-100.5 to -103.5	-9.5 to -13.5	-17.5 to -21.5	-27.5 to -31.5	-37.5 to -41.5
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		21000	37800	32000	12300	37300	25000
Dissolved oxygen (DO), field	µg/L		790	2660	0	0	5580	5360
Oxidation reduction potential (ORP), field	millivolts		-134	-86	-245	-268	-197	-167
pH, field	s.u.	7-8.5	7.68	7.62	7.75	8.13	7.69	7.58
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		10.3	10.4	11.00	11.80	10.40	10.00
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		-	-	-	-	-	0

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-25	5106-25	5106-25	5106-25	5106-25	5106-25
<i>Sample ID:</i>			GW-041706-5106-25-003	GW-041706-5106-25-004	GW-041806-5106-25-005	GW-041806-5106-25-006	GW-041806-5106-25-007	GW-041806-5106-25-008
<i>Sample Date:</i>			4/17/2006	4/17/2006	4/18/2006	4/18/2006	4/18/2006	4/18/2006
<i>Sample Depth:</i>			39 to 43 ft bml	49 to 53 ft bml	59 to 63 ft bml	69 to 73 ft bml	69 to 73 ft bml	79 to 83 ft bml
<i>elev_MLLW</i>			-41.2 to -45.2	-51.2 to -55.2	-61.2 to -65.2	-71.2 to -75.2	-71.2 to -75.2	-81.2 to -85.2
<i>elev_NGVD</i>			-47.5 to -51.5	-57.5 to -61.5	-67.5 to -71.5	-77.5 to -81.5	-77.5 to -81.5 (Duplicate)	-87.5 to -91.5
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		37000	21100	41100	19700	19700	344
Dissolved oxygen (DO), field	µg/L		5810	5430	5300	5770	5770	11520
Oxidation reduction potential (ORP), field	millivolts		-242	-239	-226	-281	-281	-194
pH, field	s.u.	7-8.5	7.68	7.86	8.04	8.21	8.21	8.84
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		10.50	10.80	9.90	12.60	12.60	12.30
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		-	0	-	0	0	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-26	5106-26	5106-26	5106-26	5106-26	5106-26
<i>Sample ID:</i>		GW-021406-5106-26-001	GW-021406-5106-26-002	GW-021406-5106-26-003	GW-021406-5106-26-004	GW-021406-5106-26-005	GW-021406-5106-26-006
<i>Sample Date:</i>		2/14/2006	2/14/2006	2/14/2006	2/14/2006	2/14/2006	2/14/2006
<i>Sample Depth:</i>		0 to 3 ft bml	7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml
<i>elev_MLLW</i>		1.9 to -1.1	-5.1 to -8.1	-10.1 to -13.1	-15.1 to -18.1	-20.1 to -23.1	-25.1 to -28.1
<i>elev_NGVD</i>		-4.4 to -7.4	-11.4 to -14.4	-16.4 to -19.4	-21.4 to -24.4	-26.4 to -29.4	-31.4 to -34.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	43900	14900	22200	35300	42100	44100
Dissolved oxygen (DO), field	µg/L	8090	0	120	0	230	880
Oxidation reduction potential (ORP), field	millivolts	-112	-216	-189	-197	-175	-145
pH, field	s.u.	7-8.5	7.80	8.18	8.12	7.79	7.59
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	7.0	9.7	10.0	10.0	9.5	8.6
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	585	514	450	-	751	261

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-26	5106-26	5106-26	5106-26	5106-26	5106-26
<i>Sample ID:</i>		GW-021406-5106-26-007	GW-021406-5106-26-008	GW-021406-5106-26-009	GW-021506-5106-26-010	GW-021506-5106-26-011	GW-021506-5106-26-012
<i>Sample Date:</i>		2/14/2006	2/14/2006	2/14/2006	2/15/2006	2/15/2006	2/15/2006
<i>Sample Depth:</i>		32 to 35 ft bml	37 to 40 ft bml	37 to 40 ft bml	42 to 45 ft bml	47 to 50 ft bml	52 to 55 ft bml
<i>elev_MLLW</i>		-30.1 to -33.1	-35.1 to -38.1	-35.1 to -38.1	-40.1 to -43.1	-45.1 to -48.1	-50.1 to -53.1
<i>elev_NGVD</i>		-36.4 to -39.4	-41.4 to -44.4	-41.4 to -44.4	-46.4 to -49.4	-51.4 to -54.4	-56.4 to -59.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	44100	45400	45400	44200	28000	8360
Dissolved oxygen (DO), field	µg/L	0	0	0	490	0	0
Oxidation reduction potential (ORP), field	millivolts	-204	-179	-179	-151	-181	-213
pH, field	s.u.	7-8.5	7.40	7.32	7.32	7.27	7.66
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	9.0	8.4	8.4	6.6	6.1	7.1
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	-	-	-	946	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-26	5106-26	5106-26	5106-26	5106-26	5106-26
<i>Sample ID:</i>		GW-021506-5106-26-013	GW-021506-5106-26-014	GW-021506-5106-26-015	GW-021506-5106-26-016	GW-021506-5106-26-017	GW-021606-5106-26-018
<i>Sample Date:</i>		2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/16/2006
<i>Sample Depth:</i>		57 to 60 ft bml	62 to 65 ft bml	67 to 70 ft bml	72 to 75 ft bml	77 to 80 ft bml	82 to 85 ft bml
<i>elev_MLLW</i>		-55.1 to -58.1	-60.1 to -63.1	-65.1 to -68.1	-70.1 to -73.1	-75.1 to -78.1	-80.1 to -83.1
<i>elev_NGVD</i>		-61.4 to -64.4	-66.4 to -69.4	-71.4 to -74.4	-76.4 to -79.4	-81.4 to -84.4	-86.4 to -89.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	12400	36800	40800	28600	24200	26700
Dissolved oxygen (DO), field	µg/L	1040	3510	9840	0	1480	1090
Oxidation reduction potential (ORP), field	millivolts	-137	-98	-70	-69	-70	-60
pH, field	s.u.	7-8.5	7.87	7.73	7.62	7.14	7.35
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	8.2	9.7	9.0	8.1	7.0	6.5
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-26	5106-26	5106-27	5106-27	5106-27	5106-27
<i>Sample ID:</i>		GW-021606-5106-26-019	GW-021606-5106-26-020	GW-041006-5106-27-001	GW-041006-5106-27-002	GW-041006-5106-27-003	GW-041106-5106-27-004
<i>Sample Date:</i>		2/16/2006	2/16/2006	4/10/2006	4/10/2006	4/10/2006	4/11/2006
<i>Sample Depth:</i>		87 to 90 ft bml	92 to 95 ft bml	0 to 4 ft bml	5 to 9 ft bml	10 to 14 ft bml	15 to 19 ft bml
<i>elev_MLLW</i>		-85.1 to -88.1	-90.1 to -93.1	-0.4 to -4.4	-5.4 to -9.4	-10.4 to -14.4	-15.4 to -19.4
<i>elev_NGVD</i>		-91.4 to -94.4	-96.4 to -99.4	-6.7 to -10.7	-11.7 to -15.7	-16.7 to -20.7	-21.7 to -25.7
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	2890	249	1100	2120	2100	2210
Dissolved oxygen (DO), field	µg/L	1940	4460	5520	4990	4600	5470
Oxidation reduction potential (ORP), field	millivolts	-76	39	-104	-229	-234	-268
pH, field	s.u.	7-8.5	7.41	7.52	6.86	8.09	7.97
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	7.2	6.9	11.10	10.90	10.50	10.40
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	-	122.0	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-27	5106-27	5106-27	5106-27	5106-27	5106-27
<i>Sample ID:</i>			GW-041106-5106-27-005	GW-041106-5106-27-006	GW-041106-5106-27-007	GW-041106-5106-27-008	GW-041106-5106-27-009	GW-041206-5106-27-010
<i>Sample Date:</i>			4/11/2006	4/11/2006	4/11/2006	4/11/2006	4/11/2006	4/12/2006
<i>Sample Depth:</i>			19 to 23 ft bml	30 to 34 ft bml	39 to 43 ft bml	49 to 53 ft bml	49 to 53 ft bml	59 to 63 ft bml
<i>elev_MLLW</i>			-19.4 to -23.4	-30.4 to -34.4	-39.4 to -43.4	-49.4 to -53.4	-49.4 to -53.4	-59.4 to -63.4
<i>elev_NGVD</i>			-25.7 to -29.7	-36.7 to -40.7	-45.7 to -49.7	-55.7 to -59.7	-55.7 to -59.7	-65.7 to -69.7
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					(Duplicate)	
<i>Fparam</i>								
Conductivity, field	umhos/cm		3480	11700	28500	33100	33100	260
Dissolved oxygen (DO), field	µg/L		5680	5710	6520	8500	8500	4870
Oxidation reduction potential (ORP), field	millivolts		-286	-212	-208	-163	-163	-225
pH, field	s.u.	7-8.5	8.46	7.78	7.64	8.04	8.04	8.25
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		11.20	11.40	11.50	11.00	11.00	11.30
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		-	0	-	572	572	0

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-27	5106-27	5106-28	5106-28	5106-28	5106-28
<i>Sample ID:</i>		GW-041206-5106-27-011	GW-041206-5106-27-012	GW-042006-5106-28-001	GW-042006-5106-28-002	GW-042006-5106-28-003	GW-042006-5106-28-004
<i>Sample Date:</i>		4/12/2006	4/12/2006	4/20/2006	4/20/2006	4/20/2006	4/20/2006
<i>Sample Depth:</i>		69 to 73 ft bml	79 to 83 ft bml	9 to 13 ft bml	19 to 23 ft bml	29 to 33 ft bml	44 to 48 ft bml
<i>elev_MLLW</i>		-69.4 to -73.4	-79.4 to -83.4	-7.58 to -11.58	-17.58 to -21.58	-27.58 to -31.58	-42.58 to -46.58
<i>elev_NGVD</i>		-75.7 to -79.7	-85.7 to -89.7	-13.9 to -17.9	-23.9 to -27.9	-33.9 to -37.9	-48.9 to -52.9
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	361	8760	475	2360	3170	197
Dissolved oxygen (DO), field	µg/L	6420	4620	3370	5900	0	10360
Oxidation reduction potential (ORP), field	millivolts	0	-219	117	47	-125	-82
pH, field	s.u.	7-8.5	7.56	8.06	6.27	6.33	6.68
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	11.20	10.50	11.58	11.67	12.05	11.73
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	-	-	221	999	999	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-29	5106-29	5106-29	5106-29	5106-29	5106-29
Sample ID:	GW-042106-5106-29-001	GW-042106-5106-29-002	GW-042106-5106-29-003	GW-042106-5106-29-004	GW-042406-5106-29-005	GW-042406-5106-29-006
Sample Date:	4/21/2006	4/21/2006	4/21/2006	4/21/2006	4/24/2006	4/24/2006
Sample Depth:	0 to 4 ft bml	9 to 13 ft bml	19 to 23 ft bml	19 to 23 ft bml	29 to 33 ft bml	39 to 43 ft bml
elev_MLLW	1.65 to -2.35	-7.35 to -11.35	-17.35 to -21.35	-17.35 to -21.35	-27.35 to -31.35	-37.35 to -41.35
elev_NGVD	-4.7 to -8.7	-13.7 to -17.7	-23.7 to -27.7	-23.7 to -27.7	-33.7 to -37.7	-43.7 to -47.7
Parameters	Units	CSI	WG	(Duplicate)		
<i>Fparam</i>						
Conductivity, field	umhos/cm					
Dissolved oxygen (DO), field	µg/L					
Oxidation reduction potential (ORP), field	millivolts					
pH, field	s.u.	7-8.5				
Specific Gravity~FIELDPARAM	sg					
Temperature, field	deg c					
Temperature, field	deg f					
Turbidity, field	ntu					

6.74	6.82
------	------

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-29	5106-30	5106-30	5106-30	5106-30	5106-30	
<i>Sample ID:</i>		GW-042406-5106-29-007	GW-042606-5106-30-009	GW-042506-5106-30-001	GW-042506-5106-30-002	GW-042506-5106-30-003	GW-042506-5106-30-004	
<i>Sample Date:</i>		4/24/2006	4/26/2006	4/25/2006	4/25/2006	4/25/2006	4/25/2006	
<i>Sample Depth:</i>		49 to 53 ft bml	1 to 5 ft bml	9 to 13 ft bml	19 to 23 ft bml	29 to 33 ft bml	39 to 43 ft bml	
<i>elev_MLLW</i>		-47.35 to -51.35	5.92 to 1.92	-2.08 to -6.08	-12.08 to -16.08	-22.08 to -26.08	-32.08 to -36.08	
<i>elev_NGVD</i>		-53.7 to -57.7	-0.4 to -4.4	-8.4 to -12.4	-18.4 to -22.4	-28.4 to -32.4	-38.4 to -42.4	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>				
<i>Fparam</i>								
Conductivity, field	umhos/cm	2200	28900	23300	286	289	271	
Dissolved oxygen (DO), field	µg/L	2440	2050	> 19.99	0	18230	19990	
Oxidation reduction potential (ORP), field	millivolts	-102	-111	-36	-217	43	45	
pH, field	s.u.	7-8.5	7.01	6.78	5.98	7.93	6.52	6.4
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	12.36	11.5	10.86	11.6	12.09	12.38	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	> 999	-	> 999	> 999	> 999	> 999	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	5106-30	5106-30	5106-30	5106-30	5106-31	5106-31			
Sample ID:	GW-042506-5106-30-005	GW-042506-5106-30-006	GW-042606-5106-30-008	GW-042606-5106-30-007	GW-042806-5106-31-001	GW-042806-5106-31-002			
Sample Date:	4/25/2006	4/25/2006	4/26/2006	4/26/2006	4/28/2006	4/28/2006			
Sample Depth:	49 to 53 ft bml	49 to 53 ft bml	59 to 63 ft bml	69 to 73 ft bml	1 to 5 ft bml	9 to 13 ft bml			
elev_MLLW	-42.08 to -46.08	-42.08 to -46.08	-52.08 to -56.08	-62.08 to -66.08	2.1 to -1.9	-5.9 to -9.9			
elev_NGVD	-48.4 to -52.4	-48.4 to -52.4	-58.4 to -62.4	-68.4 to -72.4	-4.2 to -8.2	-12.2 to -16.2			
Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			621	621	2100	261	257	238
Dissolved oxygen (DO), field	µg/L			17060	17060	100	3680	2670	5040
Oxidation reduction potential (ORP), field	millivolts			-30	-30	-316	-34	100	104
pH, field	s.u.	7-8.5		6.4	6.4	7.19	6.73	6.94	6.9
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			13.51	13.51	11.9	11.4	12.2	12.5
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			-	-	668	-	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			5106-31	5106-31	5106-31	5106-31	5106-31
<i>Sample ID:</i>			GW-042806-5106-31-003	GW-042806-5106-31-004	GW-042906-5106-31-BS-005	GW-042906-5106-31-BS-006	GW-042906-5106-31-BS-007
<i>Sample Date:</i>			4/28/2006	4/28/2006	4/29/2006	4/29/2006	4/29/2006
<i>Sample Depth:</i>			19 to 23 ft bml	29 to 33 ft bml	39 to 43 ft bml	39 to 43 ft bml	49 to 53 ft bml
<i>elev_MLLW</i>			-15.9 to -19.9	-25.9 to -29.9	-35.9 to -39.9	-35.9 to -39.9	-45.9 to -49.9
<i>elev_NGVD</i>			-22.2 to -26.2	-32.2 to -36.2	-42.2 to -46.2	-42.2 to -46.2	-52.2 to -56.2
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				(Duplicate)	
<i>Fparam</i>							
Conductivity, field	umhos/cm		244	2260	1300	1300	265
Dissolved oxygen (DO), field	µg/L		4950	3710	5510	5510	3000
Oxidation reduction potential (ORP), field	millivolts		52	-14	-65	-65	-35
pH, field	s.u.	7-8.5	6.91	7.03	7	7	7.02
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		13	12.8	11.2	11.2	11.6
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		-	667	-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>5106-31</i>	<i>5106-32</i>	<i>5106-32</i>	<i>5106-32</i>	<i>5106-32</i>
<i>Sample ID:</i>	<i>GW-042906-5106-31-BS-008</i>	<i>GW-050306-5106-32-BS-001</i>	<i>GW-050306-5106-32-BS-002</i>	<i>GW-050306-5106-32-BS-003</i>	<i>GW-050406-5106-32-BS-004</i>
<i>Sample Date:</i>	<i>4/29/2006</i>	<i>5/3/2006</i>	<i>5/3/2006</i>	<i>5/3/2006</i>	<i>5/4/2006</i>
<i>Sample Depth:</i>	<i>59 to 63 ft bml</i>	<i>1 to 5 ft bml</i>	<i>9 to 13 ft bml</i>	<i>19 to 23 ft bml</i>	<i>29 to 33 ft bml</i>
<i>elev_MLLW</i>	<i>-55.9 to -59.9</i>	<i>-15.5 to -19.5</i>	<i>-23.5 to -27.5</i>	<i>-33.5 to -37.5</i>	<i>-43.5 to -47.5</i>
<i>elev_NGVD</i>	<i>-62.2 to -66.2</i>	<i>-21.8 to -25.8</i>	<i>-29.8 to -33.8</i>	<i>-39.8 to -43.8</i>	<i>-49.8 to -53.8</i>

<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		336	31900	384	970	12000
Dissolved oxygen (DO), field	µg/L		0	5420	0	0	0
Oxidation reduction potential (ORP), field	millivolts		-189	-178	-238	-267	-268
pH, field	s.u.	7-8.5	7.27	8.05	7.95	8.25	7.97
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		11.3	11.9	12.3	12.1	14.4
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		5106-32	5106-32	709-MW1-15	709-MW2-15	709-MW3-15	709-MW4-15	
<i>Sample ID:</i>		GW-050406-5106-32-BS-005	GW-050406-5106-32-BS-006	MW-1-0304	WG-072112-DJT-709-MW2-15-226	MW-3-0304	WG-072212-DJT-709-MW4-15-227	
<i>Sample Date:</i>		5/4/2006	5/4/2006	3/9/2004	7/21/2012	3/9/2004	7/22/2012	
<i>Sample Depth:</i>		39 to 43 ft bml	49 to 53 ft bml	15 ft bgs	15 ft BGS	15 ft bgs	15 ft BGS	
<i>elev_MLLW</i>		-53.5 to -57.5	-63.5 to -67.5	2.99	3.76	2.92	2.92	
<i>elev_NGVD</i>		-59.8 to -63.8	-69.8 to -73.8	-3.3	-2.6	-3.4	-3.4	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>				
<i>Fparam</i>								
Conductivity, field	umhos/cm	292	478	-	3050	-	347	
Dissolved oxygen (DO), field	µg/L	0	0	-	0	-	0	
Oxidation reduction potential (ORP), field	millivolts	-4	-22	-	-13	-	162	
pH, field	s.u.	7-8.5	7.82	7.7	9.62	11.67	12.15	5.91
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	12.3	11.2	-	15.7	-	15.2	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	960	-	-	0	-	0	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		709-MW5-15	709-MW6-15	709-MW6-25	709-MW6-50
<i>Sample ID:</i>		WG-072212-DJT-709-MW5-15-228	WG-080912-LP-709-MW6-15-229	WG-080912-LP-709-MW6-25-229	WG-080912-LP-709-MW6-50-229
<i>Sample Date:</i>		7/22/2012	8/9/2012	8/9/2012	8/9/2012
<i>Sample Depth:</i>		15 ft BGS	15 ft BGS	25 ft BGS	50 ft BGS
<i>elev_MLLW</i>		2.92	2.92	-6.82	-31.89
<i>elev_NGVD</i>		-3.4	-3.4	-13.1	-38.2
Parameters	Units	CSI	WG		
Fparam					
Conductivity, field	umhos/cm	31500	526	30900	6840
Dissolved oxygen (DO), field	µg/L	6690	780	0	0
Oxidation reduction potential (ORP), field	millivolts	131	-122	-439	-258
pH, field	s.u.	7-8.5	7.12	9.46	12.42
Specific Gravity~FIELDPARAM	sg	-	-	-	-
Temperature, field	deg c	16.8	16.2	19.02	19.85
Temperature, field	deg f	-	-	-	-
Turbidity, field	ntu	0	0	4.5	241

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>709-MW7-15</i>		<i>709-MW8-15</i>		<i>709-MW9-15</i>		<i>709-MW9-25</i>	
<i>Sample ID:</i>	<i>WG-072812-PR-709-MW7-15-232</i>		<i>WG-080912-AMK-709-MW8-15-233</i>		<i>WG-081412-AMK-709-MW9-15-234</i>		<i>WG-081412-AMK-709-MW9-25-235</i>	
<i>Sample Date:</i>	<i>7/28/2012</i>		<i>8/9/2012</i>		<i>8/14/2012</i>		<i>8/14/2012</i>	
<i>Sample Depth:</i>	<i>15 ft BGS</i>		<i>15 ft BGS</i>		<i>15 ft BGS</i>		<i>25 ft BGS</i>	
<i>elev_MLLW</i>	<i>2.87</i>		<i>2.92</i>		<i>2.92</i>		<i>-6.92</i>	
<i>elev_NGVD</i>	<i>-3.4</i>		<i>-3.4</i>		<i>-3.4</i>		<i>-13.2</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>				
<i>Fparam</i>								
Conductivity, field	umhos/cm	208	2180	643	1650			
Dissolved oxygen (DO), field	µg/L	0	0	1380	170			
Oxidation reduction potential (ORP), field	millivolts	-209	12	-186	-160			
pH, field	s.u.	7-8.5	8.19	11.25	5.9			7.93
Specific Gravity~FIELDPARAM	sg	-	-	-	-			-
Temperature, field	deg c	16.74	18.9	17	17.9			
Temperature, field	deg f	-	-	-	-			-
Turbidity, field	ntu	0	0	122	129			

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	709-MW11-15	709-MW11-25	709-MW13-15	709-MW14-15	709-MW15-15	709-MW15A-25
Sample ID:	WG-072912-ALK-709-MW11-15-236	WG-072912-ALK-709-MW11-25	MW-13-0304	MW-14-0304	WG-081512-TS-709MW15-15-238	MW-15A-0304
Sample Date:	7/29/2012	7/29/2012	3/10/2004	3/10/2004	8/15/2012	3/10/2004
Sample Depth:	15 ft BGS	25 ft BGS	13 ft bgs	14 ft bgs	15 ft bgs	30 ft bgs
elev_MLLW	2.92	-8.16	2.82	3.92	2.85	-12.23
elev_NGVD	-3.4	-14.5	-3.5	-2.4	-3.5	-18.6

Parameters	Units	CSI	WG					
Fparam								
Conductivity, field	umhos/cm		314	730	-	-	515	-
Dissolved oxygen (DO), field	µg/L		0	0	-	-	0	-
Oxidation reduction potential (ORP), field	millivolts		-260	-168	-	-	-270	-
pH, field	s.u.	7-8.5	6.17	7.45	6.6	6.74	8.98	8.52
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		14.87	14.91	-	-	15.8	-
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		34.8	68.3	-	-	54.3	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			709-MW15A-50	709-MW16-15	709-MW16-25	709-MW16-50
<i>Sample ID:</i>			WG-081412-JN-709-MW15A-50-240	WG-072712-ALK-709-MW16-15-241	WG-072712-ALK-709-MW16-25-242	WG-072812-ALK-709-MW16-50-243
<i>Sample Date:</i>			8/14/2012	7/27/2012	7/27/2012	7/28/2012
<i>Sample Depth:</i>			50 ft BGS	15 ft bgs	25 ft BGS	50 ft BGS
<i>elev_MLLW</i>			-32.24	2.92	-7.47	-32.6
<i>elev_NGVD</i>			-38.6	-3.4	-13.8	-38.9
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Fparam</i>						
Conductivity, field	umhos/cm		24800	355	608	1330
Dissolved oxygen (DO), field	µg/L		0	0	0	9050
Oxidation reduction potential (ORP), field	millivolts		-239	-139	-206	16
pH, field	s.u.	7-8.5	8.44	6.55	8.53	11.54
Specific Gravity~FIELDPARAM	sg		-	-	-	-
Temperature, field	deg c		19.6	15.09	15.88	15.43
Temperature, field	deg f		-	-	-	-
Turbidity, field	ntu		19.8	14	161	4.5

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>709-MW16-75</i>	<i>709-MW17-15</i>	<i>709-MW18-15</i>	<i>709-MW18-25</i>
<i>Sample ID:</i>		<i>WG-072812-ALK-709-MW16-75-244</i>	<i>WG-072112-DJT-709-MW17-15-245</i>	<i>WG-072612-PR-709-MW18-15-246</i>	<i>WG-072612-PR-709-MW18-25-247</i>
<i>Sample Date:</i>		<i>7/28/2012</i>	<i>7/21/2012</i>	<i>7/26/2012</i>	<i>7/26/2012</i>
<i>Sample Depth:</i>		<i>75 ft BGS</i>	<i>15 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft BGS</i>
<i>elev_MLLW</i>		<i>-57.62</i>	<i>2.92</i>	<i>2.92</i>	<i>-7.28</i>
<i>elev_NGVD</i>		<i>-63.9</i>	<i>-3.4</i>	<i>-3.4</i>	<i>-13.6</i>
Parameters	Units	CSI	WG		
Fparam					
Conductivity, field	umhos/cm	2660	796	475	-
Dissolved oxygen (DO), field	µg/L	9020	0	240	-
Oxidation reduction potential (ORP), field	millivolts	-79	-85	98	-
pH, field	s.u.	7-8.5	12.03	7.36	9.25
Specific Gravity~FIELDPARAM	sg	-	-	-	-
Temperature, field	deg c	15.88	17.3	13.8	-
Temperature, field	deg f	-	-	-	-
Turbidity, field	ntu	1.5	0	0.2	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>709-MW18-50</i>	<i>709-MW19-15</i>	<i>709-MW20-15</i>	<i>709-MW20-25</i>
<i>Sample ID:</i>		<i>WG-072612-PR-709-MW18-50-248</i>	<i>WG-072812-PR-709-MW19-15-249</i>	<i>WG-082112-JN-709-MW20-15-223</i>	<i>WG-082312-JN-709-MW20-25-224</i>
<i>Sample Date:</i>		<i>7/26/2012</i>	<i>7/28/2012</i>	<i>8/21/2012</i>	<i>8/23/2012</i>
<i>Sample Depth:</i>		<i>50 ft BGS</i>	<i>15 ft bgs</i>	<i>15 ft BGS</i>	<i>25 ft BGS</i>
<i>elev_MLLW</i>		<i>-32.13</i>	<i>2.71</i>	<i>4.68</i>	<i>-5.15</i>
<i>elev_NGVD</i>		<i>-38.4</i>	<i>-3.6</i>	<i>-1.6</i>	<i>-11.5</i>
Parameters	Units	CSI WG			
Fparam					
Conductivity, field	umhos/cm	637	617	7770	3100
Dissolved oxygen (DO), field	µg/L	180	1270	1300	560
Oxidation reduction potential (ORP), field	millivolts	-132	25	87	-81
pH, field	s.u.	7-8.5	9.25	8.94	7.52
Specific Gravity~FIELDPARAM	sg	-	-	-	-
Temperature, field	deg c	16.3	18.2	18.3	14.4
Temperature, field	deg f	-	-	-	-
Turbidity, field	ntu	74.1	0	-10	34.4

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>709-MW20-50</i>	<i>709-MW20-75</i>	<i>709-MW21-15</i>	<i>709-MW21-25</i>
<i>Sample ID:</i>			<i>WG-082112-JN-709-MW20-50-225</i>	<i>WG-082212-JN-709-MW20-75-250</i>	<i>WG-072712-PR-709-MW21-15-251</i>	<i>WG-072712-PR-709-MW21-25-252</i>
<i>Sample Date:</i>			<i>8/21/2012</i>	<i>8/22/2012</i>	<i>7/27/2012</i>	<i>7/27/2012</i>
<i>Sample Depth:</i>			<i>50 ft BGS</i>	<i>75 ft BGS</i>	<i>15 ft BGS</i>	<i>25 ft BGS</i>
<i>elev_MLLW</i>			<i>-30.47</i>	<i>-55.36</i>	<i>3.07</i>	<i>-7</i>
<i>elev_NGVD</i>			<i>-36.8</i>	<i>-61.7</i>	<i>-3.2</i>	<i>-13.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Fparam</i>						
Conductivity, field	umhos/cm		5190	40300	637	772
Dissolved oxygen (DO), field	µg/L		190	0	0	0
Oxidation reduction potential (ORP), field	millivolts		-128	-210	-155	-62
pH, field	s.u.	7-8.5	7.97	7.75	6.2	7.93
Specific Gravity~FIELDPARAM	sg		-	-	-	-
Temperature, field	deg c		19.9	19.5	17.31	17.23
Temperature, field	deg f		-	-	-	-
Turbidity, field	ntu		608	0	0.8	54.3

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>709-MW21-50</i>	<i>721-MW5-15</i>	<i>721-MW5-25</i>	<i>721-MW5-50</i>
<i>Sample ID:</i>			<i>WG-072712-PR-709-MW21-50-253</i>	<i>WG-082512-ALK-721-MW5-15-254</i>	<i>WG-082512-ALK-721-MW5-25-255</i>	<i>WG-082512-JN-721-MW5-50-256</i>
<i>Sample Date:</i>			<i>7/27/2012</i>	<i>8/25/2012</i>	<i>8/25/2012</i>	<i>8/25/2012</i>
<i>Sample Depth:</i>			<i>50 ft BGS</i>	<i>15 ft BGS</i>	<i>25 ft BGS</i>	<i>50 ft BGS</i>
<i>elev_MLLW</i>			<i>-32.02</i>	<i>2.8</i>	<i>-7.21</i>	<i>-32.29</i>
<i>elev_NGVD</i>			<i>-38.3</i>	<i>-3.5</i>	<i>-13.5</i>	<i>-38.6</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Fparam</i>						
Conductivity, field	umhos/cm		2090	1930	14000	14900
Dissolved oxygen (DO), field	µg/L		0	800	1360	660
Oxidation reduction potential (ORP), field	millivolts		-164	-189	-384	-137
pH, field	s.u.	7-8.5	8.34	7.52	10.77	8.15
Specific Gravity~FIELDPARAM	sg		-	-	-	-
Temperature, field	deg c		17.72	18.32	16.49	16.5
Temperature, field	deg f		-	-	-	-
Turbidity, field	ntu		707	4.2	158	52.3

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		721-MW5-75	721-MW6-15	721-MW6-25	721-MW6-50	
<i>Sample ID:</i>		WG-082512-JN-721-MW5-75-257	WG-072512-DJT-721-MW6-15-258	WG-072512-DJT-721-MW6-25-259	WG-072512-DJT-721-MW6-50-260	
<i>Sample Date:</i>		8/25/2012	7/25/2012	7/25/2012	7/25/2012	
<i>Sample Depth:</i>		75 ft BGS	15 ft BGS	25 ft BGS	50 ft BGS	
<i>elev_MLLW</i>		-57.27	2.62	-7.41	-32.5	
<i>elev_NGVD</i>		-63.6	-3.7	-13.7	-38.8	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm		39900	980	1940	12600
Dissolved oxygen (DO), field	µg/L		530	690	0	80
Oxidation reduction potential (ORP), field	millivolts		-182	-156	-185	-303
pH, field	s.u.	7-8.5	7.77	6.74	7.79	8.55
Specific Gravity~FIELDPARAM	sg		-	-	-	-
Temperature, field	deg c		16.7	19.4	16.14	16.9
Temperature, field	deg f		-	-	-	-
Turbidity, field	ntu		274	0	30.4	0

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		721-MW7-15	721-MW8-15	721-MW9-15	721-MW9-25	721-MW9-50
<i>Sample ID:</i>		WG-080912-TRH-721-MW7-15-261	GW-721-8-15	WG-072212-DJT-721-MW9-15-262	WG-072212-DJT-721-MW9-25-263	WG-072212-DJT-721-MW9-50-264
<i>Sample Date:</i>		8/9/2012	7/20/2004	7/22/2012	7/22/2012	7/22/2012
<i>Sample Depth:</i>		15 ft BGS	15 ft bgs	15 ft BGS	25 ft BGS	50 ft BGS
<i>elev_MLLW</i>		2.51	2.34	2.69	-7.28	-32.28
<i>elev_NGVD</i>		-3.8	-4	-3.6	-13.6	-38.6
Parameters	Units	CSI		WG		
Fparam						
Conductivity, field	umhos/cm	763	-	514	8150	15500
Dissolved oxygen (DO), field	µg/L	0	-	150	0	0
Oxidation reduction potential (ORP), field	millivolts	-188	-	-96	-229	-139
pH, field	s.u.	7-8.5	9.44	7.47	7.21	10.01
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	17.89	-	16.3	15.3	15.8
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	31.5	-	0	53.8	229

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	721-MW10-15		721-MW10-25		721-MW10-50		721-MW10-75	
<i>Sample ID:</i>	WG-080812-TRH-721-MW10-15-265		WG-080712-TRH-721-MW10-25-266		WG-080612-TRH-721-MW10-50-267		WG-080712-TRH-721-MW10-75-268	
<i>Sample Date:</i>	8/8/2012		8/7/2012		8/6/2012		8/7/2012	
<i>Sample Depth:</i>	15 ft BGS		25 ft BGS		50 ft BGS		75 ft BGS	
<i>elev_MLLW</i>	1.95		-7.98		-33.02		-57.9	
<i>elev_NGVD</i>	-4.4		-14.3		-39.3		-64.2	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm		17400	1680	24900	35300		
Dissolved oxygen (DO), field	µg/L		0	1180	3480	5110		
Oxidation reduction potential (ORP), field	millivolts		-187	-159	-155	18		
pH, field	s.u.	7-8.5	6.73	8.38	8.25	7.96		
Specific Gravity~FIELDPARAM	sg		-	-	-	-		
Temperature, field	deg c		18.33	16.62	19.58	20.05		
Temperature, field	deg f		-	-	-	-		
Turbidity, field	ntu		0	173	15.8	219		

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>721-MW11-15</i>	<i>721-MW11-25</i>	<i>721-MW11-50</i>	<i>721-MW11-75</i>
<i>Sample ID:</i>			<i>WG-073112-PR-721-MW11-15-269</i>	<i>WG-073112-PR-721-MW11-25-270</i>	<i>WG-080112-PR-721-MW11-50-271</i>	<i>WG-073112-PR-721-MW11-75-272</i>
<i>Sample Date:</i>			<i>7/31/2012</i>	<i>7/31/2012</i>	<i>8/1/2012</i>	<i>7/31/2012</i>
<i>Sample Depth:</i>			<i>15 ft BGS</i>	<i>25 ft BGS</i>	<i>50 ft BGS</i>	<i>75 ft BGS</i>
<i>elev_MLLW</i>			<i>2.7</i>	<i>-7.31</i>	<i>-32.32</i>	<i>-57.32</i>
<i>elev_NGVD</i>			<i>-3.6</i>	<i>-13.6</i>	<i>-38.6</i>	<i>-63.6</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Fparam</i>						
Conductivity, field	umhos/cm		1830	2750	10200	37800
Dissolved oxygen (DO), field	µg/L		460	450	1990	180
Oxidation reduction potential (ORP), field	millivolts		-164	-166	-257	-202
pH, field	s.u.	7-8.5	6.65	7.33	8.34	7.64
Specific Gravity~FIELDPARAM	sg		-	-	-	-
Temperature, field	deg c		19.53	19.99	19.29	20.94
Temperature, field	deg f		-	-	-	-
Turbidity, field	ntu		252	204	381	698

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	721-MW12-15	721-MW12-25	721-MW12-50	721-MW13-15
<i>Sample ID:</i>	WG-073012-ALK-721-MW12-15-273	WG-073012-ALK-721-MW12-25-274	WG-073012-ALK-721-MW12-50-275	WG-073112-AK-721-MW13-15-276
<i>Sample Date:</i>	7/30/2012	7/30/2012	7/30/2012	7/31/2012
<i>Sample Depth:</i>	15 ft BGS	25 ft BGS	50 ft BGS	15 ft BGS
<i>elev_MLLW</i>	2.39	-7.66	-32.66	2.38
<i>elev_NGVD</i>	-3.9	-14	-39	-3.9

<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Fparam</i>						
Conductivity, field	umhos/cm		539	760	383	253
Dissolved oxygen (DO), field	µg/L		0	0	6770	0
Oxidation reduction potential (ORP), field	millivolts		-123	-138	-49	-60
pH, field	s.u.	7-8.5	6.76	7.18	12.05	6.39
Specific Gravity~FIELDPARAM	sg		-	-	-	-
Temperature, field	deg c		17.7	16.4	16.63	17.66
Temperature, field	deg f		-	-	-	-
Turbidity, field	ntu		17.1	17.7	0	19

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>721-MW14-50</i>	<i>721-MW15-15</i>	<i>721-MW15-25</i>	<i>721-MW15-50</i>
<i>Sample ID:</i>		<i>WG-080912-TRH-721-MW14-50-281</i>	<i>WG-073012-PR-721-MW15-15-282</i>	<i>WG-073012-PR-721-MW15-25-283</i>	<i>WG-073012-PR-721-MW15-50-284</i>
<i>Sample Date:</i>		<i>8/9/2012</i>	<i>7/30/2012</i>	<i>7/30/2012</i>	<i>7/30/2012</i>
<i>Sample Depth:</i>		<i>50 ft BGS</i>	<i>15 ft BGS</i>	<i>25 ft BGS</i>	<i>50 ft BGS</i>
<i>elev_MLLW</i>		<i>-32.38</i>	<i>2.52</i>	<i>-7.45</i>	<i>-32.38</i>
<i>elev_NGVD</i>		<i>-38.7</i>	<i>-3.8</i>	<i>-13.8</i>	<i>-38.7</i>
Parameters	Units	CSI WG			
Fparam					
Conductivity, field	umhos/cm	2390	1090	789	1430
Dissolved oxygen (DO), field	µg/L	0	3820	840	0
Oxidation reduction potential (ORP), field	millivolts	-157	-113	-118	-297
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7-8.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-
Temperature, field	deg c	18.1	18.91	17.33	18.14
Temperature, field	deg f	-	-	-	-
Turbidity, field	ntu	103	0	80.7	28.8

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			721-GP1	721-GP1	721-GP2	721-GP2	721-GP2	721-GP3	721-GP3	721-GP3
<i>Sample ID:</i>			GW-721-GP1-015	GW-721-GP1-050	GW-721-GP2-015	GW-721-GP2-025	GW-721-GP2-050	GW-721-GP3-015	GW-721-GP3-025	GW-721-GP3-050
<i>Sample Date:</i>			6/22/2004	6/22/2004	6/21/2004	6/21/2004	6/21/2004	6/22/2004	6/22/2004	6/22/2004
<i>Sample Depth:</i>			15 ft bgs	50 ft bgs	15 ft bgs	25 ft bgs	50 ft bgs	15 ft bgs	25 ft bgs	50 ft bgs
<i>elev_MLLW</i>			2.92	-32.08	2.92	-7.08	-32.08	2.92	-7.08	-32.08
<i>elev_NGVD</i>			-3.4	-38.4	-3.4	-13.4	-38.4	-3.4	-13.4	-38.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>								
<i>Fparam</i>										
Conductivity, field	umhos/cm		6.72	4.51	3.25	0.685	9	0.526	0.558	3.49
Dissolved oxygen (DO), field	µg/L		-	-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts		-	-	-	-	-	-	-	-
pH, field	s.u.	7-8.5	7.8	8.36	6.71	8.36	8.03	6.7	8.22	8.36
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-	-	-
Temperature, field	deg c		16.6	19.1	17	31.3	16.6	15.9	19.1	15.9
Temperature, field	deg f		-	-	-	-	-	-	-	-
Turbidity, field	ntu		-	-	-	-	-	-	-	-

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>721-GP4</i>	<i>721-GP4</i>	<i>721-GP4</i>	<i>721-GP5</i>	<i>721-GP5</i>	<i>721-GP5</i>	<i>721-GP6</i>	<i>721-GP6</i>	
<i>Sample ID:</i>		<i>GW-721-GP4-015</i>	<i>GW-721-GP4-025</i>	<i>GW-721-GP4-050</i>	<i>GW-721-GP5-015</i>	<i>GW-721-GP5-025</i>	<i>GW-721-GP5-050</i>	<i>GW-721-GP6-015</i>	<i>GW-721-GP6-025</i>	
<i>Sample Date:</i>		<i>6/29/2004</i>	<i>6/29/2004</i>	<i>6/29/2004</i>	<i>6/23/2004</i>	<i>6/23/2004</i>	<i>6/23/2004</i>	<i>6/28/2004</i>	<i>6/28/2004</i>	
<i>Sample Depth:</i>		<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	
<i>elev_MLLW</i>		<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>	<i>2.92</i>	<i>-7.08</i>	
<i>elev_NGVD</i>		<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-3.4</i>	<i>-13.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>						
<i>Fparam</i>										
Conductivity, field	umhos/cm	5.87	1.12	9	4.52	7.46	14.3	10.3	2.28	
Dissolved oxygen (DO), field	µg/L	-	-	-	-	-	-	-	-	
Oxidation reduction potential (ORP), field	millivolts	-	-	-	-	-	-	-	-	
pH, field	s.u.	7-8.5	8.21	7.73	8.11	9.28	9.43	8.05	10.01	7.81
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-	
Temperature, field	deg c	17.4	17.1	18	17.6	15.3	16.4	17	17	
Temperature, field	deg f	-	-	-	-	-	-	-	-	
Turbidity, field	ntu	-	-	-	-	-	-	-	-	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			721-GP6	721-GP7	721-GP7	721-GP7	721-GP8	721-GP8	721-GP8	721-GP9
<i>Sample ID:</i>			GW-721-GP6-050	GW-721-GP7-015	GW-721-GP7-025	GW-721-GP7-050	GW-721-GP8-015	GW-721-GP8-025	GW-721-GP8-050	GW-721-GP9-015
<i>Sample Date:</i>			6/28/2004	6/28/2004	6/28/2004	6/28/2004	6/24/2004	6/24/2004	6/24/2004	6/24/2004
<i>Sample Depth:</i>			50 ft bgs	15 ft bgs	25 ft bgs	50 ft bgs	15 ft bgs	25 ft bgs	50 ft bgs	15 ft bgs
<i>elev_MLLW</i>			-32.08	2.92	-7.08	-32.08	2.92	-7.08	-32.08	2.92
<i>elev_NGVD</i>			-38.4	-3.4	-13.4	-38.4	-3.4	-13.4	-38.4	-3.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>								
<i>Fparam</i>										
Conductivity, field	umhos/cm		9	5.84	0.594	9	10	3.03	14.5	2.85
Dissolved oxygen (DO), field	µg/L		-	-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts		-	-	-	-	-	-	-	-
pH, field	s.u.	7-8.5	7.95	8.69	7.8	8.15	9.83	8.3	8.18	8.93
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-	-	-
Temperature, field	deg c		17.9	17.4	17.2	17.1	13.9	14.4	14.7	16.2
Temperature, field	deg f		-	-	-	-	-	-	-	-
Turbidity, field	ntu		-	-	-	-	-	-	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		721-GP9	721-GP9	721-PZ-1	721-PZ-2	721-PZ-3	A-1	A-2	A-2A
<i>Sample ID:</i>		GW-721-GP9-025	GW-721-GP9-050	PZ1-0604-OUT	PZ2-0604-OUT	PZ3-0604-OUT	GW-052306-LH-A1	GW-052306-LH-A2	GW-052306-LH-A2A
<i>Sample Date:</i>		6/24/2004	6/24/2004	6/4/2004	6/4/2004	6/4/2004	5/23/2006	5/23/2006	5/23/2006
<i>Sample Depth:</i>		25 ft bgs	50 ft bgs	1 to 2 ft bml	1 to 2 ft bml	1 to 2 ft bml	68.3 ft bgs	68.5 ft bgs	132.75 ft bgs
<i>elev_MLLW</i>		-7.08	-32.08	-4.98 to -5.98	-4.98 to -5.98	-4.98 to -5.98	-50.58	-49.68	-114.13
<i>elev_NGVD</i>		-13.4	-38.4	-11.3 to -12.3	-11.3 to -12.3	-11.3 to -12.3	-56.9	-56	-120.4
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>					
<i>Fparam</i>									
Conductivity, field	umhos/cm	1.48	10.6	19.4	17.9	13.6	3840	26600	49800
Dissolved oxygen (DO), field	µg/L	-	-	-	-	-	3390	4850	4340
Oxidation reduction potential (ORP), field	millivolts	-	-	-	-	-	-120	55	38
pH, field	s.u.	7-8.5	8.16	7.83	8.26	8.92	7.56	8.25	7.85
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-
Temperature, field	deg c	15.7	15.8	14	12.5	14.4	14.48	15.55	14.41
Temperature, field	deg f	-	-	-	-	-	-	-	-
Turbidity, field	ntu	-	-	-	-	-	36.50	16.90	-

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		A-3	A-4	A-5	A-6	B-1	B-2	B-3	B-4	
<i>Sample ID:</i>		GW-052306-LH-A3	GW-052306-LH-A4	GW-052306-LH-A5	GW-052306-LH-A6	GW-052306-LH-B1	GW-052306-LH-B2	GW-052306-LH-B3	GW-052306-LH-B4	
<i>Sample Date:</i>		5/23/2006	5/23/2006	5/23/2006	5/23/2006	5/23/2006	5/23/2006	5/23/2006	5/23/2006	
<i>Sample Depth:</i>		68.4 ft bgs	68.5 ft bgs	69.3 ft bgs	68.2 ft bgs	68.5 ft bgs	68.5 ft bgs	68.5 ft bgs	68.5 ft bgs	
<i>elev_MLLW</i>		-49.98	-51.18	-51.28	-49.08	-50.08	-50.08	-50.38	-49.98	
<i>elev_NGVD</i>		-56.3	-57.5	-57.6	-55.4	-56.4	-56.4	-56.7	-56.3	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>								
<i>Fparam</i>										
Conductivity, field	umhos/cm	10900	1550	12100	4270	8200	1000	29000	16400	
Dissolved oxygen (DO), field	µg/L	5790	3680	4670	4280	3890	4040	2820	1880	
Oxidation reduction potential (ORP), field	millivolts	30	27	45	5	-116	-117	-155	-165	
pH, field	s.u.	7-8.5	7.45	7.47	7.43	7.78	7.53	8.13	7.51	7.22
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-	
Temperature, field	deg c	14.59	15.89	14.61	16.58	15.31	15.29	14.71	15.78	
Temperature, field	deg f	-	-	-	-	-	-	-	-	
Turbidity, field	ntu	111.00	173.00	-	-	-	-	-	-	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			B-4	BH-65	BH-65	BH-65	BH-71	BH-71
<i>Sample ID:</i>			GW-052306-LH-B41	GW-072406-LH-BH65-001	GW-072406-LH-BH65-002	GW-072406-LH-BH65-003	GW-081006-LH-BH71-001	GW-081006-LH-BH71-0FD
<i>Sample Date:</i>			5/23/2006	7/24/2006	7/24/2006	7/24/2006	8/10/2006	8/10/2006
<i>Sample Depth:</i>			68.5 ft bgs	23 to 26 ft bgs	48 to 51 ft bgs	97 to 100 ft bgs	98 to 101 ft bgs	98 to 101 ft bgs
<i>elev_MLLW</i>			-49.98	-5.08 to -8.08	-30.08 to -33.08	-79.08 to -82.08	-80.08 to -83.08	-80.08 to -83.08
<i>elev_NGVD</i>			-56.3	-11.4 to -14.4	-36.4 to -39.4	-85.4 to -88.4	-86.4 to -89.4	-86.4 to -89.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>					
Fparam								
Conductivity, field	umhos/cm		16400	36800	57900	49900	> 99.9	> 99.9
Dissolved oxygen (DO), field	µg/L		1880	0	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts		-165	-401	-357	-350	-211	-211
pH, field	s.u.	7-8.5	7.22	11.48	8.37	7.51	7.31	7.31
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		15.78	17.7	20.6	22.7	15.3	15.3
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		-	264	-	-	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>BH-72</i>	<i>BH-75</i>	<i>Buffelen Production Well</i>	<i>Buffelen Production Well</i>	<i>C-1</i>	<i>C-2</i>
<i>Sample ID:</i>			<i>GW-080906-LH-BH72-001</i>	<i>GW-072106-LH-BH-75-001</i>	<i>GW-040810-MD-BPW</i>	<i>GW-040810-MD-FD-006</i>	<i>GW-052406-LH-C1</i>	<i>GW-052406-LH-C2</i>
<i>Sample Date:</i>			<i>8/9/2006</i>	<i>7/21/2006</i>	<i>4/8/2010</i>	<i>4/8/2010</i>	<i>5/24/2006</i>	<i>5/24/2006</i>
<i>Sample Depth:</i>			<i>98 to 101 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>450 ft bgs</i>	<i>450 ft bgs</i>	<i>68.5 ft bgs</i>	<i>68.5 ft bgs</i>
<i>elev_MLLW</i>			<i>-80.08 to -83.08</i>	<i>-5.08 to -8.08</i>			<i>-49.38</i>	<i>-49.48</i>
<i>elev_NGVD</i>			<i>-86.4 to -89.4</i>	<i>-11.4 to -14.4</i>			<i>-55.7</i>	<i>-55.8</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm		> 99.9	42200	650	1650	18500	17900
Dissolved oxygen (DO), field	µg/L		0	0	5800	6800	2940	3700
Oxidation reduction potential (ORP), field	millivolts		-345	-248	-27	-26	-163	-140
pH, field	s.u.	7-8.5	8.34	7.51	7.85	7.85	7.41	7.66
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		20.1	17.4	15.80	16.80	14.92	14.81
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		-	-	59.2	60.2	143.00	21.10

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10
<i>Sample ID:</i>		GW-052306-LH-C3	GW-052306-LH-C4	GW-052306-LH-C5	GW-052406-LH-C6	GW-052406-LH-C7	GW-052406-LH-C8	GW-052406-LH-C9	GW-052406-LH-C10
<i>Sample Date:</i>		5/23/2006	5/23/2006	5/23/2006	5/24/2006	5/24/2006	5/24/2006	5/24/2006	5/24/2006
<i>Sample Depth:</i>		68.5 ft bgs	68.5 ft bgs	68.5 ft bgs	68.5 ft bgs	68.5 ft bgs	68.5 ft bgs	68.5 ft bgs	68 ft bgs
<i>elev_MLLW</i>		-49.18	-49.28	-49.38	-49.48	-49.58	-49.68	-49.88	-49.68
<i>elev_NGVD</i>		-55.5	-55.6	-55.7	-55.8	-55.9	-56	-56.2	-56
Parameters	Units	CSI WG							
Fparam									
Conductivity, field	umhos/cm	25100	1440	1270	373	965	1950	19600	21200
Dissolved oxygen (DO), field	µg/L	3850	3590	5530	3910	3540	8810	5390	6040
Oxidation reduction potential (ORP), field	millivolts	17	-7	56	123	-174	-8	-26	12
pH, field	s.u.	7-8.5	7.62	8.24	8.28	6.45	9.26	8.98	8.13
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-
Temperature, field	deg c	15.55	15.05	14.92	15.41	15.8	15.65	16.16	15.75
Temperature, field	deg f	-	-	-	-	-	-	-	-
Turbidity, field	ntu	19.70	-	0.00	-	60.40	-	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		CH-1	CH-1	CH-1	CH-1	CH-1	CH-1	
<i>Sample ID:</i>		GW-060106-LH-CH1-001	GW-072006-DR-CH1-002	GW-072006-DR-CH1-003	GW-072006-DR-CH1-004	GW-072006-DR-CH1-005	GW-072006-DR-CH1-006	
<i>Sample Date:</i>		6/1/2006	7/20/2006	7/20/2006	7/20/2006	7/20/2006	7/20/2006	
<i>Sample Depth:</i>		7 to 10 ft bgs	23 to 27 ft bgs	48 to 52 ft bgs	73 to 77 ft bgs	73 to 77 ft bgs	98 to 102 ft bgs	
<i>elev_MLLW</i>		10.92 to 7.92	-5.08 to -9.08	-30.08 to -34.08	-55.08 to -59.08	-55.08 to -59.08	-80.08 to -84.08	
<i>elev_NGVD</i>		4.6 to 1.6	-11.4 to -15.4	-36.4 to -40.4	-61.4 to -65.4	-61.4 to -65.4 (Duplicate)	-86.4 to -90.4	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm	5890	14000	74100	71200	71200	-	
Dissolved oxygen (DO), field	µg/L	1410	3240	760	340	340	210	
Oxidation reduction potential (ORP), field	millivolts	-27	73	-227	-479	-479	-455	
pH, field	s.u.	7-8.5	9.78	9.86	13.76	11.74	11.74	11
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	13.86	19	22.1	24.2	24.2	23.5	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	-	-	931	453	453	358	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		CH-1	CH-1	CH-2	CH-2	CH-2	CH-2	
<i>Sample ID:</i>		GW-072106-DR-CH1-007	GW-072106-DR-CH1-008	GW-060106-DR-CH2-001	GW-080206-DR-CH2-002	GW-080206-DR-CH2-003	GW-080306-DR-CH2-004	
<i>Sample Date:</i>		7/21/2006	7/21/2006	6/1/2006	8/2/2006	8/2/2006	8/3/2006	
<i>Sample Depth:</i>		123 to 126 ft bgs	148 to 152 ft bgs	7 to 10 ft bgs	23 to 27 ft bgs	48 to 52 ft bgs	73 to 77 ft bgs	
<i>elev_MLLW</i>		-105.08 to -108.08	-130.08 to -134.08	10.92 to 7.92	-5.08 to -9.08	-30.08 to -34.08	-55.08 to -59.08	
<i>elev_NGVD</i>		-111.4 to -114.4	-136.4 to -140.4	4.6 to 1.6	-11.4 to -15.4	-36.4 to -40.4	-61.4 to -65.4	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>				
<i>Fparam</i>								
Conductivity, field	umhos/cm	8500	3950	75	2160	77500	89900	
Dissolved oxygen (DO), field	µg/L	840	1970	6860	4950	1330	2220	
Oxidation reduction potential (ORP), field	millivolts	-291	-117	86	49	-470	-359	
pH, field	s.u.	7-8.5	8.92	7.37	9.1	9.82	11.99	11.23
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	20.6	22.6	14.25	21.08	22.34	17.26	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	-	-	-	-	-	296	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>CH-2</i>	<i>CH-2</i>	<i>CH-3</i>	<i>CH-3</i>	<i>CH-3</i>	<i>CH-3</i>		
<i>Sample ID:</i>		<i>GW-080306-DR-CH2-005</i>	<i>GW-080406-DR-CH2-006</i>	<i>GW-053006-LH-CH3-001</i>	<i>GW-053006-LH-CH3-002</i>	<i>GW-072706-DR-CH3-003</i>	<i>GW-072706-DR-CH3-004</i>		
<i>Sample Date:</i>		<i>8/3/2006</i>	<i>8/4/2006</i>	<i>5/30/2006</i>	<i>5/30/2006</i>	<i>7/27/2006</i>	<i>7/27/2006</i>		
<i>Sample Depth:</i>		<i>98 to 102 ft bgs</i>	<i>123 to 127 ft bgs</i>	<i>10 to 14 ft bgs</i>	<i>21 to 24 ft bgs</i>	<i>48 to 52 ft bgs</i>	<i>73 to 77 ft bgs</i>		
<i>elev_MLLW</i>		<i>-80.08 to -84.08</i>	<i>-105.08 to -109.08</i>	<i>7.92 to 3.92</i>	<i>-3.08 to -6.08</i>	<i>-30.08 to -34.08</i>	<i>-55.08 to -59.08</i>		
<i>elev_NGVD</i>		<i>-86.4 to -90.4</i>	<i>-111.4 to -115.4</i>	<i>1.6 to -2.4</i>	<i>-9.4 to -12.4</i>	<i>-36.4 to -40.4</i>	<i>-61.4 to -65.4</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			5900	2190	2950	9500	30100	58300
Dissolved oxygen (DO), field	µg/L			2440	3850	2020	1390	470	570
Oxidation reduction potential (ORP), field	millivolts			-110	-110	-107	-190	-428	-512
pH, field	s.u.	7-8.5		7.69	7.89	11	11.58	12.37	11.49
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			20.99	16.64	16.62	19.8	21.8	25.4
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			131	590	194	-	0.0	744

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			CH-3	CH-3	CH-3	CH-4	CH-4	CH-4
<i>Sample ID:</i>			GW-072706-DR-CH3-005	GW-072706-DR-CH3-006	GW-072806-DR-CH3-007	GW-053106-LH-CH4-001	GW-072506-DR-CH4-002	GW-072506-DR-CH4-003
<i>Sample Date:</i>			7/27/2006	7/27/2006	7/28/2006	5/31/2006	7/25/2006	7/25/2006
<i>Sample Depth:</i>			98 to 102 ft bgs	98 to 102 ft bgs	123 to 127 ft bgs	9 to 13 ft bgs	23 to 27 ft bgs	48 to 52 ft bgs
<i>elev_MLLW</i>			-80.08 to -84.08	-80.08 to -84.08	-105.08 to -109.08	8.92 to 4.92	-5.08 to -9.08	-30.08 to -34.08
<i>elev_NGVD</i>			-86.4 to -90.4	-86.4 to -90.4	-111.4 to -115.4	2.6 to -1.4	-11.4 to -15.4	-36.4 to -40.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm		7050	7050	2000	4010	15300	90000
Dissolved oxygen (DO), field	µg/L		4380	4380	2080	8750	600	920
Oxidation reduction potential (ORP), field	millivolts		-81	-81	-122	-141	-341	-190
pH, field	s.u.	7-8.5	8	8	7.96	11.77	12.54	13.27
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		27.4	27.4	17.8	17.86	23.2	23.6
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		137	137	896	-	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		CH-4	CH-4	CH-4	CH-4	CH-5	D-2	
<i>Sample ID:</i>		GW-072506-DR-CH4-004	GW-072506-DR-CH4-005	GW-072606-DR-CH4-006	GW-072606-DR-CH4-007	GW-060806-DR-CH5-001	GW-052406-LH-D2	
<i>Sample Date:</i>		7/25/2006	7/25/2006	7/26/2006	7/26/2006	6/8/2006	5/24/2006	
<i>Sample Depth:</i>		73 to 77 ft bgs	98 to 102 ft bgs	123 to 127 ft bgs	148 to 152 ft bgs	9 to 12 ft bgs	68.5 ft bgs	
<i>elev_MLLW</i>		-55.08 to -59.08	-80.08 to -84.08	-105.08 to -109.08	-130.08 to -134.08	8.92 to 5.92	-50.08	
<i>elev_NGVD</i>		-61.4 to -65.4	-86.4 to -90.4	-111.4 to -115.4	-136.4 to -140.4	2.6 to -0.4	-56.4	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm	60500	91300	6690	7660	> 99.9	26900	
Dissolved oxygen (DO), field	µg/L	510	450	2650	2740	0	3480	
Oxidation reduction potential (ORP), field	millivolts	-509	-501	-45	-119	-183	-145	
pH, field	s.u.	7-8.5	11.59	11.34	6.63	7.58	> 14.04	7.43
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	25.1	26.4	22.16	25	14.58	15.08	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	-	334	321	-	-	-	

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>D-3</i>	<i>D-4</i>	<i>D-5</i>	<i>Dock2-1</i>	<i>Dock2-1</i>	<i>Dock2-1</i>	
<i>Sample ID:</i>		<i>GW-052406-LH-D3</i>	<i>GW-052606-LH-D4</i>	<i>GW-052306-LH-D5</i>	<i>GW-072005-DOCK2-1-001</i>	<i>GW-072005-Dock2-1-002</i>	<i>GW-072005-Dock2-1-003</i>	
<i>Sample Date:</i>		<i>5/24/2006</i>	<i>5/26/2006</i>	<i>5/23/2006</i>	<i>7/20/2005</i>	<i>7/20/2005</i>	<i>7/20/2005</i>	
<i>Sample Depth:</i>		<i>68.5 ft bgs</i>	<i>104.9 ft bgs</i>	<i>116.55 ft bgs</i>	<i>4.5 to 7.5 ft bml</i>	<i>8 to 11 ft bml</i>	<i>13 to 16 ft bml</i>	
<i>elev_MLLW</i>		<i>-50.28</i>	<i>-86.98</i>	<i>-97.92</i>	<i>-47.4 to -50.4</i>	<i>-50.9 to -53.9</i>	<i>-55.9 to -58.9</i>	
<i>elev_NGVD</i>		<i>-56.6</i>	<i>-93.3</i>	<i>-104.2</i>	<i>-53.7 to -56.7</i>	<i>-57.2 to -60.2</i>	<i>-62.2 to -65.2</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm	31600	> 99.9	42600	74800	74200	92900	
Dissolved oxygen (DO), field	µg/L	3500	90	3430	1530	1380	1140	
Oxidation reduction potential (ORP), field	millivolts	-27	-242	-37	-436	-460	-383	
pH, field	s.u.	7-8.5	7.48	12.02	7.49	11.32	11.23	10.01
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	15.62	17	15.7	13.7	14.4	15.3	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	26.00	55.20	-	700	620	206	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-1	Dock2-1	Dock2-1	Dock2-1	Dock2-1	Dock2-2
Sample ID:	GW-072005-Dock2-1-004	GW-072105-Dock2-1-005	GW-072105-Dock2-1-006	GW-072105-Dock2-1-007	GW-072105-Dock2-1-008	GW-071105-Dock2-2-001
Sample Date:	7/20/2005	7/21/2005	7/21/2005	7/21/2005	7/21/2005	7/11/2005
Sample Depth:	18 to 21 ft bml	23 to 26 ft bml	28 to 31 ft bml	33 to 36 ft bml	38 to 41 ft bml	7.5 to 10.5 ft bml
elev_MLLW	-60.9 to -63.9	-65.9 to -68.9	-70.9 to -73.9	-75.9 to -78.9	-80.9 to -83.9	-49.2 to -52.2
elev_NGVD	-67.2 to -70.2	-72.2 to -75.2	-77.2 to -80.2	-82.2 to -85.2	-87.2 to -90.2	-55.5 to -58.5

Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			86300	60200	77900	40800	91900	45300
Dissolved oxygen (DO), field	µg/L			1250	1690	1510	2070	1460	4680
Oxidation reduction potential (ORP), field	millivolts			-309	-166	-153	-159	-159	-140
pH, field	s.u.	7-8.5		8.91	7.37	7.23	7.06	7.20	7.52
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			16.5	15.1	15.1	15.9	15.9	16.7
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			406	203	100	105	221	125

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Dock2-2</i>	<i>Dock2-2</i>	<i>Dock2-2</i>	<i>Dock2-2</i>	<i>Dock2-2</i>	<i>Dock2-3</i>			
<i>Sample ID:</i>	<i>GW-071205-Dock2-2-002</i>	<i>GW-071205-Dock2-2-003</i>	<i>GW-071205-Dock2-2-004</i>	<i>GW-071205-Dock2-2-005</i>	<i>GW-071305-DOCK2-2-006</i>	<i>GW-072205-DOCK2-3-001</i>			
<i>Sample Date:</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/13/2005</i>	<i>7/22/2005</i>			
<i>Sample Depth:</i>	<i>12.5 to 15.5 ft bml</i>	<i>17.5 to 20.5 ft bml</i>	<i>22.5 to 25.5 ft bml</i>	<i>27.5 to 30.5 ft bml</i>	<i>32.5 to 35.5 ft bml</i>	<i>3 to 6 ft bml</i>			
<i>elev_MLLW</i>	<i>-54.2 to -57.2</i>	<i>-59.2 to -62.2</i>	<i>-64.2 to -67.2</i>	<i>-69.2 to -72.2</i>	<i>-74.2 to -77.2</i>	<i>-45.6 to -48.6</i>			
<i>elev_NGVD</i>	<i>-60.5 to -63.5</i>	<i>-65.5 to -68.5</i>	<i>-70.5 to -73.5</i>	<i>-75.5 to -78.5</i>	<i>-80.5 to -83.5</i>	<i>-51.9 to -54.9</i>			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			44500	34400	39500	64800	44700	52900
Dissolved oxygen (DO), field	µg/L			5400	6460	5660	4680	2060	1380
Oxidation reduction potential (ORP), field	millivolts			-159	-99	-68	-82	-152	-306
pH, field	s.u.	7-8.5		7.60	7.80	7.67	7.51	7.47	8.80
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			13.6	13.9	14.6	14.5	13.6	15.0
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			57	609	476	345	787	780

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Dock2-3</i>	<i>Dock2-3</i>	<i>Dock2-3</i>	<i>Dock2-3</i>	<i>Dock2-3</i>
<i>Sample ID:</i>			<i>GW-072205-DOCK2-3-002</i>	<i>GW-072205-DOCK2-3-003</i>	<i>GW-072505-DOCK2-3-004</i>	<i>GW-072505-DOCK2-3-005</i>	<i>GW-072505-DOCK2-3-006</i>
<i>Sample Date:</i>			<i>7/22/2005</i>	<i>7/22/2005</i>	<i>7/25/2005</i>	<i>7/25/2005</i>	<i>7/25/2005</i>
<i>Sample Depth:</i>			<i>3 to 6 ft bml</i>	<i>8 to 11 ft bml</i>	<i>13 to 16 ft bml</i>	<i>18 to 21 ft bml</i>	<i>23 to 26 ft bml</i>
<i>elev_MLLW</i>			<i>-45.6 to -48.6</i>	<i>-50.6 to -53.6</i>	<i>-55.6 to -58.6</i>	<i>-60.6 to -63.6</i>	<i>-65.6 to -68.6</i>
<i>elev_NGVD</i>			<i>-51.9 to -54.9</i>	<i>-56.9 to -59.9</i>	<i>-61.9 to -64.9</i>	<i>-66.9 to -69.9</i>	<i>-71.9 to -74.9</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		52900	17100	37000	70000	90600
Dissolved oxygen (DO), field	µg/L		1380	1920	2990	2710	2560
Oxidation reduction potential (ORP), field	millivolts		-263	-263	-194	-145	-200
pH, field	s.u.	7-8.5	8.80	9.27	7.85	7.40	7.92
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		15.0	15.2	14.0	14.6	15.3
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		780	503	147	197	888

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-3</i>	<i>Dock2-4</i>	<i>Dock2-4</i>	<i>Dock2-4</i>	<i>Dock2-4</i>	
<i>Sample ID:</i>		<i>GW-072505-DOCK2-3-007</i>	<i>GW-072805-DOCK2-4-001</i>	<i>GW-072805-DOCK2-4-002</i>	<i>GW-072805-DOCK2-4-003</i>	<i>GW-072805-DOCK2-4-004</i>	
<i>Sample Date:</i>		<i>7/25/2005</i>	<i>7/28/2005</i>	<i>7/28/2005</i>	<i>7/28/2005</i>	<i>7/28/2005</i>	
<i>Sample Depth:</i>		<i>28 to 31 ft bml</i>	<i>4 to 7 ft bml</i>	<i>9 to 12 ft bml</i>	<i>14 to 17 ft bml</i>	<i>19 to 22 ft bml</i>	
<i>elev_MLLW</i>		<i>-70.6 to -73.6</i>	<i>-46.2 to -49.2</i>	<i>-51.2 to -54.2</i>	<i>-56.2 to -59.2</i>	<i>-61.2 to -64.2</i>	
<i>elev_NGVD</i>		<i>-76.9 to -79.9</i>	<i>-52.5 to -55.5</i>	<i>-57.5 to -60.5</i>	<i>-62.5 to -65.5</i>	<i>-67.5 to -70.5</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		99900	42400	54200	60400	72700
Dissolved oxygen (DO), field	µg/L		2070	2590	2500	2400	2170
Oxidation reduction potential (ORP), field	millivolts		-190	-183	-178	-266	-226
pH, field	s.u.	7-8.5	7.85	8.18	8.16	8.46	8.27
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		15.5	14.1	14.8	14.8	15.4
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		349	280	24.0	123	305

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-4	Dock2-4	Dock2-4	Dock2-4	Dock2-5	Dock2-5			
Sample ID:	GW-072905-Dock2-4-005	GW-072905-Dock2-4-006	GW-072905-Dock2-4-007	GW-072905-Dock2-4-008	GW-080105-Dock2-5-001	GW-080105-Dock2-5-002			
Sample Date:	7/29/2005	7/29/2005	7/29/2005	7/29/2005	8/1/2005	8/1/2005			
Sample Depth:	24 to 27 ft bml	24 to 27 ft bml	29 to 32 ft bml	34 to 37 ft bml	2 to 5 ft bml	2 to 5 ft bml			
elev_MLLW	-66.2 to -69.2	-66.2 to -69.2	-71.2 to -74.2	-76.2 to -79.2	-37 to -40	-37 to -40			
elev_NGVD	-72.5 to -75.5	-72.5 to -75.5	-77.5 to -80.5	-82.5 to -85.5	-43.3 to -46.3	-43.3 to -46.3			
Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			79700	79700	62300	9220	48400	48400
Dissolved oxygen (DO), field	µg/L			2040	2040	2510	2880	2680	2680
Oxidation reduction potential (ORP), field	millivolts			-248	-248	-161	-154	-340	-340
pH, field	s.u.	7-8.5		8.36	8.36	7.11	7.13	9.11	9.11
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			14.5	14.5	14.8	15.2	14.2	14.2
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			169	-	0.5	179	314	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-5	Dock2-5	Dock2-5	Dock2-5	Dock2-5	Dock2-5
Sample ID:	GW-080105-Dock2-5-003	GW-080105-Dock2-5-004	GW-080205-Dock2-5-005	GW-080205-Dock2-5-006	GW-080205-Dock2-5-007	GW-080205-Dock2-5-008
Sample Date:	8/1/2005	8/1/2005	8/2/2005	8/2/2005	8/2/2005	8/2/2005
Sample Depth:	7 to 10 ft bml	12 to 15 ft bml	17 to 20 ft bml	22 to 25 ft bml	27 to 30 ft bml	32 to 35 ft bml
elev_MLLW	-42 to -45	-47 to -50	-52 to -55	-57 to -60	-62 to -65	-67 to -70
elev_NGVD	-48.3 to -51.3	-53.3 to -56.3	-58.3 to -61.3	-63.3 to -66.3	-68.3 to -71.3	-73.3 to -76.3

Parameters	Units	CSI	WG				
Fparam							
Conductivity, field	umhos/cm			54500	49700	13700	4500
Dissolved oxygen (DO), field	µg/L			2830	2690	3350	3370
Oxidation reduction potential (ORP), field	millivolts			-157	-282	-159	-110
pH, field	s.u.	7-8.5		8.39	9.65	7.52	7.24
Specific Gravity~FIELDPARAM	sg			-	-	-	-
Temperature, field	deg c			14.3	14.6	13.6	15.0
Temperature, field	deg f			-	-	-	-
Turbidity, field	ntu			-	899	263	238

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Dock2-5</i>	<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-6</i>
<i>Sample ID:</i>	<i>GW-080205-Dock2-5-009</i>	<i>GW-090605-Dock2-6-001</i>	<i>GW-090605-Dock2-6-002</i>	<i>GW-090605-Dock2-6-003</i>	<i>GW-090605-Dock2-6-004</i>	<i>GW-090605-Dock2-6-005</i>
<i>Sample Date:</i>	<i>8/2/2005</i>	<i>9/6/2005</i>	<i>9/6/2005</i>	<i>9/6/2005</i>	<i>9/6/2005</i>	<i>9/6/2005</i>
<i>Sample Depth:</i>	<i>37 to 40 ft bml</i>	<i>0.7 to 3.7 ft bml</i>	<i>5.7 to 8.7 ft bml</i>	<i>10.7 to 13.7 ft bml</i>	<i>15.7 to 18.7 ft bml</i>	<i>20.7 to 23.7 ft bml</i>
<i>elev_MLLW</i>	<i>-72 to -75</i>	<i>-36.8 to -39.8</i>	<i>-41.8 to -44.8</i>	<i>-46.8 to -49.8</i>	<i>-51.8 to -54.8</i>	<i>-56.8 to -59.8</i>
<i>elev_NGVD</i>	<i>-78.3 to -81.3</i>	<i>-43.1 to -46.1</i>	<i>-48.1 to -51.1</i>	<i>-53.1 to -56.1</i>	<i>-58.1 to -61.1</i>	<i>-63.1 to -66.1</i>

<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			9400	11400	28200	18300	22500	23300
Dissolved oxygen (DO), field	µg/L			3330	3990	3410	3440	3480	3410
Oxidation reduction potential (ORP), field	millivolts			-205	-117	-100	-143	-111	-119
pH, field	s.u.	7-8.5		7.08	8.10	7.28	7.69	7.39	7.32
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			17.9	14.8	15.7	15.5	14.5	14.1
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			-	619	442	189	479	881

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-6</i>	<i>Dock2-7</i>
<i>Sample ID:</i>		<i>GW-090605-Dock2-6-006</i>	<i>GW-090605-Dock2-6-007</i>	<i>GW-090705-Dock2-6-008</i>	<i>GW-090705-Dock2-6-009</i>	<i>GW-090705-Dock2-6-010</i>	<i>GW-090705-Dock2-7-001</i>
<i>Sample Date:</i>		<i>9/6/2005</i>	<i>9/6/2005</i>	<i>9/7/2005</i>	<i>9/7/2005</i>	<i>9/7/2005</i>	<i>9/7/2005</i>
<i>Sample Depth:</i>		<i>25.7 to 28.7 ft bml</i>	<i>25.7 to 28.7 ft bml</i>	<i>30.7 to 33.7 ft bml</i>	<i>35.7 to 38.7 ft bml</i>	<i>40.7 to 43.7 ft bml</i>	<i>3 to 6 ft bml</i>
<i>elev_MLLW</i>		<i>-61.8 to -64.8</i>	<i>-61.8 to -64.8</i>	<i>-66.8 to -69.8</i>	<i>-71.8 to -74.8</i>	<i>-76.8 to -79.8</i>	<i>-39.7 to -42.7</i>
<i>elev_NGVD</i>		<i>-68.1 to -71.1</i>	<i>-68.1 to -71.1</i>	<i>-73.1 to -76.1</i>	<i>-78.1 to -81.1</i>	<i>-83.1 to -86.1</i>	<i>-46 to -49</i>
<i>Parameters</i>	<i>Units</i>	<i>(Duplicate)</i>					
<i>Fparam</i>	<i>CSI WG</i>						
Conductivity, field	umhos/cm	28500	28500	30600	34100	32000	19300
Dissolved oxygen (DO), field	µg/L	3450	3450	3450	3360	3930	4270
Oxidation reduction potential (ORP), field	millivolts	-123	-123	-121	-106	-53	4
pH, field	s.u.	7-8.5	7.50	7.50	7.49	7.54	7.42
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	14.0	14.0	13.9	13.6	13.4	14.3
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	441	441	329	260	607	114

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Dock2-7</i>	<i>Dock2-7</i>	<i>Dock2-7</i>	<i>Dock2-7</i>	<i>Dock2-7</i>	<i>Dock2-7</i>		
<i>Sample ID:</i>		<i>GW-090705-Dock2-7-002</i>	<i>GW-090705-Dock2-7-003</i>	<i>GW-090705-Dock2-7-004</i>	<i>GW-090705-Dock2-7-005</i>	<i>GW-090705-Dock2-7-006</i>	<i>GW-090705-Dock2-7-007</i>		
<i>Sample Date:</i>		<i>9/7/2005</i>	<i>9/7/2005</i>	<i>9/7/2005</i>	<i>9/7/2005</i>	<i>9/7/2005</i>	<i>9/7/2005</i>		
<i>Sample Depth:</i>		<i>8 to 11 ft bml</i>	<i>13 to 16 ft bml</i>	<i>18 to 21 ft bml</i>	<i>23 to 26 ft bml</i>	<i>23 to 26 ft bml</i>	<i>28 to 31 ft bml</i>		
<i>elev_MLLW</i>		<i>-44.7 to -47.7</i>	<i>-49.7 to -52.7</i>	<i>-54.7 to -57.7</i>	<i>-59.7 to -62.7</i>	<i>-59.7 to -62.7</i>	<i>-64.7 to -67.7</i>		
<i>elev_NGVD</i>		<i>-51 to -54</i>	<i>-56 to -59</i>	<i>-61 to -64</i>	<i>-66 to -69</i>	<i>-66 to -69</i> <i>(Duplicate)</i>	<i>-71 to -74</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			25200	18000	20800	26900	26900	21100
Dissolved oxygen (DO), field	µg/L			4070	4260	4350	4430	4430	4530
Oxidation reduction potential (ORP), field	millivolts			-91	-95	-130	-128	-128	-84
pH, field	s.u.	7-8.5		7.90	7.90	7.91	8.09	8.09	7.98
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			13.9	14.3	14.9	15.0	15.0	16.1
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			264	758	505	352	352	171

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Dock2-7</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	
<i>Sample ID:</i>		<i>GW-090705-Dock2-7-008</i>	<i>GW-082005-Dock2-8-001</i>	<i>GW-082205-Dock2-8-002</i>	<i>GW-082205-Dock2-8-003</i>	<i>GW-082205-Dock2-8-004</i>	<i>GW-082205-Dock2-8-005</i>	
<i>Sample Date:</i>		<i>9/7/2005</i>	<i>8/20/2005</i>	<i>8/22/2005</i>	<i>8/22/2005</i>	<i>8/22/2005</i>	<i>8/22/2005</i>	
<i>Sample Depth:</i>		<i>33 to 36 ft bml</i>	<i>4 to 7 ft bml</i>	<i>9 to 12 ft bml</i>	<i>14 to 17 ft bml</i>	<i>19 to 22 ft bml</i>	<i>24 to 27 ft bml</i>	
<i>elev_MLLW</i>		<i>-69.7 to -72.7</i>	<i>-46.3 to -49.3</i>	<i>-51.3 to -54.3</i>	<i>-56.3 to -59.3</i>	<i>-61.3 to -64.3</i>	<i>-66.3 to -69.3</i>	
<i>elev_NGVD</i>		<i>-76 to -79</i>	<i>-52.6 to -55.6</i>	<i>-57.6 to -60.6</i>	<i>-62.6 to -65.6</i>	<i>-67.6 to -70.6</i>	<i>-72.6 to -75.6</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm		30300	48600	61400	62600	77900	86800
Dissolved oxygen (DO), field	µg/L		4300	3090	2780	2770	2570	2380
Oxidation reduction potential (ORP), field	millivolts		-139	-328	-417	-409	-409	-355
pH, field	s.u.	7-8.5	8.15	10.25	11.77	11.72	11.69	10.34
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		15.1	14.0	14.9	15.0	15.9	16.4
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		-	-	689	-	410	616

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>
<i>Sample ID:</i>		<i>GW-082205-Dock2-8-006</i>	<i>GW-082205-Dock2-8-007</i>	<i>GW-082205-Dock2-8-008</i>	<i>GW-082205-Dock2-8-009</i>	<i>GW-082205-Dock2-8-010</i>	<i>GW-082205-Dock2-8-011</i>
<i>Sample Date:</i>		<i>8/22/2005</i>	<i>8/22/2005</i>	<i>8/22/2005</i>	<i>8/22/2005</i>	<i>8/22/2005</i>	<i>8/22/2005</i>
<i>Sample Depth:</i>		<i>24 to 27 ft bml</i>	<i>29 to 32 ft bml</i>	<i>34 to 37 ft bml</i>	<i>39 to 42 ft bml</i>	<i>44 to 47 ft bml</i>	<i>49 to 52 ft bml</i>
<i>elev_MLLW</i>		<i>-66.3 to -69.3</i>	<i>-71.3 to -74.3</i>	<i>-76.3 to -79.3</i>	<i>-81.3 to -84.3</i>	<i>-86.3 to -89.3</i>	<i>-91.3 to -94.3</i>
<i>elev_NGVD</i>		<i>-72.6 to -75.6</i>	<i>-77.6 to -80.6</i>	<i>-82.6 to -85.6</i>	<i>-87.6 to -90.6</i>	<i>-92.6 to -95.6</i>	<i>-97.6 to -100.6</i>
<i>Parameters</i>	<i>Units</i>	<i>(Duplicate)</i>					
	<i>CSI WG</i>						
<i>Fparam</i>							
Conductivity, field	umhos/cm	86800	74200	45100	44300	44200	62500
Dissolved oxygen (DO), field	µg/L	2380	2540	3420	4670	3610	3080
Oxidation reduction potential (ORP), field	millivolts	-355	-183	-159	-33	-44	-289
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	16.4	16.9	15.3	15.3	15.0	14.9
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	616	657	384	536	441	795

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-8	Dock2-8	Dock2-8	Dock2-8	Dock2-8	Dock2-8
Sample ID:	GW-082205-Dock2-8-012	GW-082205-Dock2-8-013	GW-082205-Dock2-8-014	GW-082205-Dock2-8-015	GW-082305-Dock2-8-016	GW-082305-Dock2-8-017
Sample Date:	8/22/2005	8/22/2005	8/22/2005	8/22/2005	8/23/2005	8/23/2005
Sample Depth:	54 to 57 ft bml	59 to 62 ft bml	64 to 67 ft bml	69 to 72 ft bml	74 to 77 ft bml	79 to 82 ft bml
elev_MLLW	-96.3 to -99.3	-101.3 to -104.3	-106.3 to -109.3	-111.3 to -114.3	-116.3 to -119.3	-121.3 to -124.3
elev_NGVD	-102.6 to -105.6	-107.6 to -110.6	-112.6 to -115.6	-117.6 to -120.6	-122.6 to -125.6	-127.6 to -130.6

Parameters	Units	CSI	WG					
Fparam								
Conductivity, field	umhos/cm		> 99.9	9500	7730	42600	21100	13500
Dissolved oxygen (DO), field	µg/L		1430	4220	4230	3300	3660	3980
Oxidation reduction potential (ORP), field	millivolts		-134	-87	-107	-131	-176	-108
pH, field	s.u.	7-8.5	7.92	8.49	8.54	9.38	8.73	7.96
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		15.0	14.8	14.4	14.1	14.8	14.9
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		164	145	289	455	192	65

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-8</i>	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-9</i>
<i>Sample ID:</i>			<i>GW-082305-Dock2-8-018</i>	<i>GW-082305-Dock2-8-019</i>	<i>GW-082305-Dock2-8-020</i>	<i>GW-090805-Dock2-9-001</i>	<i>GW-090805-Dock2-9-002</i>	<i>GW-090805-Dock2-9-003</i>
<i>Sample Date:</i>			<i>8/23/2005</i>	<i>8/23/2005</i>	<i>8/23/2005</i>	<i>9/8/2005</i>	<i>9/8/2005</i>	<i>9/8/2005</i>
<i>Sample Depth:</i>			<i>84 to 87 ft bml</i>	<i>89 to 92 ft bml</i>	<i>94 to 97 ft bml</i>	<i>4 to 7 ft bml</i>	<i>9 to 12 ft bml</i>	<i>14 to 17 ft bml</i>
<i>elev_MLLW</i>			<i>-126.3 to -129.3</i>	<i>-131.3 to -134.3</i>	<i>-136.3 to -139.3</i>	<i>-40.2 to -43.2</i>	<i>-45.2 to -48.2</i>	<i>-50.2 to -53.2</i>
<i>elev_NGVD</i>			<i>-132.6 to -135.6</i>	<i>-137.6 to -140.6</i>	<i>-142.6 to -145.6</i>	<i>-46.5 to -49.5</i>	<i>-51.5 to -54.5</i>	<i>-56.5 to -59.5</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		14000	14400	14300	34600	38200	36200
Dissolved oxygen (DO), field	µg/L		4240	3980	3960	3960	3760	3710
Oxidation reduction potential (ORP), field	millivolts		-28	-95	-16	-270	-348	-320
pH, field	s.u.	7-8.5	7.73	7.81	7.75	9.52	11.17	10.82
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		15.6	16.0	16.3	14.2	13.9	13.5
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		26	672	35	303	353	998

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Dock2-9	Dock2-9	Dock2-9	Dock2-9	Dock2-9	Dock2-9
Sample ID:	GW-090805-Dock2-9-004	GW-090805-Dock2-9-005	GW-090805-Dock2-9-006	GW-090805-Dock2-9-007	GW-090805-Dock2-9-008	GW-090805-Dock2-9-009
Sample Date:	9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/8/2005
Sample Depth:	19 to 22 ft bml	24 to 27 ft bml	29 to 32 ft bml	34 to 37 ft bml	39 to 42 ft bml	44 to 47 ft bml
elev_MLLW	-55.2 to -58.2	-60.2 to -63.2	-65.2 to -68.2	-70.2 to -73.2	-75.2 to -78.2	-80.2 to -83.2
elev_NGVD	-61.5 to -64.5	-66.5 to -69.5	-71.5 to -74.5	-76.5 to -79.5	-81.5 to -84.5	-86.5 to -89.5

Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			36700	33900	32000	26600	29000	30400
Dissolved oxygen (DO), field	µg/L			3680	4570	3750	3930	3850	3920
Oxidation reduction potential (ORP), field	millivolts			-274	-4	-98	-113	-105	-101
pH, field	s.u.	7-8.5		10.22	8.91	8.38	8.35	8.07	7.37
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			13.3	13.7	14.5	14.7	14.7	15.4
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			956	92.1	339	213	-	854

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-9</i>	<i>Dock2-10</i>	<i>Dock2-10</i>	<i>Dock2-10</i>			
<i>Sample ID:</i>	GW-090805-Dock2-9-010	GW-090805-Dock2-9-011	GW-090805-Dock2-9-012	GW-091205-Dock2-10-001	GW-091205-Dock2-10-002	GW-091205-Dock2-10-003			
<i>Sample Date:</i>	9/8/2005	9/8/2005	9/8/2005	9/12/2005	9/12/2005	9/12/2005			
<i>Sample Depth:</i>	49 to 52 ft bml	54 to 57 ft bml	59 to 62 ft bml	2.6 to 5.6 ft bml	2.6 to 5.6 ft bml	7.6 to 10.6 ft bml			
<i>elev_MLLW</i>	-85.2 to -88.2	-90.2 to -93.2	-95.2 to -98.2	-38 to -41	-38 to -41	-43 to -46			
<i>elev_NGVD</i>	-91.5 to -94.5	-96.5 to -99.5	-101.5 to -104.5	-44.3 to -47.3	-44.3 to -47.3 (Duplicate)	-49.3 to -52.3			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			41900	99900	60500	52600	52600	40700
Dissolved oxygen (DO), field	µg/L			3780	10	130	250	250	0
Oxidation reduction potential (ORP), field	millivolts			-86	-181	-208	-213	-213	-306
pH, field	s.u.	7-8.5		7.05	7.63	8.25	8.36	8.36	8.89
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			15.7	15.9	17.6	13.6	13.6	13.3
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			419	207	534	279	279	298

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>Dock2-10</i>	<i>Dock2-10</i>	<i>Dock2-10</i>	<i>Dock2-10</i>	<i>Dock2-10</i>
<i>Sample ID:</i>			<i>GW-091305-Dock2-10-004</i>	<i>GW-091305-Dock2-10-005</i>	<i>GW-091305-Dock2-10-006</i>	<i>GW-091305-Dock2-10-007</i>	<i>GW-091305-Dock2-10-008</i>
<i>Sample Date:</i>			<i>9/13/2005</i>	<i>9/13/2005</i>	<i>9/13/2005</i>	<i>9/13/2005</i>	<i>9/13/2005</i>
<i>Sample Depth:</i>			<i>12.6 to 15.6 ft bml</i>	<i>17.9 to 20.6 ft bml</i>	<i>22.6 to 25.6 ft bml</i>	<i>27.6 to 30.6 ft bml</i>	<i>32.6 to 35.6 ft bml</i>
<i>elev_MLLW</i>			<i>-48 to -51</i>	<i>-53.3 to -56</i>	<i>-58 to -61</i>	<i>-63 to -66</i>	<i>-68 to -71</i>
<i>elev_NGVD</i>			<i>-54.3 to -57.3</i>	<i>-59.6 to -62.3</i>	<i>-64.3 to -67.3</i>	<i>-69.3 to -72.3</i>	<i>-74.3 to -77.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		52400	33000	46600	47900	47600
Dissolved oxygen (DO), field	µg/L		250	1210	400	550	590
Oxidation reduction potential (ORP), field	millivolts		-224	-123	-185	-197	-179
pH, field	s.u.	7-8.5	8.41	8.28	8.40	8.44	8.09
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		13.3	13.2	13.0	13.0	12.9
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		> 999	264	595	149	131

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Dock2-10</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>		
<i>Sample ID:</i>	<i>GW-091305-Dock2-10-009</i>	<i>GW-101905-Dock2-11-001</i>	<i>GW-101905-Dock2-11-002</i>	<i>GW-102005-Dock2-11-003</i>	<i>GW-102005-Dock2-11-004</i>		
<i>Sample Date:</i>	<i>9/13/2005</i>	<i>10/19/2005</i>	<i>10/19/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>		
<i>Sample Depth:</i>	<i>37.6 to 40.6 ft bml</i>	<i>2 to 5 ft bml</i>	<i>7 to 10 ft bml</i>	<i>12 to 15 ft bml</i>	<i>17 to 20 ft bml</i>		
<i>elev_MLLW</i>	<i>-73 to -76</i>	<i>-37.5 to -40.5</i>	<i>-42.5 to -45.5</i>	<i>-47.5 to -50.5</i>	<i>-52.5 to -55.5</i>		
<i>elev_NGVD</i>	<i>-79.3 to -82.3</i>	<i>-43.8 to -46.8</i>	<i>-48.8 to -51.8</i>	<i>-53.8 to -56.8</i>	<i>-58.8 to -61.8</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		39900	50600	64500	68200	61600
Dissolved oxygen (DO), field	µg/L		340	2860	2440	2300	2240
Oxidation reduction potential (ORP), field	millivolts		-149	-245	-522	-535	-500
pH, field	s.u.	7-8.5	7.67	8.24	11.20	11.61	10.55
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		13.0	13.34	13.12	13.01	13.03
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		114	278	462	382	> 999

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>
<i>Sample ID:</i>			<i>GW-102005-Dock2-11-005</i>	<i>GW-102005-Dock2-11-006</i>	<i>GW-102005-Dock2-11-007</i>	<i>GW-102005-Dock2-11-008</i>	<i>GW-102005-Dock2-11-009</i>
<i>Sample Date:</i>			<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>
<i>Sample Depth:</i>			<i>17 to 20 ft bml</i>	<i>22 to 25 ft bml</i>	<i>27 to 30 ft bml</i>	<i>32 to 35 ft bml</i>	<i>37 to 40 ft bml</i>
<i>elev_MLLW</i>			<i>-52.5 to -55.5</i>	<i>-57.5 to -60.5</i>	<i>-62.5 to -65.5</i>	<i>-67.5 to -70.5</i>	<i>-72.5 to -75.5</i>
<i>elev_NGVD</i>			<i>-58.8 to -61.8</i>	<i>-63.8 to -66.8</i>	<i>-68.8 to -71.8</i>	<i>-73.8 to -76.8</i>	<i>-78.8 to -81.8</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		61600	68800	82200	50100	48800
Dissolved oxygen (DO), field	µg/L		2240	2130	1950	2820	1260
Oxidation reduction potential (ORP), field	millivolts		-500	-406	-426	-162	-182
pH, field	s.u.	7-8.5	10.55	9.56	9.97	8.32	7.57
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		13.03	13.14	12.90	12.50	12.4
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		> 999	> 999	506	> 999	35.3

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>
<i>Sample ID:</i>			<i>GW-102005-Dock2-11-010</i>	<i>GW-102005-Dock2-11-011</i>	<i>GW-102005-Dock2-11-012</i>	<i>GW-102005-Dock2-11-013</i>	<i>GW-102005-Dock2-11-014</i>
<i>Sample Date:</i>			<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>
<i>Sample Depth:</i>			<i>42 to 45 ft bml</i>	<i>47 to 50 ft bml</i>	<i>52 to 55 ft bml</i>	<i>57 to 60 ft bml</i>	<i>62 to 65 ft bml</i>
<i>elev_MLLW</i>			<i>-77.5 to -80.5</i>	<i>-82.5 to -85.5</i>	<i>-87.5 to -90.5</i>	<i>-92.5 to -95.5</i>	<i>-97.5 to -100.5</i>
<i>elev_NGVD</i>			<i>-83.8 to -86.8</i>	<i>-88.8 to -91.8</i>	<i>-93.8 to -96.8</i>	<i>-98.8 to -101.8</i>	<i>-103.8 to -106.8</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		21800	34400	58600	48600	> 99.9
Dissolved oxygen (DO), field	µg/L		600	1410	1200	1060	840
Oxidation reduction potential (ORP), field	millivolts		-189	-165	-173	-178	-183
pH, field	s.u.	7-8.5	7.71	7.53	7.45	7.52	7.50
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		12.7	13.0	13.4	13.5	13.5
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		147	145	292	13.7	98.6

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-11</i>		
<i>Sample ID:</i>	<i>GW-102005-Dock2-11-015</i>	<i>GW-102005-Dock2-11-017</i>	<i>GW-102005-Dock2-11-018</i>	<i>GW-102105-Dock2-11-019</i>	<i>GW-102105-Dock2-11-020</i>		
<i>Sample Date:</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/20/2005</i>	<i>10/21/2005</i>	<i>10/21/2005</i>		
<i>Sample Depth:</i>	<i>67 to 70 ft bml</i>	<i>77 to 80 ft bml</i>	<i>82 to 85 ft bml</i>	<i>87 to 90 ft bml</i>	<i>92 to 95 ft bml</i>		
<i>elev_MLLW</i>	<i>-102.5 to -105.5</i>	<i>-112.5 to -115.5</i>	<i>-117.5 to -120.5</i>	<i>-122.5 to -125.5</i>	<i>-127.5 to -130.5</i>		
<i>elev_NGVD</i>	<i>-108.8 to -111.8</i>	<i>-118.8 to -121.8</i>	<i>-123.8 to -126.8</i>	<i>-128.8 to -131.8</i>	<i>-133.8 to -136.8</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		11600	24900	23300	36400	36300
Dissolved oxygen (DO), field	µg/L		770	600	820	1350	9370
Oxidation reduction potential (ORP), field	millivolts		-227	-255	-198	-140	-37
pH, field	s.u.	7-8.5	8.28	8.32	8.05	7.65	7.82
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		13.5	13.6	13.1	13.2	12.3
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		517	> 999	> 999	119	> 999

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-11</i>	<i>Dock2-11</i>	<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>		
<i>Sample ID:</i>	<i>GW-102105-Dock2-11-021</i>	<i>GW-102105-Dock2-11-022</i>	<i>GW-110805-Dock2-12-001</i>	<i>GW-110805-Dock2-12-002</i>	<i>GW-110805-Dock2-12-003</i>		
<i>Sample Date:</i>	<i>10/21/2005</i>	<i>10/21/2005</i>	<i>11/8/2005</i>	<i>11/8/2005</i>	<i>11/8/2005</i>		
<i>Sample Depth:</i>	<i>97 to 100 ft bml</i>	<i>102 to 105 ft bml</i>	<i>2 to 5 ft bml</i>	<i>7 to 10 ft bml</i>	<i>12 to 15 ft bml</i>		
<i>elev_MLLW</i>	<i>-132.5 to -135.5</i>	<i>-137.5 to -140.5</i>	<i>-38.6 to -41.6</i>	<i>-43.6 to -46.6</i>	<i>-48.6 to -51.6</i>		
<i>elev_NGVD</i>	<i>-138.8 to -141.8</i>	<i>-143.8 to -146.8</i>	<i>-44.9 to -47.9</i>	<i>-49.9 to -52.9</i>	<i>-54.9 to -57.9</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		26600	14700	45100	47400	46300
Dissolved oxygen (DO), field	µg/L		1270	1220	1700	120	210
Oxidation reduction potential (ORP), field	millivolts		-162	-210	-186	-316	-350
pH, field	s.u.	7-8.5	7.67	7.81	7.80	8.10	8.15
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		12.6	13.2	10.8	10.8	10.9
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		71.7	602	84.3	> 999	> 999

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>
<i>Sample ID:</i>			<i>GW-110805-Dock2-12-004</i>	<i>GW-110805-Dock2-12-005</i>	<i>GW-110805-Dock2-12-006</i>	<i>GW-110805-Dock2-12-007</i>	<i>GW-110805-Dock2-12-008</i>
<i>Sample Date:</i>			<i>11/8/2005</i>	<i>11/8/2005</i>	<i>11/8/2005</i>	<i>11/8/2005</i>	<i>11/8/2005</i>
<i>Sample Depth:</i>			<i>17 to 20 ft bml</i>	<i>22 to 25 ft bml</i>	<i>27 to 30 ft bml</i>	<i>32 to 35 ft bml</i>	<i>37 to 40 ft bml</i>
<i>elev_MLLW</i>			<i>-53.6 to -56.6</i>	<i>-58.6 to -61.6</i>	<i>-63.6 to -66.6</i>	<i>-68.6 to -71.6</i>	<i>-73.6 to -76.6</i>
<i>elev_NGVD</i>			<i>-59.9 to -62.9</i>	<i>-64.9 to -67.9</i>	<i>-69.9 to -72.9</i>	<i>-74.9 to -77.9</i>	<i>-79.9 to -82.9</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		41700	43800	34800	32900	44200
Dissolved oxygen (DO), field	µg/L		1270	410	800	910	370
Oxidation reduction potential (ORP), field	millivolts		-208	-261	-208	-216	-268
pH, field	s.u.	7-8.5	7.84	8.12	7.60	7.89	8.24
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		10.7	12.0	12.2	12.1	11.6
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		688	874	546	495	712

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>
<i>Sample ID:</i>			<i>GW-110805-Dock2-12-009</i>	<i>GW-110805-Dock2-12-010</i>	<i>GW-110805-Dock2-12-011</i>	<i>GW-110805-Dock2-12-012</i>	<i>GW-110805-Dock2-12-013</i>
<i>Sample Date:</i>			<i>11/8/2005</i>	<i>11/8/2005</i>	<i>11/8/2005</i>	<i>11/8/2005</i>	<i>11/8/2005</i>
<i>Sample Depth:</i>			<i>42 to 45 ft bml</i>	<i>47 to 50 ft bml</i>	<i>52 to 55 ft bml</i>	<i>57 to 60 ft bml</i>	<i>57 to 60 ft bml</i>
<i>elev_MLLW</i>			<i>-78.6 to -81.6</i>	<i>-83.6 to -86.6</i>	<i>-88.6 to -91.6</i>	<i>-93.6 to -96.6</i>	<i>-93.6 to -96.6</i>
<i>elev_NGVD</i>			<i>-84.9 to -87.9</i>	<i>-89.9 to -92.9</i>	<i>-94.9 to -97.9</i>	<i>-99.9 to -102.9</i>	<i>-99.9 to -102.9</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					<i>(Duplicate)</i>
<i>Fparam</i>							
Conductivity, field	umhos/cm		34700	46500	63400	> 99.9	> 99.9
Dissolved oxygen (DO), field	µg/L		650	570	650	700	700
Oxidation reduction potential (ORP), field	millivolts		-182	-174	-178	-117	-117
pH, field	s.u.	7-8.5	7.39	7.45	7.70	7.34	7.34
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		11.1	10.9	10.8	10.1	10.1
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		733	860	608	> 999	> 999

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-12</i>	<i>Dock2-13</i>	<i>Dock2-13</i>		
<i>Sample ID:</i>	<i>GW-110905-Dock2-12-014</i>	<i>GW-110905-Dock2-12-015</i>	<i>GW-110905-Dock2-12-016</i>	<i>GW-111105-Dock2-13-001</i>	<i>GW-111105-Dock2-13-002</i>		
<i>Sample Date:</i>	<i>11/9/2005</i>	<i>11/9/2005</i>	<i>11/9/2005</i>	<i>11/11/2005</i>	<i>11/11/2005</i>		
<i>Sample Depth:</i>	<i>62 to 65 ft bml</i>	<i>67 to 70 ft bml</i>	<i>72 to 75 ft bml</i>	<i>4 to 7 ft bml</i>	<i>14 to 17 ft bml</i>		
<i>elev_MLLW</i>	<i>-98.6 to -101.6</i>	<i>-103.6 to -106.6</i>	<i>-108.6 to -111.6</i>	<i>-40.3 to -43.3</i>	<i>-50.3 to -53.3</i>		
<i>elev_NGVD</i>	<i>-104.9 to -107.9</i>	<i>-109.9 to -112.9</i>	<i>-114.9 to -117.9</i>	<i>-46.6 to -49.6</i>	<i>-56.6 to -59.6</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		38800	23800	28400	30400	21400
Dissolved oxygen (DO), field	µg/L		700	330	180	730	750
Oxidation reduction potential (ORP), field	millivolts		-166	-216	-206	-59	-90
pH, field	s.u.	7-8.5	7.88	8.27	8.23	7.80	7.73
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		10.3	11.4	11.3	11.3	11.1
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		> 999	> 999	> 999	199	591

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Dock2-13</i>	<i>Dock2-13</i>	<i>Dock2-13</i>	<i>Dock2-13</i>	<i>Dock2-13</i>		
<i>Sample ID:</i>	<i>GW-111105-Dock2-13-003</i>	<i>GW-111105-Dock2-13-004</i>	<i>GW-111105-Dock2-13-005</i>	<i>GW-111105-Dock2-13-006</i>	<i>GW-111105-Dock2-13-007</i>		
<i>Sample Date:</i>	<i>11/11/2005</i>	<i>11/11/2005</i>	<i>11/11/2005</i>	<i>11/11/2005</i>	<i>11/11/2005</i>		
<i>Sample Depth:</i>	<i>24 to 27 ft bml</i>	<i>34 to 37 ft bml</i>	<i>44 to 47 ft bml</i>	<i>54 to 57 ft bml</i>	<i>54 to 57 ft bml</i>		
<i>elev_MLLW</i>	<i>-60.3 to -63.3</i>	<i>-70.3 to -73.3</i>	<i>-80.3 to -83.3</i>	<i>-90.3 to -93.3</i>	<i>-90.3 to -93.3</i>		
<i>elev_NGVD</i>	<i>-66.6 to -69.6</i>	<i>-76.6 to -79.6</i>	<i>-86.6 to -89.6</i>	<i>-96.6 to -99.6</i>	<i>-96.6 to -99.6</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		18300	31200	41000	-	83000
Dissolved oxygen (DO), field	µg/L		1510	880	1180	-	860
Oxidation reduction potential (ORP), field	millivolts		-84	-133	-101	-111	-
pH, field	s.u.	7-8.5	7.44	7.37	7.47	7.62	-
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		10.9	10.6	10.6	-	10.7
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		175	651	393	> 999	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Dock2-13</i>	<i>Dock2-13</i>	<i>Dock2-13</i>	<i>Dock2-13</i>	<i>Dock2-14</i>		
<i>Sample ID:</i>	<i>GW-111105-Dock2-13-008</i>	<i>GW-111105-Dock2-13-009</i>	<i>GW-111105-Dock2-13-010</i>	<i>GW-111205-Dock2-13-011</i>	<i>GW-102805-Dock2-14-001</i>		
<i>Sample Date:</i>	<i>11/11/2005</i>	<i>11/11/2005</i>	<i>11/11/2005</i>	<i>11/12/2005</i>	<i>10/28/2005</i>		
<i>Sample Depth:</i>	<i>64 to 67 ft bml</i>	<i>74 to 77 ft bml</i>	<i>84 to 87 ft bml</i>	<i>94 to 97 ft bml</i>	<i>2 to 5 ft bml</i>		
<i>elev_MLLW</i>	<i>-100.3 to -103.3</i>	<i>-110.3 to -113.3</i>	<i>-120.3 to -123.3</i>	<i>-130.3 to -133.3</i>	<i>-36.8 to -39.8</i>		
<i>elev_NGVD</i>	<i>-106.6 to -109.6</i>	<i>-116.6 to -119.6</i>	<i>-126.6 to -129.6</i>	<i>-136.6 to -139.6</i>	<i>-43.1 to -46.1</i>		
Parameters	Units	CSI	WG				
Fparam							
Conductivity, field	umhos/cm		25600	28000	6230	13600	46200
Dissolved oxygen (DO), field	µg/L		960	1220	1220	1400	660
Oxidation reduction potential (ORP), field	millivolts		-137	-194	72	51	-221
pH, field	s.u.	7-8.5	8.24	8.22	8.14	7.92	8.07
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		10.6	10.2	9.6	10.5	12.2
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		> 999	> 999	> 999	354	999

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Dock2-14</i>	<i>Dock2-14</i>	<i>Dock2-14</i>	<i>Dock2-14</i>	<i>Dock2-14</i>
<i>Sample ID:</i>			<i>GW-102805-Dock2-14-002</i>	<i>GW-102805-Dock2-14-003</i>	<i>GW-102905-Dock2-14-004</i>	<i>GW-102905-Dock2-14-005</i>	<i>GW-102905-Dock2-14-006</i>
<i>Sample Date:</i>			<i>10/28/2005</i>	<i>10/28/2005</i>	<i>10/29/2005</i>	<i>10/29/2005</i>	<i>10/29/2005</i>
<i>Sample Depth:</i>			<i>12 to 15 ft bml</i>	<i>22 to 25 ft bml</i>	<i>32 to 35 ft bml</i>	<i>42 to 45 ft bml</i>	<i>52 to 55 ft bml</i>
<i>elev_MLLW</i>			<i>-46.8 to -49.8</i>	<i>-56.8 to -59.8</i>	<i>-66.8 to -69.8</i>	<i>-76.8 to -79.8</i>	<i>-86.8 to -89.8</i>
<i>elev_NGVD</i>			<i>-53.1 to -56.1</i>	<i>-63.1 to -66.1</i>	<i>-73.1 to -76.1</i>	<i>-83.1 to -86.1</i>	<i>-93.1 to -96.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		17600	36200	39800	45700	46800
Dissolved oxygen (DO), field	µg/L		640	620	760	1240	2010
Oxidation reduction potential (ORP), field	millivolts		-200	-258	-200	-173	-144
pH, field	s.u.	7-8.5	7.74	7.95	7.90	7.88	7.75
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		12.0	11.8	11.7	12.0	12.0
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		> 999	140	826	> 999	328

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-14</i>	<i>Dock2-14</i>	<i>Dock2-14</i>	<i>Dock2-14</i>	<i>Dock2-14</i>
<i>Sample ID:</i>		<i>GW-102905-Dock2-14-007</i>	<i>GW-103105-Dock2-14-008</i>	<i>GW-103105-Dock2-14-009</i>	<i>GW-103105-Dock2-14-010</i>	<i>GW-103105-Dock2-14-011</i>
<i>Sample Date:</i>		<i>10/29/2005</i>	<i>10/31/2005</i>	<i>10/31/2005</i>	<i>10/31/2005</i>	<i>10/31/2005</i>
<i>Sample Depth:</i>		<i>62 to 65 ft bml</i>	<i>72 to 75 ft bml</i>	<i>82 to 85 ft bml</i>	<i>92 to 95 ft bml</i>	<i>102 to 105 ft bml</i>
<i>elev_MLLW</i>		<i>-96.8 to -99.8</i>	<i>-106.8 to -109.8</i>	<i>-116.8 to -119.8</i>	<i>-126.8 to -129.8</i>	<i>-136.8 to -139.8</i>
<i>elev_NGVD</i>		<i>-103.1 to -106.1</i>	<i>-113.1 to -116.1</i>	<i>-123.1 to -126.1</i>	<i>-133.1 to -136.1</i>	<i>-143.1 to -146.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>		
<i>Fparam</i>						
Conductivity, field	umhos/cm	46400	44300	43800	43000	6040
Dissolved oxygen (DO), field	µg/L	1230	1280	1100	700	780
Oxidation reduction potential (ORP), field	millivolts	-191	-212	-215	-209	-214
pH, field	s.u.	7-8.5	7.93	7.91	7.97	7.82
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	7.93	12.6	12.6	13.0	12.5
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	523	140	> 999	> 999	> 999

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Dock2-14</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	
<i>Sample ID:</i>		<i>GW-103105-Dock2-14-012</i>	<i>GW-092205-EA-1-001</i>	<i>GW-092205-EA-1-002</i>	<i>GW-092205-EA-1-003</i>	<i>GW-092205-EA-1-004</i>	<i>GW-092305-EA-1-005</i>	
<i>Sample Date:</i>		<i>10/31/2005</i>	<i>9/22/2005</i>	<i>9/22/2005</i>	<i>9/22/2005</i>	<i>9/22/2005</i>	<i>9/23/2005</i>	
<i>Sample Depth:</i>		<i>112 to 115 ft bml</i>	<i>19.5 to 22.5 ft bgs</i>	<i>24.5 to 27.5 ft bgs</i>	<i>31.5 to 34.5 ft bgs</i>	<i>36.5 to 39.5 ft bgs</i>	<i>41.5 to 44.5 ft bgs</i>	
<i>elev_MLLW</i>		<i>-146.8 to -149.8</i>	<i>-1.5 to -4.5</i>	<i>-6.5 to -9.5</i>	<i>-13.5 to -16.5</i>	<i>-18.5 to -21.5</i>	<i>-23.5 to -26.5</i>	
<i>elev_NGVD</i>		<i>-153.1 to -156.1</i>	<i>-7.8 to -10.8</i>	<i>-12.8 to -15.8</i>	<i>-19.8 to -22.8</i>	<i>-24.8 to -27.8</i>	<i>-29.8 to -32.8</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm		2090	49100	> 99.9	69300	> 99.9	70000
Dissolved oxygen (DO), field	µg/L		830	2400	1280	2840	1920	2240
Oxidation reduction potential (ORP), field	millivolts		-185	-343	-329	-272	-292	-297
pH, field	s.u.	7-8.5	7.7	8.30	10.56	8.31	9.56	9.69
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		12.2	15.31	15.85	16.0	16.1	14.35
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		91.1	722	918	723	580	70

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>								
<i>Sample ID:</i>		<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>
<i>Sample Date:</i>		GW-092305-EA-1-006	GW-092305-EA-1-007	GW-092305-EA-1-008	GW-092605-EA-1-010	GW-092705-EA-1-011	GW-092705-EA-1-012	GW-092705-EA-1-013
<i>Sample Depth:</i>		9/23/2005	9/23/2005	9/23/2005	9/26/2005	9/27/2005	9/27/2005	9/27/2005
<i>elev_MLLW</i>		46.5 to 49.5 ft bgs	51.5 to 54.5 ft bgs	56.5 to 59.5 ft bgs	66.5 to 69.5 ft bgs	71.5 to 74.5 ft bgs	76.5 to 79.5 ft bgs	81.5 to 84.5 ft bgs
<i>elev_NGVD</i>		-28.5 to -31.5	-33.5 to -36.5	-38.5 to -41.5	-48.5 to -51.5	-53.5 to -56.5	-58.5 to -61.5	-63.5 to -66.5
<i>Parameters</i>		-34.8 to -37.8	-39.8 to -42.8	-44.8 to -47.8	-54.8 to -57.8	-59.8 to -62.8	-64.8 to -67.8	-69.8 to -72.8
<i>Units</i>								
<i>CSI WG</i>								
<i>Fparam</i>								
Conductivity, field	umhos/cm	> 99.9	> 99.9	> 99.9	> 99.9	97700	96700	> 99.9
Dissolved oxygen (DO), field	µg/L	1570	1340	1960	2100	1870	1980	2040
Oxidation reduction potential (ORP), field	millivolts	-337	-359	-298	-414	-381	-450	-444
pH, field	s.u.	7-8.5	7-8.5	8.24	9.86	9.18	10.93	9.39
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-
Temperature, field	deg c	15.49	16.19	16.98	17.81	16.49	17.11	17.62
Temperature, field	deg f	-	-	-	-	-	-	-
Turbidity, field	ntu	87	87	265	81.4	118	308	618

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>
<i>Sample ID:</i>			<i>GW-092705-EA-1-014</i>	<i>GW-092805-EA-1-015</i>	<i>GW-092805-EA-1-016</i>	<i>GW-092805-EA-1-017</i>	<i>GW-092805-EA-1-018</i>	<i>GW-100305-EA-1-019</i>	<i>GW-100305-EA-1-020</i>
<i>Sample Date:</i>			<i>9/27/2005</i>	<i>9/28/2005</i>	<i>9/28/2005</i>	<i>9/28/2005</i>	<i>9/28/2005</i>	<i>10/3/2005</i>	<i>10/3/2005</i>
<i>Sample Depth:</i>			<i>86.5 to 89.5 ft bgs</i>	<i>91.5 to 94.5 ft bgs</i>	<i>96.5 to 99.5 ft bgs</i>	<i>101.5 to 104.5 ft bgs</i>	<i>106.5 to 109.5 ft bgs</i>	<i>111.5 to 114.5 ft bgs</i>	<i>116.5 to 119.5 ft bgs</i>
<i>elev_MLLW</i>			<i>-68.5 to -71.5</i>	<i>-73.5 to -76.5</i>	<i>-78.5 to -81.5</i>	<i>-83.5 to -86.5</i>	<i>-88.5 to -91.5</i>	<i>-93.5 to -96.5</i>	<i>-98.5 to -101.5</i>
<i>elev_NGVD</i>			<i>-74.8 to -77.8</i>	<i>-79.8 to -82.8</i>	<i>-84.8 to -87.8</i>	<i>-89.8 to -92.8</i>	<i>-94.8 to -97.8</i>	<i>-99.8 to -102.8</i>	<i>-104.8 to -107.8</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>Fparam</i>									
Conductivity, field	umhos/cm		> 99.9	> 99.9	87500	89900	> 99.9	> 99.9	> 99.9
Dissolved oxygen (DO), field	µg/L		2440	1490	2100	2050	1980	1460	1800
Oxidation reduction potential (ORP), field	millivolts		-247	-489	-531	-543	-594	-526	-532
pH, field	s.u.	7-8.5	8.00	11.12	11.74	12.41	13.15	12.04	12.05
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-	-
Temperature, field	deg c		18.43	16.11	16.81	18.31	19.71	13.69	15.24
Temperature, field	deg f		-	-	-	-	-	-	-
Turbidity, field	ntu		263	322	318	177	357	205	808

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>	<i>EA-1</i>
<i>Sample ID:</i>		<i>GW-100405-EA-1-021</i>	<i>GW-100405-EA-1-022</i>	<i>GW-100405-EA-1-023</i>	<i>GW-100505-EA-1-024</i>	<i>GW-100505-EA-1-025</i>	<i>GW-100605-EA-1-026</i>	<i>GW-100605-EA-1-027</i>
<i>Sample Date:</i>		<i>10/4/2005</i>	<i>10/4/2005</i>	<i>10/4/2005</i>	<i>10/5/2005</i>	<i>10/5/2005</i>	<i>10/6/2005</i>	<i>10/6/2005</i>
<i>Sample Depth:</i>		<i>121.5 to 124.5 ft bgs</i>	<i>126.5 to 129.5 ft bgs</i>	<i>126.5 to 129.5 ft bgs</i>	<i>131.5 to 134.5 ft bgs</i>	<i>136.5 to 139.5 ft bgs</i>	<i>141.5 to 144.5 ft bgs</i>	<i>146.5 to 149.5 ft bgs</i>
<i>elev_MLLW</i>		<i>-103.5 to -106.5</i>	<i>-108.5 to -111.5</i>	<i>-108.5 to -111.5</i>	<i>-113.5 to -116.5</i>	<i>-118.5 to -121.5</i>	<i>-123.5 to -126.5</i>	<i>-128.5 to -131.5</i>
<i>elev_NGVD</i>		<i>-109.8 to -112.8</i>	<i>-114.8 to -117.8</i>	<i>-114.8 to -117.8</i>	<i>-119.8 to -122.8</i>	<i>-124.8 to -127.8</i>	<i>-129.8 to -132.8</i>	<i>-134.8 to -137.8</i>
<i>Parameters</i>	<i>Units</i>	<i>(Duplicate)</i>						
<i>Fparam</i>	<i>CSI WG</i>							
Conductivity, field	umhos/cm	> 99.9	> 99.9	> 99.9	> 99.9	81100	23800	15800
Dissolved oxygen (DO), field	µg/L	1390	1780	1780	1880	2380	3170	3350
Oxidation reduction potential (ORP), field	millivolts	-541	-530	-530	-503	-207	-208	-179
pH, field	s.u.	7-8.5	11.32	11.42	11.42	11.45	7.72	7.64
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-
Temperature, field	deg c	16.77	17.60	17.60	16.20	18.52	16.88	17.89
Temperature, field	deg f	-	-	-	-	-	-	-
Turbidity, field	ntu	301	196	196	-	715	182	54

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		EA-1	EA-2	EA-2	EA-2	EA-2	EA-2	EA-2	
<i>Sample ID:</i>		GW-100705-EA-1-028	GW-101005-EA-2-001	GW-101005-EA-2-002	GW-101005-EA-2-003	GW-101105-EA-2-004	GW-101105-EA-2-005	GW-101105-EA-2-006	
<i>Sample Date:</i>		10/7/2005	10/10/2005	10/10/2005	10/10/2005	10/11/2005	10/11/2005	10/11/2005	
<i>Sample Depth:</i>		151.5 to 154.5 ft bgs	15 to 18 ft bgs	20 to 23 ft bgs	25 to 28 ft bgs	30 to 33 ft bgs	35 to 38 ft bgs	40 to 43 ft bgs	
<i>elev_MLLW</i>		-133.5 to -136.5	3 to 0	-2 to -5	-7 to -10	-12 to -15	-17 to -20	-22 to -25	
<i>elev_NGVD</i>		-139.8 to -142.8	-3.3 to -6.3	-8.3 to -11.3	-13.3 to -16.3	-18.3 to -21.3	-23.3 to -26.3	-28.3 to -31.3	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>					
<i>Fparam</i>									
Conductivity, field	umhos/cm	15400	73700	41200	> 99.9	43900	40400	57500	
Dissolved oxygen (DO), field	µg/L	4020	2390	2710	1820	2690	2640	2520	
Oxidation reduction potential (ORP), field	millivolts	-146	-357	-343	-407	-332	-334	-434	
pH, field	s.u.	7-8.5	7.79	8.32	8.46	11.93	8.38	7.95	10.75
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	
Temperature, field	deg c	15.49	18.88	18.87	17.72	17.79	18.48	18.85	
Temperature, field	deg f	-	-	-	-	-	-	-	
Turbidity, field	ntu	476	219	845	377	348	73.4	432	

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	<i>EA-2</i>	
<i>Sample ID:</i>		<i>GW-101105-EA-2-007</i>	<i>GW-101105-EA-2-008</i>	<i>GW-101205-EA-2-009</i>	<i>GW-101205-EA-2-010</i>	<i>GW-101205-EA-2-011</i>	<i>GW-101205-EA-2-012</i>	<i>GW-101305-EA-2-013</i>	
<i>Sample Date:</i>		<i>10/11/2005</i>	<i>10/11/2005</i>	<i>10/12/2005</i>	<i>10/12/2005</i>	<i>10/12/2005</i>	<i>10/12/2005</i>	<i>10/13/2005</i>	
<i>Sample Depth:</i>		<i>45 to 48 ft bgs</i>	<i>50 to 53 ft bgs</i>	<i>55 to 58 ft bgs</i>	<i>60 to 63 ft bgs</i>	<i>65 to 68 ft bgs</i>	<i>70 to 73 ft bgs</i>	<i>75 to 78 ft bgs</i>	
<i>elev_MLLW</i>		<i>-27 to -30</i>	<i>-32 to -35</i>	<i>-37 to -40</i>	<i>-42 to -45</i>	<i>-47 to -50</i>	<i>-52 to -55</i>	<i>-57 to -60</i>	
<i>elev_NGVD</i>		<i>-33.3 to -36.3</i>	<i>-38.3 to -41.3</i>	<i>-43.3 to -46.3</i>	<i>-48.3 to -51.3</i>	<i>-53.3 to -56.3</i>	<i>-58.3 to -61.3</i>	<i>-63.3 to -66.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>Fparam</i>									
Conductivity, field	umhos/cm	68300	77000	72900	89900	78400	80700	83100	
Dissolved oxygen (DO), field	µg/L	2650	3060	2130	1890	1990	1980	2040	
Oxidation reduction potential (ORP), field	millivolts	-419	-451	-514	-527	-525	-490	-463	
pH, field	s.u.	7-8.5	10.89	11.01	11.18	11.39	11.02	11.02	10.53
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	
Temperature, field	deg c	19.69	20.45	18.30	19.24	18.20	17.48	16.18	
Temperature, field	deg f	-	-	-	-	-	-	-	
Turbidity, field	ntu	351	190	412	62.5	261.0	501	789	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		EA-2	EA-2	EA-2	EA-2	EA-2	EA-2	EA-2
<i>Sample ID:</i>		GW-101305-EA-2-014	GW-101305-EA-2-015	GW-101405-EA-2-016	GW-101405-EA-2-017	GW-101705-EA-2-018	GW-101705-EA-2-020	GW-101805-EA-2-021
<i>Sample Date:</i>		10/13/2005	10/13/2005	10/14/2005	10/14/2005	10/17/2005	10/17/2005	10/18/2005
<i>Sample Depth:</i>		80 to 83 ft bgs	85 to 88 ft bgs	90 to 93 ft bgs	95 to 98 ft bgs	100 to 103 ft bgs	110 to 113 ft bgs	115 to 118 ft bgs
<i>elev_MLLW</i>		-62 to -65	-67 to -70	-72 to -75	-77 to -80	-82 to -85	-92 to -95	-97 to -100
<i>elev_NGVD</i>		-68.3 to -71.3	-73.3 to -76.3	-78.3 to -81.3	-83.3 to -86.3	-88.3 to -91.3	-98.3 to -101.3	-103.3 to -106.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm	72500	99600	91200	> 99.9	> 99.9	> 99.9	> 99.9
Dissolved oxygen (DO), field	µg/L	2330	1950	1990	930	1750	2050	1510
Oxidation reduction potential (ORP), field	millivolts	-522	-528	-520	-601	-551	-533	-546
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-
Temperature, field	deg c	20.34	20.81	18.48	21.14	19.03	22.72	18.31
Temperature, field	deg f	-	-	-	-	-	-	-
Turbidity, field	ntu	624	74.8	172	193	-	94.3	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		EA-2	EA-2	EA-2	EA-2	EA-2	EA-2	EA-2	
<i>Sample ID:</i>		GW-101805-EA-2-022	GW-101805-EA-2-023	GW-101905-EA-2-024	GW-101905-EA-2-025	GW-102005-EA-2-026	GW-102005-EA-2-027	GW-102005-EA-2-028	
<i>Sample Date:</i>		10/18/2005	10/18/2005	10/19/2005	10/19/2005	10/20/2005	10/20/2005	10/20/2005	
<i>Sample Depth:</i>		115 to 118 ft bgs	120 to 123 ft bgs	125 to 128 ft bgs	130 to 133 ft bgs	135 to 138 ft bgs	140 to 143 ft bgs	145 to 148 ft bgs	
<i>elev_MLLW</i>		-97 to -100	-102 to -105	-107 to -110	-112 to -115	-117 to -120	-122 to -125	-127 to -130	
<i>elev_NGVD</i>		-103.3 to -106.3	-108.3 to -111.3	-113.3 to -116.3	-118.3 to -121.3	-123.3 to -126.3	-128.3 to -131.3	-133.3 to -136.3	
		(Duplicate)							
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>Fparam</i>									
Conductivity, field	umhos/cm	> 99.9	> 99.9	> 99.9	93600	65600	14000	12700	
Dissolved oxygen (DO), field	µg/L	1510	1530	210	50	530	1110	1560	
Oxidation reduction potential (ORP), field	millivolts	-546	-524	-522	-554	-212	-249	-167	
pH, field	s.u.	7-8.5	11.74	11.79	11.22	11.42	7.32	8.64	8.05
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	
Temperature, field	deg c	18.31	17.09	17.1	17.6	17.4	19.1	18.5	
Temperature, field	deg f	-	-	-	-	-	-	-	
Turbidity, field	ntu	-	136	572	-	> 999	42.0	345	

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-2</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	
<i>Sample ID:</i>		<i>GW-102105-EA-2-029</i>	<i>GW-102405-EA-3-001</i>	<i>GW-102505-EA-3-002</i>	<i>GW-102505-EA-3-003</i>	<i>GW-102505-EA-3-004</i>	<i>GW-102505-EA-3-005</i>	<i>GW-102505-EA-3-006</i>	
<i>Sample Date:</i>		<i>10/21/2005</i>	<i>10/24/2005</i>	<i>10/25/2005</i>	<i>10/25/2005</i>	<i>10/25/2005</i>	<i>10/25/2005</i>	<i>10/25/2005</i>	
<i>Sample Depth:</i>		<i>150 to 153 ft bgs</i>	<i>12 to 15 ft bgs</i>	<i>20 to 23 ft bgs</i>	<i>25 to 28 ft bgs</i>	<i>30 to 33 ft bgs</i>	<i>35 to 38 ft bgs</i>	<i>40 to 43 ft bgs</i>	
<i>elev_MLLW</i>		<i>-132 to -135</i>	<i>6 to 3</i>	<i>-2 to -5</i>	<i>-7 to -10</i>	<i>-12 to -15</i>	<i>-17 to -20</i>	<i>-22 to -25</i>	
<i>elev_NGVD</i>		<i>-138.3 to -141.3</i>	<i>-0.3 to -3.3</i>	<i>-8.3 to -11.3</i>	<i>-13.3 to -16.3</i>	<i>-18.3 to -21.3</i>	<i>-23.3 to -26.3</i>	<i>-28.3 to -31.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm		15600	45500	32000	32300	47100	53200	63700
Dissolved oxygen (DO), field	µg/L		820	430	580	340	460	400	350
Oxidation reduction potential (ORP), field	millivolts		-233	-363	-403	-444	-463	-484	-523
pH, field	s.u.	7-8.5	8.20	7.78	11.94	11.23	11.23	10.54	10.54
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-	-
Temperature, field	deg c		19.7	16.1	15.8	16.9	18	18.1	18.5
Temperature, field	deg f		-	-	-	-	-	-	-
Turbidity, field	ntu		-	13.6	-	-	370	777	448

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	
<i>Sample ID:</i>		<i>GW-102605-EA-3-007</i>	<i>GW-102605-EA-3-008</i>	<i>GW-102605-EA-3-009</i>	<i>GW-102605-EA-3-010</i>	<i>GW-102705-EA-3-011</i>	<i>GW-102705-EA-3-012</i>	<i>GW-102705-EA-3-013</i>	
<i>Sample Date:</i>		<i>10/26/2005</i>	<i>10/26/2005</i>	<i>10/26/2005</i>	<i>10/26/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	
<i>Sample Depth:</i>		<i>45 to 48 ft bgs</i>	<i>50 to 53 ft bgs</i>	<i>55 to 58 ft bgs</i>	<i>60 to 63 ft bgs</i>	<i>65 to 68 ft bgs</i>	<i>70 to 73 ft bgs</i>	<i>75 to 78 ft bgs</i>	
<i>elev_MLLW</i>		<i>-27 to -30</i>	<i>-32 to -35</i>	<i>-37 to -40</i>	<i>-42 to -45</i>	<i>-47 to -50</i>	<i>-52 to -55</i>	<i>-57 to -60</i>	
<i>elev_NGVD</i>		<i>-33.3 to -36.3</i>	<i>-38.3 to -41.3</i>	<i>-43.3 to -46.3</i>	<i>-48.3 to -51.3</i>	<i>-53.3 to -56.3</i>	<i>-58.3 to -61.3</i>	<i>-63.3 to -66.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>Fparam</i>									
Conductivity, field	umhos/cm	51400	50900	50400	67900	80500	86400	71500	
Dissolved oxygen (DO), field	µg/L	390	270	270	280	250	200	400	
Oxidation reduction potential (ORP), field	millivolts	-488	-506	-510	-538	-497	-506	-527	
pH, field	s.u.	7-8.5	11.51	11.83	11.95	11.7	12.07	11.99	12.15
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	
Temperature, field	deg c	16.6	17.1	18.3	19	16.1	17.1	18.6	
Temperature, field	deg f	-	-	-	-	-	-	-	
Turbidity, field	ntu	539	456	221	86.6	35.7	60.6	54.4	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	EA-3	
<i>Sample ID:</i>		GW-102705-EA-3-014	GW-102705-EA-3-015	GW-102805-EA-3-016	GW-102805-EA-3-017	GW-102805-EA-3-018	GW-103105-EA-3-019	GW-103105-EA-3-020	
<i>Sample Date:</i>		10/27/2005	10/27/2005	10/28/2005	10/28/2005	10/28/2005	10/31/2005	10/31/2005	
<i>Sample Depth:</i>		80 to 83 ft bgs	85 to 88 ft bgs	90 to 93 ft bgs	95 to 98 ft bgs	95 to 98 ft bgs	100 to 103 ft bgs	105 to 108 ft bgs	
<i>elev_MLLW</i>		-62 to -65	-67 to -70	-72 to -75	-77 to -80	-77 to -80	-82 to -85	-87 to -90	
<i>elev_NGVD</i>		-68.3 to -71.3	-73.3 to -76.3	-78.3 to -81.3	-83.3 to -86.3	-83.3 to -86.3 (Duplicate)	-88.3 to -91.3	-93.3 to -96.3	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>Fparam</i>									
Conductivity, field	umhos/cm	> 99.9	92000	> 99.9	> 99.9	> 99.9	98100	> 99.9	
Dissolved oxygen (DO), field	µg/L	260	210	290	250	250	130	210	
Oxidation reduction potential (ORP), field	millivolts	-592	-558	-551	-554	-554	-529	-494	
pH, field	s.u.	7-8.5	13.77	12.56	13.77	12	12	12.5	12.19
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	
Temperature, field	deg c	18.6	18.6	14.9	17.1	17.1	15.1	17	
Temperature, field	deg f	-	-	-	-	-	-	-	
Turbidity, field	ntu	145	-	207	112	112	469	228	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>
<i>Sample ID:</i>		<i>GW-110105-DC-EA-3-021</i>	<i>GW-110105-DC-EA-3-022</i>	<i>GW-110205-EA-3-023</i>	<i>GW-110205-EA-3-024</i>	<i>GW-110305-EA-3-025</i>	<i>GW-110305-EA-3-026</i>
<i>Sample Date:</i>		<i>11/1/2005</i>	<i>11/1/2005</i>	<i>11/2/2005</i>	<i>11/2/2005</i>	<i>11/3/2005</i>	<i>11/3/2005</i>
<i>Sample Depth:</i>		<i>110 to 113 ft bgs</i>	<i>115 to 118 ft bgs</i>	<i>120 to 123 ft bgs</i>	<i>125 to 128 ft bgs</i>	<i>130 to 133 ft bgs</i>	<i>135 to 138 ft bgs</i>
<i>elev_MLLW</i>		<i>-92 to -95</i>	<i>-97 to -100</i>	<i>-102 to -105</i>	<i>-107 to -110</i>	<i>-112 to -115</i>	<i>-117 to -120</i>
<i>elev_NGVD</i>		<i>-98.3 to -101.3</i>	<i>-103.3 to -106.3</i>	<i>-108.3 to -111.3</i>	<i>-113.3 to -116.3</i>	<i>-118.3 to -121.3</i>	<i>-123.3 to -126.3</i>
Parameters	Units	CSI		WG			
Fparam							
Conductivity, field	umhos/cm	> 99.9	> 99.9	> 99.9	86300	52800	31400
Dissolved oxygen (DO), field	µg/L	140	80	90	130	520	0
Oxidation reduction potential (ORP), field	millivolts	-506	-480	-483	-169	-175	-420
pH, field	s.u.	7-8.5	11.85	11.73	11.82	7.65	7.34
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	16.3	15.5	14.1	14.7	16	16.8
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	-	391	530	-	8.8	-

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>EA-3</i>	<i>ESI-1-10</i>	<i>ESI-1-10</i>	
<i>Sample ID:</i>		<i>GW-110305-EA-3-027</i>	<i>GW-110405-EA-3-028</i>	<i>GW-110405-EA-3-029</i>	<i>GW-110705-EA-3-030</i>	<i>GW-38019-CC-ESI-1-10-15</i>	<i>GW-38019-CC-ESI-1-10-25</i>	
<i>Sample Date:</i>		<i>11/3/2005</i>	<i>11/4/2005</i>	<i>11/4/2005</i>	<i>11/7/2005</i>	<i>2/2/2004</i>	<i>2/2/2004</i>	
<i>Sample Depth:</i>		<i>140 to 143 ft bgs</i>	<i>145 to 148 ft bgs</i>	<i>150 to 153 ft bgs</i>	<i>155 to 158 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	
<i>elev_MLLW</i>		<i>-122 to -125</i>	<i>-127 to -130</i>	<i>-132 to -135</i>	<i>-137 to -140</i>	<i>2.92</i>	<i>-7.08</i>	
<i>elev_NGVD</i>		<i>-128.3 to -131.3</i>	<i>-133.3 to -136.3</i>	<i>-138.3 to -141.3</i>	<i>-143.3 to -146.3</i>	<i>-3.4</i>	<i>-13.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm		16000	17400	18700	18700	23700	30400
Dissolved oxygen (DO), field	µg/L		540	230	260	950	-	-
Oxidation reduction potential (ORP), field	millivolts		-242	-271	-174	-142	-305.0 Dup -305.0	-324.0 Dup -324.0
pH, field	s.u.	7-8.5	8.26	9.4	8.14	7.75	8.4	11.5
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		16.5	15.2	17	16.5	14.3	16.1
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		8.5	229	-	62.8	40.8	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	<i>ESI-1-10</i>	<i>ESI-1-1</i>	<i>ESI-1-1</i>	<i>ESI-1-1</i>	<i>ESI-1-1</i>	<i>ESI-1-1</i>	<i>ESI-1-1</i>	<i>ESI-1-1</i>	<i>ESI-1-3</i>
Sample ID:	<i>GW-38019-CC-ESI-1-10-48</i>	<i>GGW-07842-JP-111102-001</i>	<i>ESI-1-2</i>	<i>GGW-07842-JP-111202-002</i>	<i>ESI-1-2</i>	<i>ESI-1-2</i>	<i>ESI-1-2</i>	<i>ESI-1-2</i>	<i>ESI-1-3</i>
Sample Date:	<i>2/2/2004</i>	<i>11/11/2002</i>	<i>11/11/2002</i>	<i>11/12/2002</i>	<i>11/11/2002</i>	<i>11/11/2002</i>	<i>11/12/2002</i>	<i>11/12/2002</i>	<i>11/12/2002</i>
Sample Depth:	<i>48 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>50 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>15 ft bgs</i>	
elev_MLLW	<i>-30.08</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-32.08</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-82.08</i>	<i>2.92</i>	
elev_NGVD	<i>-36.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-38.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-88.4</i>	<i>-3.4</i>	

Parameters	Units	CSI	WG								
Fparam											
Conductivity, field	umhos/cm			31800	71500	-	66900	> 100.0	57300	> 100.0	70300
Dissolved oxygen (DO), field	µg/L			-	-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts			-443.0 Dup	-443.0	-	-	-	-	-	-37.7 Dup
pH, field	s.u.	7-8.5		9.4	11.3	-	10.4	11.2	10.5	12.8	9.0
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-	-
Temperature, field	deg c			16.7	16.2	19.5	18.5	18.4	-	17.4	17.9
Temperature, field	deg f			-	-	-	-	-	-	-	-
Turbidity, field	ntu			> 999	-10	-	999	-10	999	19	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	ESI-1-3	ESI-1-3	ESI-1-3	ESI-1-4	ESI-1-4	ESI-1-4	ESI-1-5		
Sample ID:	ESI-1-3	ESI-1-3	ESI-1-3	GGW-07842-JP-111202-003	GGW-07842-JP-111202-004	GGW-07842-JP-111202-006	ESI-1-5		
Sample Date:	11/13/2002	11/13/2002	11/13/2002	11/12/2002	11/12/2002	11/12/2002	12/4/2002		
Sample Depth:	25 ft bgs	50 ft bgs	86 ft bgs	27 ft bgs	50 ft bgs	100 ft bgs	15 ft bgs		
elev_MLLW	-7.08	-32.08	-68.08	-9.08	-32.08	-82.08	2.92		
elev_NGVD	-13.4	-38.4	-74.4	-15.4	-38.4	-88.4	-3.4		
Parameters	Units	CSI WG							
Fparam									
Conductivity, field	umhos/cm	65300	42200	75100	70300	52.5	162200	61200	
Dissolved oxygen (DO), field	µg/L	-	-	-	-	-	-	-	
Oxidation reduction potential (ORP), field	millivolts	-99.8 Dup -99.8	-125.6 Dup -125.6	-219.0 Dup -219.0	20.4 Dup 20.4	13.2 Dup 13.2	-106.6 Dup -106.6	156.0 Dup 156.0	
pH, field	s.u.	7-8.5	12.7	10.0	12.1	11.5	10.8	13.7	10.6
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	
Temperature, field	deg c	17.7	20.2	23.1	17.2	17.3	18.4	17.1	
Temperature, field	deg f	-	-	-	-	-	-	-	
Turbidity, field	ntu	-	-	-	-	-	-	112	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	ESI-1-5	ESI-1-5	ESI-1-5	ESI-1-6	ESI-1-6	ESI-1-6	ESI-1-6
Sample ID:	ESI-1-5	ESI-1-5	ESI-1-5	GW-020404-CC-ESI-1-6-15	GW-020404-CC-ESI-1-6-25	GW-020404-CC-ESI-1-6-50	GW-020404-CC-ESI-1-6-83
Sample Date:	12/4/2002	12/4/2002	12/4/2002	2/4/2004	2/4/2004	2/4/2004	2/4/2004
Sample Depth:	25 ft bgs	50 ft bgs	79 ft bgs	15 ft bgs	25 ft bgs	50 ft bgs	83 ft bgs
elev_MLLW	-7.08	-32.08	-61.08	2.92	-7.08	-32.08	-65.08
elev_NGVD	-13.4	-38.4	-67.4	-3.4	-13.4	-38.4	-71.4

Parameters **Units** **CSI WG**

Fparam									
Conductivity, field	umhos/cm		57200	56700	78300	36.8	79900	47100	47400
Dissolved oxygen (DO), field	µg/L		-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts		98.1 Dup 98.1	76.7 Dup 76.7	27.5 Dup 27.5	-207.0 Dup -207.0	-330.0	-505.0 Dup -505.0	-578.0 Dup -578.0
pH, field	s.u.	7-8.5	13.3	9.7	11.6	8.0	10.1	7.7	11.1
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-	-
Temperature, field	deg c		17.9	17.9	16.7	14.9	16.9	19.1	18.6
Temperature, field	deg f		-	-	-	-	-	-	-
Turbidity, field	ntu		999	757	106	621	> 999	> 999	-10.0

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>ESI-1-7</i>	<i>ESI-1-7</i>	<i>ESI-1-7</i>	<i>ESI-1-8</i>	<i>ESI-1-8</i>
<i>Sample ID:</i>		<i>GW-38020-CC-ESI-1-07-15</i>	<i>GW-38020-CC-ESI-1-07-25</i>	<i>GW-38020-CC-ESI-1-07-50</i>	<i>GW-020304-CC-ESI-1-8-15</i>	<i>GW-020404-CC-ESI-1-8-15</i>
<i>Sample Date:</i>		<i>2/3/2004</i>	<i>2/3/2004</i>	<i>2/3/2004</i>	<i>2/3/2004</i>	<i>2/3/2004</i>
<i>Sample Depth:</i>		<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>15 ft bgs</i>
<i>elev_MLLW</i>		<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>	<i>2.92</i>	<i>2.92</i>
<i>elev_NGVD</i>		<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-3.4</i>	<i>-3.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>		
<i>Fparam</i>						
Conductivity, field	umhos/cm	58000	57800	35400	-	21100
Dissolved oxygen (DO), field	µg/L	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts	-295.0 Dup -295.0	-463.0 Dup -463.0	-585.0 Dup -585.0	-243.0	-243.0
pH, field	s.u.	7-8.5	8.1	12.1	11.2	7.9
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	14.7	16.8	20.2	14.5	-
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	271.0	> 999	-10.0	-	41.0

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>ESI-1-8</i>	<i>ESI-1-8</i>	<i>ESI-1-9</i>	<i>ESI-1-9</i>	<i>ESI-1-9</i>	<i>ESI-2-10</i>
<i>Sample ID:</i>		<i>GW-020404-CC-ESI-1-8-25</i>	<i>GW-020404-CC-ESI-1-8-50</i>	<i>GW-38019-CC-ESI-1-09-15</i>	<i>GW-38020-CC-ESI-1-09-25</i>	<i>GW-38020-CC-ESI-1-09-50</i>	<i>ESI-2-10</i>
<i>Sample Date:</i>		<i>2/4/2004</i>	<i>2/4/2004</i>	<i>2/2/2004</i>	<i>2/3/2004</i>	<i>2/3/2004</i>	<i>11/24/2002</i>
<i>Sample Depth:</i>		<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>
<i>elev_MLLW</i>		<i>-7.08</i>	<i>-32.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>	<i>2.92</i>
<i>elev_NGVD</i>		<i>-13.4</i>	<i>-38.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-3.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	45000	28100	34200	24700	36900	21600
Dissolved oxygen (DO), field	µg/L	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts	-457.0 Dup -457.0	-456.0 Dup -456.0	-323.0 Dup -323.0	-292.0 Dup -292.0	-532.0 Dup -532.0	-
pH, field	s.u.	7-8.5	12.3	8.3	10.4	11.0	7.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	16.0	18.2	14.8	15.4	17.6	13.2
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	174	> 999	379.0	76.5	-10.0	43

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	<i>ESI-2-10</i>	<i>ESI-2-10</i>	<i>ESI-2-10</i>	<i>ESI-2-1</i>	<i>ESI-2-1</i>	<i>ESI-2-1</i>	<i>ESI-2-11</i>	<i>ESI-2-11</i>	<i>ESI-2-11</i>	<i>ESI-2-12</i>
Sample ID:	<i>ESI-2-10</i>	<i>ESI-2-10</i>	<i>ESI-2-10</i>	<i>ESI-2-1</i>	<i>ESI-2-1</i>	<i>ESI-2-1</i>	<i>ESI-2-11</i>	<i>ESI-2-11</i>	<i>ESI-2-11</i>	<i>ESI-2-12</i>
Sample Date:	11/25/2002	11/25/2002	11/25/2002	11/13/2002	11/13/2002	11/13/2002	11/27/2002	11/27/2002	11/27/2002	11/27/2002
Sample Depth:	25 ft bgs	50 ft bgs	100 ft bgs	15 ft bgs	25 ft bgs	33 ft bgs	15 ft bgs	25 ft bgs	50 ft bgs	15 ft bgs
elev_MLLW	-7.08	-32.08	-82.08	2.92	-7.08	-15.08	2.92	-7.08	-32.08	2.92
elev_NGVD	-13.4	-38.4	-88.4	-3.4	-13.4	-21.4	-3.4	-13.4	-38.4	-3.4

Parameters **Units** **CSI WG**

Fparam												
Conductivity, field	umhos/cm		40700	29800	4900	12500	15600	24500	32500	12700	39000	40200
Dissolved oxygen (DO), field	µg/L		-	-	-	-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts		-	-	-	21.3 Dup 21.3	17.2 Dup 17.2	-108.6 Dup -108.6	143.3 Dup 143.3	118.9 Dup 118.9	94.2 Dup 94.2	17.9 Dup 17.9
pH, field	s.u.	7-8.5	11.7	7.6	8.3	9.5	9.8	11.5	8.6	11.4	9.8	9.2
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-	-	-	-	-
Temperature, field	deg c		12.6	13.6	13.5	17.3	19.1	20.2	10.3	12.1	12.4	11.8
Temperature, field	deg f		-	-	-	-	-	-	-	-	-	-
Turbidity, field	ntu		118	103	93	-	-	-	101	94	999	107

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	<i>ESI-2-13</i>	<i>ESI-2-13</i>	<i>ESI-2-13</i>	<i>ESI-2-13</i>	<i>ESI-2-14</i>	<i>ESI-2-14</i>	<i>ESI-2-14</i>	<i>ESI-2-14</i>
Sample ID:	<i>ESI-2-13</i>	<i>ESI-2-13</i>	<i>ESI-2-13</i>	<i>ESI-2-13</i>	<i>GGW-07842-JP-120202-012</i>	<i>ESI-2-14</i>	<i>ESI-2-14</i>	<i>GGW-07842-JP-120202-013</i>
Sample Date:	<i>11/30/2002</i>	<i>12/2/2002</i>	<i>12/2/2002</i>	<i>12/2/2002</i>	<i>12/2/2002</i>	<i>12/2/2002</i>	<i>12/2/2002</i>	<i>12/2/2002</i>
Sample Depth:	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>99 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>
elev_MLLW	<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-81.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-82.08</i>
elev_NGVD	<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-87.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-88.4</i>

Parameters	Units	CSI	WG								
Fparam											
Conductivity, field	umhos/cm			45900	25500	63300	35900	23800	21300	56700	38800
Dissolved oxygen (DO), field	µg/L			-	-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts			232.9 Dup 232.9	185.3 Dup 185.3	169.1 Dup 169.1	172.0 Dup 172.0	156.0 Dup 156.0	165.0 Dup 165.0	116.2 Dup 116.2	152.4 Dup 152.4
pH, field	s.u.	7-8.5		8.0	8.4	8.5	8.0	7.2	7.6	8.4	7.8
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-	-
Temperature, field	deg c			10.1	13.1	13.2	13.3	12.1	13.4	13.3	13.5
Temperature, field	deg f			-	-	-	-	-	-	-	-
Turbidity, field	ntu			62	86	107	999	113	846	98	999

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	ESI-2-15	ESI-2-15	ESI-2-15	ESI-2-15	ESI-2-16	ESI-2-16	ESI-2-16	ESI-2-17			
Sample ID:	ESI-2-15	ESI-2-15	ESI-2-15	ESI-2-15	ESI-2-16	ESI-2-16	ESI-2-16	GGW-07842-JP-111802-007			
Sample Date:	11/18/2002	11/18/2002	11/18/2002	11/18/2002	11/19/2002	11/20/2002	11/20/2002	11/18/2002			
Sample Depth:	15 ft bgs	25 ft bgs	50 ft bgs	75 ft bgs	25 ft bgs	50 ft bgs	71 ft bgs	15 ft bgs			
elev_MLLW	2.92	-7.08	-32.08	-57.08	-7.08	-32.08	-53.08	2.92			
elev_NGVD	-3.4	-13.4	-38.4	-63.4	-13.4	-38.4	-59.4	-3.4			
Parameters	Units	CSI	WG								
Fparam											
Conductivity, field	umhos/cm			11800	27800	38600	85800	20400	39700	78100	6400
Dissolved oxygen (DO), field	µg/L			-	-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts			48.1 Dup 48.1	6.0 Dup 6.0	-105.2 Dup -105.2	-158.7 Dup -158.7	48.3 Dup 48.3	-80.9 Dup -80.9	-120.6 Dup -120.6	-23.6 Dup -23.6
pH, field	s.u.	7-8.5		10.7	12.3	11.6	11.5	11.1	11.2	10.8	11.7
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-	-
Temperature, field	deg c			17.4	20.7	20.1	16.5	17.4	17.5	17.6	15.2
Temperature, field	deg f			-	-	-	-	-	-	-	-
Turbidity, field	ntu			-	-	-	-	-	-	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	ESI-2-17	ESI-2-17	ESI-2-17	ESI-2-18	ESI-2-18	ESI-2-19	ESI-2-19	ESI-2-20		
Sample ID:	GGW-07842-JP-111902-009	GGW-07842-JP-111902-010	GGW-07842-JP-111902-011	ESI-2-18	ESI-2-18	ESI-2-19	ESI-2-19	ESI-2-20		
Sample Date:	11/19/2002	11/19/2002	11/19/2002	11/20/2002	11/20/2002	11/21/2002	11/21/2002	11/26/2002		
Sample Depth:	25 ft bgs	50 ft bgs	100 ft bgs	15 ft bgs	100 ft bgs	15 ft bgs	25 ft bgs	15 ft bgs		
elev_MLLW	-7.08	-32.08	-82.08	2.92	-82.08	2.92	-7.08	2.92		
elev_NGVD	-13.4	-38.4	-88.4	-3.4	-88.4	-3.4	-13.4	-3.4		
Parameters	Units	CSI	WG							
Fparam										
Conductivity, field	umhos/cm	16000	48200	128600	12400	99700	27000	21800	19600	
Dissolved oxygen (DO), field	µg/L	-	-	-	-	-	-	-	-	
Oxidation reduction potential (ORP), field	millivolts	-20.8 Dup -20.8	-149.6 Dup -149.6	-1.2 Dup -1.2	33.5 Dup 33.5	31.2 Dup 31.2	65.0 Dup 65.0	19.2	110.5	
pH, field	s.u.	7-8.5	11.2	11.5	7.3	11.4	7.6	12.7	11.2	13.3
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-	
Temperature, field	deg c	16.0	16.5	15.5	16.4	17.3	16.5	12.0	15.1	
Temperature, field	deg f	-	-	-	-	-	-	-	-	
Turbidity, field	ntu	-	-	-	-	-	-	-	300	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	ESI-2-20	ESI-2-20	ESI-2-20	ESI-2-2	ESI-2-2	ESI-2-2	ESI-2-2	ESI-2-2	ESI-2-21	ESI-2-21	ESI-2-22	ESI-2-22		
Sample ID:	ESI-2-20	ESI-2-20	ESI-2-20	ESI-2-2	ESI-2-2	ESI-2-2	ESI-2-2	ESI-2-2	ESI-2-21	ESI-2-21	ESI-2-22	ESI-2-22		
Sample Date:	11/26/2002	11/27/2002	11/27/2002	11/14/2002	11/14/2002	11/14/2002	11/14/2002	11/14/2002	11/22/2002	11/24/2002	11/26/2002	11/26/2002		
Sample Depth:	25 ft bgs	50 ft bgs	85 ft bgs	15 ft bgs	25 ft bgs	50 ft bgs	100 ft bgs	25 ft bgs	50 ft bgs	15 ft bgs	50 ft bgs			
elev_MLLW	-7.08	-32.08	-67.08	2.92	-7.08	-32.08	-82.08	-7.08	-32.08	2.92	-32.08			
elev_NGVD	-13.4	-38.4	-73.4	-3.4	-13.4	-38.4	-88.4	-13.4	-38.4	-3.4	-38.4			
Parameters	Units	CSI	WG											
Fparam														
Conductivity, field	umhos/cm			22400	48800	67100	102500	144700	375600	489800	29400	71600	4900	42600
Dissolved oxygen (DO), field	µg/L			-	-	-	-	-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts			92.8	165.8	147.1	20.0	-239.0 Dup -239.0	-419.0	-305.0	48.8	-	122.9	128.2
pH, field	s.u.	7-8.5		11.8	8.5	8.4	10.0	8.4	10.7	7.5	11.9	7.6	11.7	7.7
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-	-	-	-	-
Temperature, field	deg c			13.1	11.1	15.0	16.6	18.0	19.5	20.7	15.6	12.4	12.5	13.8
Temperature, field	deg f			-	-	-	-	-	-	-	-	-	-	-
Turbidity, field	ntu			116	110	999	259	573.3	8.8	0	-	815	97	999

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	ESI-2-23	ESI-2-23	ESI-2-24	ESI-2-24	ESI-2-24	ESI-2-24	ESI-2-24	ESI-2-25	ESI-2-25	ESI-2-25	ESI-2-25	ESI-2-25	ESI-2-25		
Sample ID:	ESI-2-23	ESI-2-23	ESI-2-24	ESI-2-24	ESI-2-24	ESI-2-24	ESI-2-24	ESI-2-25	ESI-2-25(2)	ESI-2-25	ESI-2-25(2)	ESI-2-25	ESI-2-25(2)		
Sample Date:	11/24/2002	11/24/2002	11/25/2002	11/25/2002	11/25/2002	11/25/2002	11/25/2002	11/30/2002	12/3/2002	11/30/2002	12/3/2002	11/30/2002	12/3/2002		
Sample Depth:	15 ft bgs	50 ft bgs	15 ft bgs	25 ft bgs	50 ft bgs	95 ft bgs	15 ft bgs	15 ft bgs	25 ft bgs	25 ft bgs	50 ft bgs	50 ft bgs	50 ft bgs		
elev_MLLW	2.92	-32.08	2.92	-7.08	-32.08	-77.08	2.92	2.92	-7.08	-7.08	-32.08	-32.08	-32.08		
elev_NGVD	-3.4	-38.4	-3.4	-13.4	-38.4	-83.4	-3.4	-3.4	-13.4	-13.4	-38.4	-38.4	-38.4		
Parameters	Units	CSI	WG												
Fparam															
Conductivity, field	umhos/cm			14800	58500	9800	60500	54600	5000	40900	83400	26600	27000	70100	66100
Dissolved oxygen (DO), field	µg/L			-	-	-	-	-	-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts			-	-	-	-	-	282.3	182.9	235.1	170.9	231.1	170.4	
pH, field	s.u.	7-8.5		9.2	8.2	9.6	11.8	9.5	7.8	8.5	8.1	11.4	9.7	9.1	8.5
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-	-	-	-	-	-
Temperature, field	deg c			14.1	15.0	14.0	12.6	15.4	13.9	11.8	11.9	8.7	10.9	13.0	12.2
Temperature, field	deg f			-	-	-	-	-	-	-	-	-	-	-	-
Turbidity, field	ntu			-10	999	101	104	999	99	15	12	96	120	999	999

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		ESI-2-26	ESI-2-26	ESI-2-26	ESI-2-26	ESI-2-27	ESI-2-27	ESI-2-28	ESI-2-28	ESI-2-28	ESI-2-28	ESI-2-28	ESI-2-29	
<i>Sample ID:</i>		ESI-2-26	ESI-2-26	ESI-2-26	ESI-2-26	ESI-2-27	ESI-2-27	ESI-2-28	ESI-2-28	ESI-2-28	ESI-2-28(2)	GW-012904-CC-ESI-2-29-15		
<i>Sample Date:</i>		11/29/2002	11/29/2002	11/30/2002	11/30/2002	11/29/2002	11/29/2002	12/3/2002	12/3/2002	12/3/2002	12/4/2002	1/29/2004		
<i>Sample Depth:</i>		15 ft bgs	25 ft bgs	50 ft bgs	94 ft bgs	25 ft bgs	50 ft bgs	15 ft bgs	25 ft bgs	50 ft bgs	50 ft bgs	15 ft bgs		
<i>elev_MLLW</i>		2.92	-7.08	-32.08	-76.08	-7.08	-32.08	2.92	-7.08	-32.08	-32.08	2.92		
<i>elev_NGVD</i>		-3.4	-13.4	-38.4	-82.4	-13.4	-38.4	-3.4	-13.4	-38.4	-38.4	-3.4		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>											
<i>Fparam</i>														
Conductivity, field	umhos/cm			44200	11000	140700	37100	43300	40500	9100	12600	61200	56200	10000
Dissolved oxygen (DO), field	µg/L			-	-	-	-	-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts			162.4	160.3	108.3	175.3	157.2	110.3	160.7	164.6	81.7	49.8	-314.0
pH, field	s.u.	7-8.5		7.2	10.3	9.0	7.9	11.9	12.4	6.3	11.0	8.9	9.1	12.5
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-	-	-	-	-
Temperature, field	deg c			12.9	14.0	13.3	13.4	18.5	19.5	10.1	12.9	12.4	13.2	13.5
Temperature, field	deg f			-	-	-	-	-	-	-	-	-	-	-
Turbidity, field	ntu			117	129	999	999	95	999	100	106	102	104	393.0

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	ESI-2-29	ESI-2-29	ESI-2-30	ESI-2-30	ESI-2-31	ESI-2-31	ESI-2-32			
Sample ID:	GW-012904-CC-ESI-2-29-25	GW-012904-CC-ESI-2-29-50	ESI-2-30	ESI-2-30	GW-012704-CC-ESI-2-31-15	GW-012704-CC-ESI-2-31-25	ESI-2-32			
Sample Date:	1/29/2004	1/29/2004	1/28/2004	1/28/2004	1/27/2004	1/27/2004	1/27/2004			
Sample Depth:	25 ft bgs	50 ft bgs	15 ft bgs	25 ft bgs	15 ft bgs	25 ft bgs	15 ft bgs			
elev_MLLW	-7.08	-32.08	2.92	-7.08	2.92	-7.08	2.92			
elev_NGVD	-13.4	-38.4	-3.4	-13.4	-3.4	-13.4	-3.4			
Parameters	Units	CSI	WG							
Fparam										
Conductivity, field	umhos/cm			11600	14400 Dup 14.4	11800	17300	13000	24700	10000
Dissolved oxygen (DO), field	µg/L			-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts			-317.0	-506.0	-300.0	-291.0	-419.0	-463.0	-330.0
pH, field	s.u.	7-8.5		11.7	10.4	13.0	11.6	13.0	12.0	11.3
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-
Temperature, field	deg c			14.5	12.4	14.3	15.2	13.4	14.2	13.2
Temperature, field	deg f			-	-	-	-	-	-	-
Turbidity, field	ntu			448.0	-10	166	11.6	186.0	23.3	158.0

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	<i>ESI-2-32</i>	<i>ESI-2-33</i>	<i>ESI-2-33</i>	<i>ESI-2-34</i>	<i>ESI-2-34</i>	<i>ESI-2-35</i>	<i>ESI-2-35</i>	<i>ESI-2-36</i>	<i>ESI-2-36</i>
Sample ID:	<i>ESI-2-32</i>	<i>ESI-2-33</i>	<i>ESI-2-33</i>	<i>ESI-2-34</i>	<i>ESI-2-34</i>	<i>ESI-2-35</i>	<i>GW-38019-CC-ESI-2-35-25</i>	<i>GW-012904-CC-ESI-2-36-15</i>	<i>GW-012904-CC-ESI-2-36-25</i>
Sample Date:	<i>1/27/2004</i>	<i>1/29/2004</i>	<i>1/30/2004</i>	<i>1/26/2004</i>	<i>1/26/2004</i>	<i>1/30/2004</i>	<i>2/2/2004</i>	<i>1/29/2004</i>	<i>1/29/2004</i>
Sample Depth:	<i>25 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>
elev_MLLW	<i>-7.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>2.92</i>	<i>-7.08</i>
elev_NGVD	<i>-13.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-3.4</i>	<i>-13.4</i>

Parameters	Units	CSI	WG							
Fparam										
Conductivity, field	umhos/cm			26400	10200	24800	29600	38200	9800	23300
Dissolved oxygen (DO), field	µg/L			-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts			-492.0	-253.0	-412.0	-324.0	-400.0	-299.0	-470.0
pH, field	s.u.	7-8.5		11.8	12.9	12.1	13.3	12.5	12.7	12.3
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-
Temperature, field	deg c			14.4	14.1	14.0	13.0	14.4	12.9	13.1
Temperature, field	deg f			-	-	-	-	-	-	-
Turbidity, field	ntu			63.5	13.2	201.0	34.5	29.0	317.0	5.5

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>ESI-2-36</i>	<i>ESI-2-37</i>	<i>ESI-2-37</i>	<i>ESI-2-38</i>	<i>ESI-2-38</i>	<i>ESI-2-39</i>	<i>ESI-2-39</i>	<i>ESI-2-40</i>	<i>ESI-2-40</i>	
<i>Sample ID:</i>		<i>GW-020204-CC-ESI-2-36-49</i>	<i>ESI-2-37</i>	<i>ESI-2-37</i>	<i>ESI-2-38</i>	<i>ESI-2-38</i>	<i>ESI-2-39</i>	<i>ESI-2-39</i>	<i>GW-012204-CC-ESI-2-40-15</i>	<i>GW-012204-CC-ESI-2-40-25</i>	
<i>Sample Date:</i>		<i>2/2/2004</i>	<i>1/28/2004</i>	<i>1/28/2004</i>	<i>1/21/2004</i>	<i>1/21/2004</i>	<i>1/22/2004</i>	<i>1/22/2004</i>	<i>1/22/2004</i>	<i>1/22/2004</i>	
<i>Sample Depth:</i>		<i>49 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	
<i>elev_MLLW</i>		<i>-31.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>2.92</i>	<i>-7.08</i>	
<i>elev_NGVD</i>		<i>-37.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-3.4</i>	<i>-13.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>									
<i>Fparam</i>											
Conductivity, field	umhos/cm	29400	9900	15400	14300	11900	25600	23700	24500	12600	
Dissolved oxygen (DO), field	µg/L	-	-	-	-	-	-	-	-	-	
Oxidation reduction potential (ORP), field	millivolts	-462.0	-226.0	-337.0	-251.0	-430.0	-346.0	-345.0	-394.0	-426.0	
pH, field	s.u.	7-8.5	8.7	11.7	11.9	8.1	10.4	8.3	9.6	9.0	10.8
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-	-	
Temperature, field	deg c	15.3	14.2	15.7	13.5	15.4	12.2	13.3	12.0	14.1	
Temperature, field	deg f	-	-	-	-	-	-	-	-	-	
Turbidity, field	ntu	> 999	959.0	365.0	24.2	> 999	41.0	> 999	> 999	711.0	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>ESI-2-40</i>	<i>ESI-2-4</i>	<i>ESI-2-4</i>	<i>ESI-2-4</i>	<i>ESI-2-41</i>	<i>ESI-2-41</i>	<i>ESI-2-42</i>	<i>ESI-2-42</i>	<i>ESI-2-43</i>		
<i>Sample ID:</i>		<i>GW-012204-CC-ESI-2-40-50</i>	<i>ESI-2-4</i>	<i>ESI-2-4</i>	<i>ESI-2-4</i>	<i>ESI-2-41</i>	<i>ESI-2-41</i>	<i>ESI-2-42</i>	<i>ESI-2-42</i>	<i>GW-012704-CC-ESI-2-43-15</i>		
<i>Sample Date:</i>		<i>1/22/2004</i>	<i>11/14/2002</i>	<i>11/15/2002</i>	<i>11/15/2002</i>	<i>1/22/2004</i>	<i>1/22/2004</i>	<i>1/24/2004</i>	<i>1/24/2004</i>	<i>1/27/2004</i>		
<i>Sample Depth:</i>		<i>50 ft bgs</i>	<i>30 ft bgs</i>	<i>50 ft bgs</i>	<i>85 ft bgs</i>	<i>15 ft bgs</i>	<i>27 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>15 ft bgs</i>		
<i>elev_MLLW</i>		<i>-32.08</i>	<i>-12.08</i>	<i>-32.08</i>	<i>-67.08</i>	<i>2.92</i>	<i>-9.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>2.92</i>		
<i>elev_NGVD</i>		<i>-38.4</i>	<i>-18.4</i>	<i>-38.4</i>	<i>-73.4</i>	<i>-3.4</i>	<i>-15.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-3.4</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>									
<i>Fparam</i>												
Conductivity, field	umhos/cm			39600	80900	44100	107500	23200	33500	10200	24700	14100
Dissolved oxygen (DO), field	µg/L			-	-	-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts			-469.0	-316.0	-59.1 Dup -59.1	102.6	-410.0	-476.0	-	-428.0	-450.0
pH, field	s.u.	7-8.5		9.2	11.0	11.9	8.4	9.9	10.8	11.0	11.5	13.0
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-	-	-
Temperature, field	deg c			14.4	15.7	15.6	15.8	12.8	14.6	11.7	13.5	13.7
Temperature, field	deg f			-	-	-	-	-	-	-	-	-
Turbidity, field	ntu			-10.0	503.9	-	-	> 999	374.0	179.0	218.0	51.5

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>ESI-2-43</i>	<i>ESI-2-44</i>	<i>ESI-2-44</i>	<i>ESI-2-45</i>	<i>ESI-2-45</i>	<i>ESI-2-45</i>
<i>Sample ID:</i>		<i>GW-012704-CC-ESI-2-43-25</i>	<i>ESI-2-44</i>	<i>ESI-2-44</i>	<i>GW-012404-CC-ESI-2-45-15</i>	<i>GW-012404-CC-ESI-2-45-25</i>	<i>GW-012404-CC-ESI-2-45-50</i>
<i>Sample Date:</i>		<i>1/27/2004</i>	<i>1/23/2004</i>	<i>1/23/2004</i>	<i>1/24/2004</i>	<i>1/24/2004</i>	<i>1/24/2004</i>
<i>Sample Depth:</i>		<i>25 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>
<i>elev_MLLW</i>		<i>-7.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>
<i>elev_NGVD</i>		<i>-13.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	21700	25300	34300	13300	35500	64600
Dissolved oxygen (DO), field	µg/L	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts	-496.0	-220.0	-425.0	-392.0	-454.0	-263.0
pH, field	s.u.	7-8.5	8.3	11.3	11.5	11.3	8.0
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	14.6	12.8	13.3	13.4	14.0	15.0
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	51.1	20.0	574.0	61.7	-10.0	> 999

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>ESI-2-46</i>	<i>ESI-2-46</i>	<i>ESI-2-46</i>	<i>ESI-2-47</i>	<i>ESI-2-47</i>	<i>ESI-2-48</i>
<i>Sample ID:</i>			<i>GW-012404-CC-ESI-2-46-15</i>	<i>GW-012604-CC-ESI-2-46-25</i>	<i>GW-012604-CC-ESI-2-46-50</i>	<i>ESI-2-47</i>	<i>ESI-2-47</i>	<i>GW-012104-CC-ESI-2-48-15</i>
<i>Sample Date:</i>			<i>1/24/2004</i>	<i>1/26/2004</i>	<i>1/26/2004</i>	<i>1/23/2004</i>	<i>1/23/2004</i>	<i>1/21/2004</i>
<i>Sample Depth:</i>			<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>15 ft bgs</i>
<i>elev_MLLW</i>			<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>2.92</i>
<i>elev_NGVD</i>			<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-3.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		24200	21000	40800	16800	35000	33700
Dissolved oxygen (DO), field	µg/L		-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts		-191.0	-193.0	-406.0	6.0	-566.0	-324.0
pH, field	s.u.	7-8.5	8.2	8.4	7.9	6.7	11.4	8.1
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		11.1	11.5	13.2	10.5	13.4	11.6
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		129.0	11.4	> 999	> 999	> 999	718.0

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>ESI-2-48</i>	<i>ESI-2-48</i>	<i>ESI-2-49</i>	<i>ESI-2-49</i>	<i>ESI-2-50</i>		
<i>Sample ID:</i>		<i>GW-012104-CC-ESI-2-48-25</i>	<i>GW-012104-CC-ESI-2-48-50</i>	<i>GW-012304-CC-ESI-2-49-15</i>	<i>GW-012304-CC-ESI-2-49-24</i>	<i>GW-012604-CC-ESI-2-50-15</i>		
<i>Sample Date:</i>		<i>1/21/2004</i>	<i>1/21/2004</i>	<i>1/23/2004</i>	<i>1/23/2004</i>	<i>1/26/2004</i>		
<i>Sample Depth:</i>		<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>24 ft bgs</i>	<i>15 ft bgs</i>		
<i>elev_MLLW</i>		<i>-7.08</i>	<i>-32.08</i>	<i>2.92</i>	<i>-6.08</i>	<i>2.92</i>		
<i>elev_NGVD</i>		<i>-13.4</i>	<i>-38.4</i>	<i>-3.4</i>	<i>-12.4</i>	<i>-3.4</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			14500	45200	26100	16900	19400
Dissolved oxygen (DO), field	µg/L			-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts			-322.0	-482.0	-205.0	-360.0	-309.0
pH, field	s.u.	7-8.5		9.4	10.5	8.7	11.4	11.7
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			13.8	13.0	10.5	14.6	11.8
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			138	> 999	> 999	> 999	70.7

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>ESI-2-50</i>	<i>ESI-2-50</i>	<i>ESI-2-5</i>	<i>ESI-2-5</i>	<i>ESI-2-5</i>	<i>ESI-2-51</i>	<i>ESI-2-51</i>		
<i>Sample ID:</i>		<i>GW-012604-CC-ESI-2-50-25</i>	<i>GW-012604-CC-ESI-2-50-50</i>	<i>ESI-2-5</i>	<i>ESI-2-5</i>	<i>ESI-2-5</i>	<i>GW-020504-CC-ESI-2-51-15</i>	<i>GW-020504-CC-ESI-2-51-25</i>		
<i>Sample Date:</i>		<i>1/26/2004</i>	<i>1/26/2004</i>	<i>11/15/2002</i>	<i>11/15/2002</i>	<i>11/15/2002</i>	<i>2/5/2004</i>	<i>2/5/2004</i>		
<i>Sample Depth:</i>		<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>27 ft bgs</i>	<i>97 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>		
<i>elev_MLLW</i>		<i>-7.08</i>	<i>-32.08</i>	<i>2.92</i>	<i>-9.08</i>	<i>-79.08</i>	<i>2.92</i>	<i>-7.08</i>		
<i>elev_NGVD</i>		<i>-13.4</i>	<i>-38.4</i>	<i>-3.4</i>	<i>-15.4</i>	<i>-85.4</i>	<i>-3.4</i>	<i>-13.4</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>							
<i>Fparam</i>										
Conductivity, field	umhos/cm			29000	38300	7800	11200	68300	9000	23100
Dissolved oxygen (DO), field	µg/L			-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts			-507.0	-404.0	-6.1	-11.5	-21.4	-384.0	-501.0
pH, field	s.u.	7-8.5		12.1	8.6	12.0	11.5	7.7	11.7	11.5
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-
Temperature, field	deg c			13.7	14.4	15.4	14.0	16.3	14.9	16.3
Temperature, field	deg f			-	-	-	-	-	-	-
Turbidity, field	ntu			> 999	> 999	-	-	-	917.0	53.7

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>ESI-2-51</i>	<i>ESI-2-52</i>	<i>ESI-2-52</i>	<i>ESI-2-52</i>	<i>ESI-2-53</i>
<i>Sample ID:</i>		<i>GW-020504-CC-ESI-2-51-50</i>	<i>GW-38022-CC-ESI-2-52-15</i>	<i>GW-38022-CC-ESI-2-52-25</i>	<i>GW-38022-CC-ESI-2-52-50</i>	<i>GW-020604-CC-ESI-2-53-15</i>
<i>Sample Date:</i>		<i>2/5/2004</i>	<i>2/5/2004</i>	<i>2/5/2004</i>	<i>2/5/2004</i>	<i>2/6/2004</i>
<i>Sample Depth:</i>		<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>
<i>elev_MLLW</i>		<i>-32.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>	<i>2.92</i>
<i>elev_NGVD</i>		<i>-38.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-3.4</i>
Parameters	Units	CSI WG				
Fparam						
Conductivity, field	umhos/cm	65300 Dup 65.3	15800	12200	32700	6300
Dissolved oxygen (DO), field	µg/L	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts	-504.0	-207.0	-265.0	-430.0	-238.0
pH, field	s.u.	7-8.5	10.6	11.1	12.0	11.2
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	16.4	14.1	15.9	16.9	13.0
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	> 999	17.7	> 999	> 999	375.0

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>ESI-2-53</i>	<i>ESI-2-53</i>	<i>ESI-2-54</i>	<i>ESI-2-54</i>	<i>ESI-2-6</i>	<i>ESI-2-6</i>	<i>ESI-2-6</i>	
<i>Sample ID:</i>		<i>GW-020604-CC-ESI-2-53-25</i>	<i>GW-020604-CC-ESI-2-53-50</i>	<i>10GW-38023-CC-ESI-2-54-10</i>	<i>GW-38023-CC-ESI-2-54-25</i>	<i>ESI-2-6</i>	<i>ESI-2-6</i>	<i>ESI-2-6</i>	
<i>Sample Date:</i>		<i>2/6/2004</i>	<i>2/6/2004</i>	<i>2/6/2004</i>	<i>2/6/2004</i>	<i>11/16/2002</i>	<i>11/16/2002</i>	<i>11/16/2002</i>	
<i>Sample Depth:</i>		<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>10 ft bgs</i>	<i>25 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	
<i>elev_MLLW</i>		<i>-7.08</i>	<i>-32.08</i>	<i>7.92</i>	<i>-7.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>	
<i>elev_NGVD</i>		<i>-13.4</i>	<i>-38.4</i>	<i>1.6</i>	<i>-13.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>Fparam</i>									
Conductivity, field	umhos/cm	11600	23600	400	10000	32600	18900	57000	
Dissolved oxygen (DO), field	µg/L	-	-	-	-	-	-	-	
Oxidation reduction potential (ORP), field	millivolts	226.0	-493.0	106.0	-25.0	12.6	0.1	-28.3	
pH, field	s.u.	7-8.5	12.0	11.7	9.7	9.4	9.3	11.5	8.1
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	
Temperature, field	deg c	15.4	16.0	9.1	15.7	14.8	14.2	14.7	
Temperature, field	deg f	-	-	-	-	-	-	-	
Turbidity, field	ntu	75.4	168	> 999	10.7	-	-	-	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>ESI-2-6</i>	<i>ESI-2-7</i>	<i>ESI-2-7</i>	<i>ESI-2-8</i>	<i>ESI-2-8</i>	<i>ESI-2-8</i>	<i>ESI-2-8</i>	<i>ESI-2-9</i>	<i>ESI-2-9</i>	<i>ESI-2-9</i>	<i>ESI-3-10</i>	
<i>Sample ID:</i>		<i>ESI-2-6</i>	<i>ESI-2-7</i>	<i>ESI-2-7</i>	<i>ESI-2-8</i>	<i>ESI-2-8</i>	<i>ESI-2-8</i>	<i>ESI-2-8</i>	<i>ESI-2-9</i>	<i>ESI-2-9</i>	<i>ESI-2-9</i>	<i>ESI-3-10</i>	
<i>Sample Date:</i>		<i>11/16/2002</i>	<i>11/22/2002</i>	<i>11/22/2002</i>	<i>11/21/2002</i>	<i>11/21/2002</i>	<i>11/21/2002</i>	<i>11/21/2002</i>	<i>11/24/2002</i>	<i>11/24/2002</i>	<i>11/24/2002</i>	<i>12/10/2002</i>	
<i>Sample Depth:</i>		<i>89 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>97 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	
<i>elev_MLLW</i>		<i>-71.08</i>	<i>-32.08</i>	<i>-82.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-79.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>	<i>2.92</i>	
<i>elev_NGVD</i>		<i>-77.4</i>	<i>-38.4</i>	<i>-88.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-85.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-3.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>											
<i>Fparam</i>													
Conductivity, field	umhos/cm	8700	49000	96400	10100	30600	53900	36400	7900	29200	40100	5200	
Dissolved oxygen (DO), field	µg/L	-	-	-	-	-	-	-	-	-	-	-	
Oxidation reduction potential (ORP), field	millivolts	-27.1	41.2	52.5	46.2	-37.7	48.6	39.2	-	-	-	169.7	
pH, field	s.u.	7-8.5	8.2	8.5	8.1	11.1	12.0	7.4	8.3	12.3	12.1	7.5	11.4
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-	-	-	-	
Temperature, field	deg c	15.6	15.6	14.6	16.1	16.4	16.8	16.4	15.4	14.8	14.7	13.3	
Temperature, field	deg f	-	-	-	-	-	-	-	-	-	-	-	
Turbidity, field	ntu	-	-	-	-	-	-	-	824	474	999	102	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>ESI-3-10</i>	<i>ESI-3-10</i>	<i>ESI-3-1</i>	<i>ESI-3-1</i>	<i>ESI-3-1</i>	<i>ESI-3-1</i>	<i>ESI-3-11</i>	<i>ESI-3-11</i>	<i>ESI-3-11</i>	<i>ESI-3-11</i>		
<i>Sample ID:</i>		<i>ESI-3-10</i>	<i>ESI-3-10</i>	<i>ESI-3-1</i>	<i>ESI-3-1</i>	<i>ESI-3-1</i>	<i>ESI-3-1</i>	<i>GGW-07842-121102-CC1</i>	<i>GGW-07842-121102-CC2</i>	<i>ESI-3-11</i>	<i>ESI-3-11</i>		
<i>Sample Date:</i>		<i>12/10/2002</i>	<i>12/10/2002</i>	<i>12/5/2002</i>	<i>12/5/2002</i>	<i>12/5/2002</i>	<i>12/5/2002</i>	<i>12/11/2002</i>	<i>12/11/2002</i>	<i>12/11/2002</i>	<i>12/11/2002</i>		
<i>Sample Depth:</i>		<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>15 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>		
<i>elev_MLLW</i>		-7.08	-32.08	2.92	-7.08	-32.08	-82.08	2.92	2.92	-7.08	-32.08		
<i>elev_NGVD</i>		-13.4	-38.4	-3.4	-13.4	-38.4	-88.4	-3.4	-3.4	-13.4	-38.4		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>										
<i>Fparam</i>													
Conductivity, field	umhos/cm			4400	10900	83500	47300	89900	73800	7400	-	5300	10600
Dissolved oxygen (DO), field	µg/L			-	-	-	-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts			170.6	164.3	180.1	106.7	138.2	141.2	173.0	173.0	164.7	175.2
pH, field	s.u.	7-8.5		7.9	8.2	7.6	7.7	8.4	7.7	11.8	-	9.6	8.3
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-	-	-	-
Temperature, field	deg c			11.9	13.0	10.4	12.8	12.8	12.9	13.0	-	12.2	12.2
Temperature, field	deg f			-	-	-	-	-	-	-	-	-	-
Turbidity, field	ntu			105	100	16	154	98	259	700	-	108	102

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>ESI-3-12</i>	<i>ESI-3-12</i>	<i>ESI-3-13</i>	<i>ESI-3-13</i>	<i>ESI-3-13</i>	<i>ESI-3-13</i>	<i>ESI-3-14</i>	<i>ESI-3-14</i>	<i>ESI-3-14</i>
<i>Sample ID:</i>		<i>ESI-3-12</i>	<i>ESI-3-12</i>	<i>ESI-3-13</i>	<i>ESI-3-13</i>	<i>GGW-07842-121202-CC5</i>	<i>GGW-07842-121202-CC6</i>	<i>ESI-3-14</i>	<i>ESI-3-14</i>	<i>ESI-3-14</i>
<i>Sample Date:</i>		<i>12/11/2002</i>	<i>12/11/2002</i>	<i>12/11/2002</i>	<i>12/11/2002</i>	<i>12/12/2002</i>	<i>12/12/2002</i>	<i>12/12/2002</i>	<i>12/12/2002</i>	<i>12/12/2002</i>
<i>Sample Depth:</i>		<i>25 ft bgs</i>	<i>47 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>47 ft bgs</i>	<i>47 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>
<i>elev_MLLW</i>		-7.08	-29.08	2.92	-7.08	-29.08	-29.08	2.92	-7.08	-32.08
<i>elev_NGVD</i>		-13.4	-35.4	-3.4	-13.4	-35.4	-35.4	-3.4	-13.4	-38.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>								
<i>Fparam</i>										
Conductivity, field	umhos/cm	2400	10100	1900	1300	-	11000	1900	1200	11800
Dissolved oxygen (DO), field	µg/L	-	-	-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts	183.0	173.0	176.4	174.4 Dup 174.4	150.3	150.3	150.7	155.3	134.7
pH, field	s.u.	7-8.5	8.0	8.4	9.3	7.2	-	8.4	8.5	7.7
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-	-
Temperature, field	deg c	9.1	11.7	13.7	13.0	-	14.1	15.0	13.0	13.9
Temperature, field	deg f	-	-	-	-	-	-	-	-	-
Turbidity, field	ntu	103	999	101	102	-	113	56	28	808

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>ESI-3-15</i>	<i>ESI-3-15</i>	<i>ESI-3-15</i>	<i>ESI-3-16</i>	<i>ESI-3-16</i>	<i>ESI-3-16</i>	<i>ESI-3-2</i>	<i>ESI-3-2</i>	<i>ESI-3-2</i>	<i>ESI-3-2</i>	<i>ESI-3-3</i>	<i>ESI-3-3</i>	
<i>Sample ID:</i>		<i>ESI-3-15</i>	<i>ESI-3-15</i>	<i>ESI-3-15</i>	<i>ESI-3-16</i>	<i>ESI-3-16</i>	<i>ESI-3-16</i>	<i>ESI-3-2</i>	<i>ESI-3-2</i>	<i>ESI-3-2</i>	<i>ESI-3-2</i>	<i>ESI-3-3</i>	<i>ESI-3-3</i>	
<i>Sample Date:</i>		<i>12/17/2002</i>	<i>12/17/2002</i>	<i>12/17/2002</i>	<i>12/17/2002</i>	<i>12/17/2002</i>	<i>12/17/2002</i>	<i>12/5/2002</i>	<i>12/5/2002</i>	<i>12/6/2002</i>	<i>12/6/2002</i>	<i>12/9/2002</i>	<i>12/9/2002</i>	
<i>Sample Depth:</i>		<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	
<i>elev_MLLW</i>		2.92	-7.08	-32.08	2.92	-7.08	-32.08	2.92	-7.08	-32.08	-82.08	2.92	-7.08	
<i>elev_NGVD</i>		-3.4	-13.4	-38.4	-3.4	-13.4	-38.4	-3.4	-13.4	-38.4	-88.4	-3.4	-13.4	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>											
<i>Fparam</i>														
Conductivity, field	umhos/cm	1100	1100	10400	3.0	0.9	8.5	37100	6800	8300	37000	42000	5700	
Dissolved oxygen (DO), field	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	
Oxidation reduction potential (ORP), field	millivolts	196.3	198.0	202.0	197.8	203.0	204.0	155.3 Dup 155.3	93.2	94.4	178.6	195.5	183.0	
pH, field	s.u.	7-8.5	7.5	7.4	8.3	7.6	7.6	8.0	7.8	7.0	8.7	8.1	8.4	8.9
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-	-	-	-	-	
Temperature, field	deg c	11.7	12.1	10.8	12.8	10.7	11.5	12.9	13.8	10.6	10.5	10.3	12.2	
Temperature, field	deg f	-	-	-	-	-	-	-	-	-	-	-	-	
Turbidity, field	ntu	99	102	94	101	101	101	20	999	101	104	104	104	

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>ESI-3-3</i>	<i>ESI-3-4</i>	<i>ESI-3-4</i>	<i>ESI-3-5</i>	<i>ESI-3-5</i>	<i>ESI-3-5</i>	<i>ESI-3-6</i>	<i>ESI-3-6</i>	<i>ESI-3-6</i>	<i>ESI-3-7</i>	<i>ESI-3-7</i>	
<i>Sample ID:</i>		<i>ESI-3-3</i>	<i>ESI-3-4</i>	<i>ESI-3-4</i>	<i>ESI-3-5</i>	<i>ESI-3-5</i>	<i>ESI-3-5</i>	<i>ESI-3-6</i>	<i>ESI-3-6</i>	<i>ESI-3-6</i>	<i>ESI-3-7</i>	<i>GGW-07842-120902-CC4</i>	
<i>Sample Date:</i>		<i>12/9/2002</i>	<i>12/9/2002</i>	<i>12/9/2002</i>	<i>12/6/2002</i>	<i>12/6/2002</i>	<i>12/6/2002</i>	<i>12/6/2002</i>	<i>12/6/2002</i>	<i>12/9/2002</i>	<i>12/9/2002</i>	<i>12/9/2002</i>	
<i>Sample Depth:</i>		<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>30 ft bgs</i>	
<i>elev_MLLW</i>		-32.08	2.92	-32.08	2.92	-7.08	-32.08	2.92	-7.08	-32.08	2.92	-12.08	
<i>elev_NGVD</i>		-38.4	-3.4	-38.4	-3.4	-13.4	-38.4	-3.4	-13.4	-38.4	-3.4	-18.4	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>											
<i>Fparam</i>													
Conductivity, field	umhos/cm	5500	41300	5100	18100	9600	34300	19200	6100	3600	3000	16900	
Dissolved oxygen (DO), field	µg/L	-	-	-	-	-	-	-	-	-	-	-	
Oxidation reduction potential (ORP), field	millivolts	184.3	185.3	183.1	191.2	127.5	131.6	156.5	142.3	191.7	179.0	180.3 Dup 180.3	
pH, field	s.u.	7-8.5	8.4	7.9	8.5	4.1	7.4	8.3	7.2	7.3	8.5	10.2	9.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-	-	-	-	
Temperature, field	deg c	11.4	11.7	11.6	13.3	14.2	13.9	14.3	14.2	11.1	13.7	10.9	
Temperature, field	deg f	-	-	-	-	-	-	-	-	-	-	-	
Turbidity, field	ntu	104	102	103	101	98	115	65	113	999	101	103	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	<i>ESI-3-7</i>	<i>ESI-3-8</i>	<i>ESI-3-8</i>	<i>ESI-3-8</i>	<i>ESI-3-9</i>	<i>ESI-3-9</i>	<i>ESI-4-10</i>	<i>ESI-4-10</i>	<i>ESI-4-10</i>	<i>ESI-4-1</i>	<i>ESI-4-1</i>
Sample ID:	<i>ESI-3-7</i>	<i>ESI-3-8</i>	<i>ESI-3-8</i>	<i>ESI-3-8</i>	<i>ESI-3-9</i>	<i>ESI-3-9</i>	<i>ESI-4-10</i>	<i>ESI-4-10</i>	<i>ESI-4-10</i>	<i>ESI-4-1</i>	<i>ESI-4-1</i>
Sample Date:	12/10/2002	12/10/2002	12/10/2002	12/11/2002	12/10/2002	12/10/2002	12/17/2002	12/17/2002	12/17/2002	12/16/2002	12/16/2002
Sample Depth:	50 ft bgs	15 ft bgs	25 ft bgs	47 ft bgs	27 ft bgs	50 ft bgs	15 ft bgs	25 ft bgs	50 ft bgs	15 ft bgs	25 ft bgs
elev_MLLW	-32.08	2.92	-7.08	-29.08	-9.08	-32.08	2.92	-7.08	-32.08	2.92	-7.08
elev_NGVD	-38.4	-3.4	-13.4	-35.4	-15.4	-38.4	-3.4	-13.4	-38.4	-3.4	-13.4

Parameters	Units	CSI	WG											
Fparam														
Conductivity, field	umhos/cm			3600	1500	7300	4200	5300	11200	1.0	0.9	8.7	13.8	3.3
Dissolved oxygen (DO), field	µg/L			-	-	-	-	-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts			177.3	164.8	171.0	181.9	164.4	166.5	187.0	193.0	195.0	0.0	191.7
pH, field	s.u.	7-8.5		8.6	10.8	8.3	8.5	8.1	8.1	6.9	7.5	8.1	9.2	7.5
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-	-	-	-	-
Temperature, field	deg c			12.8	13.6	11.7	11.7	11.9	12.5	13.8	12.8	12.5	13.5	13.0
Temperature, field	deg f			-	-	-	-	-	-	-	-	-	-	-
Turbidity, field	ntu			115	106	99	108	105	114	107	104	217	97	110

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	ESI-4-1	ESI-4-2	ESI-4-2	ESI-4-2	ESI-4-3	ESI-4-3	ESI-4-3	ESI-4-4	ESI-4-4	ESI-4-4
Sample ID:	ESI-4-1	GGW-07842-121302-CC7	ESI-4-2	ESI-4-2	ESI-4-3	ESI-4-3	ESI-4-3	ESI-4-4	ESI-4-4	ESI-4-4
Sample Date:	12/16/2002	12/13/2002	12/13/2002	12/13/2002	12/16/2002	12/16/2002	12/16/2002	12/15/2002	12/15/2002	12/15/2002
Sample Depth:	50 ft bgs	15 ft bgs	25 ft bgs	50 ft bgs	15 ft bgs	23 ft bgs	50 ft bgs	15 ft bgs	25 ft bgs	50 ft bgs
elev_MLLW	-32.08	2.92	-7.08	-32.08	2.92	-5.08	-32.08	2.92	-7.08	-32.08
elev_NGVD	-38.4	-3.4	-13.4	-38.4	-3.4	-11.4	-38.4	-3.4	-13.4	-38.4

Parameters	Units	CSI WG	ESI-4-1	ESI-4-2	ESI-4-2	ESI-4-2	ESI-4-3	ESI-4-3	ESI-4-3	ESI-4-4	ESI-4-4	ESI-4-4
Fparam												
Conductivity, field	umhos/cm		9.5	6.8	2.1	15.7	3.9	2.3	13.4	1.6	1.3	11.5
Dissolved oxygen (DO), field	µg/L		-	-	-	-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts		193.6	153.6	177.8	169.4	172.8	192.9	192.8	167.1	171.0	175.0
pH, field	s.u.	7-8.5	7.7	10.7	8.2	8.1	10.6	7.8	8.1	9.2	7.8	8.2
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-	-	-	-	-
Temperature, field	deg c		12.3	14.7	12.3	13.8	13.5	12.2	11.8	15.1	14.1	13.6
Temperature, field	deg f		-	-	-	-	-	-	-	-	-	-
Turbidity, field	ntu		103	103	104	337	102	107	102	999	100	98

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	ESI-4-5	ESI-4-5	ESI-4-5	ESI-4-6	ESI-4-6	ESI-4-6	ESI-4-7	ESI-4-7	ESI-4-7	ESI-4-8
Sample ID:	ESI-4-5	ESI-4-5	ESI-4-5	ESI-4-6	ESI-4-6	ESI-4-6	ESI-4-7	GGW-07842-121302-CC9	ESI-4-7	ESI-4-8
Sample Date:	12/15/2002	12/15/2002	12/15/2002	12/13/2002	12/13/2002	12/13/2002	12/13/2002	12/13/2002	12/13/2002	12/16/2002
Sample Depth:	15 ft bgs	24 ft bgs	49 ft bgs	15 ft bgs	25 ft bgs	50 ft bgs	15 ft bgs	25 ft bgs	50 ft bgs	15 ft bgs
elev_MLLW	2.92	-6.08	-31.08	2.92	-7.08	-32.08	2.92	-7.08	-32.08	2.92
elev_NGVD	-3.4	-12.4	-37.4	-3.4	-13.4	-38.4	-3.4	-13.4	-38.4	-3.4

Parameters	Units	CSI	WG	ESI-4-5	ESI-4-5	ESI-4-5	ESI-4-6	ESI-4-6	ESI-4-6	ESI-4-7	ESI-4-7	ESI-4-7	ESI-4-8
Fparam													
Conductivity, field	umhos/cm			1.6	1.1	9.9	1.6	1.5	12.9	2.5	1.6	17.0	1.1
Dissolved oxygen (DO), field	µg/L			-	-	-	-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts			189.7	174.7	164.1	160.7	179.7	182.0	144.5	163.6	168.4	184.4
pH, field	s.u.	7-8.5		7.8	7.4	8.3	8.9	7.9	7.9	9.4	8.3	7.9	8.1
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-	-	-	-
Temperature, field	deg c			14.3	14.1	13.4	12.7	9.8	12.1	15.3	14.3	13.8	13.7
Temperature, field	deg f			-	-	-	-	-	-	-	-	-	-
Turbidity, field	ntu			100	630	999	999	99	999	210	999	103	102

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>ESI-4-8</i>	<i>ESI-4-8</i>	<i>ESI-4-9</i>	<i>ESI-4-9</i>	<i>ESI-4-9</i>	<i>EWB-A</i>	<i>EWB-A</i>	<i>EWB-B</i>		
<i>Sample ID:</i>		<i>ESI-4-8</i>	<i>ESI-4-8</i>	<i>ESI-4-9</i>	<i>ESI-4-9</i>	<i>ESI-4-9</i>	<i>GW-013007-MM-EWB-A-001</i>	<i>GW-013007-MM-EWB-A-002</i>	<i>GW-013007-MM-EWB-B-001</i>		
<i>Sample Date:</i>		<i>12/16/2002</i>	<i>12/16/2002</i>	<i>12/15/2002</i>	<i>12/15/2002</i>	<i>12/15/2002</i>	<i>1/30/2007</i>	<i>1/30/2007</i>	<i>1/30/2007</i>		
<i>Sample Depth:</i>		<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>15 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>					
<i>elev_MLLW</i>		<i>-7.08</i>	<i>-32.08</i>	<i>2.92</i>	<i>-7.08</i>	<i>-32.08</i>					
<i>elev_NGVD</i>		<i>-13.4</i>	<i>-38.4</i>	<i>-3.4</i>	<i>-13.4</i>	<i>-38.4</i>					
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>								
<i>Fparam</i>											
Conductivity, field	umhos/cm			1.1	12.6	1.2	1.0	11.7	47700	47700	15300
Dissolved oxygen (DO), field	µg/L			-	-	-	-	-	6550	6550	7430
Oxidation reduction potential (ORP), field	millivolts			192.7	188.7	185.9	183.1	185.3	-99	-99	-121
pH, field	s.u.	7-8.5		7.9	8.4	8.0	7.5	7.9	7.34	7.34	7.62
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-	-
Temperature, field	deg c			12.8	12.5	11.1	13.4	13.8	11.1	11.1	14
Temperature, field	deg f			-	-	-	-	-	-	-	-
Turbidity, field	ntu			114	105	102	110	102	41.1	41.1	11

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>EWB-B</i>	<i>EWB-C</i>	<i>EWB-C</i>	<i>EWB-D</i>	<i>EWB-D</i>	
<i>Sample ID:</i>	GW-013007-MM-EWB-B-002	GW-013007-MM-EWB-C-001	GW-013007-MM-EWB-C-002	GW-013007-MM-EWB-D-001	GW-013007-MM-EWB-D-002	
<i>Sample Date:</i>	1/30/2007	1/30/2007	1/30/2007	1/30/2007	1/30/2007	
<i>Sample Depth:</i>						
<i>elev_MLLW</i>						
<i>elev_NGVD</i>						
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm		15300	40700	40700	83400
Dissolved oxygen (DO), field	µg/L		7430	16310	16310	14210
Oxidation reduction potential (ORP), field	millivolts		-121	-103	-103	-110
pH, field	s.u.	7-8.5	7.62	7.7	7.7	7.22
Specific Gravity~FIELDPARAM	sg		-	-	-	-
Temperature, field	deg c		14	13.2	13.2	12.1
Temperature, field	deg f		-	-	-	-
Turbidity, field	ntu		11	10.5	10.5	6.2

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>EXT-9</i>	<i>EXT-9</i>	<i>EXT-9-Deep</i>	<i>EXT-9-Int</i>
<i>Sample ID:</i>			<i>GW-071813-NH-MW-EXT-9-DEEP-14</i>	<i>GW-071813-NH-MW-EXT-9-DEEP-FD 1</i>	<i>GW-092713-MD-MW-ext-9-Deep</i>	<i>GW-092713-MD-MW-ext-9-Intermediate</i>
<i>Sample Date:</i>			<i>7/18/2013</i>	<i>7/18/2013</i>	<i>9/27/2013</i>	<i>9/27/2013</i>
<i>Sample Depth:</i>			<i>202 to 204 ft BGS</i>	<i>202 to 204 ft BGS</i>		
<i>elev_MLLW</i>			<i>-183.11 to -185.11</i>	<i>-183.11 to -185.11</i>		
<i>elev_NGVD</i>			<i>-189.4 to -191.4</i>	<i>-189.4 to -191.4</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>		<i>(Duplicate)</i>		
<i>Fparam</i>						
Conductivity, field	umhos/cm		11800	11800	11300	63700
Dissolved oxygen (DO), field	µg/L		2110	2110	0	0
Oxidation reduction potential (ORP), field	millivolts		34	34	-147	-470
pH, field	s.u.	7-8.5	6.55	6.55	8.16	12.07
Specific Gravity~FIELDPARAM	sg		-	-	-	-
Temperature, field	deg c		16.79	16.79	13.78	15.35
Temperature, field	deg f		-	-	-	-
Turbidity, field	ntu		> 1000	> 1000	28	494

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>EXT-9-Shallow</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	
<i>Sample ID:</i>		<i>GW-092713-MD-MW-ext-9-Shallow</i>	<i>GW-062813-NH-F-1</i>	<i>GW-070113-NH-F2</i>	<i>GW-070113-NH-F3</i>	<i>GW-070113-NH-F4</i>	<i>GW-070213-NH-F-5</i>	<i>GW-070213-NH-F-FD1</i>	
<i>Sample Date:</i>		<i>9/27/2013</i>	<i>6/28/2013</i>	<i>7/1/2013</i>	<i>7/1/2013</i>	<i>7/1/2013</i>	<i>7/2/2013</i>	<i>7/2/2013</i>	
<i>Sample Depth:</i>			<i>57 to 59 ft BGS</i>	<i>67 to 69 ft BGS</i>	<i>77 to 79 ft BGS</i>	<i>87 to 89 ft BGS</i>	<i>97 to 99 ft BGS</i>	<i>97 to 99 ft BGS</i>	
<i>elev_MLLW</i>			<i>-39.51 to -41.51</i>	<i>-49.51 to -51.51</i>	<i>-59.51 to -61.51</i>	<i>-69.51 to -71.51</i>	<i>-79.51 to -81.51</i>	<i>-79.51 to -81.51</i>	
<i>elev_NGVD</i>			<i>-45.8 to -47.8</i>	<i>-55.8 to -57.8</i>	<i>-65.8 to -67.8</i>	<i>-75.8 to -77.8</i>	<i>-85.8 to -87.8</i>	<i>-85.8 to -87.8</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					<i>(Duplicate)</i>	
<i>Fparam</i>									
Conductivity, field	umhos/cm		81900	39800	5810	22220	8420	32200	32200
Dissolved oxygen (DO), field	µg/L		0	2200	2860	3600	8910	8310	8310
Oxidation reduction potential (ORP), field	millivolts		-165	-130	-101	-182	-186	-126	-126
pH, field	s.u.	7-8.5	7.34	7.05	6.32	6.63	7.78	6.99	6.99
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-	-
Temperature, field	deg c		15.20	25.47	18.55	20.97	25.07	20.97	20.97
Temperature, field	deg f		-	-	-	-	-	-	-
Turbidity, field	ntu		99	475	1000	1000	1000	> 1000	> 1000

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>
<i>Sample ID:</i>	GW-070213-NH-F-6	GW-070213-NH-F-7	GW-070313-NH-F-8	GW-070313-NH-F-9	GW-070813-NH-MW-F-DEEP-10	GW-070813-NH-MW-F-DEEP-11
<i>Sample Date:</i>	7/2/2013	7/2/2013	7/3/2013	7/3/2013	7/8/2013	7/8/2013
<i>Sample Depth:</i>	107 to 109 ft BGS	117 to 119 ft BGS	127 to 129 ft BGS	137 to 139 ft BGS	147 to 149 ft BGS	157 to 159 ft BGS
<i>elev_MLLW</i>	-89.51 to -91.51	-99.51 to -101.51	-109.51 to -111.51	-119.51 to -121.51	-129.51 to -131.51	-139.51 to -141.51
<i>elev_NGVD</i>	-95.8 to -97.8	-105.8 to -107.8	-115.8 to -117.8	-125.8 to -127.8	-135.8 to -137.8	-145.8 to -147.8

<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>Fparam</i>									
Conductivity, field	umhos/cm		31300	27200	57600	68000	13500	17000	
Dissolved oxygen (DO), field	µg/L		1810	4290	1180	1010	3970	5120	
Oxidation reduction potential (ORP), field	millivolts		-133	-179	-149	-148	83	34	
pH, field	s.u.	7-8.5	7.33	8.05	7.09	7.23	5.77	5.94	
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-	
Temperature, field	deg c		28.00	23.62	18.11	31.57	15.28	19.98	
Temperature, field	deg f		-	-	-	-	-	-	
Turbidity, field	ntu		> 1000	303	1000	530	> 1000	> 1000	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Deep</i>	<i>F-Int</i>	<i>Former Production Well</i>
<i>Sample ID:</i>		<i>GW-070813-NH-MW-F-DEEP-12</i>	<i>GW-070913-NH-MW-F-DEEP-13</i>	<i>GW-092613-NH-MW-F-D</i>	<i>GW-092613-NH-MW-F-I</i>	<i>GW-033010-TG-FPW</i>
<i>Sample Date:</i>		<i>7/8/2013</i>	<i>7/9/2013</i>	<i>9/26/2013</i>	<i>9/26/2013</i>	<i>3/30/2010</i>
<i>Sample Depth:</i>		<i>167 to 169 ft BGS</i>	<i>177 to 179 ft BGS</i>			
<i>elev_MLLW</i>		<i>-149.51 to -151.51</i>	<i>-159.51 to -161.51</i>			
<i>elev_NGVD</i>		<i>-155.8 to -157.8</i>	<i>-165.8 to -167.8</i>			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm			19500	16100	15400
Dissolved oxygen (DO), field	µg/L			2260	2740	280
Oxidation reduction potential (ORP), field	millivolts			-141	80	-80
pH, field	s.u.	7-8.5		6.41	6.02	7.18
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			20.32	16.06	14.41
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			> 1000	> 1000	127
						95
						1220
						0
						-271
						6.77
						8.82
						-
						14.70
						-
						210.0

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Former Production Well	F-Shallow-New	G	G-Int	GP-1	GP-1		
Sample ID:	GW-033010-TG-FD-001	GW-101113-MD-F-shallow	GW-092513-NH-MW-G-D	GW-092613-NH-MW-G-I	GW-040104-CC-GP1-25-22	GW-040104-CC-GP1-50-23		
Sample Date:	3/30/2010	10/11/2013	9/25/2013	9/26/2013	4/1/2004	4/1/2004		
Sample Depth:					25 ft bgs	50 ft bgs		
elev_MLLW					-7.08	-32.08		
elev_NGVD					-13.4	-38.4		
Parameters	Units	CSI WG	(Duplicate)					
<i>Fparam</i>								
Conductivity, field	umhos/cm		1220	19600	15100	10010	9000	23300
Dissolved oxygen (DO), field	µg/L		0	1510	63000	1460	0	0
Oxidation reduction potential (ORP), field	millivolts		-271	30	-100	14	-155	-166
pH, field	s.u.	7-8.5	8.82	7.54	7.3	7.2	7.41	7.01
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		14.70	17.46	16.58	17.27	13.8	14.5
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		210.0	81	189	52	90	575

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>GP-1</i>	<i>GP-2</i>	<i>GP-2</i>	<i>GP-2</i>	<i>GP-3</i>
<i>Sample ID:</i>		<i>GW-040104-CC-GP1-100-24</i>	<i>GW-032904-CC-GP2-25-13</i>	<i>GW-033004-CC-GP2-50-14</i>	<i>GW-033004-CC-GP2-100-15</i>	<i>GW-032904-CC-GP3-25-10</i>
<i>Sample Date:</i>		<i>4/1/2004</i>	<i>3/29/2004</i>	<i>3/30/2004</i>	<i>3/30/2004</i>	<i>3/29/2004</i>
<i>Sample Depth:</i>		<i>100 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>25 ft bgs</i>
<i>elev_MLLW</i>		<i>-82.08</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-82.08</i>	<i>-7.08</i>
<i>elev_NGVD</i>		<i>-88.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-88.4</i>	<i>-13.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Fparam</i>						
Conductivity, field	umhos/cm	23300	1290	18700	25200	1880
Dissolved oxygen (DO), field	µg/L	0	40	0	0	0
Oxidation reduction potential (ORP), field	millivolts	-177	-122	-195	-163	-207
pH, field	s.u.	7-8.5	6.97	7.06	6.65	7.87
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	14.9	16.9	13.8	13.7	12.7
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	> 999	650	335	637	763

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>GP-3</i>	<i>GP-3</i>	<i>GP-4</i>	<i>GP-4</i>	<i>GP-4</i>
<i>Sample ID:</i>		<i>GW-032904-CC-GP3-50-11</i>	<i>GW-032904-CC-GP3-100-12</i>	<i>GW-040604-CC-GP4-23-35</i>	<i>GW-040604-CC-GP4-56-36</i>	<i>GW-040604-CC-DUP-04</i>
<i>Sample Date:</i>		<i>3/29/2004</i>	<i>3/29/2004</i>	<i>4/6/2004</i>	<i>4/6/2004</i>	<i>4/6/2004</i>
<i>Sample Depth:</i>		<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>23 ft bgs</i>	<i>56 ft bgs</i>	<i>56 ft bgs</i>
<i>elev_MLLW</i>		<i>-32.08</i>	<i>-82.08</i>	<i>-5.08</i>	<i>-38.08</i>	<i>-38.08</i>
<i>elev_NGVD</i>		<i>-38.4</i>	<i>-88.4</i>	<i>-11.4</i>	<i>-44.4</i>	<i>-44.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				<i>(Duplicate)</i>
<i>Fparam</i>						
Conductivity, field	umhos/cm	24400	23200	9000	9300	9300
Dissolved oxygen (DO), field	µg/L	0	60	0	0	-
Oxidation reduction potential (ORP), field	millivolts	-182	-165	-131	-208	-
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7.36	7.36
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	15.4	15.4	14.1	15.0	15.0
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	202	93	39.0	> 999	> 999

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>GP-4</i>	<i>GP-5</i>	<i>GP-5</i>	<i>GP-5</i>	<i>GP-6</i>		
<i>Sample ID:</i>		<i>GW-040604-CC-GP4-100-37</i>	<i>GW-040504-CC-GP5-25-32</i>	<i>GW-040504-CC-GP5-50-33</i>	<i>GW-040704-CC-GP5-100-38</i>	<i>GW-040204-CC-GP6-25-30</i>		
<i>Sample Date:</i>		<i>4/6/2004</i>	<i>4/5/2004</i>	<i>4/5/2004</i>	<i>4/7/2004</i>	<i>4/2/2004</i>		
<i>Sample Depth:</i>		<i>100 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>25 ft bgs</i>		
<i>elev_MLLW</i>		<i>-82.08</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-82.08</i>	<i>-7.08</i>		
<i>elev_NGVD</i>		<i>-88.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-88.4</i>	<i>-13.4</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			16700	486	2850	31900	960
Dissolved oxygen (DO), field	µg/L			0	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts			-182	-176	-218	-156	-173
pH, field	s.u.	7-8.5		6.73	7.66	8.67	6.75	7.6
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			16.2	15.2	15.3	14.2	15.6
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			> 999	339	> 999	> 999	> 999

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>GP-6</i>	<i>GP-6</i>	<i>GP-7</i>	<i>GP-7</i>	<i>GP-7</i>
<i>Sample ID:</i>			<i>GW-040504-CC-GP6-50-34</i>	<i>GW-040704-CC-GP6-100-39</i>	<i>GW-033004-CC-GP7-25-16</i>	<i>GW-033004-CC-DUP-02</i>	<i>GW-033004-CC-GP7-50-17</i>
<i>Sample Date:</i>			<i>4/5/2004</i>	<i>4/7/2004</i>	<i>3/30/2004</i>	<i>3/30/2004</i>	<i>3/30/2004</i>
<i>Sample Depth:</i>			<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>25 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>
<i>elev_MLLW</i>			<i>-32.08</i>	<i>-82.08</i>	<i>-7.08</i>	<i>-7.08</i>	<i>-32.08</i>
<i>elev_NGVD</i>			<i>-38.4</i>	<i>-88.4</i>	<i>-13.4</i>	<i>-13.4</i>	<i>-38.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				<i>(Duplicate)</i>	
<i>Fparam</i>							
Conductivity, field	umhos/cm		851	15600	1920	1920	7670
Dissolved oxygen (DO), field	µg/L		0	0	0	-	0
Oxidation reduction potential (ORP), field	millivolts		-199	-167	-181	-	-186
pH, field	s.u.	7-8.5	8.08	7.08	7.55	7.55	7.62
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		15.9	14.9	14.1	14.1	14.2
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		> 999	595	> 999	> 999	302

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>GP-7</i>	<i>GP-8</i>	<i>GP-8</i>	<i>GP-8</i>	<i>GP-9</i>		
<i>Sample ID:</i>		<i>GW-033104-CC-GP7-100-18</i>	<i>GW-033104-CC-GP8-25-19</i>	<i>GW-033104-CC-GP8-50-20</i>	<i>GW-033104-CC-GP8-100-21</i>	<i>GW-032404-CC-GP9-25-01</i>		
<i>Sample Date:</i>		<i>3/31/2004</i>	<i>3/31/2004</i>	<i>3/31/2004</i>	<i>3/31/2004</i>	<i>3/24/2004</i>		
<i>Sample Depth:</i>		<i>100 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>25 ft bgs</i>		
<i>elev_MLLW</i>		<i>-82.08</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-82.08</i>	<i>-7.08</i>		
<i>elev_NGVD</i>		<i>-88.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-88.4</i>	<i>-13.4</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			23300	650	9000	25300	4220
Dissolved oxygen (DO), field	µg/L			0	0	0	30	0
Oxidation reduction potential (ORP), field	millivolts			-225	-185	-179	-171	-206
pH, field	s.u.	7-8.5		7.18	7.48	7.33	7.08	7.97
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			15.6	14.6	14.6	14.8	12.3
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			> 999	844	603	309	7.1

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>GP-9</i>	<i>GP-9</i>	<i>GP-10</i>	<i>GP-10</i>	<i>GP-10</i>
<i>Sample ID:</i>			<i>GW-032404-CC-GP9-50-02</i>	<i>GW-032504-CC-GP9-100-03</i>	<i>GW-032604-CC-GP10-25-07</i>	<i>GW-032604-CC-GP10-46-08</i>	<i>GW-032604-CC-GP10-100-09</i>
<i>Sample Date:</i>			<i>3/24/2004</i>	<i>3/25/2004</i>	<i>3/26/2004</i>	<i>3/26/2004</i>	<i>3/26/2004</i>
<i>Sample Depth:</i>			<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>25 ft bgs</i>	<i>46 ft bgs</i>	<i>100 ft bgs</i>
<i>elev_MLLW</i>			<i>-32.08</i>	<i>-82.08</i>	<i>-7.08</i>	<i>-28.08</i>	<i>-82.08</i>
<i>elev_NGVD</i>			<i>-38.4</i>	<i>-88.4</i>	<i>-13.4</i>	<i>-34.4</i>	<i>-88.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		9000	21900	2110	9000	19800
Dissolved oxygen (DO), field	µg/L		0	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts		-224	-210	-195	-187	-212
pH, field	s.u.	7-8.5	8.19	7	7.49	7.36	7.01
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		11.9	11.5	12.2	11.9	12.3
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		> 999	> 999	973	> 999	NM

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			GP-11	GP-11	GP-11	GP-11	GP-12
<i>Sample ID:</i>			GW-032504-CC-GP11-25-04	GW-032504-CC-DUP01	GW-032504-CC-GP11-50-05	GW-032504-CC-GP11-100-06	GW-040204-CC-GP12-25-28
<i>Sample Date:</i>			3/25/2004	3/25/2004	3/25/2004	3/25/2004	4/2/2004
<i>Sample Depth:</i>			25 ft bgs	25 ft bgs	50 ft bgs	100 ft bgs	25 ft bgs
<i>elev_MLLW</i>			-7.08	-7.08	-32.08	-82.08	-7.08
<i>elev_NGVD</i>			-13.4	-13.4	-38.4	-88.4	-13.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		4370	4370	9990	25700	9000
Dissolved oxygen (DO), field	µg/L		0	-	0	0	0
Oxidation reduction potential (ORP), field	millivolts		-203	-	-224	-191	-166
pH, field	s.u.	7-8.5	7.76	7.76	7.7	6.88	7.3
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		11.9	11.9	12.0	11.7	15.5
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		530.0	530.0	> 999	> 999	> 999

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		GP-12	GP-12	GP-12	GP-13	GP-13
<i>Sample ID:</i>		GW-040204-CC-GP12-50-29	GW-040204-CC-DUP-03	GW-040504-CC-GP12-100-31	GW-040104-CC-GP13-25-25	GW-040104-CC-GP13-48-26
<i>Sample Date:</i>		4/2/2004	4/2/2004	4/5/2004	4/1/2004	4/1/2004
<i>Sample Depth:</i>		50 ft bgs	50 ft bgs	100 ft bgs	25 ft bgs	48 ft bgs
<i>elev_MLLW</i>		-32.08	-32.08	-82.08	-7.08	-30.08
<i>elev_NGVD</i>		-38.4	-38.4	-88.4	-13.4	-36.4
			(Duplicate)			
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Fparam</i>						
Conductivity, field	umhos/cm	3360	3360	15800	1440	7420
Dissolved oxygen (DO), field	µg/L	0	-	0	0	0
Oxidation reduction potential (ORP), field	millivolts	-222	-	-169	-172	-198
pH, field	s.u.	7-8.5	8.46	8.46	6.9	7.08
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	15.7	15.7	14.4	15.7	15.2
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	988	988	156	> 999	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>GP-13</i>	<i>GP-14</i>	<i>GP-14</i>	<i>GP-14</i>	<i>GP-15</i>	<i>GP-15</i>	<i>GP-15</i>		
<i>Sample ID:</i>		<i>GW-040204-CC-GP13-96-27</i>	<i>GW-0704-GP14-25</i>	<i>GW-0704-GP14-50</i>	<i>GW-0704-GP14-100</i>	<i>GW-0704-GP15-25</i>	<i>GW-0704-GP15-50</i>	<i>GW-0704-GP15-100</i>		
<i>Sample Date:</i>		<i>4/2/2004</i>	<i>7/7/2004</i>	<i>7/7/2004</i>	<i>7/7/2004</i>	<i>7/7/2004</i>	<i>7/7/2004</i>	<i>7/8/2004</i>		
<i>Sample Depth:</i>		<i>96 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>		
<i>elev_MLLW</i>		<i>-78.08</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-82.08</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-82.08</i>		
<i>elev_NGVD</i>		<i>-84.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-88.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-88.4</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>							
<i>Fparam</i>										
Conductivity, field	umhos/cm			18200	1.15	9.00	15.40	4.11	2.96	12.40
Dissolved oxygen (DO), field	µg/L			110	0	0	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts			-191	-182	-202	-196	-132	-198	-187
pH, field	s.u.	7-8.5		7.12	7.12	7.60	7.00	7.46	7.59	7.13
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-
Temperature, field	deg c			14.5	16.7	16.2	17.5	17.3	17.8	16.7
Temperature, field	deg f			-	-	-	-	-	-	-
Turbidity, field	ntu			333	641	280	536	158	830	NM

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>GP-16</i>	<i>GP-16</i>	<i>GP-16</i>	<i>GP-16</i>	<i>G-Shallow</i>	<i>H-01</i>	<i>HC08-EP18</i>		
<i>Sample ID:</i>		<i>GW-0704-GP16-25</i>	<i>GW-0704-FD-01~GP16-25</i>	<i>GW-0704-GP16-50</i>	<i>GW-0704-GP16-100</i>	<i>GW-092513-NH-MW-G-S</i>	<i>GW-092713-NH-H-01</i>	<i>HC08-EP18</i>		
<i>Sample Date:</i>		<i>7/8/2004</i>	<i>7/8/2004</i>	<i>7/8/2004</i>	<i>7/8/2004</i>	<i>9/25/2013</i>	<i>9/27/2013</i>	<i>10/24/2008</i>		
<i>Sample Depth:</i>		<i>25 ft bgs</i>	<i>25 ft bgs</i>	<i>50 ft bgs</i>	<i>100 ft bgs</i>			<i>12 ft BGS</i>		
<i>elev_MLLW</i>		<i>-7.08</i>	<i>-7.08</i>	<i>-32.08</i>	<i>-82.08</i>					
<i>elev_NGVD</i>		<i>-13.4</i>	<i>-13.4</i>	<i>-38.4</i>	<i>-88.4</i>					
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>							
<i>Fparam</i>										
Conductivity, field	umhos/cm			6.85	6.85	3.86	15.20	94200	180	-
Dissolved oxygen (DO), field	µg/L			0	-	0	0	980	210	-
Oxidation reduction potential (ORP), field	millivolts			-201	-	-109	-242	-70	-17	-
pH, field	s.u.	7-8.5		7.42	7.42	8.45	7.09	6.22	10.20	6.57
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-
Temperature, field	deg c			17.4	17.4	17.7	23.1	15.27	17.53	-
Temperature, field	deg f			-	-	-	-	-	-	-
Turbidity, field	ntu			> 999	> 999	279	NM	100	0	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>HC-N11-5</i>	<i>HC-N11-6</i>	<i>HC-N11-8</i>	<i>HW-1</i>	<i>HW-1</i>	
<i>Sample ID:</i>		<i>WG-081612-TS-HC-N11-5-505</i>	<i>WG-081612-TS-HC-N11-6-506</i>	<i>WG-081612-TS-HC-N11-8-507</i>	<i>GW-012407-BS-HW-1-001</i>	<i>GW-012407-BS-HW-1-003</i>	
<i>Sample Date:</i>		<i>8/16/2012</i>	<i>8/16/2012</i>	<i>8/16/2012</i>	<i>1/24/2007</i>	<i>1/24/2007</i>	
<i>Sample Depth:</i>					<i>0.5 to 2.5 ft bml</i>	<i>20 to 22 ft bml</i>	
<i>elev_MLLW</i>					<i>-42.8 to -44.8</i>	<i>-62.3 to -64.3</i>	
<i>elev_NGVD</i>					<i>-49.1 to -51.1</i>	<i>-68.6 to -70.6</i>	
Parameters	Units	CSI	WG				
Fparam							
Conductivity, field	umhos/cm		698	673	584	54000	67200
Dissolved oxygen (DO), field	µg/L		150	0	0	1290	1440
Oxidation reduction potential (ORP), field	millivolts		-104	-156	-159	-339	-425
pH, field	s.u.	7-8.5	6.5	7.06	7.25	11.17	12.02
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		20.32	18.27	17.72	9.08	10.83
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		0	0	0	120.0	811

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>HW-2</i>	<i>HW-2</i>	<i>HW-3</i>	<i>HW-3</i>	<i>HW-4</i>
<i>Sample ID:</i>			<i>GW-012507-BS-HW-2-001</i>	<i>GW-012507-BS-HW-2-002</i>	<i>GW-012207-BS-HW-3-001</i>	<i>GW-012207-BS-HW-3-002</i>	<i>GW-012307-BS-HW-4-001</i>
<i>Sample Date:</i>			<i>1/25/2007</i>	<i>1/25/2007</i>	<i>1/22/2007</i>	<i>1/22/2007</i>	<i>1/23/2007</i>
<i>Sample Depth:</i>			<i>2.5 to 4.5 ft bml</i>	<i>20 to 22 ft bml</i>	<i>9 to 11 ft bml</i>	<i>20 to 22 ft bml</i>	<i>9 to 11 ft bml</i>
<i>elev_MLLW</i>			<i>-44.4 to -46.4</i>	<i>-61.9 to -63.9</i>	<i>-45.8 to -47.8</i>	<i>-56.8 to -58.8</i>	<i>-45 to -47</i>
<i>elev_NGVD</i>			<i>-50.7 to -52.7</i>	<i>-68.2 to -70.2</i>	<i>-52.1 to -54.1</i>	<i>-63.1 to -65.1</i>	<i>-51.3 to -53.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		45400	64100	45800	50400	40200
Dissolved oxygen (DO), field	µg/L		2180	2220	2000	2100	1880
Oxidation reduction potential (ORP), field	millivolts		83	-28	28	-9	102
pH, field	s.u.	7-8.5	8.23	6.99	7.72	7.58	8.44
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		9.11	9.60	10.53	10.13	10.02
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		238.0	46.7	19.7	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HW-4	HYD-1	HYD-1	HYD-1	HYD-1	HYD-1
Sample ID:	GW-012307-BS-HW-4-002	GW-083105-HYD-1-001	GW-083105-HYD-1-002	GW-083105-HYD-1-003	GW-083105-HYD-1-004	GW-090105-HYD-1-005
Sample Date:	1/23/2007	8/31/2005	8/31/2005	8/31/2005	8/31/2005	9/1/2005
Sample Depth:	20 to 22 ft bml	4 to 7 ft bml	14 to 17 ft bml	24 to 27 ft bml	34 to 37 ft bml	44 to 47 ft bml
elev_MLLW	-56 to -58	-40.3 to -43.3	-50.3 to -53.3	-60.3 to -63.3	-70.3 to -73.3	-80.3 to -83.3
elev_NGVD	-62.3 to -64.3	-46.6 to -49.6	-56.6 to -59.6	-66.6 to -69.6	-76.6 to -79.6	-86.6 to -89.6

Parameters Units CSI WG

Fparam

Conductivity, field	umhos/cm		18400	33200	21700	33900	33100	55300
Dissolved oxygen (DO), field	µg/L		2030	3060	3290	3650	3530	2810
Oxidation reduction potential (ORP), field	millivolts		18	-2	-133	-84	-120	-117
pH, field	s.u.	7-8.5	9.23	7.21	8.48	8.18	7.96	7.06
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		11.60	14.0	14.8	15.6	14.3	13.8
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		-	534	0	338	581	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-1	HYD-1	HYD-1	HYD-1	HYD-1	HYD-1
Sample ID:	GW-090105-HYD-1-006	GW-090105-HYD-1-007	GW-090105-HYD-1-008	GW-090105-HYD-1-009	GW-090105-HYD-1-010	GW-090105-HYD-1-011
Sample Date:	9/1/2005	9/1/2005	9/1/2005	9/1/2005	9/1/2005	9/1/2005
Sample Depth:	54 to 57 ft bml	64 to 67 ft bml	74 to 77 ft bml	84 to 87 ft bml	94 to 97 ft bml	104 to 107 ft bml
elev_MLLW	-90.3 to -93.3	-100.3 to -103.3	-110.3 to -113.3	-120.3 to -123.3	-130.3 to -133.3	-140.3 to -143.3
elev_NGVD	-96.6 to -99.6	-106.6 to -109.6	-116.6 to -119.6	-126.6 to -129.6	-136.6 to -139.6	-146.6 to -149.6

Parameters Units CSI WG

Fparam

Parameters	Units	CSI	WG	HYD-1-006	HYD-1-007	HYD-1-008	HYD-1-009	HYD-1-010	HYD-1-011
Conductivity, field	umhos/cm			37100	85400	77800	74800	23900	7300
Dissolved oxygen (DO), field	µg/L			3520	2000	2000	2320	3600	4100
Oxidation reduction potential (ORP), field	millivolts			-109	-106	-310	-228	-35	31
pH, field	s.u.	7-8.5		7.80	7.59	10.93	10.23	9.34	7.27
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			13.6	13.4	13.5	14.4	15.3	16.8
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			888	-	-	6.6	-	515

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>HYD-1</i>	<i>HYD-1</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>	<i>HYD-2</i>		
<i>Sample ID:</i>		<i>GW-090105-HYD-1-012</i>	<i>GW-090105-HYD-1-013</i>	<i>GW-082905-HYD-2-001</i>	<i>GW-082905-HYD-2-002</i>	<i>GW-082905-HYD-2-003</i>	<i>GW-082905-HYD-2-004</i>		
<i>Sample Date:</i>		<i>9/1/2005</i>	<i>9/1/2005</i>	<i>8/29/2005</i>	<i>8/29/2005</i>	<i>8/29/2005</i>	<i>8/29/2005</i>		
<i>Sample Depth:</i>		<i>114 to 117 ft bml</i>	<i>124 to 127 ft bml</i>	<i>8 to 11 ft bml</i>	<i>18 to 21 ft bml</i>	<i>28 to 31 ft bml</i>	<i>38 to 41 ft bml</i>		
<i>elev_MLLW</i>		<i>-150.3 to -153.3</i>	<i>-160.3 to -163.3</i>	<i>-45.8 to -48.8</i>	<i>-55.8 to -58.8</i>	<i>-65.8 to -68.8</i>	<i>-75.8 to -78.8</i>		
<i>elev_NGVD</i>		<i>-156.6 to -159.6</i>	<i>-166.6 to -169.6</i>	<i>-52.1 to -55.1</i>	<i>-62.1 to -65.1</i>	<i>-72.1 to -75.1</i>	<i>-82.1 to -85.1</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			29900	25400	34800	34600	33700	32300
Dissolved oxygen (DO), field	µg/L			3900	3620	2790	3430	3070	4050
Oxidation reduction potential (ORP), field	millivolts			84	-124	-153	-88	-125	-69
pH, field	s.u.	7-8.5		8.48	8.20	8.38	7.96	7.78	7.72
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			15.4	14.3	14.3	15.2	15.1	14.4
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			-	-	-	607	-	176

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			HYD-2	HYD-2	HYD-2	HYD-2	HYD-2	HYD-2
<i>Sample ID:</i>			GW-083005-HYD-2-005	GW-083005-HYD-2-006	GW-083005-HYD-2-007	GW-083005-HYD-2-008	GW-083005-HYD-2-009	GW-083005-HYD-2-010
<i>Sample Date:</i>			8/30/2005	8/30/2005	8/30/2005	8/30/2005	8/30/2005	8/30/2005
<i>Sample Depth:</i>			48 to 51 ft bml	58 to 61 ft bml	68 to 71 ft bml	78 to 81 ft bml	88 to 91 ft bml	98 to 101 ft bml
<i>elev_MLLW</i>			-85.8 to -88.8	-95.8 to -98.8	-105.8 to -108.8	-115.8 to -118.8	-125.8 to -128.8	-135.8 to -138.8
<i>elev_NGVD</i>			-92.1 to -95.1	-102.1 to -105.1	-112.1 to -115.1	-122.1 to -125.1	-132.1 to -135.1	-142.1 to -145.1
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		33300	32400	> 99.9	88000	88600	33000
Dissolved oxygen (DO), field	µg/L		3700	3750	1530	1920	1930	3610
Oxidation reduction potential (ORP), field	millivolts		-83	-49	-25	-359	-256	79
pH, field	s.u.	7-8.5	8.01	7.91	8.78	11.87	10.02	8.57
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		14.0	13.9	15.0	15.3	14.6	14.0
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		148	-	259	-	186	251

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>HYD-2</i>	<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-3</i>		
<i>Sample ID:</i>		<i>GW-083105-HYD-2-011</i>	<i>GW-081005-HYD-3-001</i>	<i>GW-081005-HYD-3-002</i>	<i>GW-081105-HYD-3-003</i>	<i>GW-081105-HYD-3-004</i>	<i>GW-081205-HYD-3-005</i>		
<i>Sample Date:</i>		<i>8/31/2005</i>	<i>8/10/2005</i>	<i>8/10/2005</i>	<i>8/11/2005</i>	<i>8/11/2005</i>	<i>8/12/2005</i>		
<i>Sample Depth:</i>		<i>108 to 111 ft bml</i>	<i>11 to 14 ft bml</i>	<i>21 to 24 ft bml</i>	<i>31 to 34 ft bml</i>	<i>41 to 44 ft bml</i>	<i>51 to 54 ft bml</i>		
<i>elev_MLLW</i>		<i>-145.8 to -148.8</i>	<i>-22.79 to -25.79</i>	<i>-32.79 to -35.79</i>	<i>-42.79 to -45.79</i>	<i>-52.79 to -55.79</i>	<i>-62.79 to -65.79</i>		
<i>elev_NGVD</i>		<i>-152.1 to -155.1</i>	<i>-29.1 to -32.1</i>	<i>-39.1 to -42.1</i>	<i>-49.1 to -52.1</i>	<i>-59.1 to -62.1</i>	<i>-69.1 to -72.1</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			8960	63700	64200	64200	64000	42100
Dissolved oxygen (DO), field	µg/L			3300	1670	340	2020	300	2290
Oxidation reduction potential (ORP), field	millivolts			13	-220	-117	-335	-188	-250
pH, field	s.u.	7-8.5		7.79	7.86	7.83	7.67	7.69	8.38
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			13.4	13.5	14.7	13.8	14.1	12.9
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			0	754	285	470	969	169

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-3</i>
<i>Sample ID:</i>		GW-081205-HYD-3-006	GW-081505-HYD-3-007	GW-081505-HYD-3-008	GW-081505-HYD-3-009	GW-081605-HYD-3-010	GW-081705-HYD-3-011
<i>Sample Date:</i>		8/12/2005	8/15/2005	8/15/2005	8/15/2005	8/16/2005	8/17/2005
<i>Sample Depth:</i>		61 to 64 ft bml	71 to 74 ft bml	81 to 84 ft bml	91 to 94 ft bml	101 to 104 ft bml	111 to 114 ft bml
<i>elev_MLLW</i>		-72.79 to -75.79	-82.79 to -85.79	-92.79 to -95.79	-102.79 to -105.79	-112.79 to -115.79	-122.79 to -125.79
<i>elev_NGVD</i>		-79.1 to -82.1	-89.1 to -92.1	-99.1 to -102.1	-109.1 to -112.1	-119.1 to -122.1	-129.1 to -132.1
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm			61300	99900	99900	99900
Dissolved oxygen (DO), field	µg/L			3090	380	390	90
Oxidation reduction potential (ORP), field	millivolts			-166	-157	-122	-136
pH, field	s.u.	7-8.5		8.01	7.27	6.80	6.60
Specific Gravity~FIELDPARAM	sg			-	-	-	-
Temperature, field	deg c			13.8	14.3	16.3	17.1
Temperature, field	deg f			-	-	-	-
Turbidity, field	ntu			50.0	180	445	710
							440
							591

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>HYD-3</i>	<i>HYD-3</i>	<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-4</i>		
<i>Sample ID:</i>		<i>GW-081705-HYD-3-012</i>	<i>GW-081805-HYD-3-013</i>	<i>GW-092205-HYD-4-001</i>	<i>GW-092205-HYD-4-002</i>	<i>GW-092305-HYD-4-003</i>	<i>GW-092305-HYD-4-004</i>		
<i>Sample Date:</i>		<i>8/17/2005</i>	<i>8/18/2005</i>	<i>9/22/2005</i>	<i>9/22/2005</i>	<i>9/23/2005</i>	<i>9/23/2005</i>		
<i>Sample Depth:</i>		<i>121 to 124 ft bml</i>	<i>131 to 134 ft bml</i>	<i>6 to 9 ft bml</i>	<i>16 to 19 ft bml</i>	<i>26 to 29 ft bml</i>	<i>36 to 39 ft bml</i>		
<i>elev_MLLW</i>		<i>-132.79 to -135.79</i>	<i>-142.79 to -145.79</i>	<i>-50.8 to -53.8</i>	<i>-60.8 to -63.8</i>	<i>-70.8 to -73.8</i>	<i>-80.8 to -83.8</i>		
<i>elev_NGVD</i>		<i>-139.1 to -142.1</i>	<i>-149.1 to -152.1</i>	<i>-57.1 to -60.1</i>	<i>-67.1 to -70.1</i>	<i>-77.1 to -80.1</i>	<i>-87.1 to -90.1</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			92100	15600	76100	71100	85700	78800
Dissolved oxygen (DO), field	µg/L			60	60	290	300	300	340
Oxidation reduction potential (ORP), field	millivolts			-256	-165	-310	-410	-424	-445
pH, field	s.u.	7-8.5		7.53	8.12	11.18	12.89	13.23	13.18
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			16.1	18.0	13.5	12.9	13.0	12.8
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			222	> 999	25	130	24	620

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	HYD-4	HYD-4	HYD-4	HYD-4	HYD-4	HYD-4	
Sample ID:	GW-092305-HYD-4-005	GW-092305-HYD-4-006	GW-092305-HYD-4-007	GW-092405-HYD-4-008	GW-092405-HYD-4-009	GW-092605-HYD-4-010	
Sample Date:	9/23/2005	9/23/2005	9/23/2005	9/24/2005	9/24/2005	9/26/2005	
Sample Depth:	46 to 49 ft bml	46 to 49 ft bml	56 to 59 ft bml	66 to 69 ft bml	76 to 79 ft bml	86 to 89 ft bml	
elev_MLLW	-90.8 to -93.8	-90.8 to -93.8	-100.8 to -103.8	-110.8 to -113.8	-120.8 to -123.8	-130.8 to -133.8	
elev_NGVD	-97.1 to -100.1	-97.1 to -100.1	-107.1 to -110.1	-117.1 to -120.1	-127.1 to -130.1	-137.1 to -140.1	
Parameters	Units	CSI	WG				
Fparam							
Conductivity, field	umhos/cm	> 99.9	> 99.9	87500	66200	10100	8240
Dissolved oxygen (DO), field	µg/L	280	280	310	340	1020	950
Oxidation reduction potential (ORP), field	millivolts	-478	-478	-486	-196	-162	-140
pH, field	s.u.	7-8.5	7-8.5	7.79	7.79	8.51	9.45
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	14.5	14.5	13.4	13.2	12.8	14.3
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	> 999	> 999	> 999	250	21	210

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-4</i>	<i>HYD-5</i>	<i>HYD-5</i>	<i>HYD-5</i>		
<i>Sample ID:</i>		<i>GW-092605-HYD-4-011</i>	<i>GW-092605-HYD-4-012</i>	<i>GW-092605-HYD-4-013</i>	<i>GW-100405-HYD-5-001</i>	<i>GW-100505-HYD-5-002</i>	<i>GW-100505-HYD-5-003</i>		
<i>Sample Date:</i>		<i>9/26/2005</i>	<i>9/26/2005</i>	<i>9/26/2005</i>	<i>10/4/2005</i>	<i>10/5/2005</i>	<i>10/5/2005</i>		
<i>Sample Depth:</i>		<i>96 to 99 ft bml</i>	<i>106 to 109 ft bml</i>	<i>116 to 119 ft bml</i>	<i>14 to 17 ft bml</i>	<i>24 to 27 ft bml</i>	<i>34 to 37 ft bml</i>		
<i>elev_MLLW</i>		<i>-140.8 to -143.8</i>	<i>-150.8 to -153.8</i>	<i>-160.8 to -163.8</i>	<i>-54.47 to -57.47</i>	<i>-64.47 to -67.47</i>	<i>-74.47 to -77.47</i>		
<i>elev_NGVD</i>		<i>-147.1 to -150.1</i>	<i>-157.1 to -160.1</i>	<i>-167.1 to -170.1</i>	<i>-60.8 to -63.8</i>	<i>-70.8 to -73.8</i>	<i>-80.8 to -83.8</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			19100	17100	42800	40200	18900	54400
Dissolved oxygen (DO), field	µg/L			990	930	2180	440	560	550
Oxidation reduction potential (ORP), field	millivolts			-58	-107	-37	-154	-112	-79
pH, field	s.u.	7-8.5		8.87	8.28	8.02	9.88	9.69	9.31
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			15.0	15.5	14.5	13.0	13.0	13.4
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			> 990	> 990	880	310	4	0

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		HYD-5	HYD-5	HYD-5	HYD-5	HYD-5	HYD-6		
Sample ID:		GW-100505-HYD-5-004	GW-100505-HYD-5-005	GW-100505-HYD-5-006	GW-100505-HYD-5-007	GW-100505-HYD-5-008	GW-093005-HYD-6-001		
Sample Date:		10/5/2005	10/5/2005	10/5/2005	10/5/2005	10/5/2005	9/30/2005		
Sample Depth:		34 to 37 ft bml	44 to 47 ft bml	54 to 57 ft bml	64 to 67 ft bml	74 to 84 ft bml	2.3 to 5.3 ft bml		
elev_MLLW		-74.47 to -77.47	-84.47 to -87.47	-94.47 to -97.47	-104.47 to -107.47	-114.47 to -124.47	-43.99 to -46.99		
elev_NGVD		-80.8 to -83.8	-90.8 to -93.8	-100.8 to -103.8	-110.8 to -113.8	-120.8 to -130.8	-50.3 to -53.3		
Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			54400	77400	3410	5540	14400	49700
Dissolved oxygen (DO), field	µg/L			550	1100	850	860	890	300
Oxidation reduction potential (ORP), field	millivolts			-79	-100	-81	-112	-49	-323
pH, field	s.u.	7-8.5		9.31	9.88	10.24	9.89	7.43	10.21
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			13.4	13.8	14.0	13.7	13.5	13.5
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			0	310	110	150	32	70

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>		
<i>Sample ID:</i>		<i>GW-093005-HYD-6-002</i>	<i>GW-093005-HYD-6-003</i>	<i>GW-093005-HYD-6-004</i>	<i>GW-100105-HYD-6-005</i>	<i>GW-100105-HYD-6-006</i>	<i>GW-100305-HYD-6-007</i>		
<i>Sample Date:</i>		<i>9/30/2005</i>	<i>9/30/2005</i>	<i>9/30/2005</i>	<i>10/1/2005</i>	<i>10/1/2005</i>	<i>10/3/2005</i>		
<i>Sample Depth:</i>		<i>12.3 to 15.3 ft bml</i>	<i>22.3 to 25.3 ft bml</i>	<i>32.3 to 35.4 ft bml</i>	<i>42.3 to 45.4 ft bml</i>	<i>52.3 to 55.3 ft bml</i>	<i>62.3 to 65.3 ft bml</i>		
<i>elev_MLLW</i>		<i>-53.99 to -56.99</i>	<i>-63.99 to -66.99</i>	<i>-73.99 to -77.09</i>	<i>-83.99 to -87.09</i>	<i>-93.99 to -96.99</i>	<i>-103.99 to -106.99</i>		
<i>elev_NGVD</i>		<i>-60.3 to -63.3</i>	<i>-70.3 to -73.3</i>	<i>-80.3 to -83.4</i>	<i>-90.3 to -93.4</i>	<i>-100.3 to -103.3</i>	<i>-110.3 to -113.3</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			28300	36600	50400	> 99.9	11300	11000
Dissolved oxygen (DO), field	µg/L			8830	630	640	360	960	660
Oxidation reduction potential (ORP), field	millivolts			-29	-146	-114	-119	-133	-65
pH, field	s.u.	7-8.5		8.63	8.62	8.29	8.37	8.47	9.67
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			15.0	13.2	13.5	13.4	14.3	14.5
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			-	> 990	450	0	> 999	35

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	<i>HYD-6</i>	
<i>Sample ID:</i>		GW-100305-HYD-6-008	GW-100305-HYD-6-009	GW-100405-HYD-6-010	GW-100405-HYD-6-011	GW-100405-HYD-6-012	GW-100405-HYD-6-013	
<i>Sample Date:</i>		10/3/2005	10/3/2005	10/4/2005	10/4/2005	10/4/2005	10/4/2005	
<i>Sample Depth:</i>		62.3 to 65.3 ft bml	72.3 to 75.3 ft bml	82.3 to 85.3 ft bml	92.3 to 95.3 ft bml	102.3 to 105.3 ft bml	112.3 to 115.3 ft bml	
<i>elev_MLLW</i>		-103.99 to -106.99	-113.99 to -116.99	-123.99 to -126.99	-133.99 to -136.99	-143.99 to -146.99	-153.99 to -156.99	
<i>elev_NGVD</i>		-110.3 to -113.3	-120.3 to -123.3	-130.3 to -133.3	-140.3 to -143.3	-150.3 to -153.3	-160.3 to -163.3	
		<i>(Duplicate)</i>						
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>				
<i>Fparam</i>								
Conductivity, field	umhos/cm	11000	14900	15500	22100	3730	4280	
Dissolved oxygen (DO), field	µg/L	660	690	740	2570	1220	1000	
Oxidation reduction potential (ORP), field	millivolts	-65	-103	-62	39	-98	-60	
pH, field	s.u.	7-8.5	9.67	10.19	9.82	9.09	9.71	9.46
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	14.5	13.2	13.0	13.2	13.3	12.8	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	35	30	22	990	180	280	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		HYD-7	HYD-7	HYD-7	HYD-7	HYD-7	HYD-7
<i>Sample ID:</i>		GW-083105-HYD-7-001	GW-083105-HYD-7-002	GW-090105-HYD-7-003	GW-090105-HYD-7-004	GW-091405-HYD-7-006	GW-091505-HYD-7-007
<i>Sample Date:</i>		8/31/2005	8/31/2005	9/1/2005	9/1/2005	9/14/2005	9/15/2005
<i>Sample Depth:</i>		20 to 23 ft bml	20 to 23 ft bml	30 to 33 ft bml	40 to 43 ft bml	60 to 63 ft bml	70 to 73 ft bml
<i>elev_MLLW</i>		-27.5 to -30.5	-27.5 to -30.5	-37.5 to -40.5	-47.5 to -50.5	-67.5 to -70.5	-77.5 to -80.5
<i>elev_NGVD</i>		-33.8 to -36.8	-33.8 to -36.8	-43.8 to -46.8	-53.8 to -56.8	-73.8 to -76.8	-83.8 to -86.8
		(Duplicate)					
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	58200	58200	59800	90800	> 99.9	> 99.9
Dissolved oxygen (DO), field	µg/L	0	0	0	0	2610	1770
Oxidation reduction potential (ORP), field	millivolts	-463	-463	-379	-335	-198	-179
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	16.7	16.7	18.2	19.2	16.1	14.7
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	> 999	> 999	574	> 999	73	50

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			HYD-7	HYD-7	HYD-7	HYD-7	HYD-7	HYD-8
<i>Sample ID:</i>			GW-091505-HYD-7-008	GW-091505-HYD-7-009	GW-091605-HYD-7-010	GW-091605-HYD-7-011	GW-091605-HYD-7-012	GW-091305-HYD-8-002
<i>Sample Date:</i>			9/15/2005	9/15/2005	9/16/2005	9/16/2005	9/16/2005	9/13/2005
<i>Sample Depth:</i>			80 to 83 ft bml	90 to 93 ft bml	100 to 103 ft bml	110 to 113 ft bml	120 to 123 ft bml	2 to 5 ft bml
<i>elev_MLLW</i>			-87.5 to -90.5	-97.5 to -100.5	-107.5 to -110.5	-117.5 to -120.5	-127.5 to -130.5	-40.1 to -43.1
<i>elev_NGVD</i>			-93.8 to -96.8	-103.8 to -106.8	-113.8 to -116.8	-123.8 to -126.8	-133.8 to -136.8	-46.4 to -49.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		> 99.9	20100	14100	15400	17200	49200
Dissolved oxygen (DO), field	µg/L		0	4430	2780	3380	3140	210
Oxidation reduction potential (ORP), field	millivolts		-232	-189	-165	-176	-169	-269
pH, field	s.u.	7-8.5	6.54	7.00	7.60	7.75	7.69	8.63
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		16.1	16.3	14.7	15.5	17.3	16.3
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		110	89	46	617	62.2	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-8</i>
<i>Sample ID:</i>		<i>GW-091305-HYD-8-001</i>	<i>GW-091305-HYD-8-003</i>	<i>GW-091305-HYD-8-004</i>	<i>GW-091405-HYD-8-005</i>	<i>GW-091405-HYD-8-006</i>	<i>GW-091405-HYD-8-007</i>
<i>Sample Date:</i>		<i>9/13/2005</i>	<i>9/13/2005</i>	<i>9/13/2005</i>	<i>9/14/2005</i>	<i>9/14/2005</i>	<i>9/14/2005</i>
<i>Sample Depth:</i>		<i>12 to 15 ft bml</i>	<i>22 to 25 ft bml</i>	<i>32 to 35 ft bml</i>	<i>42 to 45 ft bml</i>	<i>52 to 55 ft bml</i>	<i>62 to 65 ft bml</i>
<i>elev_MLLW</i>		<i>-50.1 to -53.1</i>	<i>-60.1 to -63.1</i>	<i>-70.1 to -73.1</i>	<i>-80.1 to -83.1</i>	<i>-90.1 to -93.1</i>	<i>-100.1 to -103.1</i>
<i>elev_NGVD</i>		<i>-56.4 to -59.4</i>	<i>-66.4 to -69.4</i>	<i>-76.4 to -79.4</i>	<i>-86.4 to -89.4</i>	<i>-96.4 to -99.4</i>	<i>-106.4 to -109.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm			54100	53000	54200	54900
Dissolved oxygen (DO), field	µg/L			1920	3240	630	420
Oxidation reduction potential (ORP), field	millivolts			-128	-30	-129	-148
pH, field	s.u.	7-8.5		7.99	8.28	7.84	7.99
Specific Gravity~FIELDPARAM	sg			-	-	-	-
Temperature, field	deg c			14.8	15.1	14.0	13.6
Temperature, field	deg f			-	-	-	-
Turbidity, field	ntu			176	> 999	> 999	> 999
							248
							281

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>HYD-8</i>	<i>HYD-8</i>	<i>HYD-9</i>	<i>HYD-9</i>	<i>HYD-9</i>	<i>HYD-9</i>		
<i>Sample ID:</i>		<i>GW-091405-HYD-8-008</i>	<i>GW-091405-HYD-8-009</i>	<i>GW-091405-HYD-9-001</i>	<i>GW-091405-HYD-9-002</i>	<i>GW-091505-HYD-9-003</i>	<i>GW-091505-HYD-9-004</i>		
<i>Sample Date:</i>		<i>9/14/2005</i>	<i>9/14/2005</i>	<i>9/14/2005</i>	<i>9/14/2005</i>	<i>9/15/2005</i>	<i>9/15/2005</i>		
<i>Sample Depth:</i>		<i>72 to 75 ft bml</i>	<i>82 to 85 ft bml</i>	<i>2 to 5 ft bml</i>	<i>12 to 15 ft bml</i>	<i>22 to 25 ft bml</i>	<i>32 to 35 ft bml</i>		
<i>elev_MLLW</i>		<i>-110.1 to -113.1</i>	<i>-120.1 to -123.1</i>	<i>-37.35 to -40.35</i>	<i>-47.35 to -50.35</i>	<i>-57.35 to -60.35</i>	<i>-67.35 to -70.35</i>		
<i>elev_NGVD</i>		<i>-116.4 to -119.4</i>	<i>-126.4 to -129.4</i>	<i>-43.7 to -46.7</i>	<i>-53.7 to -56.7</i>	<i>-63.7 to -66.7</i>	<i>-73.7 to -76.7</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			46300	51200	54200	37300	47300	59500
Dissolved oxygen (DO), field	µg/L			860	670	30	1120	610	380
Oxidation reduction potential (ORP), field	millivolts			-130	-174	-215	-141	-118	-137
pH, field	s.u.	7-8.5		7.67	7.96	8.33	7.48	7.50	7.78
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			13.5	13.7	14.6	13.7	13.8	13.6
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			0	242	391	238	325	929

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>HYD-9</i>	<i>HYD-9</i>	<i>HYD-9</i>	<i>HYD-9</i>	<i>HYD-9</i>	<i>HYD-9</i>		
<i>Sample ID:</i>		<i>GW-091505-HYD-9-005</i>	<i>GW-091505-HYD-9-006</i>	<i>GW-091505-HYD-9-007</i>	<i>GW-091505-HYD-9-008</i>	<i>GW-091505-HYD-9-009</i>	<i>GW-091505-HYD-9-010</i>		
<i>Sample Date:</i>		<i>9/15/2005</i>	<i>9/15/2005</i>	<i>9/15/2005</i>	<i>9/15/2005</i>	<i>9/15/2005</i>	<i>9/15/2005</i>		
<i>Sample Depth:</i>		<i>42 to 45 ft bml</i>	<i>52 to 55 ft bml</i>	<i>62 to 65 ft bml</i>	<i>72 to 75 ft bml</i>	<i>82 to 85 ft bml</i>	<i>92 to 95 ft bml</i>		
<i>elev_MLLW</i>		<i>-77.35 to -80.35</i>	<i>-87.35 to -90.35</i>	<i>-97.35 to -100.35</i>	<i>-107.35 to -110.35</i>	<i>-117.35 to -120.35</i>	<i>-127.35 to -130.35</i>		
<i>elev_NGVD</i>		<i>-83.7 to -86.7</i>	<i>-93.7 to -96.7</i>	<i>-103.7 to -106.7</i>	<i>-113.7 to -116.7</i>	<i>-123.7 to -126.7</i>	<i>-133.7 to -136.7</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			60100	28100	42500	55800	55400	55700
Dissolved oxygen (DO), field	µg/L			540	320	180	2700	770	710
Oxidation reduction potential (ORP), field	millivolts			-139	-144	-149	39	-68	-131
pH, field	s.u.	7-8.5		7.82	7.25	7.35	7.87	7.62	7.94
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			13.5	13.7	14.2	14.4	14.1	14.0
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			237	116	> 999	> 999	> 999	251

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>
<i>Sample ID:</i>	<i>GW-091605-HYD-10-001</i>	<i>GW-091605-HYD-10-002</i>	<i>GW-091605-HYD-10-003</i>	<i>GW-091605-HYD-10-004</i>	<i>GW-091605-HYD-10-005</i>	<i>GW-091605-HYD-10-006</i>
<i>Sample Date:</i>	<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>
<i>Sample Depth:</i>	<i>5.3 to 8.3 ft bml</i>	<i>15.3 to 18.3 ft bml</i>	<i>25.3 to 28.3 ft bml</i>	<i>35.3 to 38.3 ft bml</i>	<i>45.3 to 48.3 ft bml</i>	<i>45.3 to 48.3 ft bml</i>
<i>elev_MLLW</i>	<i>-21.9 to -24.9</i>	<i>-31.9 to -34.9</i>	<i>-41.9 to -44.9</i>	<i>-51.9 to -54.9</i>	<i>-61.9 to -64.9</i>	<i>-61.9 to -64.9</i>
<i>elev_NGVD</i>	<i>-28.2 to -31.2</i>	<i>-38.2 to -41.2</i>	<i>-48.2 to -51.2</i>	<i>-58.2 to -61.2</i>	<i>-68.2 to -71.2</i>	<i>-68.2 to -71.2</i>

<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			56700	35800	8390	16000	51700	51700
Dissolved oxygen (DO), field	µg/L			10	520	230	30	1760	1760
Oxidation reduction potential (ORP), field	millivolts			-249	-139	-139	-132	-39	-39
pH, field	s.u.	7-8.5		8.40	8.52	7.71	7.53	7.90	7.90
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			13.2	13.0	13.0	13.3	14.1	14.1
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			160	860	35.6	> 999	720	720

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>	<i>HYD-10</i>
<i>Sample ID:</i>	<i>GW-091605-HYD-10-007</i>	<i>GW-091605-HYD-10-008</i>	<i>GW-091605-HYD-10-009</i>	<i>GW-091605-HYD-10-010</i>	<i>GW-091605-HYD-10-011</i>	<i>GW-091705-HYD-10-012</i>
<i>Sample Date:</i>	<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/16/2005</i>	<i>9/17/2005</i>
<i>Sample Depth:</i>	<i>55.3 to 58.3 ft bml</i>	<i>65.3 to 68.3 ft bml</i>	<i>75.3 to 78.3 ft bml</i>	<i>85.3 to 88.3 ft bml</i>	<i>95.3 to 98.3 ft bml</i>	<i>105.3 to 108.3 ft bml</i>
<i>elev_MLLW</i>	<i>-71.9 to -74.9</i>	<i>-81.9 to -84.9</i>	<i>-91.9 to -94.9</i>	<i>-101.9 to -104.9</i>	<i>-111.9 to -114.9</i>	<i>-121.9 to -124.9</i>
<i>elev_NGVD</i>	<i>-78.2 to -81.2</i>	<i>-88.2 to -91.2</i>	<i>-98.2 to -101.2</i>	<i>-108.2 to -111.2</i>	<i>-118.2 to -121.2</i>	<i>-128.2 to -131.2</i>

<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			51300	51400	52400	44100	42000	46700
Dissolved oxygen (DO), field	µg/L			5840	4990	1660	500	350	460
Oxidation reduction potential (ORP), field	millivolts			54	33	-81	-90	-137	-141
pH, field	s.u.	7-8.5		8.15	8.12	7.87	7.18	7.23	7.53
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			15.3	14.1	13.7	13.6	13.5	13.5
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			586	280	107	310	72	310

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>		
<i>Sample ID:</i>		<i>GW-122005-NL-13-001</i>	<i>GW-122005-NL-13-002</i>	<i>GW-122005-NL-13-003</i>	<i>GW-122005-NL-13-004</i>	<i>GW-122005-NL-13-005</i>	<i>GW-122105-NL-13-006</i>		
<i>Sample Date:</i>		<i>12/20/2005</i>	<i>12/20/2005</i>	<i>12/20/2005</i>	<i>12/20/2005</i>	<i>12/20/2005</i>	<i>12/21/2005</i>		
<i>Sample Depth:</i>		<i>0 to 3 ft bml</i>	<i>3 to 6 ft bml</i>	<i>6 to 9 ft bml</i>	<i>9 to 12 ft bml</i>	<i>12 to 15 ft bml</i>	<i>15 to 18 ft bml</i>		
<i>elev_MLLW</i>		<i>-1.8 to -4.8</i>	<i>-4.8 to -7.8</i>	<i>-7.8 to -10.8</i>	<i>-10.8 to -13.8</i>	<i>-13.8 to -16.8</i>	<i>-16.8 to -19.8</i>		
<i>elev_NGVD</i>		<i>-8.1 to -11.1</i>	<i>-11.1 to -14.1</i>	<i>-14.1 to -17.1</i>	<i>-17.1 to -20.1</i>	<i>-20.1 to -23.1</i>	<i>-23.1 to -26.1</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			44200	38200	32100	27800	20500	44700
Dissolved oxygen (DO), field	µg/L			2330	570	620	700	450	2380
Oxidation reduction potential (ORP), field	millivolts			-258	-398	-441	-477	-459	3
pH, field	s.u.	7-8.5		9.53	9.93	10.63	11.23	10.81	8.55
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			9.9	10.6	11.2	11.4	11.3	10.4
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			293	998	235	300	999	150

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-13</i>	<i>NL-14</i>
<i>Sample ID:</i>		<i>GW-122105-NL-13-007</i>	<i>GW-122105-NL-13-008</i>	<i>GW-122105-NL-13-009</i>	<i>GW-122105-NL-13-010</i>	<i>GW-122105-NL-13-011</i>	<i>GW-121405-NL-14-001</i>
<i>Sample Date:</i>		<i>12/21/2005</i>	<i>12/21/2005</i>	<i>12/21/2005</i>	<i>12/21/2005</i>	<i>12/21/2005</i>	<i>12/14/2005</i>
<i>Sample Depth:</i>		<i>18 to 21 ft bml</i>	<i>18 to 21 ft bml</i>	<i>21 to 24 ft bml</i>	<i>24 to 27 ft bml</i>	<i>27 to 30 ft bml</i>	<i>1 to 4 ft bml</i>
<i>elev_MLLW</i>		<i>-19.8 to -22.8</i>	<i>-19.8 to -22.8</i>	<i>-22.8 to -25.8</i>	<i>-25.8 to -28.8</i>	<i>-28.8 to -31.8</i>	<i>-5.1 to -8.1</i>
<i>elev_NGVD</i>		<i>-26.1 to -29.1</i>	<i>-26.1 to -29.1</i>	<i>-29.1 to -32.1</i>	<i>-32.1 to -35.1</i>	<i>-35.1 to -38.1</i>	<i>-11.4 to -14.4</i>
<i>Parameters</i>	<i>Units</i>	<i>(Duplicate)</i>					
<i>CSi WG</i>							
<i>Fparam</i>							
Conductivity, field	umhos/cm	25800	25800	41700	19900	30200	42100
Dissolved oxygen (DO), field	µg/L	510	510	1670	670	1040	320
Oxidation reduction potential (ORP), field	millivolts	-299	-299	-171	-301	-284	-233
pH, field	s.u.	7-8.5	8.23	8.23	8.18	8.28	8.01
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	10.8	10.8	10.7	11.1	11.1	9.3
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	138	138	250	> 999	> 999	97

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		NL-14	NL-14	NL-14	NL-14	NL-14	NL-14		
Sample ID:		GW-121405-NL-14-002	GW-121405-NL-14-003	GW-121405-NL-14-004	GW-121405-NL-14-005	GW-121505-NL-14-006	GW-121505-NL-14-007		
Sample Date:		12/14/2005	12/14/2005	12/14/2005	12/14/2005	12/15/2005	12/15/2005		
Sample Depth:		4 to 7 ft bml	7 to 10 ft bml	10 to 13 ft bml	13 to 16 ft bml	16 to 19 ft bml	19 to 22 ft bml		
elev_MLLW		-8.1 to -11.1	-11.1 to -14.1	-14.1 to -17.1	-17.1 to -20.1	-20.1 to -23.1	-23.1 to -26.1		
elev_NGVD		-14.4 to -17.4	-17.4 to -20.4	-20.4 to -23.4	-23.4 to -26.4	-26.4 to -29.4	-29.4 to -32.4		
Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			25900	34200	29300	20200	21000	19200
Dissolved oxygen (DO), field	µg/L			440	680	480	760	560	750
Oxidation reduction potential (ORP), field	millivolts			-440	-370	-392	-342	-384	-341
pH, field	s.u.	7-8.5		11.03	9.58	10.04	9.31	10.41	9.28
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			10.6	10.7	10.9	10.4	9.7	10.1
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			480	> 999	> 999	> 999	> 999	> 999

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>NL-14</i>	<i>NL-14</i>	<i>NL-14</i>	<i>NL-14</i>	<i>NL-15</i>	<i>NL-15</i>
<i>Sample ID:</i>		<i>GW-121505-NL-14-008</i>	<i>GW-121505-NL-14-009</i>	<i>GW-121505-NL-14-010</i>	<i>GW-121505-NL-14-011</i>	<i>GW-121605-NL-15-001</i>	<i>GW-121605-NL-15-002</i>
<i>Sample Date:</i>		<i>12/15/2005</i>	<i>12/15/2005</i>	<i>12/15/2005</i>	<i>12/15/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>
<i>Sample Depth:</i>		<i>22 to 25 ft bml</i>	<i>25 to 28 ft bml</i>	<i>25 to 28 ft bml</i>	<i>28 to 31 ft bml</i>	<i>0 to 3 ft bml</i>	<i>3 to 6 ft bml</i>
<i>elev_MLLW</i>		<i>-26.1 to -29.1</i>	<i>-29.1 to -32.1</i>	<i>-29.1 to -32.1</i>	<i>-32.1 to -35.1</i>	<i>-1.8 to -4.8</i>	<i>-4.8 to -7.8</i>
<i>elev_NGVD</i>		<i>-32.4 to -35.4</i>	<i>-35.4 to -38.4</i>	<i>-35.4 to -38.4</i>	<i>-38.4 to -41.4</i>	<i>-8.1 to -11.1</i>	<i>-11.1 to -14.1</i>
<i>Parameters</i>	<i>Units</i>	<i>(Duplicate)</i>					
<i>CSI WG</i>							
<i>Fparam</i>							
Conductivity, field	umhos/cm	19700	26100	26100	17600	46800	26900
Dissolved oxygen (DO), field	µg/L	640	450	450	600	4560	6080
Oxidation reduction potential (ORP), field	millivolts	-367	-397	-397	-316	-69	-279
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	10.7	10.0	10.0	10.1	7.8	5.4
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	> 999	> 999	> 999	430	733	901

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>	<i>NL-15</i>
<i>Sample ID:</i>		<i>GW-121605-NL-15-003</i>	<i>GW-121605-NL-15-004</i>	<i>GW-121605-NL-15-005</i>	<i>GW-121605-NL-15-006</i>	<i>GW-121905-NL-15-007</i>	<i>GW-121905-NL-15-008</i>
<i>Sample Date:</i>		<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/16/2005</i>	<i>12/19/2005</i>	<i>12/19/2005</i>
<i>Sample Depth:</i>		<i>6 to 9 ft bml</i>	<i>9 to 12 ft bml</i>	<i>12 to 15 ft bml</i>	<i>15 to 18 ft bml</i>	<i>18 to 21 ft bml</i>	<i>21 to 24 ft bml</i>
<i>elev_MLLW</i>		<i>-7.8 to -10.8</i>	<i>-10.8 to -13.8</i>	<i>-13.8 to -16.8</i>	<i>-16.8 to -19.8</i>	<i>-19.8 to -22.8</i>	<i>-22.8 to -25.8</i>
<i>elev_NGVD</i>		<i>-14.1 to -17.1</i>	<i>-17.1 to -20.1</i>	<i>-20.1 to -23.1</i>	<i>-23.1 to -26.1</i>	<i>-26.1 to -29.1</i>	<i>-29.1 to -32.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	23400	25700	33400	27800	31700	44200
Dissolved oxygen (DO), field	µg/L	570	650	730	580	750	1570
Oxidation reduction potential (ORP), field	millivolts	-446	-474	-383	-269	-196	-154
pH, field	s.u.	7-8.5	11.49	11.67	9.92	8.59	7.25
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	9.9	10.4	10.6	10.5	10.5	10.6
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	798.0	579	> 999	> 999	> 999	439

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			NL-15	NL-15	NL-16	NL-16	NL-16	NL-16
<i>Sample ID:</i>			GW-121905-NL-15-009	GW-121905-NL-15-010	GW-051806-NL-16-BI-001	GW-051806-NL-16-BI-002	GW-051806-NL-16-BI-003	GW-051806-NL-16-BI-004
<i>Sample Date:</i>			12/19/2005	12/19/2005	5/18/2006	5/18/2006	5/18/2006	5/18/2006
<i>Sample Depth:</i>			24 to 27 ft bml	27 to 30 ft bml	1 to 4 ft bml	5 to 8 ft bml	5 to 8 ft bml	8 to 11 ft bml
<i>elev_MLLW</i>			-25.8 to -28.8	-28.8 to -31.8	-10 to -13	-14 to -17	-14 to -17	-17 to -20
<i>elev_NGVD</i>			-32.1 to -35.1	-35.1 to -38.1	-16.3 to -19.3	-20.3 to -23.3	-20.3 to -23.3 (Duplicate)	-23.3 to -26.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		39800	39400	39300	37400	37400	36300
Dissolved oxygen (DO), field	µg/L		390	470	210	410	410	280
Oxidation reduction potential (ORP), field	millivolts		-328	-435	-276	-233	-233	-225
pH, field	s.u.	7-8.5	8.36	10.00	7.48	8.11	8.11	8.04
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		10.8	10.9	12.88	12.31	12.31	12.52
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		710	999	-	-	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			NL-16	NL-16	NL-16	NL-16	NL-17
<i>Sample ID:</i>			GW-051906-NL-16-BI-005	GW-051906-NL-16-BI-006	GW-051906-NL-16-BI-007	GW-051906-NL-16-BI-008	GW-033006-RB-NL-17-001
<i>Sample Date:</i>			5/19/2006	5/19/2006	5/19/2006	5/19/2006	3/30/2006
<i>Sample Depth:</i>			11 to 14 ft bml	14 to 17 ft bml	17 to 20 ft bml	20 to 23 ft bml	0 to 3 ft bml
<i>elev_MLLW</i>			-20 to -23	-23 to -26	-26 to -29	-29 to -32	-1 to -4
<i>elev_NGVD</i>			-26.3 to -29.3	-29.3 to -32.3	-32.3 to -35.3	-35.3 to -38.3	-7.3 to -10.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		35200	37700	44900	60500	25300
Dissolved oxygen (DO), field	µg/L		8030	10400	10960	6140	8940
Oxidation reduction potential (ORP), field	millivolts		-380	-408	-393	-358	-238
pH, field	s.u.	7-8.5	7.5	8.52	8.55	8.15	11.62
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		12.54	12.69	12.51	12.41	14.76
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		-	-	-	-	118.0

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		NL-17	NL-17	NL-17	NL-17	NL-17
<i>Sample ID:</i>		GW-033006-RB-NL-17-002	GW-033106-GH-NL-17-003	GW-033106-GH-NL-17-004	GW-033106-GH-NL-17-005	GW-033106-GH-NL-17-006
<i>Sample Date:</i>		3/30/2006	3/31/2006	3/31/2006	3/31/2006	3/31/2006
<i>Sample Depth:</i>		3 to 6 ft bml	6 to 9 ft bml	9 to 12 ft bml	12 to 15 ft bml	18 to 21 ft bml
<i>elev_MLLW</i>		-4 to -7	-7 to -10	-10 to -13	-13 to -16	-19 to -22
<i>elev_NGVD</i>		-10.3 to -13.3	-13.3 to -16.3	-16.3 to -19.3	-19.3 to -22.3	-25.3 to -28.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Fparam</i>						
Conductivity, field	umhos/cm	25200	27200	27600	21200	13700
Dissolved oxygen (DO), field	µg/L	8290	900	420	360	90
Oxidation reduction potential (ORP), field	millivolts	-243	-256	-292	-285	-347
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	13.9	12.3	13.1	13.6	14.3
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	758.0	-	-	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>NL-17</i>	<i>NL-23</i>	<i>NL-23</i>	<i>NL-23</i>	<i>NL-23</i>
<i>Sample ID:</i>		<i>GW-033106-GH-NL-17-007</i>	<i>GW-081106-LH-NL23-001</i>	<i>GW-081106-LH-NL23-002</i>	<i>GW-081106-LH-NL23-003</i>	<i>GW-081406-LH-NL23-004</i>
<i>Sample Date:</i>		<i>3/31/2006</i>	<i>8/11/2006</i>	<i>8/11/2006</i>	<i>8/11/2006</i>	<i>8/14/2006</i>
<i>Sample Depth:</i>		<i>18 to 21 ft bml</i>	<i>0 to 3 ft bml</i>	<i>6 to 9 ft bml</i>	<i>6 to 9 ft bml</i>	<i>9 to 12 ft bml</i>
<i>elev_MLLW</i>		<i>-19 to -22</i>	<i>-8 to -11</i>	<i>-14 to -17</i>	<i>-14 to -17</i>	<i>-17 to -20</i>
<i>elev_NGVD</i>		<i>-25.3 to -28.3</i>	<i>-14.3 to -17.3</i>	<i>-20.3 to -23.3</i>	<i>-20.3 to -23.3</i>	<i>-23.3 to -26.3</i>
<i>Parameters</i>		<i>(Duplicate)</i>		<i>(Duplicate)</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Fparam</i>						
Conductivity, field	umhos/cm	13700	> 99.9	> 99.9	68800	60600
Dissolved oxygen (DO), field	µg/L	90	990	0	0	0
Oxidation reduction potential (ORP), field	millivolts	-347	-161	-226	-286	-285
pH, field	s.u.	7-8.5	8.18	9.21	9.69	9.35
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	14.3	14.0	14.9	15.7	15.8
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	-	77.7	310	116	220

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>NL-23</i>	<i>NL-23</i>	<i>NL-23</i>	<i>NL-23</i>	<i>NL-23</i>	<i>NL-23</i>	
<i>Sample ID:</i>		<i>GW-081406-LH-NL23-005</i>	<i>GW-081406-LH-NL23-006</i>	<i>GW-081406-LH-NL23-007</i>	<i>GW-081506-LH-NL23-008</i>	<i>GW-081506-LH-NL23-009</i>	<i>GW-081506-LH-NL23-010</i>	
<i>Sample Date:</i>		<i>8/14/2006</i>	<i>8/14/2006</i>	<i>8/14/2006</i>	<i>8/15/2006</i>	<i>8/15/2006</i>	<i>8/15/2006</i>	
<i>Sample Depth:</i>		<i>12 to 15 ft bml</i>	<i>15 to 18 ft bml</i>	<i>15 to 18 ft bml</i>	<i>18 to 21 ft bml</i>	<i>21 to 24 ft bml</i>	<i>24 to 27 ft bml</i>	
<i>elev_MLLW</i>		<i>-20 to -23</i>	<i>-23 to -26</i>	<i>-23 to -26</i>	<i>-26 to -29</i>	<i>-29 to -32</i>	<i>-32 to -35</i>	
<i>elev_NGVD</i>		<i>-26.3 to -29.3</i>	<i>-29.3 to -32.3</i>	<i>-29.3 to -32.3</i>	<i>-32.3 to -35.3</i>	<i>-35.3 to -38.3</i>	<i>-38.3 to -41.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>(Duplicate)</i>						
<i>CS1</i>	<i>WG</i>							
<i>Fparam</i>								
Conductivity, field	umhos/cm	> 99.9	53600	53600	52500	66300	65500	
Dissolved oxygen (DO), field	µg/L	50	0	0	3560	0	0	
Oxidation reduction potential (ORP), field	millivolts	-217	-343	-343	-341	-284	-319	
pH, field	s.u.	7-8.5	8.77	10.09	10.09	9.91	9.13	9.09
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	16.7	18.0	18.0	14.4	15.8	17.0	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	95.8	412	412	594	807	-	

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-24</i>	<i>NL-24</i>	<i>NL-24</i>	<i>NL-24</i>	<i>NL-24</i>
<i>Sample ID:</i>		<i>GW-011207-BS-NL-24-001</i>	<i>GW-011507-BS-NL-24-002</i>	<i>GW-011507-BS-NL-24-003</i>	<i>GW-011507-BS-NL-24-004</i>	<i>GW-011507-BS-NL-24-005</i>
<i>Sample Date:</i>		<i>1/12/2007</i>	<i>1/15/2007</i>	<i>1/15/2007</i>	<i>1/15/2007</i>	<i>1/15/2007</i>
<i>Sample Depth:</i>		<i>1.5 to 4.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>11.5 to 14.5 ft bml</i>	<i>16.5 to 19.5 ft bml</i>	<i>21.5 to 24.5 ft bml</i>
<i>elev_MLLW</i>		<i>-25.89 to -28.89</i>	<i>-30.89 to -33.89</i>	<i>-35.89 to -38.89</i>	<i>-40.89 to -43.89</i>	<i>-45.89 to -48.89</i>
<i>elev_NGVD</i>		<i>-32.2 to -35.2</i>	<i>-37.2 to -40.2</i>	<i>-42.2 to -45.2</i>	<i>-47.2 to -50.2</i>	<i>-52.2 to -55.2</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>		
<i>Fparam</i>						
Conductivity, field	umhos/cm	33100	34900	35000	24400	38100
Dissolved oxygen (DO), field	µg/L	2550	1480	2020	2410	1880
Oxidation reduction potential (ORP), field	millivolts	-353	-338	-200	-111	-104
pH, field	s.u.	7-8.5	11.36	10.92	9.36	8.45
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	8.16	6.10	8.51	9.14	9.20
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	-	778	411	3.1	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>NL-25</i>	<i>NL-25</i>	<i>NL-25</i>	<i>NL-25</i>	<i>NL-25</i>	
<i>Sample ID:</i>		<i>GW-011807-ILM-NL-25-001</i>	<i>GW-011807-ILM-NL-25-002</i>	<i>GW-011807-ILM-NL-25-003</i>	<i>GW-011807-ILM-NL-25-004</i>	<i>GW-011807-ILM-NL-25-005</i>	
<i>Sample Date:</i>		<i>1/18/2007</i>	<i>1/18/2007</i>	<i>1/18/2007</i>	<i>1/18/2007</i>	<i>1/18/2007</i>	
<i>Sample Depth:</i>		<i>1.5 to 4.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>11.5 to 14.5 ft bml</i>	<i>16.5 to 19.5 ft bml</i>	
<i>elev_MLLW</i>		<i>-29 to -32</i>	<i>-34 to -37</i>	<i>-34 to -37</i>	<i>-39 to -42</i>	<i>-44 to -47</i>	
<i>elev_NGVD</i>		<i>-35.3 to -38.3</i>	<i>-40.3 to -43.3</i>	<i>-40.3 to -43.3</i> <i>(Duplicate)</i>	<i>-45.3 to -48.3</i>	<i>-50.3 to -53.3</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	32100	42800	42800	22300	31200	
Dissolved oxygen (DO), field	µg/L	1790	1680	1680	2030	2050	
Oxidation reduction potential (ORP), field	millivolts	-218	-202	-202	-189	-256	
pH, field	s.u.	7-8.5	8.7	8.63	8.63	8.81	8.52
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	
Temperature, field	deg c	8.87	9.03	9.03	9.20	9.18	
Temperature, field	deg f	-	-	-	-	-	
Turbidity, field	ntu	999	999	999	502	95.8	

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>NL-25</i>	<i>NL-26</i>	<i>NL-26</i>	<i>NL-26</i>	<i>NL-26</i>
<i>Sample ID:</i>			<i>GW-011907-ILM-NL-25-006</i>	<i>GW-011707-ILM-NL-26-001</i>	<i>GW-011707-ILM-NL-26-002</i>	<i>GW-011807-ILM-NL-26-003</i>	<i>GW-011807-ILM-NL-26-004</i>
<i>Sample Date:</i>			<i>1/19/2007</i>	<i>1/17/2007</i>	<i>1/17/2007</i>	<i>1/18/2007</i>	<i>1/18/2007</i>
<i>Sample Depth:</i>			<i>21.5 to 24.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>11.5 to 14.5 ft bml</i>	<i>16.5 to 19.5 ft bml</i>	<i>16.5 to 19.5 ft bml</i>
<i>elev_MLLW</i>			<i>-49 to -52</i>	<i>-26.9 to -29.9</i>	<i>-31.9 to -34.9</i>	<i>-36.9 to -39.9</i>	<i>-36.9 to -39.9</i>
<i>elev_NGVD</i>			<i>-55.3 to -58.3</i>	<i>-33.2 to -36.2</i>	<i>-38.2 to -41.2</i>	<i>-43.2 to -46.2</i>	<i>-43.2 to -46.2</i>
							<i>(Duplicate)</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		35400	17400	17200	14600	14600
Dissolved oxygen (DO), field	µg/L		1900	2080	1930	2010	2010
Oxidation reduction potential (ORP), field	millivolts		-259	-107	-214	-137	-137
pH, field	s.u.	7-8.5	8.48	8.22	7.90	7.83	7.83
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		9.61	8.60	9.59	9.90	9.90
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		83.7	-	657.0	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			NL-26	NL-28	NL-28	NL-28	NL-28
<i>Sample ID:</i>			GW-011807-ILM-NL-26-005	GW-011607-BS-NL-28-001	GW-011707-BS-NL-28-002	GW-011707-BS-NL-28-003	GW-011707-BS-NL-28-004
<i>Sample Date:</i>			1/18/2007	1/16/2007	1/17/2007	1/17/2007	1/17/2007
<i>Sample Depth:</i>			21.5 to 24.5 ft bml	1.5 to 3.5 ft bml	6.5 to 9.5 ft bml	11.5 to 14.5 ft bml	16.5 to 19.5 ft bml
<i>elev_MLLW</i>			-41.9 to -44.9	-4.9 to -6.9	-9.9 to -12.9	-14.9 to -17.9	-19.9 to -22.9
<i>elev_NGVD</i>			-48.2 to -51.2	-11.2 to -13.2	-16.2 to -19.2	-21.2 to -24.2	-26.2 to -29.2
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		13900	40800	23500	24000	32200
Dissolved oxygen (DO), field	µg/L		2190	2190	1870	1940	1960
Oxidation reduction potential (ORP), field	millivolts		-68	-194	-153	-147	-204
pH, field	s.u.	7-8.5	7.97	8.44	8.60	8.86	8.99
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		8.77	7.57	8.94	8.60	9.78
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		-	165.0	193	354	903

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		NL-28	NL-29	NL-29	NL-29	NL-29
<i>Sample ID:</i>		GW-011707-BS-NL-28-005	GW-011807-BS-NL-29-001	GW-011807-BS-NL-29-002	GW-011807-BS-NL-29-003	GW-011807-BS-NL-29-004
<i>Sample Date:</i>		1/17/2007	1/18/2007	1/18/2007	1/18/2007	1/18/2007
<i>Sample Depth:</i>		21.5 to 24.5 ft bml	1.5 to 4.5 ft bml	6.5 to 9.5 ft bml	11.5 to 14.5 ft bml	16.5 to 19.5 ft bml
<i>elev_MLLW</i>		-24.9 to -27.9	-6 to -9	-11 to -14	-16 to -19	-21 to -24
<i>elev_NGVD</i>		-31.2 to -34.2	-12.3 to -15.3	-17.3 to -20.3	-22.3 to -25.3	-27.3 to -30.3
Parameters	Units	CSI WG				
Fparam						
Conductivity, field	umhos/cm	7500	40900	33900	29600	21400
Dissolved oxygen (DO), field	µg/L	2210	1500	1630	1880	2040
Oxidation reduction potential (ORP), field	millivolts	-134	-19	-192	-228	-169
pH, field	s.u.	7-8.5	8.48	8.49	8.36	8.34
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	9.90	8.38	8.78	9.87	9.44
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	241	999	999	999	366

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>NL-29</i>	<i>NL-30</i>	<i>NL-30</i>	<i>NL-30</i>	<i>NL-30</i>
<i>Sample ID:</i>		<i>GW-011807-BS-NL-29-005</i>	<i>GW-011907-BS-NL-30-001</i>	<i>GW-011907-BS-NL-30-002</i>	<i>GW-011907-BS-NL-30-003</i>	<i>GW-011907-ILM-NL-30-004</i>
<i>Sample Date:</i>		<i>1/18/2007</i>	<i>1/19/2007</i>	<i>1/19/2007</i>	<i>1/19/2007</i>	<i>1/19/2007</i>
<i>Sample Depth:</i>		<i>21.5 to 24.5 ft bml</i>	<i>1.5 to 4.5 ft bml</i>	<i>6.5 to 9.5 ft bml</i>	<i>11.5 to 14.5 ft bml</i>	<i>16.5 to 19.5 ft bml</i>
<i>elev_MLLW</i>		<i>-26 to -29</i>	<i>-24.75 to -27.75</i>	<i>-29.75 to -32.75</i>	<i>-34.75 to -37.75</i>	<i>-39.75 to -42.75</i>
<i>elev_NGVD</i>		<i>-32.3 to -35.3</i>	<i>-31.1 to -34.1</i>	<i>-36.1 to -39.1</i>	<i>-41.1 to -44.1</i>	<i>-46.1 to -49.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Fparam</i>						
Conductivity, field	umhos/cm	13100	33000	26600	21500	34800
Dissolved oxygen (DO), field	µg/L	2050	2560	2120	2160	2170
Oxidation reduction potential (ORP), field	millivolts	-147	-228	-266	-258	-212
pH, field	s.u.	7-8.5	8.34	8.19	8.11	8.02
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	9.36	9.29	9.56	9.20	8.79
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	144	999	55	168	999

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>NL-30</i>	<i>NTD-1</i>	<i>NTD-1</i>	<i>NTD-1</i>	<i>NTD-2</i>
<i>Sample ID:</i>			<i>GW-011907-ILM-NL-30-005</i>	<i>GW-011007-TS-NTD1-001</i>	<i>GW-011007-TS-NTD1-002</i>	<i>GW-011107-TS-NTD1-003</i>	<i>GW-121206-ILM-NTD2-003</i>
<i>Sample Date:</i>			<i>1/19/2007</i>	<i>1/10/2007</i>	<i>1/10/2007</i>	<i>1/11/2007</i>	<i>12/12/2006</i>
<i>Sample Depth:</i>			<i>21.5 to 24.5 ft bml</i>	<i>23 to 25 ft bgs</i>	<i>43 to 45 ft bgs</i>	<i>73 to 75 ft bgs</i>	<i>23 to 25 ft bgs</i>
<i>elev_MLLW</i>			<i>-44.75 to -47.75</i>	<i>-5.08 to -7.08</i>	<i>-25.08 to -27.08</i>	<i>-55.08 to -57.08</i>	<i>-4.98 to -6.98</i>
<i>elev_NGVD</i>			<i>-51.1 to -54.1</i>	<i>-11.4 to -13.4</i>	<i>-31.4 to -33.4</i>	<i>-61.4 to -63.4</i>	<i>-11.3 to -13.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		27100	7520	470	667	18600
Dissolved oxygen (DO), field	µg/L		2450	6480	4780	12580	2770
Oxidation reduction potential (ORP), field	millivolts		-150	-66	-36	-82	-248
pH, field	s.u.	7-8.5	7.88	9.94	9.86	9.03	8.08
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		8.75	9.1	9.2	5	15.11
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		364	NR	NR	98.3	58.9

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			NTD-2	NTD-2	NTD-2	Pier25-1	Pier25-1
<i>Sample ID:</i>			GW-121206-ILM-NTD2-004	GW-121306-ILM-NTD2-006	GW-121406-ILM-NTD2-010	GW-063005-Pier25-1-001	GW-070105-Pier25-1-002
<i>Sample Date:</i>			12/12/2006	12/13/2006	12/14/2006	6/30/2005	7/1/2005
<i>Sample Depth:</i>			23 to 25 ft bgs	43 to 45 ft bgs	73 to 75 ft bgs	3 to 5 ft bml	14.5 to 16.5 ft bml
<i>elev_MLLW</i>			-4.98 to -6.98	-24.98 to -26.98	-54.98 to -56.98	-40.6 to -42.6	-52.1 to -54.1
<i>elev_NGVD</i>			-11.3 to -13.3	-31.3 to -33.3	-61.3 to -63.3	-46.9 to -48.9	-58.4 to -60.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		18600	37300	35200	58500	58900
Dissolved oxygen (DO), field	µg/L		2770	2560	2950	3940	4350
Oxidation reduction potential (ORP), field	millivolts		-248	-315	-199	-167	-133
pH, field	s.u.	7-8.5	8.08	11.12	10.26	7.36	7.46
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		15.11	15.72	13.00	20.2	15.3
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		58.9	69.5	-	> 999	364

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>Pier25-1</i>	<i>Pier25-1</i>	<i>Pier25-1</i>	<i>Pier25-1</i>	<i>Pier25-1</i>	<i>Pier25-1</i>
<i>Sample ID:</i>			<i>GW-070105-Pier25-1-003</i>	<i>GW-070105-Pier25-1-004</i>	<i>GW-070505-Pier25-1-005</i>	<i>GW-070505-Pier25-1-006</i>	<i>GW-072605-Pier25-1-007</i>	<i>GW-072605-Pier25-1-008</i>
<i>Sample Date:</i>			<i>7/1/2005</i>	<i>7/1/2005</i>	<i>7/5/2005</i>	<i>7/5/2005</i>	<i>7/26/2005</i>	<i>7/26/2005</i>
<i>Sample Depth:</i>			<i>24.5 to 26.5 ft bml</i>	<i>24.5 to 26.5 ft bml</i>	<i>34.5 to 36.5 ft bml</i>	<i>44.5 to 46.5 ft bml</i>	<i>54.5 to 56.5 ft bml</i>	<i>64.5 to 66.5 ft bml</i>
<i>elev_MLLW</i>			<i>-62.1 to -64.1</i>	<i>-62.1 to -64.1</i>	<i>-72.1 to -74.1</i>	<i>-82.1 to -84.1</i>	<i>-92.1 to -94.1</i>	<i>-102.1 to -104.1</i>
<i>elev_NGVD</i>			<i>-68.4 to -70.4</i>	<i>-68.4 to -70.4</i>	<i>-78.4 to -80.4</i>	<i>-88.4 to -90.4</i>	<i>-98.4 to -100.4</i>	<i>-108.4 to -110.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm		41300	41300	57800	34100	36900	17700
Dissolved oxygen (DO), field	µg/L		4770	4770	4170	4280	3100	3410
Oxidation reduction potential (ORP), field	millivolts		-139	-133	-108	-113	-166	-174
pH, field	s.u.	7-8.5	7.61	7.61	7.35	7.44	7.25	7.95
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		15.9	15.9	16.9	15.6	14.5	15.5
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		> 999	> 999	> 999	> 999	211	-

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-1</i>	<i>Pier25-1</i>	<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-2</i>
<i>Sample ID:</i>		<i>GW-072705-Pier25-1-009</i>	<i>GW-072705-Pier25-1-010</i>	<i>GW-071405-Pier25-2-001</i>	<i>GW-071405-Pier25-2-002</i>	<i>GW-071405-Pier25-2-003</i>	<i>GW-071405-Pier25-2-004</i>
<i>Sample Date:</i>		<i>7/27/2005</i>	<i>7/27/2005</i>	<i>7/14/2005</i>	<i>7/14/2005</i>	<i>7/14/2005</i>	<i>7/14/2005</i>
<i>Sample Depth:</i>		<i>74.5 to 76.5 ft bml</i>	<i>84.5 to 86.5 ft bml</i>	<i>6 to 9 ft bml</i>	<i>16 to 19 ft bml</i>	<i>26 to 29 ft bml</i>	<i>36 to 39 ft bml</i>
<i>elev_MLLW</i>		<i>-112.1 to -114.1</i>	<i>-122.1 to -124.1</i>	<i>-41.2 to -44.2</i>	<i>-51.2 to -54.2</i>	<i>-61.2 to -64.2</i>	<i>-71.2 to -74.2</i>
<i>elev_NGVD</i>		<i>-118.4 to -120.4</i>	<i>-128.4 to -130.4</i>	<i>-47.5 to -50.5</i>	<i>-57.5 to -60.5</i>	<i>-67.5 to -70.5</i>	<i>-77.5 to -80.5</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	10900	5580	58500	55700	50900	52300
Dissolved oxygen (DO), field	µg/L	2940	10780	3970	2340	2600	2820
Oxidation reduction potential (ORP), field	millivolts	-258	80	-198	-214	-181	-176
pH, field	s.u.	7-8.5	7.78	7.55	7.69	7.90	7.48
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	16.7	18.9	13.0	13.2	13.4	13.9
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	0	-	-	898	113	1.4

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-2</i>
<i>Sample ID:</i>		<i>GW-071505-Pier25-2-005</i>	<i>GW-071505-Pier25-2-006</i>	<i>GW-071505-Pier25-2-007</i>	<i>GW-071805-Pier25-2-008</i>	<i>GW-071805-Pier25-2-009</i>	<i>GW-071905-Pier25-2-010</i>
<i>Sample Date:</i>		<i>7/15/2005</i>	<i>7/15/2005</i>	<i>7/15/2005</i>	<i>7/18/2005</i>	<i>7/18/2005</i>	<i>7/19/2005</i>
<i>Sample Depth:</i>		<i>46 to 49 ft bml</i>	<i>56 to 59 ft bml</i>	<i>66 to 69 ft bml</i>	<i>76 to 79 ft bml</i>	<i>86 to 89 ft bml</i>	<i>96 to 99 ft bml</i>
<i>elev_MLLW</i>		<i>-81.2 to -84.2</i>	<i>-91.2 to -94.2</i>	<i>-101.2 to -104.2</i>	<i>-111.2 to -114.2</i>	<i>-121.2 to -124.2</i>	<i>-131.2 to -134.2</i>
<i>elev_NGVD</i>		<i>-87.5 to -90.5</i>	<i>-97.5 to -100.5</i>	<i>-107.5 to -110.5</i>	<i>-117.5 to -120.5</i>	<i>-127.5 to -130.5</i>	<i>-137.5 to -140.5</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	56200	59100	53500	99900	44500	15700
Dissolved oxygen (DO), field	µg/L	2990	3060	3550	1330	1960	1800
Oxidation reduction potential (ORP), field	millivolts	-208	-229	-156	-185	-216	-231
pH, field	s.u.	7-8.5	7.79	7.75	8.09	6.57	7.30
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	13.9	14.0	13.5	14.7	15.2	17.0
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	223	59.4	372	199	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-2</i>	<i>Pier25-3</i>	<i>Pier25-3</i>
<i>Sample ID:</i>	<i>GW-081905-Pier25-2-011</i>	<i>GW-081905-Pier25-2-012</i>	<i>GW-081905-Pier25-2-013</i>	<i>GW-081905-Pier25-2-014</i>	<i>GW-081605-PIER25-3-001</i>	<i>GW-081605-PIER25-3-002</i>
<i>Sample Date:</i>	<i>8/19/2005</i>	<i>8/19/2005</i>	<i>8/19/2005</i>	<i>8/19/2005</i>	<i>8/16/2005</i>	<i>8/16/2005</i>
<i>Sample Depth:</i>	<i>106 to 109 ft bml</i>	<i>116 to 119 ft bml</i>	<i>126 to 129 ft bml</i>	<i>146 to 149 ft bml</i>	<i>36.7 to 39.7 ft bml</i>	<i>46.7 to 49.7 ft bml</i>
<i>elev_MLLW</i>	<i>-141.2 to -144.2</i>	<i>-151.2 to -154.2</i>	<i>-161.2 to -164.2</i>	<i>-181.2 to -184.2</i>	<i>-72.1 to -75.1</i>	<i>-82.1 to -85.1</i>
<i>elev_NGVD</i>	<i>-147.5 to -150.5</i>	<i>-157.5 to -160.5</i>	<i>-167.5 to -170.5</i>	<i>-187.5 to -190.5</i>	<i>-78.4 to -81.4</i>	<i>-88.4 to -91.4</i>
Parameters	Units	CSI	WG			
Fparam						
Conductivity, field	umhos/cm			4750	9700	37600
Dissolved oxygen (DO), field	µg/L			4070	3880	3370
Oxidation reduction potential (ORP), field	millivolts			47	-53	-165
pH, field	s.u.	7-8.5		7.78	7.73	7.65
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			15.3	16.1	14.5
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			70	77	254
						23.8
						685
						446

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-3</i>	<i>Pier25-3</i>	<i>Pier25-3</i>	<i>Pier25-3</i>	<i>Pier25-3</i>
<i>Sample ID:</i>		GW-081605-PIER25-3-003	GW-081605-PIER25-3-004	GW-081605-PIER25-3-005	GW-081605-PIER25-3-006	GW-081705-PIER25-3-007
<i>Sample Date:</i>		8/16/2005	8/16/2005	8/16/2005	8/16/2005	8/17/2005
<i>Sample Depth:</i>		56.7 to 59.7 ft bml	66.7 to 69.7 ft bml	76.7 to 79.7 ft bml	86.7 to 89.7 ft bml	96.7 to 99.7 ft bml
<i>elev_MLLW</i>		-92.1 to -95.1	-102.1 to -105.1	-112.1 to -115.1	-122.1 to -125.1	-132.1 to -135.1
<i>elev_NGVD</i>		-98.4 to -101.4	-108.4 to -111.4	-118.4 to -121.4	-128.4 to -131.4	-138.4 to -141.4
Parameters	Units	CSI WG				
Fparam						
Conductivity, field	umhos/cm	50500	51000	51400	35500	52000
Dissolved oxygen (DO), field	µg/L	4280	3550	3830	3930	3430
Oxidation reduction potential (ORP), field	millivolts	-4	-117	-21	-77	-142
pH, field	s.u.	7-8.5	7.99	8.01	7.95	8.06
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	14.3	13.8	14.4	14.0	14.0
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	246	168	303	662	700

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-3</i>	<i>Pier25-3</i>	<i>Pier25-3</i>	<i>Pier25-3</i>	<i>Pier25-4</i>	<i>Pier25-4</i>			
<i>Sample ID:</i>	GW-081705-PIER25-3-008	GW-081705-PIER25-3-009	GW-081705-PIER25-3-010	GW-081705-PIER25-3-011	GW-081205-Pier25-4-001	GW-081205-Pier25-4-002			
<i>Sample Date:</i>	8/17/2005	8/17/2005	8/17/2005	8/17/2005	8/12/2005	8/12/2005			
<i>Sample Depth:</i>	106.7 to 109.7 ft bml	116.7 to 119.7 ft bml	126.7 to 129.7 ft bml	136.7 to 139.7 ft bml	37.1 to 40.1 ft bml	47.1 to 50.1 ft bml			
<i>elev_MLLW</i>	-142.1 to -145.1	-152.1 to -155.1	-162.1 to -165.1	-172.1 to -175.1	-72.1 to -75.1	-82.1 to -85.1			
<i>elev_NGVD</i>	-148.4 to -151.4	-158.4 to -161.4	-168.4 to -171.4	-178.4 to -181.4	-78.4 to -81.4	-88.4 to -91.4			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			6950	29300	42500	24000	41500	52800
Dissolved oxygen (DO), field	µg/L			4490	3590	3760	3940	4020	3730
Oxidation reduction potential (ORP), field	millivolts			13	-164	-138	-133	-139	-140
pH, field	s.u.	7-8.5		8.07	7.75	7.93	7.68	7.59	7.37
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			13.9	14.1	14.6	15.4	15.2	15.8
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			36	-	-	-	-	87

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-4</i>	<i>Pier25-4</i>	<i>Pier25-4</i>	<i>Pier25-5</i>	<i>Pier25-5</i>	<i>Pier25-5</i>		
<i>Sample ID:</i>		<i>GW-081205-Pier25-4-003</i>	<i>GW-081205-Pier25-4-004</i>	<i>GW-081305-Pier25-4-005</i>	<i>GW-081505-PIER25-5-001</i>	<i>GW-081505-PIER25-5-002</i>	<i>GW-081505-PIER25-5-003</i>		
<i>Sample Date:</i>		<i>8/12/2005</i>	<i>8/12/2005</i>	<i>8/13/2005</i>	<i>8/15/2005</i>	<i>8/15/2005</i>	<i>8/15/2005</i>		
<i>Sample Depth:</i>		<i>67.1 to 70.1 ft bml</i>	<i>77.1 to 80.1 ft bml</i>	<i>87.1 to 90.1 ft bml</i>	<i>32 to 35 ft bml</i>	<i>40.5 to 43.5 ft bml</i>	<i>50.5 to 53.5 ft bml</i>		
<i>elev_MLLW</i>		<i>-102.1 to -105.1</i>	<i>-112.1 to -115.1</i>	<i>-122.1 to -125.1</i>	<i>-73.6 to -76.6</i>	<i>-82.1 to -85.1</i>	<i>-92.1 to -95.1</i>		
<i>elev_NGVD</i>		<i>-108.4 to -111.4</i>	<i>-118.4 to -121.4</i>	<i>-128.4 to -131.4</i>	<i>-79.9 to -82.9</i>	<i>-88.4 to -91.4</i>	<i>-98.4 to -101.4</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			53800	57300	7780	46800	40900	45300
Dissolved oxygen (DO), field	µg/L			3800	3070	4130	4590	4980	5480
Oxidation reduction potential (ORP), field	millivolts			-145	-130	-59	-41	-51	-6
pH, field	s.u.	7-8.5		7.34	7.69	7.95	7.62	7.72	7.71
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			14.8	13.8	13.8	16.1	16.1	14.4
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			137	-	-	167	698	471

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-5</i>	<i>Pier25-5</i>	<i>Pier25-5</i>	<i>Pier25-6</i>	<i>Pier25-6</i>	<i>Pier25-6</i>
<i>Sample ID:</i>		<i>GW-081605-PIER25-5-004</i>	<i>GW-081605-PIER25-5-005</i>	<i>GW-081605-PIER25-5-006</i>	<i>GW-020306-Pier25-6-001</i>	<i>GW-020406-Pier25-6-002</i>	<i>GW-020406-Pier25-6-003</i>
<i>Sample Date:</i>		<i>8/16/2005</i>	<i>8/16/2005</i>	<i>8/16/2005</i>	<i>2/3/2006</i>	<i>2/4/2006</i>	<i>2/4/2006</i>
<i>Sample Depth:</i>		<i>60.5 to 63.5 ft bml</i>	<i>60.5 to 63.5 ft bml</i>	<i>66.5 to 69.5 ft bml</i>	<i>0.5 to 3.5 ft bml</i>	<i>11 to 14 ft bml</i>	<i>21 to 24 ft bml</i>
<i>elev_MLLW</i>		<i>-102.1 to -105.1</i>	<i>-102.1 to -105.1</i>	<i>-108.1 to -111.1</i>	<i>-35.8 to -38.8</i>	<i>-46.3 to -49.3</i>	<i>-56.3 to -59.3</i>
<i>elev_NGVD</i>		<i>-108.4 to -111.4</i>	<i>-108.4 to -111.4</i>	<i>-114.4 to -117.4</i>	<i>-42.1 to -45.1</i>	<i>-52.6 to -55.6</i>	<i>-62.6 to -65.6</i>
<i>Parameters</i>	<i>Units</i>	<i>(Duplicate)</i>					
<i>Fparam</i>	<i>CSI WG</i>						
Conductivity, field	umhos/cm	3050	3050	4000	50600	46300	47100
Dissolved oxygen (DO), field	µg/L	4210	4210	4030	0	120	0
Oxidation reduction potential (ORP), field	millivolts	69	69	-26	-168	-163	-167
pH, field	s.u.	7-8.5	8.22	8.22	8.04	7.95	7.67
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	13.9	13.9	14.4	9.5	9.4	9.3
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	-	-	-	-	137	456

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-6</i>	<i>Pier25-6</i>	<i>Pier25-6</i>	<i>Pier25-6</i>	<i>Pier25-6</i>	<i>Pier25-6</i>		
<i>Sample ID:</i>		<i>GW-020406-Pier25-6-004</i>	<i>GW-020406-Pier25-6-005</i>	<i>GW-081805-PIER25-6-001</i>	<i>GW-081805-PIER25-6-002</i>	<i>GW-081805-PIER25-6-003</i>	<i>GW-081805-PIER25-6-004</i>		
<i>Sample Date:</i>		<i>2/4/2006</i>	<i>2/4/2006</i>	<i>8/18/2005</i>	<i>8/18/2005</i>	<i>8/18/2005</i>	<i>8/18/2005</i>		
<i>Sample Depth:</i>		<i>31 to 34 ft bml</i>	<i>41 to 44 ft bml</i>	<i>45.9 to 48.9 ft bml</i>	<i>55.9 to 58.9 ft bml</i>	<i>65.9 to 68.9 ft bml</i>	<i>75.9 to 78.9 ft bml</i>		
<i>elev_MLLW</i>		<i>-66.3 to -69.3</i>	<i>-76.3 to -79.3</i>	<i>-81.2 to -84.2</i>	<i>-91.2 to -94.2</i>	<i>-101.2 to -104.2</i>	<i>-111.2 to -114.2</i>		
<i>elev_NGVD</i>		<i>-72.6 to -75.6</i>	<i>-82.6 to -85.6</i>	<i>-87.5 to -90.5</i>	<i>-97.5 to -100.5</i>	<i>-107.5 to -110.5</i>	<i>-117.5 to -120.5</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			47000	46800	74300	> 99.9	99700	35300
Dissolved oxygen (DO), field	µg/L			0	50	3020	1940	2350	3710
Oxidation reduction potential (ORP), field	millivolts			-149	-156	-116	-139	-126	-127
pH, field	s.u.	7-8.5		7.55	7.66	6.95	6.65	6.74	7.90
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			9.2	9.1	14.1	14.2	15.1	15.1
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			310	149	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-6</i>	<i>Pier25-6</i>	<i>Pier25-6</i>	<i>Pier25-6</i>	<i>Pier25-7</i>	<i>Pier25-7</i>			
<i>Sample ID:</i>	GW-081805-PIER25-6-005	GW-081805-PIER25-6-006	GW-081805-PIER25-6-007	GW-081905-PIER25-6-008	GW-082405-Pier25-7-001	GW-082405-PIER25-7-002			
<i>Sample Date:</i>	8/18/2005	8/18/2005	8/18/2005	8/19/2005	8/24/2005	8/24/2005			
<i>Sample Depth:</i>	85.9 to 88.9 ft bml	95.9 to 98.9 ft bml	105.9 to 108.9 ft bml	115.9 to 118.9 ft bml	19.3 to 22.3 ft bml	29.3 to 32.3 ft bml			
<i>elev_MLLW</i>	-121.2 to -124.2	-131.2 to -134.2	-141.2 to -144.2	-151.2 to -154.2	-61.2 to -64.2	-71.2 to -74.2			
<i>elev_NGVD</i>	-127.5 to -130.5	-137.5 to -140.5	-147.5 to -150.5	-157.5 to -160.5	-67.5 to -70.5	-77.5 to -80.5			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			20400	14200	36900	10200	34000	34900
Dissolved oxygen (DO), field	µg/L			4340	4260	4150	4350	4010	3820
Oxidation reduction potential (ORP), field	millivolts			-113	9	86	116	-73	-111
pH, field	s.u.	7-8.5		7.92	7.76	7.44	7.63	7.47	7.62
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			15.8	14.5	13.9	13.9	13.9	13.7
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			-	-	-	-	793	70.4

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-7</i>	<i>Pier25-7</i>	<i>Pier25-7</i>	<i>Pier25-7</i>	<i>Pier25-7</i>
<i>Sample ID:</i>		<i>GW-082405-PIER25-7-003</i>	<i>GW-082405-PIER25-7-004</i>	<i>GW-082405-PIER25-7-005</i>	<i>GW-082405-PIER25-7-006</i>	<i>GW-082405-PIER25-7-007</i>
<i>Sample Date:</i>		<i>8/24/2005</i>	<i>8/24/2005</i>	<i>8/24/2005</i>	<i>8/24/2005</i>	<i>8/24/2005</i>
<i>Sample Depth:</i>		<i>39.3 to 42.3 ft bml</i>	<i>49.3 to 52.3 ft bml</i>	<i>59.3 to 62.3 ft bml</i>	<i>69.3 to 72.3 ft bml</i>	<i>79.3 to 82.3 ft bml</i>
<i>elev_MLLW</i>		<i>-81.2 to -84.2</i>	<i>-91.2 to -94.2</i>	<i>-101.2 to -104.2</i>	<i>-111.2 to -114.2</i>	<i>-121.2 to -124.2</i>
<i>elev_NGVD</i>		<i>-87.5 to -90.5</i>	<i>-97.5 to -100.5</i>	<i>-107.5 to -110.5</i>	<i>-117.5 to -120.5</i>	<i>-127.5 to -130.5</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm			32600	29500	12600
Dissolved oxygen (DO), field	µg/L			4000	4240	3980
Oxidation reduction potential (ORP), field	millivolts			-88	-75	-123
pH, field	s.u.	7-8.5		7.50	7.34	7.75
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			13.5	12.9	14.3
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			344	187	-

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Pier25-7</i>	<i>Pier25-7</i>	<i>Pier25-7</i>	<i>Pier25-7</i>	<i>Pier25-7</i>
<i>Sample ID:</i>			<i>GW-082405-PIER25-7-008</i>	<i>GW-082405-PIER25-7-009</i>	<i>GW-082405-PIER25-7-010</i>	<i>GW-082505-PIER25-7-011</i>	<i>GW-082505-PIER25-7-012</i>
<i>Sample Date:</i>			<i>8/24/2005</i>	<i>8/24/2005</i>	<i>8/24/2005</i>	<i>8/25/2005</i>	<i>8/25/2005</i>
<i>Sample Depth:</i>			<i>89.3 to 92.3 ft bml</i>	<i>99.3 to 102.3 ft bml</i>	<i>109.3 to 112.3 ft bml</i>	<i>119.3 to 122.3 ft bml</i>	<i>129.3 to 132.3 ft bml</i>
<i>elev_MLLW</i>			<i>-131.2 to -134.2</i>	<i>-141.2 to -144.2</i>	<i>-151.2 to -154.2</i>	<i>-161.2 to -164.2</i>	<i>-171.2 to -174.2</i>
<i>elev_NGVD</i>			<i>-137.5 to -140.5</i>	<i>-147.5 to -150.5</i>	<i>-157.5 to -160.5</i>	<i>-167.5 to -170.5</i>	<i>-177.5 to -180.5</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		28800	19100	30600	7700	13300
Dissolved oxygen (DO), field	µg/L		4270	3680	3600	4240	3830
Oxidation reduction potential (ORP), field	millivolts		-6	-78	-87	14	-88
pH, field	s.u.	7-8.5	7.59	7.53	7.71	7.82	7.74
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		15.0	14.7	14.2	14.1	14.0
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		-	-	-	50.3	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>						
<i>Sample ID:</i>		<i>Pier25-8</i>	<i>Pier25-8</i>	<i>Pier25-8</i>	<i>Pier25-8</i>	<i>Pier25-8</i>
<i>Sample Date:</i>		GW-082505-PIER25-8-001	GW-082505-PIER25-8-002	GW-082605-PIER25-8-003	GW-082605-PIER25-8-004	GW-082605-PIER25-8-005
<i>Sample Depth:</i>		8/25/2005	8/25/2005	8/26/2005	8/26/2005	8/26/2005
<i>elev_MLLW</i>		4 to 7 ft bml	14 to 17 ft bml	24 to 27 ft bml	34 to 47 ft bml	34 to 47 ft bml
<i>elev_NGVD</i>		-40.1 to -43.1	-50.1 to -53.1	-60.1 to -63.1	-70.1 to -83.1	-70.1 to -83.1
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			<i>(Duplicate)</i>
<i>Fparam</i>						
Conductivity, field	umhos/cm			33100	31400	31400
Dissolved oxygen (DO), field	µg/L			2930	4000	3710
Oxidation reduction potential (ORP), field	millivolts			-15	-69	-116
pH, field	s.u.	7-8.5		6.76	7.94	7.76
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			13.7	13.6	13.8
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			403	770	467
						321
						321

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-8</i>	<i>Pier25-8</i>	<i>Pier25-8</i>	<i>Pier25-8</i>	<i>Pier25-8</i>
<i>Sample ID:</i>		<i>GW-082605-PIER25-8-006</i>	<i>GW-082605-PIER25-8-007</i>	<i>GW-082605-PIER25-8-008</i>	<i>GW-082605-PIER25-8-009</i>	<i>GW-082605-PIER25-8-010</i>
<i>Sample Date:</i>		<i>8/26/2005</i>	<i>8/26/2005</i>	<i>8/26/2005</i>	<i>8/26/2005</i>	<i>8/26/2005</i>
<i>Sample Depth:</i>		<i>44 to 47 ft bml</i>	<i>54 to 57 ft bml</i>	<i>64 to 67 ft bml</i>	<i>74 to 77 ft bml</i>	<i>84 to 87 ft bml</i>
<i>elev_MLLW</i>		<i>-80.1 to -83.1</i>	<i>-90.1 to -93.1</i>	<i>-100.1 to -103.1</i>	<i>-110.1 to -113.1</i>	<i>-120.1 to -123.1</i>
<i>elev_NGVD</i>		<i>-86.4 to -89.4</i>	<i>-96.4 to -99.4</i>	<i>-106.4 to -109.4</i>	<i>-116.4 to -119.4</i>	<i>-126.4 to -129.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm			41300	38400	18300
Dissolved oxygen (DO), field	µg/L			3800	3660	5270
Oxidation reduction potential (ORP), field	millivolts			-79	-70	91
pH, field	s.u.	7-8.5		7.24	7.43	7.52
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			13.5	13.4	16.3
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			171	-	750

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-8</i>	<i>Pier25-8</i>	<i>Pier25-8</i>	<i>Pier25-8</i>	<i>Pier25-9</i>	<i>Pier25-9</i>		
<i>Sample ID:</i>		<i>GW-082605-PIER25-8-011</i>	<i>GW-082605-PIER25-8-012</i>	<i>GW-082605-PIER25-8-013</i>	<i>GW-082605-PIER25-8-014</i>	<i>GW-102505-Pier25-9-001</i>	<i>GW-102505-Pier25-9-002</i>		
<i>Sample Date:</i>		<i>8/26/2005</i>	<i>8/26/2005</i>	<i>8/26/2005</i>	<i>8/26/2005</i>	<i>10/25/2005</i>	<i>10/25/2005</i>		
<i>Sample Depth:</i>		<i>94 to 97 ft bml</i>	<i>104 to 107 ft bml</i>	<i>114 to 117 ft bml</i>	<i>124 to 127 ft bml</i>	<i>31.5 to 34.5 ft bml</i>	<i>41.5 to 44.5 ft bml</i>		
<i>elev_MLLW</i>		<i>-130.1 to -133.1</i>	<i>-140.1 to -143.1</i>	<i>-150.1 to -153.1</i>	<i>-160.1 to -163.1</i>	<i>-71.1 to -74.1</i>	<i>-81.1 to -84.1</i>		
<i>elev_NGVD</i>		<i>-136.4 to -139.4</i>	<i>-146.4 to -149.4</i>	<i>-156.4 to -159.4</i>	<i>-166.4 to -169.4</i>	<i>-77.4 to -80.4</i>	<i>-87.4 to -90.4</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			1810	21100	28800	22600	41500	40400
Dissolved oxygen (DO), field	µg/L			3770	5710	3080	3410	1060	1510
Oxidation reduction potential (ORP), field	millivolts			-52	98	-66	-48	-173	-133
pH, field	s.u.	7-8.5		8.76	7.70	7.46	7.63	7.65	8.27
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			15.3	15.0	14.4	14.0	12.3	12.3
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			-	499	-	-	121	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-9</i>	<i>Pier25-9</i>	<i>Pier25-9</i>	<i>Pier25-9</i>	<i>Pier25-9</i>	<i>Pier25-9</i>		
<i>Sample ID:</i>		<i>GW-102505-Pier25-9-003</i>	<i>GW-102505-Pier25-9-004</i>	<i>GW-102505-Pier25-9-005</i>	<i>GW-102505-Pier25-9-006</i>	<i>GW-102505-Pier25-9-007</i>	<i>GW-102505-Pier25-9-008</i>		
<i>Sample Date:</i>		<i>10/25/2005</i>	<i>10/25/2005</i>	<i>10/25/2005</i>	<i>10/25/2005</i>	<i>10/25/2005</i>	<i>10/25/2005</i>		
<i>Sample Depth:</i>		<i>41.5 to 44.5 ft bml</i>	<i>51.5 to 54.5 ft bml</i>	<i>61.5 to 64.5 ft bml</i>	<i>71.5 to 74.5 ft bml</i>	<i>71.5 to 74.5 ft bml</i>	<i>81.5 to 84.5 ft bml</i>		
<i>elev_MLLW</i>		<i>-81.1 to -84.1</i>	<i>-91.1 to -94.1</i>	<i>-101.1 to -104.1</i>	<i>-111.1 to -114.1</i>	<i>-111.1 to -114.1</i>	<i>-121.1 to -124.1</i>		
<i>elev_NGVD</i>		<i>-87.4 to -90.4</i>	<i>-97.4 to -100.4</i>	<i>-107.4 to -110.4</i>	<i>-117.4 to -120.4</i>	<i>-117.4 to -120.4</i>	<i>-127.4 to -130.4</i>		
<i>Parameters</i>	<i>Units</i>	<i>(Duplicate)</i>		<i>(Duplicate)</i>		<i>(Duplicate)</i>			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			40400	44500	32000	41900	41900	39800
Dissolved oxygen (DO), field	µg/L			1510	3040	680	6780	6780	2480
Oxidation reduction potential (ORP), field	millivolts			-133	30	-207	33	33	-124
pH, field	s.u.	7-8.5		8.27	8.47	8.24	8.17	8.17	7.95
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			12.3	12.8	13.5	13.3	13.3	12.8
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			> 999	> 999	> 999	> 999	> 999	> 999

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Pier25-9</i>	<i>Pier25-9</i>	<i>Pier25-9</i>	<i>Pier25-9</i>	<i>Pier25-10</i>
<i>Sample ID:</i>			<i>GW-102505-Pier25-9-009</i>	<i>GW-102605-Pier25-9-010</i>	<i>GW-102605-Pier25-9-011</i>	<i>GW-102605-Pier25-9-012</i>	<i>GW-102605-Pier25-10-001</i>
<i>Sample Date:</i>			<i>10/25/2005</i>	<i>10/26/2005</i>	<i>10/26/2005</i>	<i>10/26/2005</i>	<i>10/26/2005</i>
<i>Sample Depth:</i>			<i>91.5 to 94.5 ft bml</i>	<i>101.5 to 104.5 ft bml</i>	<i>111.5 to 114.5 ft bml</i>	<i>121.5 to 124.5 ft bml</i>	<i>26 to 29 ft bml</i>
<i>elev_MLLW</i>			<i>-131.1 to -134.1</i>	<i>-141.1 to -144.1</i>	<i>-151.1 to -154.1</i>	<i>-161.1 to -164.1</i>	<i>-61.17 to -64.17</i>
<i>elev_NGVD</i>			<i>-137.4 to -140.4</i>	<i>-147.4 to -150.4</i>	<i>-157.4 to -160.4</i>	<i>-167.4 to -170.4</i>	<i>-67.5 to -70.5</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		4050	17500	2830	13900	42700
Dissolved oxygen (DO), field	µg/L		960	800	1560	2040	1360
Oxidation reduction potential (ORP), field	millivolts		-86	-157	-63	68	-199
pH, field	s.u.	7-8.5	8.27	7.42	8.22	7.86	7.88
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		12.6	12.7	13.1	13.4	11.5
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		262	> 999	> 999	> 999	456

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-10</i>	<i>Pier25-10</i>	<i>Pier25-10</i>	<i>Pier25-10</i>	<i>Pier25-10</i>		
<i>Sample ID:</i>	<i>GW-102705-Pier25-10-002</i>	<i>GW-102705-Pier25-10-003</i>	<i>GW-102705-Pier25-10-004</i>	<i>GW-102705-Pier25-10-005</i>	<i>GW-102705-Pier25-10-006</i>		
<i>Sample Date:</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>		
<i>Sample Depth:</i>	<i>36 to 39 ft bml</i>	<i>46 to 49 ft bml</i>	<i>56 to 59 ft bml</i>	<i>66 to 69 ft bml</i>	<i>76 to 79 ft bml</i>		
<i>elev_MLLW</i>	<i>-71.17 to -74.17</i>	<i>-81.17 to -84.17</i>	<i>-91.17 to -94.17</i>	<i>-101.17 to -104.17</i>	<i>-111.17 to -114.17</i>		
<i>elev_NGVD</i>	<i>-77.5 to -80.5</i>	<i>-87.5 to -90.5</i>	<i>-97.5 to -100.5</i>	<i>-107.5 to -110.5</i>	<i>-117.5 to -120.5</i>		
Parameters	Units	CSI	WG				
Fparam							
Conductivity, field	umhos/cm		48500	73900	> 99.9	81700	42900
Dissolved oxygen (DO), field	µg/L		1150	920	630	700	580
Oxidation reduction potential (ORP), field	millivolts		-183	-139	-181	-168	-204
pH, field	s.u.	7-8.5	7.53	6.84	6.73	6.89	7.82
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		10.6	10.8	11.4	11.8	12.7
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		750	81.3	983	> 999	-

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-10</i>	<i>Pier25-10</i>	<i>Pier25-10</i>	<i>Pier25-10</i>	<i>Pier25-10</i>
<i>Sample ID:</i>	<i>GW-102705-Pier25-10-007</i>	<i>GW-102705-Pier25-10-008</i>	<i>GW-102705-Pier25-10-009</i>	<i>GW-102805-Pier25-10-010</i>	<i>GW-102805-Pier25-10-011</i>
<i>Sample Date:</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/27/2005</i>	<i>10/28/2005</i>	<i>10/28/2005</i>
<i>Sample Depth:</i>	<i>86 to 89 ft bml</i>	<i>96 to 99 ft bml</i>	<i>96 to 99 ft bml</i>	<i>106 to 109 ft bml</i>	<i>116 to 119 ft bml</i>
<i>elev_MLLW</i>	<i>-121.17 to -124.17</i>	<i>-131.17 to -134.17</i>	<i>-131.17 to -134.17</i>	<i>-141.17 to -144.17</i>	<i>-151.17 to -154.17</i>
<i>elev_NGVD</i>	<i>-127.5 to -130.5</i>	<i>-137.5 to -140.5</i>	<i>-137.5 to -140.5</i>	<i>-147.5 to -150.5</i>	<i>-157.5 to -160.5</i>
			<i>(Duplicate)</i>		
Parameters	Units	CSI	WG		
Fparam					
Conductivity, field	umhos/cm		28600	3850	3850
Dissolved oxygen (DO), field	µg/L		700	470	470
Oxidation reduction potential (ORP), field	millivolts		-206	-180	-180
pH, field	s.u.	7-8.5	8.01	8.17	8.17
Specific Gravity~FIELDPARAM	sg		-	-	-
Temperature, field	deg c		12.7	12.2	12.2
Temperature, field	deg f		-	-	-
Turbidity, field	ntu		> 999	220	220
					999
					> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-11</i>	<i>Pier25-11</i>	<i>Pier25-11</i>	<i>Pier25-11</i>	<i>Pier25-11</i>	
<i>Sample ID:</i>		<i>GW-100605-Pier25-11-001</i>	<i>GW-100605-Pier25-11-002</i>	<i>GW-100605-Pier25-11-003</i>	<i>GW-100605-Pier25-11-004</i>	<i>GW-100705-Pier25-11-006</i>	
<i>Sample Date:</i>		<i>10/6/2005</i>	<i>10/6/2005</i>	<i>10/6/2005</i>	<i>10/6/2005</i>	<i>10/7/2005</i>	
<i>Sample Depth:</i>		<i>25 to 28 ft bml</i>	<i>35 to 38 ft bml</i>	<i>35 to 38 ft bml</i>	<i>45 to 48 ft bml</i>	<i>65 to 68 ft bml</i>	
<i>elev_MLLW</i>		<i>-59.88 to -62.88</i>	<i>-69.88 to -72.88</i>	<i>-69.88 to -72.88</i>	<i>-79.88 to -82.88</i>	<i>-99.88 to -102.88</i>	
<i>elev_NGVD</i>		<i>-66.2 to -69.2</i>	<i>-76.2 to -79.2</i>	<i>-76.2 to -79.2</i> <i>(Duplicate)</i>	<i>-86.2 to -89.2</i>	<i>-106.2 to -109.2</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		44200	63300	63300	9600	2380
Dissolved oxygen (DO), field	µg/L		470	550	550	660	1770
Oxidation reduction potential (ORP), field	millivolts		-138	-125	-125	-121	98
pH, field	s.u.	7-8.5	8.18	7.68	7.68	8.44	8.61
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		12.5	12.7	12.7	12.8	12.8
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		560	530	530	34	> 990

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-11</i>	<i>Pier25-11</i>	<i>Pier25-11</i>	<i>Pier25-11</i>	<i>Pier25-11</i>			
<i>Sample ID:</i>	<i>GW-100705-Pier25-11-007</i>	<i>GW-100705-Pier25-11-008</i>	<i>GW-100705-Pier25-11-009</i>	<i>GW-100705-Pier25-11-010</i>	<i>GW-100805-Pier25-11-011</i>			
<i>Sample Date:</i>	<i>10/7/2005</i>	<i>10/7/2005</i>	<i>10/7/2005</i>	<i>10/7/2005</i>	<i>10/8/2005</i>			
<i>Sample Depth:</i>	<i>75 to 78 ft bml</i>	<i>85 to 88 ft bml</i>	<i>95 to 98 ft bml</i>	<i>105 to 108 ft bml</i>	<i>115 to 118 ft bml</i>			
<i>elev_MLLW</i>	<i>-109.88 to -112.88</i>	<i>-119.88 to -122.88</i>	<i>-129.88 to -132.88</i>	<i>-139.88 to -142.88</i>	<i>-149.88 to -152.88</i>			
<i>elev_NGVD</i>	<i>-116.2 to -119.2</i>	<i>-126.2 to -129.2</i>	<i>-136.2 to -139.2</i>	<i>-146.2 to -149.2</i>	<i>-156.2 to -159.2</i>			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			18400	14000	3830	14100	18000
Dissolved oxygen (DO), field	µg/L			1060	1110	1780	570	840
Oxidation reduction potential (ORP), field	millivolts			84	122	17	-64	-97
pH, field	s.u.	7-8.5		8.18	8.11	8.51	8.46	7.93
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			12.7	13.6	14.8	13.0	12.7
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			990	> 990	> 990	> 990	460

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>
<i>Sample ID:</i>		<i>GW-020106-Pier25-12-001</i>	<i>GW-020106-Pier25-12-002</i>	<i>GW-020106-Pier25-12-003</i>	<i>GW-020106-Pier25-12-004</i>	<i>GW-020106-Pier25-12-005</i>
<i>Sample Date:</i>		<i>2/1/2006</i>	<i>2/1/2006</i>	<i>2/1/2006</i>	<i>2/1/2006</i>	<i>2/1/2006</i>
<i>Sample Depth:</i>		<i>0 to 3 ft bml</i>	<i>10 to 13 ft bml</i>	<i>10 to 13 ft bml</i>	<i>20 to 23 ft bml</i>	<i>30 to 33 ft bml</i>
<i>elev_MLLW</i>		<i>-39.7 to -42.7</i>	<i>-49.7 to -52.7</i>	<i>-49.7 to -52.7</i>	<i>-59.7 to -62.7</i>	<i>-69.7 to -72.7</i>
<i>elev_NGVD</i>		<i>-46 to -49</i>	<i>-56 to -59</i>	<i>-56 to -59</i>	<i>-66 to -69</i>	<i>-76 to -79</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm			47800	47800	47800
Dissolved oxygen (DO), field	µg/L			0	40	40
Oxidation reduction potential (ORP), field	millivolts			-171	-152	-152
pH, field	s.u.	7-8.5		8.06	7.69	7.69
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			9.1	8.5	8.5
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			-	223	223
						47300
						76900
						0
						-179
						7.79
						-
						8.6
						-
						-
						588

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	<i>Pier25-12</i>	
<i>Sample ID:</i>	GW-020106-Pier25-12-006	GW-020106-Pier25-12-007	GW-020106-Pier25-12-008	GW-020106-Pier25-12-009	GW-020106-Pier25-12-010	
<i>Sample Date:</i>	2/1/2006	2/1/2006	2/1/2006	2/1/2006	2/1/2006	
<i>Sample Depth:</i>	40 to 43 ft bml	50 to 53 ft bml	60 to 63 ft bml	70 to 73 ft bml	80 to 83 ft bml	
<i>elev_MLLW</i>	-79.7 to -82.7	-89.7 to -92.7	-99.7 to -102.7	-109.7 to -112.7	-119.7 to -122.7	
<i>elev_NGVD</i>	-86 to -89	-96 to -99	-106 to -109	-116 to -119	-126 to -129	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm			97000	> 99.9	> 99.9
Dissolved oxygen (DO), field	µg/L			220	330	0
Oxidation reduction potential (ORP), field	millivolts			-148	-157	-305
pH, field	s.u.	7-8.5		6.86	7.06	10.05
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			8.4	8.8	9.1
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			-	130	280
						10.54
						11.44

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>			
<i>Sample ID:</i>	<i>GW-020206-Pier25-13-001</i>	<i>GW-020206-Pier25-13-002</i>	<i>GW-020206-Pier25-13-003</i>	<i>GW-020206-Pier25-13-004</i>	<i>GW-020206-Pier25-13-005</i>			
<i>Sample Date:</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>			
<i>Sample Depth:</i>	<i>0 to 3 ft bml</i>	<i>10 to 13 ft bml</i>	<i>20 to 23 ft bml</i>	<i>30 to 33 ft bml</i>	<i>30 to 33 ft bml</i>			
<i>elev_MLLW</i>	<i>-42.8 to -45.8</i>	<i>-52.8 to -55.8</i>	<i>-62.8 to -65.8</i>	<i>-72.8 to -75.8</i>	<i>-72.8 to -75.8</i>			
<i>elev_NGVD</i>	<i>-49.1 to -52.1</i>	<i>-59.1 to -62.1</i>	<i>-69.1 to -72.1</i>	<i>-79.1 to -82.1</i>	<i>-79.1 to -82.1</i>			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>		<i>(Duplicate)</i>			
<i>Fparam</i>								
Conductivity, field	umhos/cm			49800	52300	58100	> 99.9	> 99.9
Dissolved oxygen (DO), field	µg/L			400	0	1220	1990	1990
Oxidation reduction potential (ORP), field	millivolts			-152	-140	-131	-103	-103
pH, field	s.u.	7-8.5		8.15	7.21	7.51	7.02	7.02
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			9.3	9.2	8.9	8.6	8.6
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>
<i>Sample ID:</i>		<i>GW-020206-Pier25-13-006</i>	<i>GW-020206-Pier25-13-007</i>	<i>GW-020206-Pier25-13-008</i>	<i>GW-020306-Pier25-13-009</i>	<i>GW-020306-Pier25-13-010</i>
<i>Sample Date:</i>		<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/2/2006</i>	<i>2/3/2006</i>	<i>2/3/2006</i>
<i>Sample Depth:</i>		<i>40 to 43 ft bml</i>	<i>50 to 53 ft bml</i>	<i>60 to 63 ft bml</i>	<i>70 to 73 ft bml</i>	<i>80 to 83 ft bml</i>
<i>elev_MLLW</i>		<i>-82.8 to -85.8</i>	<i>-92.8 to -95.8</i>	<i>-102.8 to -105.8</i>	<i>-112.8 to -115.8</i>	<i>-122.8 to -125.8</i>
<i>elev_NGVD</i>		<i>-89.1 to -92.1</i>	<i>-99.1 to -102.1</i>	<i>-109.1 to -112.1</i>	<i>-119.1 to -122.1</i>	<i>-129.1 to -132.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm			50300	> 99.9	> 99.9
Dissolved oxygen (DO), field	µg/L			3740	0	0
Oxidation reduction potential (ORP), field	millivolts			-1	-393	-447
pH, field	s.u.	7-8.5		8.55	10.88	11.44
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			8.8	9.0	9.0
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			-	-	634
						45.3
						836

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-13</i>	<i>Pier25-14</i>
<i>Sample ID:</i>	<i>GW-020306-Pier25-13-011</i>	<i>GW-020306-Pier25-13-012</i>	<i>GW-020306-Pier25-13-013</i>	<i>GW-020306-Pier25-13-014</i>	<i>GW-111605-Pier25-14-001</i>
<i>Sample Date:</i>	<i>2/3/2006</i>	<i>2/3/2006</i>	<i>2/3/2006</i>	<i>2/3/2006</i>	<i>11/16/2005</i>
<i>Sample Depth:</i>	<i>90 to 93 ft bml</i>	<i>100 to 103 ft bml</i>	<i>110 to 113 ft bml</i>	<i>120 to 123 ft bml</i>	<i>24.1 to 27.1 ft bml</i>
<i>elev_MLLW</i>	<i>-132.8 to -135.8</i>	<i>-142.8 to -145.8</i>	<i>-152.8 to -155.8</i>	<i>-162.8 to -165.8</i>	<i>-59.9 to -62.9</i>
<i>elev_NGVD</i>	<i>-139.1 to -142.1</i>	<i>-149.1 to -152.1</i>	<i>-159.1 to -162.1</i>	<i>-169.1 to -172.1</i>	<i>-66.2 to -69.2</i>
Parameters	Units	CSI	WG		
Fparam					
Conductivity, field	umhos/cm			14000	34000
Dissolved oxygen (DO), field	µg/L			17800	19200
Oxidation reduction potential (ORP), field	millivolts			35700	930
pH, field	s.u.	7-8.5		990	1360
Specific Gravity~FIELDPARAM	sg			-186	-64
Temperature, field	deg c			8.59	8.74
Temperature, field	deg f			8.21	7.98
Turbidity, field	ntu			-	-
				9.0	9.3
				-	-
				133	-
				931	-
				-	669

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-14</i>	<i>Pier25-14</i>	<i>Pier25-14</i>	<i>Pier25-14</i>	<i>Pier25-14</i>			
<i>Sample ID:</i>	GW-111605-Pier25-14-002	GW-111605-Pier25-14-003	GW-111605-Pier25-14-004	GW-111605-Pier25-14-005	GW-111605-Pier25-14-006			
<i>Sample Date:</i>	11/16/2005	11/16/2005	11/16/2005	11/16/2005	11/16/2005			
<i>Sample Depth:</i>	34.1 to 37.1 ft bml	44.1 to 47.1 ft bml	54.1 to 57.1 ft bml	54.1 to 57.1 ft bml	64.1 to 67.1 ft bml			
<i>elev_MLLW</i>	-69.9 to -72.9	-79.9 to -82.9	-89.9 to -92.9	-89.9 to -92.9	-99.9 to -102.9			
<i>elev_NGVD</i>	-76.2 to -79.2	-86.2 to -89.2	-96.2 to -99.2	-96.2 to -99.2 (Duplicate)	-106.2 to -109.2			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			20400	30400	43300	43300	3240
Dissolved oxygen (DO), field	µg/L			1220	2360	6960	6960	810
Oxidation reduction potential (ORP), field	millivolts			13	46	127	127	13
pH, field	s.u.	7-8.5		7.50	7.81	7.73	7.73	8.32
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			11.7	11.4	11.1	11.1	11.0
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			624	999	> 999	> 999	583

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-14</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	<i>Pier25-15</i>
<i>Sample ID:</i>	<i>GW-111605-Pier25-14-007</i>	<i>GW-122205-Pier25-15-001</i>	<i>GW-122205-Pier25-15-002</i>	<i>GW-122205-Pier25-15-003</i>	<i>GW-113005-Pier25-15-001</i>
<i>Sample Date:</i>	<i>11/16/2005</i>	<i>12/22/2005</i>	<i>12/22/2005</i>	<i>12/22/2005</i>	<i>11/30/2005</i>
<i>Sample Depth:</i>	<i>74.1 to 77.1 ft bml</i>	<i>4.4 to 7.4 ft bml</i>	<i>14.4 to 17.4 ft bml</i>	<i>24.4 to 27.4 ft bml</i>	<i>29 to 32 ft bml</i>
<i>elev_MLLW</i>	<i>-109.9 to -112.9</i>	<i>-35.3 to -38.3</i>	<i>-45.3 to -48.3</i>	<i>-55.3 to -58.3</i>	<i>-59.9 to -62.9</i>
<i>elev_NGVD</i>	<i>-116.2 to -119.2</i>	<i>-41.6 to -44.6</i>	<i>-51.6 to -54.6</i>	<i>-61.6 to -64.6</i>	<i>-66.2 to -69.2</i>

<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			32900	50100	48500	47500	59400
Dissolved oxygen (DO), field	µg/L			11600	760	1190	1030	1020
Oxidation reduction potential (ORP), field	millivolts			211	-173	-168	-188	-122
pH, field	s.u.	7-8.5		7.48	7.42	7.68	7.10	7.03
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			9.1	11.2	11.4	11.2	10.2
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			999	161	371	89.3	307

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	<i>Pier25-15</i>	<i>Pier25-15</i>
<i>Sample ID:</i>	<i>GW-113005-Pier25-15-002</i>	<i>GW-113005-Pier25-15-003</i>	<i>GW-113005-Pier25-15-004</i>	<i>GW-120105-Pier25-15-005</i>	<i>GW-120105-Pier25-15-006</i>
<i>Sample Date:</i>	<i>11/30/2005</i>	<i>11/30/2005</i>	<i>11/30/2005</i>	<i>12/1/2005</i>	<i>12/1/2005</i>
<i>Sample Depth:</i>	<i>39 to 42 ft bml</i>	<i>49 to 52 ft bml</i>	<i>59 to 62 ft bml</i>	<i>69 to 72 ft bml</i>	<i>82 to 85 ft bml</i>
<i>elev_MLLW</i>	<i>-69.9 to -72.9</i>	<i>-79.9 to -82.9</i>	<i>-89.9 to -92.9</i>	<i>-99.9 to -102.9</i>	<i>-112.9 to -115.9</i>
<i>elev_NGVD</i>	<i>-76.2 to -79.2</i>	<i>-86.2 to -89.2</i>	<i>-96.2 to -99.2</i>	<i>-106.2 to -109.2</i>	<i>-119.2 to -122.2</i>

<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			20000	9700	4880	4600	4370
Dissolved oxygen (DO), field	µg/L			1070	11580	9040	1080	2460
Oxidation reduction potential (ORP), field	millivolts			-63	87	92	21	42
pH, field	s.u.	7-8.5		7.89	8.85	8.47	8.47	8.39
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			10.0	7.8	8.8	9.8	9.6
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			613	> 999	> 999	> 999	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>Pier25-16</i>	<i>Pier25-16</i>	<i>Pier25-16</i>	<i>Pier25-16</i>	<i>Pier25-16</i>
<i>Sample ID:</i>			<i>GW-121205-Pier25-16-001</i>	<i>GW-121205-Pier25-16-002</i>	<i>GW-121205-Pier25-16-003</i>	<i>GW-112105-PIER25-16-001</i>	<i>GW-112205-PIER25-16-002</i>
<i>Sample Date:</i>			<i>12/12/2005</i>	<i>12/12/2005</i>	<i>12/12/2005</i>	<i>11/21/2005</i>	<i>11/22/2005</i>
<i>Sample Depth:</i>			<i>2 to 5 ft bml</i>	<i>7 to 10 ft bml</i>	<i>14.4 to 17.4 ft bml</i>	<i>24.4 to 27.4 ft bml</i>	<i>34.4 to 37.4 ft bml</i>
<i>elev_MLLW</i>			<i>-37.5 to -40.5</i>	<i>-42.5 to -45.5</i>	<i>-49.9 to -52.9</i>	<i>-59.9 to -62.9</i>	<i>-69.9 to -72.9</i>
<i>elev_NGVD</i>			<i>-43.8 to -46.8</i>	<i>-48.8 to -51.8</i>	<i>-56.2 to -59.2</i>	<i>-66.2 to -69.2</i>	<i>-76.2 to -79.2</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		45700	45100	44800	44900	71900
Dissolved oxygen (DO), field	µg/L		600	800	1250	1070	890
Oxidation reduction potential (ORP), field	millivolts		-214	-214	-172	-59	-106
pH, field	s.u.	7-8.5	7.68	7.83	7.85	7.34	6.81
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		9.9	9.7	9.9	10.3	10.5
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		290	680	930	83	82

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Pier25-16	Pier25-16	Pier25-16	Pier25-16	Pier25-16		
Sample ID:	GW-112205-PIER25-16-003	GW-112205-PIER25-16-004	GW-112205-PIER25-16-005	GW-112205-PIER25-16-006	GW-112205-PIER25-16-007		
Sample Date:	11/22/2005	11/22/2005	11/22/2005	11/22/2005	11/22/2005		
Sample Depth:	44.4 to 47.4 ft bml	44.4 to 47.4 ft bml	54.4 to 57.4 ft bml	64.4 to 67.4 ft bml	74.4 to 77.4 ft bml		
elev_MLLW	-79.9 to -82.9	-79.9 to -82.9	-89.9 to -92.9	-99.9 to -102.9	-109.9 to -112.9		
elev_NGVD	-86.2 to -89.2	-86.2 to -89.2	-96.2 to -99.2	-106.2 to -109.2	-116.2 to -119.2		
Parameters	Units	CSI	WG				
Fparam							
Conductivity, field	umhos/cm		88300	88300	73700	71000	41500
Dissolved oxygen (DO), field	µg/L		620	620	810	350	1620
Oxidation reduction potential (ORP), field	millivolts		-88	-88	-93	-329	73
pH, field	s.u.	7-8.5	7.01	7.01	7.02	8.92	8.43
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		10.8	10.8	10.5	10.3	8.8
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		366	366	89.1	135	> 999

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-16</i>	<i>Pier25-16</i>	<i>Pier25-16</i>	<i>Pier25-16</i>	<i>Pier25-17</i>			
<i>Sample ID:</i>	<i>GW-112205-PIER25-16-008</i>	<i>GW-112205-PIER25-16-009</i>	<i>GW-112205-PIER25-16-010</i>	<i>GW-112205-PIER25-16-011</i>	<i>GW-121205-Pier25-17-001</i>			
<i>Sample Date:</i>	<i>11/22/2005</i>	<i>11/22/2005</i>	<i>11/22/2005</i>	<i>11/22/2005</i>	<i>12/12/2005</i>			
<i>Sample Depth:</i>	<i>84.4 to 87.4 ft bml</i>	<i>94.4 to 97.4 ft bml</i>	<i>104.4 to 107.4 ft bml</i>	<i>114.4 to 117.4 ft bml</i>	<i>6.1 to 9.1 ft bml</i>			
<i>elev_MLLW</i>	<i>-119.9 to -122.9</i>	<i>-129.9 to -132.9</i>	<i>-139.9 to -142.9</i>	<i>-149.9 to -152.9</i>	<i>-43.6 to -46.6</i>			
<i>elev_NGVD</i>	<i>-126.2 to -129.2</i>	<i>-136.2 to -139.2</i>	<i>-146.2 to -149.2</i>	<i>-156.2 to -159.2</i>	<i>-49.9 to -52.9</i>			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			21400	17500	38700	20400	45300
Dissolved oxygen (DO), field	µg/L			1190	440	3570	990	640
Oxidation reduction potential (ORP), field	millivolts			35	-92	38	-18	-198
pH, field	s.u.	7-8.5		8.16	7.97	8.09	7.28	7.77
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			10.5	10.4	10.6	10.9	10.1
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			938	> 999	> 999	> 999	420

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-17</i>	<i>Pier25-17</i>	<i>Pier25-17</i>	<i>Pier25-17</i>	<i>Pier25-17</i>
<i>Sample ID:</i>	<i>GW-121205-Pier25-17-002</i>	<i>GW-121205-Pier25-17-003</i>	<i>GW-111705-Pier25-17-001</i>	<i>GW-111705-Pier25-17-003</i>	<i>GW-111705-Pier25-17-004</i>
<i>Sample Date:</i>	<i>12/12/2005</i>	<i>12/12/2005</i>	<i>11/17/2005</i>	<i>11/17/2005</i>	<i>11/17/2005</i>
<i>Sample Depth:</i>	<i>15.5 to 18.5 ft bml</i>	<i>25.5 to 28.5 ft bml</i>	<i>33.7 to 36.7 ft bml</i>	<i>53.7 to 56.7 ft bml</i>	<i>63.7 to 66.7 ft bml</i>
<i>elev_MLLW</i>	<i>-53 to -56</i>	<i>-63 to -66</i>	<i>-71.2 to -74.2</i>	<i>-91.2 to -94.2</i>	<i>-101.2 to -104.2</i>
<i>elev_NGVD</i>	<i>-59.3 to -62.3</i>	<i>-69.3 to -72.3</i>	<i>-77.5 to -80.5</i>	<i>-97.5 to -100.5</i>	<i>-107.5 to -110.5</i>

<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm			45500	60000	78000	> 99.9
Dissolved oxygen (DO), field	µg/L			660	460	1470	440
Oxidation reduction potential (ORP), field	millivolts			-163	-179	47	-40
pH, field	s.u.	7-8.5		7.68	7.16	7.19	8.26
Specific Gravity~FIELDPARAM	sg			-	-	-	-
Temperature, field	deg c			10.0	10.1	11.1	11.1
Temperature, field	deg f			-	-	-	-
Turbidity, field	ntu			273	> 999	179	> 999

9.52

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-17</i>	<i>Pier25-17</i>	<i>Pier25-17</i>	<i>Pier25-17</i>	<i>Pier25-18</i>
<i>Sample ID:</i>		<i>GW-111705-Pier25-17-005</i>	<i>GW-111705-Pier25-17-006</i>	<i>GW-111705-Pier25-17-007</i>	<i>GW-112105-Pier25-17-008</i>	<i>GW-120805-Pier25-18-001</i>
<i>Sample Date:</i>		<i>11/17/2005</i>	<i>11/17/2005</i>	<i>11/17/2005</i>	<i>11/21/2005</i>	<i>12/8/2005</i>
<i>Sample Depth:</i>		<i>73.7 to 76.7 ft bml</i>	<i>83.7 to 86.7 ft bml</i>	<i>93.7 to 96.7 ft bml</i>	<i>103.7 to 106.7 ft bml</i>	<i>2 to 5 ft bml</i>
<i>elev_MLLW</i>		<i>-111.2 to -114.2</i>	<i>-121.2 to -124.2</i>	<i>-131.2 to -134.2</i>	<i>-141.2 to -144.2</i>	<i>-36.5 to -39.5</i>
<i>elev_NGVD</i>		<i>-117.5 to -120.5</i>	<i>-127.5 to -130.5</i>	<i>-137.5 to -140.5</i>	<i>-147.5 to -150.5</i>	<i>-42.8 to -45.8</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm			96700	44500	9950
Dissolved oxygen (DO), field	µg/L			700	1300	1140
Oxidation reduction potential (ORP), field	millivolts			-389	-9	-45
pH, field	s.u.	7-8.5		11.36	7.50	8.31
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			11.0	11.0	11.2
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			12.8	88	> 999
						799
						999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>			
<i>Sample ID:</i>	<i>GW-120805-Pier25-18-002</i>	<i>GW-120805-Pier25-18-003</i>	<i>GW-120805-Pier25-18-004</i>	<i>GW-120805-Pier25-18-005</i>	<i>GW-120905-Pier25-18-006</i>			
<i>Sample Date:</i>	<i>12/8/2005</i>	<i>12/8/2005</i>	<i>12/8/2005</i>	<i>12/9/2005</i>	<i>12/9/2005</i>			
<i>Sample Depth:</i>	<i>12 to 15 ft bml</i>	<i>12 to 15 ft bml</i>	<i>22 to 25 ft bml</i>	<i>32 to 35 ft bml</i>	<i>42 to 45 ft bml</i>			
<i>elev_MLLW</i>	<i>-46.5 to -49.5</i>	<i>-46.5 to -49.5</i>	<i>-56.5 to -59.5</i>	<i>-66.5 to -69.5</i>	<i>-76.5 to -79.5</i>			
<i>elev_NGVD</i>	<i>-52.8 to -55.8</i>	<i>-52.8 to -55.8</i>	<i>-62.8 to -65.8</i>	<i>-72.8 to -75.8</i>	<i>-82.8 to -85.8</i>			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			49900	49900	63900	85700	> 99.9
Dissolved oxygen (DO), field	µg/L			1440	1440	1020	1120	480
Oxidation reduction potential (ORP), field	millivolts			-138	-138	-156	-144	-141
pH, field	s.u.	7-8.5		7.65	7.65	7.19	7.01	8.01
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			9.4	9.4	8.9	8.7	8.9
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			213	213	810	165	78.0

(Duplicate)

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>
<i>Sample ID:</i>			<i>GW-120905-Pier25-18-007</i>	<i>GW-120905-Pier25-18-008</i>	<i>GW-120905-Pier25-18-009</i>	<i>GW-120905-Pier25-18-010</i>	<i>GW-120905-Pier25-18-011</i>
<i>Sample Date:</i>			<i>12/9/2005</i>	<i>12/9/2005</i>	<i>12/9/2005</i>	<i>12/9/2005</i>	<i>12/9/2005</i>
<i>Sample Depth:</i>			<i>52 to 55 ft bml</i>	<i>62 to 65 ft bml</i>	<i>72 to 75 ft bml</i>	<i>82 to 85 ft bml</i>	<i>92 to 95 ft bml</i>
<i>elev_MLLW</i>			<i>-86.5 to -89.5</i>	<i>-96.5 to -99.5</i>	<i>-106.5 to -109.5</i>	<i>-116.5 to -119.5</i>	<i>-126.5 to -129.5</i>
<i>elev_NGVD</i>			<i>-92.8 to -95.8</i>	<i>-102.8 to -105.8</i>	<i>-112.8 to -115.8</i>	<i>-122.8 to -125.8</i>	<i>-132.8 to -135.8</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		> 99.9	91500	> 99.9	82700	38700
Dissolved oxygen (DO), field	µg/L		500	140	170	350	1570
Oxidation reduction potential (ORP), field	millivolts		-172	-434	-439	-351	-114
pH, field	s.u.	7-8.5	7.69	11.73	11.59	8.34	8.88
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		9.7	8.7	8.8	10.3	10.6
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		119	11.4	663	464	623

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-18</i>	<i>Pier25-19</i>	<i>Pier25-19</i>			
<i>Sample ID:</i>	<i>GW-120905-Pier25-18-012</i>	<i>GW-120905-Pier25-18-013</i>	<i>GW-120905-Pier25-18-014</i>	<i>GW-120705-Pier25-19-001</i>	<i>GW-120705-Pier25-19-002</i>			
<i>Sample Date:</i>	<i>12/9/2005</i>	<i>12/9/2005</i>	<i>12/9/2005</i>	<i>12/7/2005</i>	<i>12/7/2005</i>			
<i>Sample Depth:</i>	<i>102 to 105 ft bml</i>	<i>112 to 115 ft bml</i>	<i>122 to 125 ft bml</i>	<i>2.6 to 5.6 ft bml</i>	<i>12.6 to 15.6 ft bml</i>			
<i>elev_MLLW</i>	<i>-136.5 to -139.5</i>	<i>-146.5 to -149.5</i>	<i>-156.5 to -159.5</i>	<i>-39.2 to -42.2</i>	<i>-49.2 to -52.2</i>			
<i>elev_NGVD</i>	<i>-142.8 to -145.8</i>	<i>-152.8 to -155.8</i>	<i>-162.8 to -165.8</i>	<i>-45.5 to -48.5</i>	<i>-55.5 to -58.5</i>			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			148000	17700	10800	47000	49200
Dissolved oxygen (DO), field	µg/L			3750	3450	1270	1020	680
Oxidation reduction potential (ORP), field	millivolts			-83	-80	-87	-197	-199
pH, field	s.u.	7-8.5		8.42	8.34	7.87	7.90	7.63
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			9.8	9.3	9.2	9.6	9.7
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			> 999.0	> 999.0	44	287	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>			
<i>Sample ID:</i>	GW-120705-Pier25-19-003	GW-120705-Pier25-19-004	GW-120705-Pier25-19-005	GW-120705-Pier25-19-006	GW-120705-Pier25-19-007			
<i>Sample Date:</i>	12/7/2005	12/7/2005	12/7/2005	12/7/2005	12/7/2005			
<i>Sample Depth:</i>	22.6 to 25.6 ft bml	32.6 to 35.6 ft bml	42.6 to 45.6 ft bml	52.6 to 55.6 ft bml	62.6 to 65.6 ft bml			
<i>elev_MLLW</i>	-59.2 to -62.2	-69.2 to -72.2	-79.2 to -82.2	-89.2 to -92.2	-99.2 to -102.2			
<i>elev_NGVD</i>	-65.5 to -68.5	-75.5 to -78.5	-85.5 to -88.5	-95.5 to -98.5	-105.5 to -108.5			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			54000	76600	> 99.9	48700	> 99.9
Dissolved oxygen (DO), field	µg/L			2250	1300	920	1880	300
Oxidation reduction potential (ORP), field	millivolts			-106	-142	-153	-153	-299
pH, field	s.u.	7-8.5		7.55	7.18	7.23	7.87	8.58
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			10.0	10.1	10.0	10.1	9.6
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			> 999	> 999	747	> 999	62

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	<i>Pier25-19</i>	
<i>Sample ID:</i>	GW-120705-Pier25-19-008	GW-120705-Pier25-19-009	GW-120805-Pier25-19-010	GW-120805-Pier25-19-011	GW-120805-Pier25-19-012	
<i>Sample Date:</i>	12/7/2005	12/7/2005	12/8/2005	12/8/2005	12/8/2005	
<i>Sample Depth:</i>	72.6 to 75.6 ft bml	82.6 to 85.6 ft bml	92.6 to 95.6 ft bml	102.6 to 105.6 ft bml	112.6 to 115.6 ft bml	
<i>elev_MLLW</i>	-109.2 to -112.2	-119.2 to -122.2	-129.2 to -132.2	-139.2 to -142.2	-149.2 to -152.2	
<i>elev_NGVD</i>	-115.5 to -118.5	-125.5 to -128.5	-135.5 to -138.5	-145.5 to -148.5	-155.5 to -158.5	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm			48700	31500	13300
Dissolved oxygen (DO), field	µg/L			660	1440	1940
Oxidation reduction potential (ORP), field	millivolts			-236	-168	-91
pH, field	s.u.	7-8.5		8.28	7.85	8.01
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			9.5	9.0	8.7
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			> 999	670	12.0
						> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-20</i>	<i>Pier25-20</i>	<i>Pier25-20</i>	<i>Pier25-20</i>	<i>Pier25-20</i>
<i>Sample ID:</i>		<i>GW-120605-Pier25-20-001</i>	<i>GW-120605-Pier25-20-002</i>	<i>GW-120605-Pier25-20-003</i>	<i>GW-120605-Pier25-20-004</i>	<i>GW-120605-Pier25-20-005</i>
<i>Sample Date:</i>		<i>12/6/2005</i>	<i>12/6/2005</i>	<i>12/6/2005</i>	<i>12/6/2005</i>	<i>12/6/2005</i>
<i>Sample Depth:</i>		<i>2 to 5 ft bml</i>	<i>12 to 15 ft bml</i>	<i>12 to 15 ft bml</i>	<i>20 to 23 ft bml</i>	<i>30 to 33 ft bml</i>
<i>elev_MLLW</i>		<i>-31.9 to -34.9</i>	<i>-41.9 to -44.9</i>	<i>-41.9 to -44.9</i>	<i>-49.9 to -52.9</i>	<i>-59.9 to -62.9</i>
<i>elev_NGVD</i>		<i>-38.2 to -41.2</i>	<i>-48.2 to -51.2</i>	<i>-48.2 to -51.2</i> <i>(Duplicate)</i>	<i>-56.2 to -59.2</i>	<i>-66.2 to -69.2</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm			48200	46900	46900
Dissolved oxygen (DO), field	µg/L			1500	940	940
Oxidation reduction potential (ORP), field	millivolts			0	-43	-43
pH, field	s.u.	7-8.5		8.01	7.93	7.93
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			9.8	9.5	9.5
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			435	999	999
						236
						96.9
						6.90

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>Pier25-20</i>	<i>Pier25-20</i>	<i>Pier25-20</i>	<i>Pier25-20</i>	<i>Pier25-20</i>
<i>Sample ID:</i>			<i>GW-120605-Pier25-20-006</i>	<i>GW-120605-Pier25-20-007</i>	<i>GW-120605-Pier25-20-008</i>	<i>GW-120605-Pier25-20-009</i>	<i>GW-120605-Pier25-20-010</i>
<i>Sample Date:</i>			<i>12/6/2005</i>	<i>12/6/2005</i>	<i>12/6/2005</i>	<i>12/6/2005</i>	<i>12/6/2005</i>
<i>Sample Depth:</i>			<i>40 to 43 ft bml</i>	<i>50 to 53 ft bml</i>	<i>60 to 63 ft bml</i>	<i>70 to 73 ft bml</i>	<i>80 to 82 ft bml</i>
<i>elev_MLLW</i>			<i>-69.9 to -72.9</i>	<i>-79.9 to -82.9</i>	<i>-89.9 to -92.9</i>	<i>-99.9 to -102.9</i>	<i>-109.9 to -111.9</i>
<i>elev_NGVD</i>			<i>-76.2 to -79.2</i>	<i>-86.2 to -89.2</i>	<i>-96.2 to -99.2</i>	<i>-106.2 to -109.2</i>	<i>-116.2 to -118.2</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		80700	23900	35100	6190	32300
Dissolved oxygen (DO), field	µg/L		1010	970	250	340	570
Oxidation reduction potential (ORP), field	millivolts		-80	-20	-83	-176	-114
pH, field	s.u.	7-8.5	6.99	7.52	7.90	8.34	7.73
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		9.6	9.9	9.9	10.0	10.2
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		883	353	-	> 999	> 999

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-20</i>	<i>Pier25-20</i>	<i>Pier25-21</i>	<i>Pier25-21</i>	<i>Pier25-21</i>			
<i>Sample ID:</i>	<i>GW-120605-Pier25-20-011</i>	<i>GW-120605-Pier25-20-012</i>	<i>GW-010306-Pier25-21-001</i>	<i>GW-010306-Pier25-21-002</i>	<i>GW-010306-Pier25-21-003</i>			
<i>Sample Date:</i>	<i>12/6/2005</i>	<i>12/6/2005</i>	<i>1/3/2006</i>	<i>1/3/2006</i>	<i>1/3/2006</i>			
<i>Sample Depth:</i>	<i>90 to 93 ft bml</i>	<i>100 to 103 ft bml</i>	<i>0.5 to 3.5 ft bml</i>	<i>10.5 to 13.5 ft bml</i>	<i>20.5 to 23.5 ft bml</i>			
<i>elev_MLLW</i>	<i>-119.9 to -122.9</i>	<i>-129.9 to -132.9</i>	<i>-32 to -35</i>	<i>-42 to -45</i>	<i>-52 to -55</i>			
<i>elev_NGVD</i>	<i>-126.2 to -129.2</i>	<i>-136.2 to -139.2</i>	<i>-38.3 to -41.3</i>	<i>-48.3 to -51.3</i>	<i>-58.3 to -61.3</i>			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			14200	7260	34300	32000	32100
Dissolved oxygen (DO), field	µg/L			840	1500	1000	850	1900
Oxidation reduction potential (ORP), field	millivolts			-171	92	-61	-87	-107
pH, field	s.u.	7-8.5		7.91	7.71	7.68	7.67	7.61
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			10.2	9.6	7.6	8.8	8.6
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			> 999	45	> 999	95	335

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>Pier25-21</i>	<i>Pier25-21</i>	<i>Pier25-21</i>	<i>Pier25-21</i>	<i>Pier25-21</i>
<i>Sample ID:</i>			<i>GW-010306-Pier25-21-004</i>	<i>GW-010306-Pier25-21-005</i>	<i>GW-010406-Pier25-21-006</i>	<i>GW-010406-Pier25-21-007</i>	<i>GW-010406-Pier25-21-008</i>
<i>Sample Date:</i>			<i>1/3/2006</i>	<i>1/3/2006</i>	<i>1/4/2006</i>	<i>1/4/2006</i>	<i>1/4/2006</i>
<i>Sample Depth:</i>			<i>20.5 to 23.5 ft bml</i>	<i>30.5 to 33.5 ft bml</i>	<i>50.5 to 53.5 ft bml</i>	<i>60.5 to 63.5 ft bml</i>	<i>70.5 to 73.5 ft bml</i>
<i>elev_MLLW</i>			<i>-52 to -55</i>	<i>-62 to -65</i>	<i>-82 to -85</i>	<i>-92 to -95</i>	<i>-102 to -105</i>
<i>elev_NGVD</i>			<i>-58.3 to -61.3</i>	<i>-68.3 to -71.3</i>	<i>-88.3 to -91.3</i>	<i>-98.3 to -101.3</i>	<i>-108.3 to -111.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		32100	500	8160	551	19800
Dissolved oxygen (DO), field	µg/L		1900	-	10790	510	220
Oxidation reduction potential (ORP), field	millivolts		-107	-40	83	15	-111
pH, field	s.u.	7-8.5	7.61	8.03	7.94	8.84	7.26
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		8.6	8.0	7.8	8.4	9.1
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		335	999	999	> 999	> 999.0

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-21</i>	<i>Pier25-21</i>	<i>Pier25-22</i>	<i>Pier25-22</i>	<i>Pier25-22</i>	
<i>Sample ID:</i>	GW-010406-Pier25-21-009	GW-010406-Pier25-21-010	GW-011706-Pier25-22-001	GW-011706-Pier25-22-002	GW-011706-Pier25-22-003	
<i>Sample Date:</i>	1/4/2006	1/4/2006	1/17/2006	1/17/2006	1/17/2006	
<i>Sample Depth:</i>	80.5 to 83.5 ft bml	90.5 to 93.5 ft bml	0.5 to 3.5 ft bml	10.1 to 13.1 ft bml	20.1 to 23.1 ft bml	
<i>elev_MLLW</i>	-112 to -115	-122 to -125	-12.5 to -15.5	-22.1 to -25.1	-32.1 to -35.1	
<i>elev_NGVD</i>	-118.3 to -121.3	-128.3 to -131.3	-18.8 to -21.8	-28.4 to -31.4	-38.4 to -41.4	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm			6930	6350	48200
Dissolved oxygen (DO), field	µg/L			410	390	6170
Oxidation reduction potential (ORP), field	millivolts			-100	-173	328
pH, field	s.u.	7-8.5		7.92	7.80	7.67
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			8.3	9.1	9.0
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			> 999.0	> 999	6.7
						543
						> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-22</i>	<i>Pier25-22</i>	<i>Pier25-22</i>	<i>Pier25-22</i>	<i>Pier25-22</i>		
<i>Sample ID:</i>		<i>GW-011706-Pier25-22-004</i>	<i>GW-011806-Pier25-22-005</i>	<i>GW-011806-Pier25-22-006</i>	<i>GW-011806-Pier25-22-007</i>	<i>GW-011806-Pier25-22-009</i>		
<i>Sample Date:</i>		<i>1/17/2006</i>	<i>1/18/2006</i>	<i>1/18/2006</i>	<i>1/18/2006</i>	<i>1/18/2006</i>		
<i>Sample Depth:</i>		<i>30.1 to 33.1 ft bml</i>	<i>40.1 to 43.1 ft bml</i>	<i>50.1 to 53.1 ft bml</i>	<i>50.1 to 53.1 ft bml</i>	<i>70.1 to 73.1 ft bml</i>		
<i>elev_MLLW</i>		<i>-42.1 to -45.1</i>	<i>-52.1 to -55.1</i>	<i>-62.1 to -65.1</i>	<i>-62.1 to -65.1</i>	<i>-82.1 to -85.1</i>		
<i>elev_NGVD</i>		<i>-48.4 to -51.4</i>	<i>-58.4 to -61.4</i>	<i>-68.4 to -71.4</i>	<i>-68.4 to -71.4</i> <i>(Duplicate)</i>	<i>-88.4 to -91.4</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			40400	53400	47900	47900	43500
Dissolved oxygen (DO), field	µg/L			370	560	600	600	3590
Oxidation reduction potential (ORP), field	millivolts			-4	32	2	2	59
pH, field	s.u.	7-8.5		7.50	6.99	7.07	7.07	7.71
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			9.0	8.9	8.7	8.7	9.0
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			261	686	350	350	202

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-22</i>	<i>Pier25-22</i>	<i>Pier25-22</i>	<i>Pier25-22</i>	<i>Pier25-23</i>			
<i>Sample ID:</i>	GW-011806-Pier25-22-010	GW-011806-Pier25-22-011	GW-011806-Pier25-22-012	GW-011806-Pier25-22-013	GW-011106-Pier25-23-001			
<i>Sample Date:</i>	1/18/2006	1/18/2006	1/18/2006	1/18/2006	1/11/2006			
<i>Sample Depth:</i>	80.1 to 83.1 ft bml	90.1 to 93.1 ft bml	100.1 to 103.1 ft bml	110.1 to 113.1 ft bml	2 to 5 ft bml			
<i>elev_MLLW</i>	-92.1 to -95.1	-102.1 to -105.1	-112.1 to -115.1	-122.1 to -125.1	-12.4 to -15.4			
<i>elev_NGVD</i>	-98.4 to -101.4	-108.4 to -111.4	-118.4 to -121.4	-128.4 to -131.4	-18.7 to -21.7			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			41400	840	1770	1330	49900
Dissolved oxygen (DO), field	µg/L			1160	220	450	540	290
Oxidation reduction potential (ORP), field	millivolts			-19	11	-131	-148	107
pH, field	s.u.	7-8.5		7.58	8.90	8.65	8.64	7.79
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			8.8	9.4	9.6	9.5	9.8
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			> 999	> 999	> 999	> 999	125

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-23</i>	<i>Pier25-23</i>	<i>Pier25-23</i>	<i>Pier25-23</i>	<i>Pier25-23</i>		
<i>Sample ID:</i>		<i>GW-011106-Pier25-23-002</i>	<i>GW-011106-Pier25-23-003</i>	<i>GW-011106-Pier25-23-004</i>	<i>GW-011106-Pier25-23-005</i>	<i>GW-011106-Pier25-23-006</i>		
<i>Sample Date:</i>		<i>1/11/2006</i>	<i>1/11/2006</i>	<i>1/11/2006</i>	<i>1/11/2006</i>	<i>1/11/2006</i>		
<i>Sample Depth:</i>		<i>13 to 16 ft bml</i>	<i>23 to 26 ft bml</i>	<i>23 to 26 ft bml</i>	<i>33 to 36 ft bml</i>	<i>43 to 46 ft bml</i>		
<i>elev_MLLW</i>		<i>-23.4 to -26.4</i>	<i>-33.4 to -36.4</i>	<i>-33.4 to -36.4</i>	<i>-43.4 to -46.4</i>	<i>-53.4 to -56.4</i>		
<i>elev_NGVD</i>		<i>-29.7 to -32.7</i>	<i>-39.7 to -42.7</i>	<i>-39.7 to -42.7</i>	<i>-49.7 to -52.7</i>	<i>-59.7 to -62.7</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			44900	40800	40800	43600	49500
Dissolved oxygen (DO), field	µg/L			60	370	370	330	570
Oxidation reduction potential (ORP), field	millivolts			-71	-64	-64	-81	-49
pH, field	s.u.	7-8.5		7.77	7.65	7.65	6.92	7.06
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			9.3	9.2	9.2	9.5	9.4
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			774	> 999	> 999	> 999	> 999

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>Pier25-23</i>	<i>Pier25-23</i>	<i>Pier25-23</i>	<i>Pier25-23</i>	<i>Pier25-23</i>
<i>Sample ID:</i>			<i>GW-011106-Pier25-23-007</i>	<i>GW-011106-Pier25-23-008</i>	<i>GW-011106-Pier25-23-009</i>	<i>GW-011106-Pier25-23-010</i>	<i>GW-011206-Pier25-23-011</i>
<i>Sample Date:</i>			<i>1/11/2006</i>	<i>1/11/2006</i>	<i>1/11/2006</i>	<i>1/11/2006</i>	<i>1/12/2006</i>
<i>Sample Depth:</i>			<i>53 to 56 ft bml</i>	<i>63 to 66 ft bml</i>	<i>73 to 76 ft bml</i>	<i>83 to 86 ft bml</i>	<i>93 to 96 ft bml</i>
<i>elev_MLLW</i>			<i>-63.4 to -66.4</i>	<i>-73.4 to -76.4</i>	<i>-83.4 to -86.4</i>	<i>-93.4 to -96.4</i>	<i>-103.4 to -106.4</i>
<i>elev_NGVD</i>			<i>-69.7 to -72.7</i>	<i>-79.7 to -82.7</i>	<i>-89.7 to -92.7</i>	<i>-99.7 to -102.7</i>	<i>-109.7 to -112.7</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		67100	14100	40900	12000	4080
Dissolved oxygen (DO), field	µg/L		330	820	860	840	320
Oxidation reduction potential (ORP), field	millivolts		-110	18	-20	-109	-117
pH, field	s.u.	7-8.5	6.87	7.64	7.36	7.71	8.09
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		9.6	9.5	9.9	10.5	10.3
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		310	438	407	> 999	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-23</i>	<i>Pier25-23</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	
<i>Sample ID:</i>	GW-011206-Pier25-23-012	GW-011206-Pier25-23-013	GW-011206-Pier25-24-001	GW-011206-Pier25-24-002	GW-011206-Pier25-24-003	
<i>Sample Date:</i>	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	
<i>Sample Depth:</i>	103 to 106 ft bml	113 to 116 ft bml	0.5 to 3.5 ft bml	4.1 to 7.1 ft bml	14.1 to 17.1 ft bml	
<i>elev_MLLW</i>	-113.4 to -116.4	-123.4 to -126.4	-30.9 to -33.9	-34.5 to -37.5	-44.5 to -47.5	
<i>elev_NGVD</i>	-119.7 to -122.7	-129.7 to -132.7	-37.2 to -40.2	-40.8 to -43.8	-50.8 to -53.8	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm			5300	7610	51600
Dissolved oxygen (DO), field	µg/L			1650	920	760
Oxidation reduction potential (ORP), field	millivolts			-82	-111	47
pH, field	s.u.	7-8.5		8.02	7.67	7.95
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			7.8	9.5	8.5
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			341	302	> 999
						365
						872

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	
<i>Sample ID:</i>		<i>GW-011206-Pier25-24-004</i>	<i>GW-011206-Pier25-24-005</i>	<i>GW-011206-Pier25-24-006</i>	<i>GW-011206-Pier25-24-007</i>	<i>GW-011306-Pier25-24-008</i>	
<i>Sample Date:</i>		<i>1/12/2006</i>	<i>1/12/2006</i>	<i>1/12/2006</i>	<i>1/12/2006</i>	<i>1/13/2006</i>	
<i>Sample Depth:</i>		<i>24.1 to 27.1 ft bml</i>	<i>34.1 to 37.1 ft bml</i>	<i>34.1 to 37.1 ft bml</i>	<i>44.1 to 47.1 ft bml</i>	<i>54.1 to 57.1 ft bml</i>	
<i>elev_MLLW</i>		<i>-54.5 to -57.5</i>	<i>-64.5 to -67.5</i>	<i>-64.5 to -67.5</i>	<i>-74.5 to -77.5</i>	<i>-84.5 to -87.5</i>	
<i>elev_NGVD</i>		<i>-60.8 to -63.8</i>	<i>-70.8 to -73.8</i>	<i>-70.8 to -73.8</i> <i>(Duplicate)</i>	<i>-80.8 to -83.8</i>	<i>-90.8 to -93.8</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		53200	69900	69900	87500	> 99.9
Dissolved oxygen (DO), field	µg/L		360	770	770	340	810
Oxidation reduction potential (ORP), field	millivolts		-71	42	42	-9	14
pH, field	s.u.	7-8.5	7.19	7.20	7.20	7.21	7.17
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		8.7	8.7	8.7	9.2	8.6
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		416	175	175	> 999	363

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	<i>Pier25-24</i>	
<i>Sample ID:</i>	GW-011306-Pier25-24-009	GW-011306-Pier25-24-010	GW-011306-Pier25-24-011	GW-011306-Pier25-24-012	GW-011306-Pier25-24-013	
<i>Sample Date:</i>	1/13/2006	1/13/2006	1/13/2006	1/13/2006	1/13/2006	
<i>Sample Depth:</i>	64.1 to 67.1 ft bml	74.1 to 77.1 ft bml	84.1 to 87.1 ft bml	94.1 to 97.1 ft bml	104.1 to 107.1 ft bml	
<i>elev_MLLW</i>	-94.5 to -97.5	-104.5 to -107.5	-114.5 to -117.5	-124.5 to -127.5	-134.5 to -137.5	
<i>elev_NGVD</i>	-100.8 to -103.8	-110.8 to -113.8	-120.8 to -123.8	-130.8 to -133.8	-140.8 to -143.8	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm			> 99.9	37900	14100
Dissolved oxygen (DO), field	µg/L			0	3170	100
Oxidation reduction potential (ORP), field	millivolts			-150	18	-182
pH, field	s.u.	7-8.5		8.31	7.96	7.85
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			9.0	8.9	9.4
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			> 999	248	> 999

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-24</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-25</i>
<i>Sample ID:</i>	<i>GW-011306-Pier25-24-014</i>	<i>GW-012006-Pier25-25-001</i>	<i>GW-012006-Pier25-25-002</i>	<i>GW-012006-Pier25-25-003</i>	<i>GW-012006-Pier25-25-004</i>
<i>Sample Date:</i>	<i>1/13/2006</i>	<i>1/20/2006</i>	<i>1/20/2006</i>	<i>1/20/2006</i>	<i>1/20/2006</i>
<i>Sample Depth:</i>	<i>114.1 to 117.1 ft bml</i>	<i>0 to 3 ft bml</i>	<i>10 to 13 ft bml</i>	<i>20 to 23 ft bml</i>	<i>30 to 33 ft bml</i>
<i>elev_MLLW</i>	<i>-144.5 to -147.5</i>	<i>-33.6 to -36.6</i>	<i>-43.6 to -46.6</i>	<i>-53.6 to -56.6</i>	<i>-63.6 to -66.6</i>
<i>elev_NGVD</i>	<i>-150.8 to -153.8</i>	<i>-39.9 to -42.9</i>	<i>-49.9 to -52.9</i>	<i>-59.9 to -62.9</i>	<i>-69.9 to -72.9</i>

<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			17500	55700	50700	62300	79700
Dissolved oxygen (DO), field	µg/L			700	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts			-108	-191	-190	-184	-189
pH, field	s.u.	7-8.5		7.32	8.03	7.95	7.81	7.83
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			10.2	8.8	8.5	8.7	8.7
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			> 999	-	575	506	-

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-25</i>	<i>Pier25-25</i>			
<i>Sample ID:</i>	GW-012006-Pier25-25-005	GW-012006-Pier25-25-006	GW-012006-Pier25-25-007	GW-012006-Pier25-25-008	GW-012006-Pier25-25-009			
<i>Sample Date:</i>	1/20/2006	1/20/2006	1/20/2006	1/20/2006	1/20/2006			
<i>Sample Depth:</i>	40 to 43 ft bml	50 to 52 ft bml	60 to 63 ft bml	70 to 73 ft bml	80 to 83 ft bml			
<i>elev_MLLW</i>	-73.6 to -76.6	-83.6 to -85.6	-93.6 to -96.6	-103.6 to -106.6	-113.6 to -116.6			
<i>elev_NGVD</i>	-79.9 to -82.9	-89.9 to -91.9	-99.9 to -102.9	-109.9 to -112.9	-119.9 to -122.9			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			89900	94400	91200	35500	2180
Dissolved oxygen (DO), field	µg/L			-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts			156	-309	-322	-191	-221
pH, field	s.u.	7-8.5		7.39	9.89	8.36	8.65	8.83
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			8.3	8.7	8.9	9.2	9.0
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			> 999	277	72.4	-	-

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-25</i>	<i>Pier25-26</i>	<i>Pier25-26</i>	<i>Pier25-26</i>	<i>Pier25-26</i>
<i>Sample ID:</i>	<i>GW-012006-Pier25-25-010</i>	<i>GW-012306-Pier25-26-001</i>	<i>GW-012306-Pier25-26-002</i>	<i>GW-012306-Pier25-26-003</i>	<i>GW-012306-Pier25-26-004</i>
<i>Sample Date:</i>	<i>1/20/2006</i>	<i>1/23/2006</i>	<i>1/23/2006</i>	<i>1/23/2006</i>	<i>1/23/2006</i>
<i>Sample Depth:</i>	<i>90 to 93 ft bml</i>	<i>1.5 to 4.5 ft bml</i>	<i>11.5 to 14.5 ft bml</i>	<i>21.5 to 24.5 ft bml</i>	<i>31.5 to 34.5 ft bml</i>
<i>elev_MLLW</i>	<i>-123.6 to -126.6</i>	<i>-9.2 to -12.2</i>	<i>-19.2 to -22.2</i>	<i>-29.2 to -32.2</i>	<i>-39.2 to -42.2</i>
<i>elev_NGVD</i>	<i>-129.9 to -132.9</i>	<i>-15.5 to -18.5</i>	<i>-25.5 to -28.5</i>	<i>-35.5 to -38.5</i>	<i>-45.5 to -48.5</i>
Parameters	Units	CSI	WG		
Fparam					
Conductivity, field	umhos/cm		5110	46500	48400
Dissolved oxygen (DO), field	µg/L		-	0	0
Oxidation reduction potential (ORP), field	millivolts		-185	-178	-203
pH, field	s.u.	7-8.5	8.41	7.93	8.07
Specific Gravity~FIELDPARAM	sg		-	-	-
Temperature, field	deg c		8.9	10.49	10.9
Temperature, field	deg f		-	-	-
Turbidity, field	ntu		-	31.5	-
					46300
					46700
					0
					-188
					7.47
					-
					10.43
					-
					-

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-26</i>	<i>Pier25-26</i>	<i>Pier25-26</i>	<i>Pier25-26</i>	<i>Pier25-26</i>			
<i>Sample ID:</i>	<i>GW-012306-Pier25-26-005</i>	<i>GW-012306-Pier25-26-006</i>	<i>GW-012406-Pier25-26-007</i>	<i>GW-012406-Pier25-26-008</i>	<i>GW-012406-Pier25-26-009</i>			
<i>Sample Date:</i>	<i>1/23/2006</i>	<i>1/23/2006</i>	<i>1/24/2006</i>	<i>1/24/2006</i>	<i>1/24/2006</i>			
<i>Sample Depth:</i>	<i>41.5 to 44.5 ft bml</i>	<i>51.5 to 54.5 ft bml</i>	<i>61.5 to 64.5 ft bml</i>	<i>71.5 to 74.5 ft bml</i>	<i>81.5 to 84.5 ft bml</i>			
<i>elev_MLLW</i>	<i>-49.2 to -52.2</i>	<i>-59.2 to -62.2</i>	<i>-69.2 to -72.2</i>	<i>-79.2 to -82.2</i>	<i>-89.2 to -92.2</i>			
<i>elev_NGVD</i>	<i>-55.5 to -58.5</i>	<i>-65.5 to -68.5</i>	<i>-75.5 to -78.5</i>	<i>-85.5 to -88.5</i>	<i>-95.5 to -98.5</i>			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			55500	64700	74800	74500	32800
Dissolved oxygen (DO), field	µg/L			0	0	0	0	1600
Oxidation reduction potential (ORP), field	millivolts			-171	-173	-172	-176	-92
pH, field	s.u.	7-8.5		7.44	7.41	7.30	7.55	7.52
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			9.52	9.48	9.10	9.01	7.74
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			271	812	> 999	701	-

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-26</i>	<i>Pier25-26</i>	<i>Pier25-27</i>	<i>Pier25-27</i>	<i>Pier25-27</i>			
<i>Sample ID:</i>	<i>GW-012406-Pier25-26-010</i>	<i>GW-012406-Pier25-26-011</i>	<i>GW-011906-Pier25-27-001</i>	<i>GW-011906-Pier25-27-002</i>	<i>GW-011906-Pier25-27-003</i>			
<i>Sample Date:</i>	<i>1/24/2006</i>	<i>1/24/2006</i>	<i>1/19/2006</i>	<i>1/19/2006</i>	<i>1/19/2006</i>			
<i>Sample Depth:</i>	<i>91.5 to 94.5 ft bml</i>	<i>101.5 to 104.5 ft bml</i>	<i>0.5 to 3.5 ft bml</i>	<i>10.5 to 13.5 ft bml</i>	<i>10.5 to 13.5 ft bml</i>			
<i>elev_MLLW</i>	<i>-99.2 to -102.2</i>	<i>-109.2 to -112.2</i>	<i>-7.9 to -10.9</i>	<i>-17.9 to -20.9</i>	<i>-17.9 to -20.9</i>			
<i>elev_NGVD</i>	<i>-105.5 to -108.5</i>	<i>-115.5 to -118.5</i>	<i>-14.2 to -17.2</i>	<i>-24.2 to -27.2</i>	<i>-24.2 to -27.2</i>			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>		<i>(Duplicate)</i>			
<i>Fparam</i>								
Conductivity, field	umhos/cm			23700	6670	6820	46800	46800
Dissolved oxygen (DO), field	µg/L			1670	30	170	470	470
Oxidation reduction potential (ORP), field	millivolts			-97	-97	-2	-55	-55
pH, field	s.u.	7-8.5		7.48	7.77	8.42	7.65	7.65
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			9.11	9.40	9.3	9.2	9.2
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			-	-	> 999	> 999	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-27</i>	<i>Pier25-27</i>	<i>Pier25-27</i>	<i>Pier25-27</i>	<i>Pier25-27</i>	
<i>Sample ID:</i>		<i>GW-011906-Pier25-27-004</i>	<i>GW-011906-Pier25-27-005</i>	<i>GW-011906-Pier25-27-006</i>	<i>GW-011906-Pier25-27-007</i>	<i>GW-011906-Pier25-27-008</i>	
<i>Sample Date:</i>		<i>1/19/2006</i>	<i>1/19/2006</i>	<i>1/19/2006</i>	<i>1/19/2006</i>	<i>1/19/2006</i>	
<i>Sample Depth:</i>		<i>20.5 to 23.5 ft bml</i>	<i>30.5 to 33.5 ft bml</i>	<i>40.5 to 43.5 ft bml</i>	<i>50.5 to 53.5 ft bml</i>	<i>60.5 to 63.5 ft bml</i>	
<i>elev_MLLW</i>		<i>-27.9 to -30.9</i>	<i>-37.9 to -40.9</i>	<i>-47.9 to -50.9</i>	<i>-57.9 to -60.9</i>	<i>-67.9 to -70.9</i>	
<i>elev_NGVD</i>		<i>-34.2 to -37.2</i>	<i>-44.2 to -47.2</i>	<i>-54.2 to -57.2</i>	<i>-64.2 to -67.2</i>	<i>-74.2 to -77.2</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		47100	46300	43000	41300	1950
Dissolved oxygen (DO), field	µg/L		560	600	1250	1950	1020
Oxidation reduction potential (ORP), field	millivolts		-18	-75	-21	86	79
pH, field	s.u.	7-8.5	7.03	7.37	7.48	8.04	8.83
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		9.1	9.3	9.2	9.0	9.5
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		> 999	215	260	573	> 999

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-27</i>	<i>Pier25-27</i>	<i>Pier25-27</i>	<i>Pier25-28</i>	<i>Pier25-28</i>		
<i>Sample ID:</i>		<i>GW-011906-Pier25-27-009</i>	<i>GW-011906-Pier25-27-010</i>	<i>GW-011906-Pier25-27-011</i>	<i>GW-012406-Pier25-28-001</i>	<i>GW-012406-Pier25-28-002</i>		
<i>Sample Date:</i>		<i>1/19/2006</i>	<i>1/19/2006</i>	<i>1/19/2006</i>	<i>1/24/2006</i>	<i>1/24/2006</i>		
<i>Sample Depth:</i>		<i>70.5 to 73.5 ft bml</i>	<i>80.5 to 83.5 ft bml</i>	<i>90.5 to 93.5 ft bml</i>	<i>0 to 3 ft bml</i>	<i>10 to 13 ft bml</i>		
<i>elev_MLLW</i>		<i>-77.9 to -80.9</i>	<i>-87.9 to -90.9</i>	<i>-97.9 to -100.9</i>	<i>-7.1 to -10.1</i>	<i>-17.1 to -20.1</i>		
<i>elev_NGVD</i>		<i>-84.2 to -87.2</i>	<i>-94.2 to -97.2</i>	<i>-104.2 to -107.2</i>	<i>-13.4 to -16.4</i>	<i>-23.4 to -26.4</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			6870	6460	7630	30200	33400
Dissolved oxygen (DO), field	µg/L			230	830	670	0	0
Oxidation reduction potential (ORP), field	millivolts			-184	-64	-49	-211	-168
pH, field	s.u.	7-8.5		8.65	7.95	7.64	7.74	7.16
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			9.6	9.5	9.5	9.80	10.00
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			> 999	173	106	> 999	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>Pier25-28</i>	<i>Pier25-28</i>	<i>Pier25-28</i>	<i>Pier25-29</i>	<i>Pier25-29</i>			
<i>Sample ID:</i>	GW-012406-Pier25-28-003	GW-012406-Pier25-28-004	GW-012506-Pier25-28-005	GW-020606-Pier25-29-001	GW-020606-Pier25-29-002			
<i>Sample Date:</i>	1/24/2006	1/24/2006	1/25/2006	2/6/2006	2/6/2006			
<i>Sample Depth:</i>	20 to 23 ft bml	30 to 33 ft bml	40 to 43 ft bml	0 to 3 ft bml	2 to 5 ft bml			
<i>elev_MLLW</i>	-27.1 to -30.1	-37.1 to -40.1	-47.1 to -50.1	-6.6 to -9.6	-8.6 to -11.6			
<i>elev_NGVD</i>	-33.4 to -36.4	-43.4 to -46.4	-53.4 to -56.4	-12.9 to -15.9	-14.9 to -17.9			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			36600	12400	8590	2760	4040
Dissolved oxygen (DO), field	µg/L			0	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts			-120	-160	-199	-243	-247
pH, field	s.u.	7-8.5		7.00	7.72	8.33	8.96	8.37
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			9.58	9.00	8.75	10.4	9.7
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			312	175	952	-	722

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-29</i>	<i>Pier25-29</i>	<i>Pier25-29</i>	<i>Pier25-29</i>	<i>Pier25-29</i>	
<i>Sample ID:</i>		<i>GW-020606-Pier25-29-003</i>	<i>GW-020606-Pier25-29-004</i>	<i>GW-020606-Pier25-29-005</i>	<i>GW-020606-Pier25-29-006</i>	<i>GW-020606-Pier25-29-007</i>	
<i>Sample Date:</i>		<i>2/6/2006</i>	<i>2/6/2006</i>	<i>2/6/2006</i>	<i>2/6/2006</i>	<i>2/6/2006</i>	
<i>Sample Depth:</i>		<i>12 to 15 ft bml</i>	<i>22 to 25 ft bml</i>	<i>32 to 35 ft bml</i>	<i>42 to 45 ft bml</i>	<i>52 to 55 ft bml</i>	
<i>elev_MLLW</i>		<i>-18.6 to -21.6</i>	<i>-28.6 to -31.6</i>	<i>-38.6 to -41.6</i>	<i>-48.6 to -51.6</i>	<i>-58.6 to -61.6</i>	
<i>elev_NGVD</i>		<i>-24.9 to -27.9</i>	<i>-34.9 to -37.9</i>	<i>-44.9 to -47.9</i>	<i>-54.9 to -57.9</i>	<i>-64.9 to -67.9</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		27200	34600	5640	49000	29900
Dissolved oxygen (DO), field	µg/L		0	0	0	0	3060
Oxidation reduction potential (ORP), field	millivolts		-303	-248	-278	-195	-126
pH, field	s.u.	7-8.5	7.99	7.95	8.57	7.87	7.73
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		9.9	9.2	8.9	8.6	8.6
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		-	52.5	928	-	-

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>Pier25-29</i>	<i>Pier25-29</i>	<i>Pier25-29</i>	<i>Pier25-29</i>	<i>Pier25-29</i>		
<i>Sample ID:</i>		<i>GW-020706-Pier25-29-008</i>	<i>GW-020706-Pier25-29-009</i>	<i>GW-020706-Pier25-29-010</i>	<i>GW-020706-Pier25-29-011</i>	<i>GW-020706-Pier25-29-012</i>		
<i>Sample Date:</i>		<i>2/7/2006</i>	<i>2/7/2006</i>	<i>2/7/2006</i>	<i>2/7/2006</i>	<i>2/7/2006</i>		
<i>Sample Depth:</i>		<i>62 to 65 ft bml</i>	<i>72 to 75 ft bml</i>	<i>82 to 85 ft bml</i>	<i>92 to 95 ft bml</i>	<i>102 to 105 ft bml</i>		
<i>elev_MLLW</i>		<i>-68.6 to -71.6</i>	<i>-78.6 to -81.6</i>	<i>-88.6 to -91.6</i>	<i>-98.6 to -101.6</i>	<i>-108.6 to -111.6</i>		
<i>elev_NGVD</i>		<i>-74.9 to -77.9</i>	<i>-84.9 to -87.9</i>	<i>-94.9 to -97.9</i>	<i>-104.9 to -107.9</i>	<i>-114.9 to -117.9</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			38100	1240	5590	22200	442
Dissolved oxygen (DO), field	µg/L			390	1270	3080	320	1140
Oxidation reduction potential (ORP), field	millivolts			-175	-103	-124	-91	-27
pH, field	s.u.	7-8.5		7.98	8.84	8.03	7.29	8.32
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			7.4	7.5	10.4	11.20	9.8
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			-	-	-	-	749

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-30</i>	<i>Pier25-30</i>	<i>Pier25-30</i>	<i>Pier25-30</i>	<i>Pier25-30</i>	
<i>Sample ID:</i>	<i>GW-012606-Pier25-30-001</i>	<i>GW-012606-Pier25-30-002</i>	<i>GW-012706-Pier25-30-003</i>	<i>GW-012706-Pier25-30-004</i>	<i>GW-012706-Pier25-30-005</i>	
<i>Sample Date:</i>	<i>1/26/2006</i>	<i>1/26/2006</i>	<i>1/27/2006</i>	<i>1/27/2006</i>	<i>1/27/2006</i>	
<i>Sample Depth:</i>	<i>0 to 3 ft bml</i>	<i>10 to 13 ft bml</i>	<i>20 to 23 ft bml</i>	<i>30 to 33 ft bml</i>	<i>40 to 43 ft bml</i>	
<i>elev_MLLW</i>	<i>-7.8 to -10.8</i>	<i>-17.8 to -20.8</i>	<i>-27.8 to -30.8</i>	<i>-37.8 to -40.8</i>	<i>-47.8 to -50.8</i>	
<i>elev_NGVD</i>	<i>-14.1 to -17.1</i>	<i>-24.1 to -27.1</i>	<i>-34.1 to -37.1</i>	<i>-44.1 to -47.1</i>	<i>-54.1 to -57.1</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm			44100	43500	38300
Dissolved oxygen (DO), field	µg/L			0	0	0
Oxidation reduction potential (ORP), field	millivolts			-189	-201	-181
pH, field	s.u.	7-8.5		7.89	7.88	7.35
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			9.69	9.52	9.43
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			810	661	846
						-
						249

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-30</i>	<i>Pier25-30</i>	<i>Pier25-30</i>	<i>Pier25-30</i>	<i>Pier25-30</i>			
<i>Sample ID:</i>	<i>GW-012706-Pier25-30-006</i>	<i>GW-012706-Pier25-30-007</i>	<i>GW-012706-Pier25-30-009</i>	<i>GW-012706-Pier25-30-010</i>	<i>GW-012706-Pier25-30-011</i>			
<i>Sample Date:</i>	<i>1/27/2006</i>	<i>1/27/2006</i>	<i>1/27/2006</i>	<i>1/27/2006</i>	<i>1/27/2006</i>			
<i>Sample Depth:</i>	<i>50 to 53 ft bml</i>	<i>60 to 63 ft bml</i>	<i>80 to 83 ft bml</i>	<i>90 to 93 ft bml</i>	<i>100 to 103 ft bml</i>			
<i>elev_MLLW</i>	<i>-57.8 to -60.8</i>	<i>-67.8 to -70.8</i>	<i>-87.8 to -90.8</i>	<i>-97.8 to -100.8</i>	<i>-107.8 to -110.8</i>			
<i>elev_NGVD</i>	<i>-64.1 to -67.1</i>	<i>-74.1 to -77.1</i>	<i>-94.1 to -97.1</i>	<i>-104.1 to -107.1</i>	<i>-114.1 to -117.1</i>			
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			20700	34000	29800	27900	6930
Dissolved oxygen (DO), field	µg/L			0	1360	830	0	0
Oxidation reduction potential (ORP), field	millivolts			-169	-138	-64	-127	-104
pH, field	s.u.	7-8.5		7.53	7.77	7.95	7.49	7.70
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			9.10	9.00	9.09	9.55	9.52
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			97.7	-	-	-	51.1

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-31</i>	<i>Pier25-31</i>	<i>Pier25-31</i>	<i>Pier25-31</i>	<i>Pier25-31</i>	
<i>Sample ID:</i>		<i>GW-051006-PIER25-31-LH-001</i>	<i>GW-051006-PIER25-31-LH-002</i>	<i>GW-051006-PIER25-31-LH-003</i>	<i>GW-051006-PIER25-31-LH-004</i>	<i>GW-051006-PIER25-31-LH-005</i>	
<i>Sample Date:</i>		<i>5/10/2006</i>	<i>5/10/2006</i>	<i>5/10/2006</i>	<i>5/10/2006</i>	<i>5/10/2006</i>	
<i>Sample Depth:</i>		<i>9 to 13 ft bgs</i>	<i>19 to 23 ft bgs</i>	<i>29 to 33 ft bgs</i>	<i>39 to 43 ft bgs</i>	<i>49 to 53 ft bgs</i>	
<i>elev_MLLW</i>		<i>5.95 to 1.95</i>	<i>-4.05 to -8.05</i>	<i>-14.05 to -18.05</i>	<i>-24.05 to -28.05</i>	<i>-34.05 to -38.05</i>	
<i>elev_NGVD</i>		<i>-0.4 to -4.4</i>	<i>-10.4 to -14.4</i>	<i>-20.4 to -24.4</i>	<i>-30.4 to -34.4</i>	<i>-40.4 to -44.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	205	269	208	265	321	
Dissolved oxygen (DO), field	µg/L	0	0	0	0	0	
Oxidation reduction potential (ORP), field	millivolts	-102	-195	-268	-361	-262	
pH, field	s.u.	7-8.5	5.7	8.13	8.43	8.96	8.69
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	
Temperature, field	deg c	10.9	11.84	12.81	15.82	17.81	
Temperature, field	deg f	-	-	-	-	-	
Turbidity, field	ntu	667	-	-	-	-	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-31</i>	<i>Pier25-31</i>	<i>Pier25-31</i>	<i>Pier25-31</i>	<i>Pier25-31</i>
<i>Sample ID:</i>		<i>GW-051106-PIER25-31-LH-006</i>	<i>GW-051106-PIER25-31-LH-007</i>	<i>GW-051106-PIER25-31-LH-008</i>	<i>GW-051106-PIER25-31-LH-009</i>	<i>GW-051106-PIER25-31-LH-010</i>
<i>Sample Date:</i>		<i>5/11/2006</i>	<i>5/11/2006</i>	<i>5/11/2006</i>	<i>5/11/2006</i>	<i>5/11/2006</i>
<i>Sample Depth:</i>		<i>59 to 63 ft bgs</i>	<i>69 to 73 ft bgs</i>	<i>69 to 73 ft bgs</i>	<i>79 to 83 ft bgs</i>	<i>89 to 93 ft bgs</i>
<i>elev_MLLW</i>		<i>-44.05 to -48.05</i>	<i>-54.05 to -58.05</i>	<i>-54.05 to -58.05</i>	<i>-64.05 to -68.05</i>	<i>-74.05 to -78.05</i>
<i>elev_NGVD</i>		<i>-50.4 to -54.4</i>	<i>-60.4 to -64.4</i>	<i>-60.4 to -64.4</i> <i>(Duplicate)</i>	<i>-70.4 to -74.4</i>	<i>-80.4 to -84.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>		
<i>Fparam</i>						
Conductivity, field	umhos/cm	306	229	229	263	473
Dissolved oxygen (DO), field	µg/L	0	2900	2900	2880	1990
Oxidation reduction potential (ORP), field	millivolts	-248	51	51	29	25
pH, field	s.u.	7-8.5	8.55	7.33	7.33	7.75
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	12.24	13.18	13.18	13.28	15.23
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-31</i>	<i>Pier25-31</i>	<i>Pier25-32</i>	<i>Pier25-32</i>	<i>Pier25-32</i>		
<i>Sample ID:</i>		<i>GW-051206-PIER25-31-LH-011</i>	<i>GW-051206-PIER25-31-LH-012</i>	<i>GW-040406-Pier25-32-001</i>	<i>GW-040406-Pier25-32-002</i>	<i>GW-040406-Pier25-32-003</i>		
<i>Sample Date:</i>		<i>5/12/2006</i>	<i>5/12/2006</i>	<i>4/4/2006</i>	<i>4/4/2006</i>	<i>4/4/2006</i>		
<i>Sample Depth:</i>		<i>99 to 103 ft bgs</i>	<i>111 to 112 ft bgs</i>	<i>9 to 12 ft bgs</i>	<i>20 to 23 ft bgs</i>	<i>30 to 34 ft bgs</i>		
<i>elev_MLLW</i>		<i>-84.05 to -88.05</i>	<i>-96.05 to -97.05</i>	<i>6 to 3</i>	<i>-5 to -8</i>	<i>-15 to -19</i>		
<i>elev_NGVD</i>		<i>-90.4 to -94.4</i>	<i>-102.4 to -103.4</i>	<i>-0.3 to -3.3</i>	<i>-11.3 to -14.3</i>	<i>-21.3 to -25.3</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			1560	462	8500	228	212
Dissolved oxygen (DO), field	µg/L			0	0	6130	6880	5750
Oxidation reduction potential (ORP), field	millivolts			-189	-448	-95	-207	-202
pH, field	s.u.	7-8.5		7.41	8.72	6.30	7.69	8.36
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			12.66	19.12	10.8	12.6	12.6
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			-	-	292	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-32</i>	<i>Pier25-32</i>	<i>Pier25-32</i>	<i>Pier25-32</i>	<i>Pier25-33</i>
<i>Sample ID:</i>		<i>GW-040506-Pier25-32-004</i>	<i>GW-040506-Pier25-32-005</i>	<i>GW-040606-Pier25-32-006</i>	<i>GW-040606-Pier25-32-007</i>	<i>GW-050806-PIER25-33-BS-001</i>
<i>Sample Date:</i>		<i>4/5/2006</i>	<i>4/5/2006</i>	<i>4/6/2006</i>	<i>4/6/2006</i>	<i>5/8/2006</i>
<i>Sample Depth:</i>		<i>44 to 47 ft bgs</i>	<i>44 to 47 ft bgs</i>	<i>54 to 58 ft bgs</i>	<i>67 to 71 ft bgs</i>	<i>9 to 13 ft bgs</i>
<i>elev_MLLW</i>		<i>-29 to -32</i>	<i>-29 to -32</i>	<i>-39 to -43</i>	<i>-52 to -56</i>	<i>4.95 to 0.95</i>
<i>elev_NGVD</i>		<i>-35.3 to -38.3</i>	<i>-35.3 to -38.3</i>	<i>-45.3 to -49.3</i>	<i>-58.3 to -62.3</i>	<i>-1.4 to -5.4</i>
		<i>(Duplicate)</i>				
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>		
<i>Fparam</i>						
Conductivity, field	umhos/cm	190	190	247	303	20600
Dissolved oxygen (DO), field	µg/L	6720	6720	5100	6700	0
Oxidation reduction potential (ORP), field	millivolts	-5	-5	29	96	-169
pH, field	s.u.	7-8.5	7.70	7.70	7.84	6.72
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	12.8	12.8	11.3	11.5	12.5
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	-	-	0.0	-	335

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>Pier25-33</i>	<i>Pier25-33</i>	<i>Pier25-33</i>	<i>Pier25-33</i>	<i>Pier25-33</i>
<i>Sample ID:</i>			<i>GW-050806-PIER25-33-BS-002</i>	<i>GW-050806-PIER25-33-BS-003</i>	<i>GW-050806-PIER25-33-BS-004</i>	<i>GW-050906-PIER25-33-LH-005</i>	<i>GW-050906-PIER25-33-LH-006</i>
<i>Sample Date:</i>			<i>5/8/2006</i>	<i>5/8/2006</i>	<i>5/8/2006</i>	<i>5/9/2006</i>	<i>5/9/2006</i>
<i>Sample Depth:</i>			<i>19 to 23 ft bgs</i>	<i>29 to 33 ft bgs</i>	<i>39 to 43 ft bgs</i>	<i>49 to 53 ft bgs</i>	<i>59 to 63 ft bgs</i>
<i>elev_MLLW</i>			<i>-5.05 to -9.05</i>	<i>-15.05 to -19.05</i>	<i>-25.05 to -29.05</i>	<i>-35.05 to -39.05</i>	<i>-45.05 to -49.05</i>
<i>elev_NGVD</i>			<i>-11.4 to -15.4</i>	<i>-21.4 to -25.4</i>	<i>-31.4 to -35.4</i>	<i>-41.4 to -45.4</i>	<i>-51.4 to -55.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		1340	588	594	501	608
Dissolved oxygen (DO), field	µg/L		60	0	0	1320	820
Oxidation reduction potential (ORP), field	millivolts		-124	-280	-231	-8	-52
pH, field	s.u.	7-8.5	7.32	8.69	8.57	7.75	7.45
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		12.8	14.37	12.37	11.58	12.86
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Pier25-33</i>	<i>Pier25-33</i>	<i>Pier25-33</i>	<i>PS2-001</i>	<i>PS2-002</i>	
<i>Sample ID:</i>		<i>GW-050906-PIER25-33-LH-007</i>	<i>GW-050906-PIER25-33-LH-008</i>	<i>GW-050906-PIER25-33-LH-009</i>	<i>GW-032107-PS2-001-001</i>	<i>GW-032107-PS2-002-001</i>	
<i>Sample Date:</i>		<i>5/9/2006</i>	<i>5/9/2006</i>	<i>5/9/2006</i>	<i>3/21/2007</i>	<i>3/21/2007</i>	
<i>Sample Depth:</i>		<i>69 to 73 ft bgs</i>	<i>79 to 83 ft bgs</i>	<i>89 to 93 ft bgs</i>	<i>21 to 26 ft bgs</i>	<i>21 to 26 ft bgs</i>	
<i>elev_MLLW</i>		<i>-55.05 to -59.05</i>	<i>-65.05 to -69.05</i>	<i>-75.05 to -79.05</i>	<i>-3.54 to -8.54</i>	<i>-3.49 to -8.49</i>	
<i>elev_NGVD</i>		<i>-61.4 to -65.4</i>	<i>-71.4 to -75.4</i>	<i>-81.4 to -85.4</i>	<i>-9.9 to -14.9</i>	<i>-9.8 to -14.8</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		1810	4460	2410	17700	19200
Dissolved oxygen (DO), field	µg/L		0	0	0	260	280
Oxidation reduction potential (ORP), field	millivolts		-20	40	-156	-447	-458
pH, field	s.u.	7-8.5	7.17	7.28	7.86	10.97	11.47
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		13.62	13.51	12.96	14.9	15.1
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		-	-	-	29.8	11.1

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PS2-003	PS2-004	PS2-005	PS2-006	PS2-GP3A	PS2-GP3A	PS2-GP3A
Sample ID:	GW-032107-PS2-003-001	GW-032107-PS2-004-001	GW-032107-PS2-005-001	GW-032107-PS2-006-001	PS2-GP3A-7	PS2-GP3A-10	PS2-GP3A-13
Sample Date:	3/21/2007	3/21/2007	3/21/2007	3/21/2007	3/22/2007	3/22/2007	3/22/2007
Sample Depth:	21 to 26 ft bgs	21 to 26 ft bgs	21 to 26 ft bgs	21 to 26 ft bgs	7 to 8 ft bgs	10 to 11 ft bgs	13 to 14 ft bgs
elev_MLLW	-3.43 to -8.43	-3.52 to -8.52	-3.75 to -8.75	-3.78 to -8.78	10.92 to 9.92	7.92 to 6.92	4.92 to 3.92
elev_NGVD	-9.8 to -14.8	-9.8 to -14.8	-10.1 to -15.1	-10.1 to -15.1	4.6 to 3.6	1.6 to 0.6	-1.4 to -2.4

Parameters	Units	CSI	WG	PS2-003	PS2-004	PS2-005	PS2-006	PS2-GP3A-7	PS2-GP3A-10	PS2-GP3A-13	
Fparam											
Conductivity, field	umhos/cm			16400	29300	32900	31800	6700	17000	30200	
Dissolved oxygen (DO), field	µg/L			350	290	310	320	1120	1690	3040	
Oxidation reduction potential (ORP), field	millivolts			-345	-492	-499	-473	-400	-405	-466	
pH, field	s.u.	7-8.5		10.82	12.48	12.69	12.62	13.08	13.97	> 14	
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-	
Temperature, field	deg c			14.9	14.8	14.6	14.3	12.2	12.7	14.1	
Temperature, field	deg f			-	-	-	-	-	-	-	
Turbidity, field	ntu			11.1	10.2	8.0	9.1	-	-	-	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>PS2-GP3A</i>	<i>PS2-GP3A</i>	<i>PS2-GP3A</i>	<i>PS2-GP3A</i>	<i>PS2-GP3A</i>	<i>PS2-GP3A</i>	<i>PS2-GP3A</i>	<i>PS2-GP5A</i>	<i>PS2-GP5A</i>	
<i>Sample ID:</i>		<i>PS2-GP3A-16</i>	<i>PS2-GP3A-19</i>	<i>PS2-GP3A-22</i>	<i>PS2-GP3A-25</i>	<i>PS2-GP3A-28</i>	<i>PS2-GP3A-31</i>	<i>PS2-GP3A-34</i>	<i>PS2-GP5A-13</i>	<i>PS2-GP5A-22</i>	
<i>Sample Date:</i>		<i>3/22/2007</i>	<i>3/22/2007</i>	<i>3/22/2007</i>	<i>3/22/2007</i>	<i>3/22/2007</i>	<i>3/22/2007</i>	<i>3/22/2007</i>	<i>3/22/2007</i>	<i>3/22/2007</i>	
<i>Sample Depth:</i>		<i>16 to 17 ft bgs</i>	<i>19 to 20 ft bgs</i>	<i>22 to 23 ft bgs</i>	<i>25 to 26 ft bgs</i>	<i>28 to 29 ft bgs</i>	<i>31 to 32 ft bgs</i>	<i>34 to 35 ft bgs</i>	<i>13 to 14 ft bgs</i>	<i>22 to 23 ft bgs</i>	
<i>elev_MLLW</i>		<i>1.92 to 0.92</i>	<i>-1.08 to -2.08</i>	<i>-4.08 to -5.08</i>	<i>-7.08 to -8.08</i>	<i>-10.08 to -11.08</i>	<i>-13.08 to -14.08</i>	<i>-16.08 to -17.08</i>	<i>4.92 to 3.92</i>	<i>-4.08 to -5.08</i>	
<i>elev_NGVD</i>		<i>-4.4 to -5.4</i>	<i>-7.4 to -8.4</i>	<i>-10.4 to -11.4</i>	<i>-13.4 to -14.4</i>	<i>-16.4 to -17.4</i>	<i>-19.4 to -20.4</i>	<i>-22.4 to -23.4</i>	<i>-1.4 to -2.4</i>	<i>-10.4 to -11.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>									
<i>Fparam</i>											
Conductivity, field	umhos/cm	18200	18100	19300	20100	19300	16400	40200	45500	27000	
Dissolved oxygen (DO), field	µg/L	1220	2200	750	1150	500	4510	450	1580	1490	
Oxidation reduction potential (ORP), field	millivolts	-433	-427	-428	-420	-421	-410	-473	-452	-478	
pH, field	s.u.	7-8.5	12.36	12.45	12.32	11.99	11.99	12.14	11.86	> 14	13.92
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-	-	
Temperature, field	deg c	14.8	14.9	15.1	15.5	15.4	15.0	15.8	13.2	14.9	
Temperature, field	deg f	-	-	-	-	-	-	-	-	-	
Turbidity, field	ntu	-	290	740	420	194	127	-	-	538	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		PS2-GP5A	PS2-GP7A	PS2-GP7A	PS2-GP7A	PS3-GP2A	PS3-GP2A	PS3-GP2A	PS3-GP2A	PS3-GP3A	PS3-GP3A	
Sample ID:		PS2-GP5A-33	PS2-GP7A-13	PS2-GP7A-22	PS2-GP7A-33	PS3-GP2A-13	PS3-GP2A-17	PS3-GP2A-21	PS3-GP2A-24	PS3-GP3A-17	PS3-GP3A-21	
Sample Date:		3/22/2007	3/22/2007	3/22/2007	3/22/2007	7/5/2007	7/5/2007	7/5/2007	7/5/2007	6/29/2007	6/29/2007	
Sample Depth:		33 to 35 ft bgs	13 to 14 ft bgs	22 to 23 ft bgs	33 to 35 ft bgs	13 to 16 ft bgs	17 to 20 ft bgs	21 to 24 ft bgs	24 to 27 ft bgs	17 to 20 ft bgs	21 to 24 ft bgs	
elev_MLLW		-15.08 to -17.08	4.92 to 3.92	-4.08 to -5.08	-15.08 to -17.08	4.92 to 1.92	0.92 to -2.08	-3.08 to -6.08	-6.08 to -9.08	0.92 to -2.08	-3.08 to -6.08	
elev_NGVD		-21.4 to -23.4	-1.4 to -2.4	-10.4 to -11.4	-21.4 to -23.4	-1.4 to -4.4	-5.4 to -8.4	-9.4 to -12.4	-12.4 to -15.4	-5.4 to -8.4	-9.4 to -12.4	
Parameters	Units	CSI WG										
<i>Fparam</i>												
Conductivity, field	umhos/cm	42300	18800	34300	45800	1370	4550	8150	9270	4600	6050	
Dissolved oxygen (DO), field	µg/L	2040	1140	960	870	230	160	230	210	9920	490	
Oxidation reduction potential (ORP), field	millivolts	-425	-419	-412	-429	-304	-454	-258	-296	-166	-332	
pH, field	s.u.	7-8.5	11.86	13.73	11.68	11.80	9.43	10.86	11.49	11.94	10.70	11.23
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-	-	-	
Temperature, field	deg c	16.2	14.4	16.9	18.3	22.0	22.6	21.0	19.5	16.2	19.4	
Temperature, field	deg f	-	-	-	-	-	-	-	-	-	-	
Turbidity, field	ntu	-	61.3	-	-	> 999	> 999	> 999	> 999	> 999	> 999	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	<i>PS3-GP3A</i>	<i>PS3-GP4A</i>	<i>PS3-GP4A</i>	<i>PS3-GP4A</i>	<i>PS3-GP4A</i>	<i>PS3-GP5A</i>	<i>PS3-GP5A</i>	<i>PS3-GP5A</i>	<i>PS3-GP2A-1</i>	<i>PS3-GP2A-1</i>
Sample ID:	<i>PS3-GP3A-24</i>	<i>PS3-GP4A-13</i>	<i>PS3-GP4A-17</i>	<i>PS3-GP4A-21</i>	<i>PS3-GP4A-24</i>	<i>PS3-GP5A-13</i>	<i>PS3-GP5A-17</i>	<i>PS3-GP5A-21</i>	<i>PS3-GP2A-1-14</i>	<i>PS3-GP2A-1-19</i>
Sample Date:	<i>6/29/2007</i>	<i>7/5/2007</i>	<i>7/5/2007</i>	<i>7/5/2007</i>	<i>7/5/2007</i>	<i>6/29/2007</i>	<i>6/29/2007</i>	<i>6/29/2007</i>	<i>6/28/2007</i>	<i>6/28/2007</i>
Sample Depth:	<i>24 to 27 ft bgs</i>	<i>13 to 16 ft bgs</i>	<i>17 to 20 ft bgs</i>	<i>21 to 24 ft bgs</i>	<i>24 to 27 ft bgs</i>	<i>13 to 16 ft bgs</i>	<i>17 to 20 ft bgs</i>	<i>21 to 24 ft bgs</i>	<i>14 to 15 ft bgs</i>	<i>19 to 20 ft bgs</i>
elev_MLLW	<i>-6.08 to -9.08</i>	<i>4.92 to 1.92</i>	<i>0.92 to -2.08</i>	<i>-3.08 to -6.08</i>	<i>-6.08 to -9.08</i>	<i>4.92 to 1.92</i>	<i>0.92 to -2.08</i>	<i>-3.08 to -6.08</i>	<i>3.92 to 2.92</i>	<i>-1.08 to -2.08</i>
elev_NGVD	<i>-12.4 to -15.4</i>	<i>-1.4 to -4.4</i>	<i>-5.4 to -8.4</i>	<i>-9.4 to -12.4</i>	<i>-12.4 to -15.4</i>	<i>-1.4 to -4.4</i>	<i>-5.4 to -8.4</i>	<i>-9.4 to -12.4</i>	<i>-2.4 to -3.4</i>	<i>-7.4 to -8.4</i>

Parameters **Units** **CSI** **WG**

Fparam												
Conductivity, field	umhos/cm		13600	2910	4040	6080	17800	7420	17100	6200	-	7140
Dissolved oxygen (DO), field	µg/L		500	5760	-	170	6510	-	110	250	-	6580
Oxidation reduction potential (ORP), field	millivolts		-296	-53	-102	-319	-244	-182	-419	-290	-127	-191
pH, field	s.u.	7-8.5	12.25	10.36	10.69	11.25	12.22	12.04	12.63	11.70	11.30	11.42
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-	-	-	-	-
Temperature, field	deg c		18.7	25.8	27.7	21.4	24.3	16.9	17.4	17.6	18.0	18.3
Temperature, field	deg f		-	-	-	-	-	-	-	-	-	-
Turbidity, field	ntu		> 999	> 999	> 999	> 999	499	424	> 999	> 999	> 999	> 999

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PS3-GP2A-1</i>	<i>PS3-GP2A-1</i>	<i>PS3-GP3A-1</i>	<i>PS3-GP3A-1</i>	<i>PS4-GP1A</i>	<i>PS4-GP1A</i>	<i>PS4-GP1A</i>	<i>PS4-GP1A</i>	<i>PS4-GP1A</i>	
<i>Sample ID:</i>		<i>PS3-GP2A-1-24</i>	<i>PS3-GP2A-1-27</i>	<i>PS3-GP3A-1-13</i>	<i>PS3-GP3A-1-15</i>	<i>PS4-GP1A-10</i>	<i>PS4-GP1A-15</i>	<i>PS4-GP1A-20</i>	<i>PS4-GP1A-25</i>	<i>PS4-GP1A-30</i>	
<i>Sample Date:</i>		<i>6/28/2007</i>	<i>6/28/2007</i>	<i>6/29/2007</i>	<i>6/29/2007</i>	<i>12/11/2007</i>	<i>12/10/2007</i>	<i>12/10/2007</i>	<i>12/10/2007</i>	<i>12/10/2007</i>	
<i>Sample Depth:</i>		<i>24 to 25 ft bgs</i>	<i>27 to 28 ft bgs</i>	<i>13 to 16 ft bgs</i>	<i>15 to 18 ft bgs</i>	<i>10 to 11 ft bgs</i>	<i>15 to 16 ft bgs</i>	<i>20 to 21 ft bgs</i>	<i>25 to 26 ft bgs</i>	<i>30 to 31 ft bgs</i>	
<i>elev_MLLW</i>		<i>-6.08 to -7.08</i>	<i>-9.08 to -10.08</i>	<i>4.92 to 1.92</i>	<i>2.92 to -0.08</i>	<i>7.92 to 6.92</i>	<i>2.92 to 1.92</i>	<i>-2.08 to -3.08</i>	<i>-7.08 to -8.08</i>	<i>-12.08 to -13.08</i>	
<i>elev_NGVD</i>		<i>-12.4 to -13.4</i>	<i>-15.4 to -16.4</i>	<i>-1.4 to -4.4</i>	<i>-3.4 to -6.4</i>	<i>1.6 to 0.6</i>	<i>-3.4 to -4.4</i>	<i>-8.4 to -9.4</i>	<i>-13.4 to -14.4</i>	<i>-18.4 to -19.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>									
<i>Fparam</i>											
Conductivity, field	umhos/cm	7290	-	800	-	628	32300	25300	30600	26000	
Dissolved oxygen (DO), field	µg/L	4160	-	190	-	1090	940	770	7720	1030	
Oxidation reduction potential (ORP), field	millivolts	-102	-105	-183	11	-32	-375	-381	-273	-358	
pH, field	s.u.	7-8.5	11.82	10.98	8.96	9.46	9.77	12.53	12.67	12.68	12.44
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-	-	
Temperature, field	deg c	17.9	18.3	15.4	18.6	12.85	11.26	16.19	11.41	18.50	
Temperature, field	deg f	-	-	-	-	-	-	-	-	-	
Turbidity, field	ntu	> 999	> 999	> 999	> 999	-	-	-	-	-	

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PS4-GP1A</i>	<i>PS4-GP1A</i>	<i>PS4-GP1A</i>	<i>PS4-GP1A</i>	<i>PS4-GP1A</i>	<i>PS4-GP1A</i>	<i>PS4-GP2A</i>	<i>PS4-GP2A</i>	<i>PS4-GP2A</i>	
<i>Sample ID:</i>		<i>PS4-GP1A-35</i>	<i>PS4-GP1A-40</i>	<i>PS4-GP1A-45</i>	<i>PS4-GP1A-50</i>	<i>PS4-GP1A-55</i>	<i>PS4-GP1A-58</i>	<i>PS4-GP2A-10</i>	<i>PS4-GP2A- 15</i>	<i>PS4-GP2A-20</i>	
<i>Sample Date:</i>		<i>12/10/2007</i>	<i>12/10/2007</i>	<i>12/10/2007</i>	<i>12/10/2007</i>	<i>12/10/2007</i>	<i>12/18/2007</i>	<i>12/13/2007</i>	<i>12/13/2007</i>	<i>12/14/2007</i>	
<i>Sample Depth:</i>		<i>35 to 36 ft bgs</i>	<i>40 to 41 ft bgs</i>	<i>45 to 46 ft bgs</i>	<i>50 to 51 ft bgs</i>	<i>55 to 56 ft bgs</i>	<i>58 to 59 ft bgs</i>	<i>10 to 11 ft bgs</i>	<i>15 to 16 ft bgs</i>	<i>20 to 21 ft bgs</i>	
<i>elev_MLLW</i>		<i>-17.08 to -18.08</i>	<i>-22.08 to -23.08</i>	<i>-27.08 to -28.08</i>	<i>-32.08 to -33.08</i>	<i>-37.08 to -38.08</i>	<i>-40.08 to -41.08</i>	<i>7.92 to 6.92</i>	<i>2.92 to 1.92</i>	<i>-2.08 to -3.08</i>	
<i>elev_NGVD</i>		<i>-23.4 to -24.4</i>	<i>-28.4 to -29.4</i>	<i>-33.4 to -34.4</i>	<i>-38.4 to -39.4</i>	<i>-43.4 to -44.4</i>	<i>-46.4 to -47.4</i>	<i>1.6 to 0.6</i>	<i>-3.4 to -4.4</i>	<i>-8.4 to -9.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>									
<i>Fparam</i>											
Conductivity, field	umhos/cm	29600	35300	58000	74300	58400	-	24100	28600	26800	
Dissolved oxygen (DO), field	µg/L	690	770	8420	1030	720	120	5560	1300	1340	
Oxidation reduction potential (ORP), field	millivolts	-378	-384	-254	-298	-381	-574	-221	-366	-458	
pH, field	s.u.	7-8.5	12.18	12.35	14.11	> 14.00	13.87	> 14.00	12.23	12.54	12.51
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-	-	
Temperature, field	deg c	18.32	17.31	9.80	11.43	15.17	12.71	12.03	13.12	18.55	
Temperature, field	deg f	-	-	-	-	-	-	-	-	-	
Turbidity, field	ntu	-	-	-	-	-	-	-	-	-	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PS4-GP2A	PS4-GP2A	PS4-GP2A	PS4-GP2A	PS4-GP2A	PS4-GP2A	PS4-GP2A	PS4-GP2A	PS4-GP2A
Sample ID:	PS4-GP2A-25	PS4-GP2A-30	PS4-GP2A-35	PS4-GP2A-40	PS4-GP2A-45	PS4-GP2A-50	PS4-GP2A-55	PS4-GP2A-60	PS4-GP2A-65
Sample Date:	12/14/2007	12/14/2007	12/14/2007	12/14/2007	12/14/2007	12/14/2007	12/14/2007	12/17/2007	12/17/2007
Sample Depth:	25 to 26 ft bgs	30 to 31 ft bgs	35 to 36 ft bgs	40 to 41 ft bgs	45 to 46 ft bgs	50 to 51 ft bgs	55 to 56 ft bgs	60 to 59 ft bgs	65 to 66 ft bgs
elev_MLLW	-7.08 to -8.08	-12.08 to -13.08	-17.08 to -18.08	-22.08 to -23.08	-27.08 to -28.08	-32.08 to -33.08	-37.08 to -38.08	-42.08 to -41.08	-47.08 to -48.08
elev_NGVD	-13.4 to -14.4	-18.4 to -19.4	-23.4 to -24.4	-28.4 to -29.4	-33.4 to -34.4	-38.4 to -39.4	-43.4 to -44.4	-48.4 to -47.4	-53.4 to -54.4

Parameters Units CSI WG

Fparam

Parameters	Units	CSI	WG	PS4-GP2A-25	PS4-GP2A-30	PS4-GP2A-35	PS4-GP2A-40	PS4-GP2A-45	PS4-GP2A-50	PS4-GP2A-55	PS4-GP2A-60	PS4-GP2A-65
Conductivity, field	umhos/cm			36000	35800	41900	38800	39900	37400	41500	99400	-
Dissolved oxygen (DO), field	µg/L			1240	1240	1160	1170	1440	1200	960	1580	880
Oxidation reduction potential (ORP), field	millivolts			-462	-460	-433	-440	-435	-426	-436	-393	-521
pH, field	s.u.	7-8.5		12.31	12.33	11.40	11.70	11.74	11.64	12.45	> 14.00	> 14.00
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-	-	-
Temperature, field	deg c			18.35	18.97	19.47	17.99	16.75	19.68	18.43	13.22	17.75
Temperature, field	deg f			-	-	-	-	-	-	-	-	-
Turbidity, field	ntu			-	-	-	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	<i>PS4-GP3A</i>	<i>PS4-GP3A</i>	<i>PS4-GP3A</i>	<i>PS4-GP3A</i>	<i>PS4-GP3A</i>	<i>PS4-GP3A</i>	<i>PS4-GP3A</i>	<i>PS4-GP3A</i>	<i>PS4-GP3A</i>
Sample ID:	<i>PS4-GP3A-10</i>	<i>PS4-GP3A-15</i>	<i>PS4-GP3A-20</i>	<i>PS4-GP3A-25</i>	<i>PS4-GP3A-30</i>	<i>PS4-GP3A-35</i>	<i>PS4-GP3A-40</i>	<i>PS4-GP3A-45</i>	<i>PS4-GP3A-50</i>
Sample Date:	<i>12/13/2007</i>	<i>12/13/2007</i>	<i>12/13/2007</i>	<i>12/13/2007</i>	<i>12/13/2007</i>	<i>12/13/2007</i>	<i>12/13/2007</i>	<i>12/13/2007</i>	<i>12/13/2007</i>
Sample Depth:	<i>10 to 11 ft bgs</i>	<i>15 to 16 ft bgs</i>	<i>20 to 21 ft bgs</i>	<i>25 to 26 ft bgs</i>	<i>30 to 31 ft bgs</i>	<i>35 to 36 ft bgs</i>	<i>40 to 41 ft bgs</i>	<i>45 to 46 ft bgs</i>	<i>50 to 51 ft bgs</i>
elev_MLLW	<i>7.92 to 6.92</i>	<i>2.92 to 1.92</i>	<i>-2.08 to -3.08</i>	<i>-7.08 to -8.08</i>	<i>-12.08 to -13.08</i>	<i>-17.08 to -18.08</i>	<i>-22.08 to -23.08</i>	<i>-27.08 to -28.08</i>	<i>-32.08 to -33.08</i>
elev_NGVD	<i>1.6 to 0.6</i>	<i>-3.4 to -4.4</i>	<i>-8.4 to -9.4</i>	<i>-13.4 to -14.4</i>	<i>-18.4 to -19.4</i>	<i>-23.4 to -24.4</i>	<i>-28.4 to -29.4</i>	<i>-33.4 to -34.4</i>	<i>-38.4 to -39.4</i>

Parameters	Units	CSI	WG									
Fparam												
Conductivity, field	umhos/cm			2950	39900	30400	37900	30300	39400	36500	42600	56200
Dissolved oxygen (DO), field	µg/L			1580	1440	1380	1110	1210	1100	1050	1380	1600
Oxidation reduction potential (ORP), field	millivolts			-273	-424	-471	-471	-466	-460	-463	-476	-515
pH, field	s.u.	7-8.5		11.13	12.74	13.04	12.53	12.70	12.13	12.35	12.69	13.66
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-	-	-	-
Temperature, field	deg c			12.40	13.91	15.41	17.88	16.14	16.68	15.82	16.03	17.00
Temperature, field	deg f			-	-	-	-	-	-	-	-	-
Turbidity, field	ntu			-	-	-	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>PS4-GP3A</i>	<i>PS4-GP3A</i>	<i>PS4-GP3A</i>	<i>PS4-GP4A</i>	<i>PS4-GP4A</i>	<i>PS4-GP4A</i>	<i>PS4-GP4A</i>	<i>PS4-GP4A</i>	<i>PS4-GP4A</i>	
<i>Sample ID:</i>		<i>PS4-GP3A-55</i>	<i>PS4-GP3A-60</i>	<i>PS4-GP3A-63</i>	<i>PS4-GP4A-10</i>	<i>PS4-GP4A-15</i>	<i>PS4-GP4A-20</i>	<i>PS4-GP4A-25</i>	<i>PS4-GP4A-30</i>	<i>PS4-GP4A-35</i>	
<i>Sample Date:</i>		<i>12/13/2007</i>	<i>12/13/2007</i>	<i>12/13/2007</i>	<i>12/12/2007</i>	<i>12/12/2007</i>	<i>12/12/2007</i>	<i>12/11/2007</i>	<i>12/11/2007</i>	<i>12/11/2007</i>	
<i>Sample Depth:</i>		<i>55 to 56 ft bgs</i>	<i>60 to 61 ft bgs</i>	<i>63 to 64 ft bgs</i>	<i>10 to 11 ft bgs</i>	<i>15 to 16 ft bgs</i>	<i>20 to 21 ft bgs</i>	<i>25 to 26 ft bgs</i>	<i>30 to 31 ft bgs</i>	<i>35 to 36 ft bgs</i>	
<i>elev_MLLW</i>		<i>-37.08 to -38.08</i>	<i>-42.08 to -43.08</i>	<i>-45.08 to -46.08</i>	<i>7.92 to 6.92</i>	<i>2.92 to 1.92</i>	<i>-2.08 to -3.08</i>	<i>-7.08 to -8.08</i>	<i>-12.08 to -13.08</i>	<i>-17.08 to -18.08</i>	
<i>elev_NGVD</i>		<i>-43.4 to -44.4</i>	<i>-48.4 to -49.4</i>	<i>-51.4 to -52.4</i>	<i>1.6 to 0.6</i>	<i>-3.4 to -4.4</i>	<i>-8.4 to -9.4</i>	<i>-13.4 to -14.4</i>	<i>-18.4 to -19.4</i>	<i>-23.4 to -24.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>									
<i>Fparam</i>											
Conductivity, field	umhos/cm	-	-	-	2910	41300	23300	28700	27000	41800	
Dissolved oxygen (DO), field	µg/L	860	1040	750	1210	1000	1280	960	760	860	
Oxidation reduction potential (ORP), field	millivolts	-478	-505	-509	-272	-359	-355	-420	-409	-434	
pH, field	s.u.	7-8.5	> 14.00	> 14.00	> 14.00	9.74	11.94	12.59	12.82	12.78	13.17
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-	-	
Temperature, field	deg c	19.38	15.58	17.35	14.84	15.61	14.38	19.37	20.59	17.52	
Temperature, field	deg f	-	-	-	-	-	-	-	-	-	
Turbidity, field	ntu	-	-	-	-	-	-	-	-	-	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>PS4-GP4A</i>	<i>PS4-GP4A</i>	<i>PS4-GP4A</i>	<i>PS4-GP4A</i>	<i>PS4-GP5A</i>	<i>PS4-GP5A</i>	<i>PS4-GP5A</i>	<i>PS4-GP5A</i>	<i>PS4-GP5A</i>	
<i>Sample ID:</i>		<i>PS4-GP4A-40</i>	<i>PS4-GP4A-45</i>	<i>PS4-GP4A-50</i>	<i>PS4-GP4A-55</i>	<i>PS4-GP5A-10</i>	<i>PS4-GP5A-15</i>	<i>PS4-GP5A-20</i>	<i>PS4-GP5A-25</i>	<i>PS4-GP5A-30</i>	
<i>Sample Date:</i>		<i>12/11/2007</i>	<i>12/11/2007</i>	<i>12/11/2007</i>	<i>12/11/2007</i>	<i>12/12/2007</i>	<i>12/12/2007</i>	<i>12/12/2007</i>	<i>12/12/2007</i>	<i>12/12/2007</i>	
<i>Sample Depth:</i>		<i>40 to 41 ft bgs</i>	<i>45 to 46 ft bgs</i>	<i>50 to 51 ft bgs</i>	<i>55 to 56 ft bgs</i>	<i>10 to 11 ft bgs</i>	<i>15 to 16 ft bgs</i>	<i>20 to 21 ft bgs</i>	<i>25 to 26 ft bgs</i>	<i>30 to 31 ft bgs</i>	
<i>elev_MLLW</i>		<i>-22.08 to -23.08</i>	<i>-27.08 to -28.08</i>	<i>-32.08 to -33.08</i>	<i>-37.08 to -38.08</i>	<i>7.92 to 6.92</i>	<i>2.92 to 1.92</i>	<i>-2.08 to -3.08</i>	<i>-7.08 to -8.08</i>	<i>-12.08 to -13.08</i>	
<i>elev_NGVD</i>		<i>-28.4 to -29.4</i>	<i>-33.4 to -34.4</i>	<i>-38.4 to -39.4</i>	<i>-43.4 to -44.4</i>	<i>1.6 to 0.6</i>	<i>-3.4 to -4.4</i>	<i>-8.4 to -9.4</i>	<i>-13.4 to -14.4</i>	<i>-18.4 to -19.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>									
<i>Fparam</i>											
Conductivity, field	umhos/cm	40300	44500	54400	-	3010	43300	29400	32600	29300	
Dissolved oxygen (DO), field	µg/L	670	810	930	630	1260	1070	1140	1150	1030	
Oxidation reduction potential (ORP), field	millivolts	-422	-427	-457	-408	-296	-404	-461	-468	-456	
pH, field	s.u.	7-8.5	12.62	12.99	> 14.00	> 14.00	10.60	12.21	12.68	12.53	12.27
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-	-	
Temperature, field	deg c	19.76	17.95	17.60	15.75	14.77	17.08	17.48	17.93	18.88	
Temperature, field	deg f	-	-	-	-	-	-	-	-	-	
Turbidity, field	ntu	-	-	-	-	-	-	-	-	-	

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>PS4-GP5A</i>	<i>PS4-GP5A</i>	<i>PS4-GP5A</i>	<i>PS4-GP5A</i>	<i>PS4-GP5A</i>	<i>PS5-CMT1-P1</i>	<i>PS5-CMT1-P2</i>	<i>PS5-CMT1-P3</i>	
<i>Sample ID:</i>		<i>PS4-GP5A-35</i>	<i>PS4-GP5A-40</i>	<i>PS4-GP5A-45</i>	<i>PS4-GP5A-50</i>	<i>PS4-GP5A-55</i>	<i>GW-021109-CMT1-P1</i>	<i>GW-021009-CMT1-P2</i>	<i>GW-021009-CMT1-P3</i>	
<i>Sample Date:</i>		<i>12/12/2007</i>	<i>12/12/2007</i>	<i>12/12/2007</i>	<i>12/12/2007</i>	<i>12/12/2007</i>	<i>2/11/2009</i>	<i>2/10/2009</i>	<i>2/10/2009</i>	
<i>Sample Depth:</i>		<i>35 to 36 ft bgs</i>	<i>40 to 41 ft bgs</i>	<i>45 to 46 ft bgs</i>	<i>50 to 51 ft bgs</i>	<i>55 to 56 ft bgs</i>	<i>15 to 16 ft bgs</i>	<i>21 to 22 ft bgs</i>	<i>27 to 28 ft bgs</i>	
<i>elev_MLLW</i>		<i>-17.08 to -18.08</i>	<i>-22.08 to -23.08</i>	<i>-27.08 to -28.08</i>	<i>-32.08 to -33.08</i>	<i>-37.08 to -38.08</i>	<i>2.92 to 1.92</i>	<i>-3.08 to -4.08</i>	<i>-9.08 to -10.08</i>	
<i>elev_NGVD</i>		<i>-23.4 to -24.4</i>	<i>-28.4 to -29.4</i>	<i>-33.4 to -34.4</i>	<i>-38.4 to -39.4</i>	<i>-43.4 to -44.4</i>	<i>-3.4 to -4.4</i>	<i>-9.4 to -10.4</i>	<i>-15.4 to -16.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>								
<i>Fparam</i>										
Conductivity, field	umhos/cm	38600	37700	41900	45800	-	17200	29500	13400	
Dissolved oxygen (DO), field	µg/L	950	950	1020	820	540	8800	6570	5270	
Oxidation reduction potential (ORP), field	millivolts	-465	-481	-469	-512	-541	-120	-139	-178	
pH, field	s.u.	7-8.5	11.94	11.90	11.92	12.49	13.76	13.10	13.10	12.70
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	-	
Temperature, field	deg c	19.17	19.46	19.40	20.45	20.77	10.10	9.30	11.50	
Temperature, field	deg f	-	-	-	-	-	-	-	-	
Turbidity, field	ntu	-	-	-	-	-	13.0	46.5	17.9	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>P55-CMT1-P4</i>	<i>P55-CMT1-P5</i>	<i>P55-CMT1-P6</i>	<i>P55-CMT1-P7</i>	<i>P55-CMT2-P1</i>	<i>P55-CMT2-P2</i>	<i>P55-CMT2-P3</i>	
<i>Sample ID:</i>		<i>GW-021309-CMT1-P4</i>	<i>GW-021309-CMT1-P5</i>	<i>GW-021309-CMT1-P6</i>	<i>GW-021309-CMT1-P7</i>	<i>GW-021109-CMT2-P1</i>	<i>GW-021109-CMT2-P2</i>	<i>GW-021109-CMT2-P3</i>	
<i>Sample Date:</i>		<i>2/13/2009</i>	<i>2/13/2009</i>	<i>2/13/2009</i>	<i>2/13/2009</i>	<i>2/11/2009</i>	<i>2/11/2009</i>	<i>2/11/2009</i>	
<i>Sample Depth:</i>		<i>33 to 34 ft bgs</i>	<i>39 to 40 ft bgs</i>	<i>45 to 46 ft bgs</i>	<i>55 to 56 ft bgs</i>	<i>14.2 to 15.2 ft bgs</i>	<i>20.2 to 21.2 ft bgs</i>	<i>26.2 to 27.2 ft bgs</i>	
<i>elev_MLLW</i>		<i>-15.08 to -16.08</i>	<i>-21.08 to -22.08</i>	<i>-27.08 to -28.08</i>	<i>-37.08 to -38.08</i>	<i>3.72 to 2.72</i>	<i>-2.28 to -3.28</i>	<i>-8.28 to -9.28</i>	
<i>elev_NGVD</i>		<i>-21.4 to -22.4</i>	<i>-27.4 to -28.4</i>	<i>-33.4 to -34.4</i>	<i>-43.4 to -44.4</i>	<i>-2.6 to -3.6</i>	<i>-8.6 to -9.6</i>	<i>-14.6 to -15.6</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>Fparam</i>									
Conductivity, field	umhos/cm	36700	68500	96400	-	8500	15700	10500	
Dissolved oxygen (DO), field	µg/L	610	230	380	120	10680	4450	4470	
Oxidation reduction potential (ORP), field	millivolts	-261	-187	-201	-180	-32	-152	-	
pH, field	s.u.	7-8.5	12.98	13.29	13.43	13.66	12.70	12.80	12.50
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	
Temperature, field	deg c	17.84	16.07	17.51	15.50	9.8	13.5	14.3	
Temperature, field	deg f	-	-	-	-	-	-	-	
Turbidity, field	ntu	204	235	599	65.5	71.8	113	95.5	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>P55-CMT2-P4</i>	<i>P55-CMT2-P5</i>	<i>P55-CMT2-P6</i>	<i>P55-CMT2-P7</i>	<i>P55-CMT3-P1</i>	<i>P55-CMT3-P2</i>	<i>P55-CMT3-P3</i>	
<i>Sample ID:</i>		<i>GW-021309-CMT2-P4</i>	<i>GW-021309-CMT2-P5</i>	<i>GW-021309-CMT2-P6</i>	<i>GW-021309-CMT2-P7</i>	<i>GW-021109-CMT3-P1</i>	<i>GW-021109-CMT3-P2</i>	<i>GW-021109-CMT3-P3</i>	
<i>Sample Date:</i>		<i>2/13/2009</i>	<i>2/13/2009</i>	<i>2/13/2009</i>	<i>2/13/2009</i>	<i>2/11/2009</i>	<i>2/11/2009</i>	<i>2/11/2009</i>	
<i>Sample Depth:</i>		<i>33.2 to 34.2 ft bgs</i>	<i>38.2 to 39.2 ft bgs</i>	<i>44.2 to 45.2 ft bgs</i>	<i>54.2 to 55.2 ft bgs</i>	<i>15 to 16 ft bgs</i>	<i>21 to 22 ft bgs</i>	<i>27 to 28 ft bgs</i>	
<i>elev_MLLW</i>		<i>-15.28 to -16.28</i>	<i>-20.28 to -21.28</i>	<i>-26.28 to -27.28</i>	<i>-36.28 to -37.28</i>	<i>2.92 to 1.92</i>	<i>-3.08 to -4.08</i>	<i>-9.08 to -10.08</i>	
<i>elev_NGVD</i>		<i>-21.6 to -22.6</i>	<i>-26.6 to -27.6</i>	<i>-32.6 to -33.6</i>	<i>-42.6 to -43.6</i>	<i>-3.4 to -4.4</i>	<i>-9.4 to -10.4</i>	<i>-15.4 to -16.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>Fparam</i>									
Conductivity, field	umhos/cm	16600	63100	94100	74300	15100	17700	12800	
Dissolved oxygen (DO), field	µg/L	140	80	1100	4500	10460	8770	5020	
Oxidation reduction potential (ORP), field	millivolts	-244	-255	-205	-234	-115	-109	-251	
pH, field	s.u.	7-8.5	12.55	13.21	13.33	13.27	13.00	13.00	12.50
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	
Temperature, field	deg c	17.25	16.31	15.97	16.96	13.1	14.1	15.1	
Temperature, field	deg f	-	-	-	-	-	-	-	
Turbidity, field	ntu	-	-	39.9	48.6	98.9	102	125	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>P55-CMT3-P4</i>	<i>P55-CMT3-P5</i>	<i>P55-CMT3-P6</i>	<i>P55-CMT3-P7</i>	<i>P55-CMT4-P1</i>	<i>P55-CMT4-P2</i>	<i>P55-CMT4-P3</i>	
<i>Sample ID:</i>		<i>GW-021309-CMT3-P4</i>	<i>GW-021309-CMT3-P5</i>	<i>GW-021309-CMT3-P6</i>	<i>GW-021309-CMT3-P7</i>	<i>GW-021109-CMT4-P1</i>	<i>GW-021109-CMT4-P2</i>	<i>GW-021109-CMT4-P3</i>	
<i>Sample Date:</i>		<i>2/13/2009</i>	<i>2/13/2009</i>	<i>2/13/2009</i>	<i>2/13/2009</i>	<i>2/11/2009</i>	<i>2/11/2009</i>	<i>2/11/2009</i>	
<i>Sample Depth:</i>		<i>33 to 34 ft bgs</i>	<i>39 to 40 ft bgs</i>	<i>45 to 46 ft bgs</i>	<i>55 to 56 ft bgs</i>	<i>15 to 16 ft bgs</i>	<i>21 to 22 ft bgs</i>	<i>27 to 28 ft bgs</i>	
<i>elev_MLLW</i>		<i>-15.08 to -16.08</i>	<i>-21.08 to -22.08</i>	<i>-27.08 to -28.08</i>	<i>-37.08 to -38.08</i>	<i>2.92 to 1.92</i>	<i>-3.08 to -4.08</i>	<i>-9.08 to -10.08</i>	
<i>elev_NGVD</i>		<i>-21.4 to -22.4</i>	<i>-27.4 to -28.4</i>	<i>-33.4 to -34.4</i>	<i>-43.4 to -44.4</i>	<i>-3.4 to -4.4</i>	<i>-9.4 to -10.4</i>	<i>-15.4 to -16.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>Fparam</i>									
Conductivity, field	umhos/cm	25900	36700	91500	> 99.9	14800	19700	11600	
Dissolved oxygen (DO), field	µg/L	1950	540	720	490	12000	8680	4910	
Oxidation reduction potential (ORP), field	millivolts	-121	-214	-164	-203	-51	-184	-113	
pH, field	s.u.	7-8.5	12.70	12.91	13.29	13.65	13.00	12.90	12.50
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	
Temperature, field	deg c	16.68	16.26	15.69	15.47	9.60	11.60	14.60	
Temperature, field	deg f	-	-	-	-	-	-	-	
Turbidity, field	ntu	364	647	48.5	48.6	27.1	221	27.8	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>PS5-CMT4-P4</i>	<i>PS5-CMT4-P5</i>	<i>PS5-CMT4-P6</i>	<i>PS5-CMT4-P7</i>	<i>PS5-IP</i>	<i>PS5-IP</i>	<i>PS5-IP</i>	
<i>Sample ID:</i>		<i>GW-021209-CMT4-P4</i>	<i>GW-021209-CMT4-P5</i>	<i>GW-021209-CMT4-P6</i>	<i>GW-021209-CMT4-P7</i>	<i>GW-021609-PSS-IP-P1</i>	<i>GW-021609-PSS-IP-P2</i>	<i>GW-021609-PSS-IP-P3</i>	
<i>Sample Date:</i>		<i>2/12/2009</i>	<i>2/12/2009</i>	<i>2/12/2009</i>	<i>2/12/2009</i>	<i>2/16/2009</i>	<i>2/16/2009</i>	<i>2/16/2009</i>	
<i>Sample Depth:</i>		<i>33 to 34 ft bgs</i>	<i>39 to 40 ft bgs</i>	<i>45 to 46 ft bgs</i>	<i>55 to 56 ft bgs</i>	<i>20 to 25 ft bgs</i>	<i>32.5 to 37.5 ft bgs</i>	<i>45 to 50 ft bgs</i>	
<i>elev_MLLW</i>		<i>-15.08 to -16.08</i>	<i>-21.08 to -22.08</i>	<i>-27.08 to -28.08</i>	<i>-37.08 to -38.08</i>	<i>-2.08 to -7.08</i>	<i>-14.58 to -19.58</i>	<i>-27.08 to -32.08</i>	
<i>elev_NGVD</i>		<i>-21.4 to -22.4</i>	<i>-27.4 to -28.4</i>	<i>-33.4 to -34.4</i>	<i>-43.4 to -44.4</i>	<i>-8.4 to -13.4</i>	<i>-20.9 to -25.9</i>	<i>-33.4 to -38.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>							
<i>Fparam</i>									
Conductivity, field	umhos/cm	21900	44600	93900	> 99.9	24400	16200	70600	
Dissolved oxygen (DO), field	µg/L	1440	280	100	120	80	330	250	
Oxidation reduction potential (ORP), field	millivolts	-187	-190	-221	-286	-219	-223	-203	
pH, field	s.u.	7-8.5	12.68	13.08	13.39	13.61	12.93	12.57	13.27
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	-	
Temperature, field	deg c	14.40	15.91	17.91	17.52	14.83	16.56	15.84	
Temperature, field	deg f	-	-	-	-	-	-	-	
Turbidity, field	ntu	355	147	246	10.4	71.20	-	42.10	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PT-12A	PT-12A	PT-12A	PT-12A	PT-13A	PT-13A			
Sample ID:	GW-102405-PT-12A-001	GW-102405-PT-12A-002	GW-102405-PT-12A-003	GW-102405-PT-12A-004	GW-110905-PT-13A-001	GW-110905-PT-13A-002			
Sample Date:	10/24/2005	10/24/2005	10/24/2005	10/24/2005	11/9/2005	11/9/2005			
Sample Depth:	68.9 to 71.9 ft bml	68.9 to 71.9 ft bml	78.9 to 81.9 ft bml	88.9 to 91.9 ft bml	11.8 to 14.8 ft bml	21.8 to 24.8 ft bml			
elev_MLLW	-92.4 to -95.4	-92.4 to -95.4	-102.4 to -105.4	-112.4 to -115.4	-31.91 to -34.91	-41.91 to -44.91			
elev_NGVD	-98.7 to -101.7	-98.7 to -101.7	-108.7 to -111.7	-118.7 to -121.7	-38.2 to -41.2	-48.2 to -51.2			
Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			63700	63700	90200	> 99.9	53900	58100
Dissolved oxygen (DO), field	µg/L			40	40	110	280	760	400
Oxidation reduction potential (ORP), field	millivolts			-472	-472	-527	-547	-321	-246
pH, field	s.u.	7-8.5		11.39	11.39	11.77	11.73	11.01	9.43
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			13.2	13.2	14.0	14.6	12.6	12.3
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			> 999	> 999	> 999	956	999	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PT-13A	PT-13A	PT-13A	PT-13A	PT-13A	PT-13A
Sample ID:	GW-110905-PT-13A-003	GW-110905-PT-13A-004	GW-111005-PT-13A-005	GW-111005-PT-13A-006	GW-111005-PT-13A-007	GW-111005-PT-13A-008
Sample Date:	11/9/2005	11/9/2005	11/10/2005	11/10/2005	11/10/2005	11/10/2005
Sample Depth:	61.9 to 64.9 ft bml	71.9 to 74.9 ft bml	81.9 to 84.9 ft bml	91.9 to 94.9 ft bml	101.9 to 104.9 ft bml	111.9 to 114.9 ft bml
elev_MLLW	-82.01 to -85.01	-92.01 to -95.01	-102.01 to -105.01	-112.01 to -115.01	-122.01 to -125.01	-132.01 to -135.01
elev_NGVD	-88.3 to -91.3	-98.3 to -101.3	-108.3 to -111.3	-118.3 to -121.3	-128.3 to -131.3	-138.3 to -141.3

Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			72100	87200	> 99.9	65200	19600	12900
Dissolved oxygen (DO), field	µg/L			690	500	890	690	600	590
Oxidation reduction potential (ORP), field	millivolts			-438	-485	-490	-371	-182	-24
pH, field	s.u.	7-8.5		11.76	11.76	11.7	9.37	8.57	8.34
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			12.7	11.1	12.5	11.8	12.6	12.9
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			> 999	391	124	> 999	> 999	> 999

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PT-13A	PT-13A	PT-13A	PT-15A	PT-15A	PT-15A
Sample ID:	GW-111005-PT-13A-009	GW-111005-PT-13A-010	GW-111105-PT-13A-011	GW-110905-PT-15A-001	GW-110905-FD-001	GW-110905-PT-15A-FD-001
Sample Date:	11/10/2005	11/10/2005	11/11/2005	11/9/2005	11/9/2005	11/9/2005
Sample Depth:	121.9 to 124.9 ft bml	131.9 to 134.9 ft bml	141.9 to 144.9 ft bml	56 to 57 ft bml	56 to 57 ft bml	56 to 57 ft bml
elev_MLLW	-142.01 to -145.01	-152.01 to -155.01	-162.01 to -165.01	-69 to -70	-69 to -70	-69 to -70
elev_NGVD	-148.3 to -151.3	-158.3 to -161.3	-168.3 to -171.3	-75.3 to -76.3	-75.3 to -76.3 (Duplicate)	-75.3 to -76.3 (Duplicate)
Parameters	Units	CSI	WG			
Fparam						
Conductivity, field	umhos/cm					
Dissolved oxygen (DO), field	µg/L					
Oxidation reduction potential (ORP), field	millivolts					
pH, field	s.u.	7-8.5				
Specific Gravity~FIELDPARAM	sg					
Temperature, field	deg c					
Temperature, field	deg f					
Turbidity, field	ntu					

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PT-15A	PT-15A	PT-15A	PT-15A	PT-15A	PT-15A			
Sample ID:	GW-110905-PT-15A-002	GW-111005-PT-15A-003	GW-111005-PT-15A-004	GW-111005-PT-15A-005	GW-111105-PT-15A-006	GW-111105-PT-15A-007			
Sample Date:	11/9/2005	11/10/2005	11/10/2005	11/10/2005	11/11/2005	11/11/2005			
Sample Depth:	66 to 67 ft bml	66 to 67 ft bml	101 to 104 ft bml	111 to 114 ft bml	121 to 124 ft bml	131 to 134 ft bml			
elev_MLLW	-79 to -80	-79 to -80	-114 to -117	-124 to -127	-134 to -137	-144 to -147			
elev_NGVD	-85.3 to -86.3	-85.3 to -86.3	-120.3 to -123.3	-130.3 to -133.3	-140.3 to -143.3	-150.3 to -153.3			
Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			65200	65200	72100	70600	> 99.9	96800
Dissolved oxygen (DO), field	µg/L			0	0	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts			-464	-464	-531	-536	-485	-299
pH, field	s.u.	7-8.5		10.53	10.53	12.29	12.02	12.06	7.42
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			13.1	13.1	13.4	13	10	9.7
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			-	-	146	-	403	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PT-15A	PT-15A	PT-15A	PT-15A	PT-15B	PT-15B			
Sample ID:	GW-111405-PT-15A-008	GW-111405-PT-15A-009	GW-111405-PT-15A-010	GW-111505-PT-15A-011	GW-122006-PT-15B-DR-001	GW-122006-PT-15B-DR-002			
Sample Date:	11/14/2005	11/14/2005	11/14/2005	11/15/2005	12/20/2006	12/20/2006			
Sample Depth:	141 to 144 ft bml	151 to 154 ft bml	151 to 154 ft bml	161 to 164 ft bml	13 to 15 ft bml	18 to 20 ft bml			
elev_MLLW	-154 to -157	-164 to -167	-164 to -167	-174 to -177	-27 to -29	-32 to -34			
elev_NGVD	-160.3 to -163.3	-170.3 to -173.3	-170.3 to -173.3	-180.3 to -183.3	-33.3 to -35.3	-38.3 to -40.3			
			(Duplicate)						
Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			13900	16200	16200	19100	47400	50100
Dissolved oxygen (DO), field	µg/L			1640	1730	1730	370	450	440
Oxidation reduction potential (ORP), field	millivolts			-189	-214	-214	-191	-302	-273
pH, field	s.u.	7-8.5		8.92	9.04	9.04	8.75	9.56	9.34
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			10.7	12.9	12.9	11.9	9.4	9.1
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			94.4	282	282	606	86	NR

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	PT-15B	PT-15B	PT-17A	PT-17A	PZ-1
Sample ID:	GW-122106-PT-15B-DR-003	GW-122106-BI-PT-15B-004	GW-020107-ILM-PT-17A-001	GW-020107-ILM-PT-17A-002	PZ-1
Sample Date:	12/21/2006	12/21/2006	2/1/2007	2/2/2007	7/1/2004
Sample Depth:	28 to 30 ft bml	38 to 40 ft bml	0.5 to 2.5 ft bml	10 to 12 ft bml	2 to 3 ft BML
elev_MLLW	-42 to -44	-52 to -54	-24.64 to -26.64	-34.14 to -36.14	-38.25027087 to -39.25027087
elev_NGVD	-48.3 to -50.3	-58.3 to -60.3	-31 to -33	-40.5 to -42.5	-44.6 to -45.6

Parameters	Units	CSI	WG			
Fparam						
Conductivity, field	umhos/cm			78900	78000	46000
Dissolved oxygen (DO), field	µg/L			330	90	1760
Oxidation reduction potential (ORP), field	millivolts			-364	-455	-403
pH, field	s.u.	7-8.5		10.62	11.56	12.11
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			8.2	9.5	9.18
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			108	796	29.3
						38300
						890
						-367
						7.93
						-
						-
						-
						-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		PZ-2	PZ-3	PZ-4	PZ-5	PZ-6
<i>Sample ID:</i>		PZ-2	PZ-3	PZ-4	PZ-5	PZ-6
<i>Sample Date:</i>		7/1/2004	7/1/2004	7/1/2004	7/1/2004	7/1/2004
<i>Sample Depth:</i>		2 to 3 ft BML	3.75 to 4.75 ft BML	0.5 to 1.5 ft BML	6 to 7 ft BML	6 to 7 ft BML
<i>elev_MLLW</i>		-42.02901095 to -43.02901095	-42.40007824 to -43.40007824	-25.57614158 to -26.57614158	-34.70391067 to -35.70391067	-32.37980696 to -33.37980696
<i>elev_NGVD</i>		-48.3 to -49.3	-48.7 to -49.7	-31.9 to -32.9	-41 to -42	-38.7 to -39.7
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm	-	-	-	-	-
Dissolved oxygen (DO), field	µg/L	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts	-	-	-	-	-
pH, field	s.u.	7-8.5	7.71	11.41	11.25	8.53
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	-	-	-	-	-
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	-	-	-	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>PZ-7</i>	<i>PZ-8</i>	<i>PZ-9</i>	<i>PZ-SHI-1-33</i>	<i>PZ-SHI-1-75</i>
<i>Sample ID:</i>	<i>PZ-7</i>	<i>PZ-8</i>	<i>PZ-9</i>	<i>PZ-SHI-1-42</i>	<i>GW-072006-ZF-PZ-SHI-1-75</i>
<i>Sample Date:</i>	<i>7/1/2004</i>	<i>7/1/2004</i>	<i>7/1/2004</i>	<i>7/26/2006</i>	<i>7/20/2006</i>
<i>Sample Depth:</i>	<i>2 to 3 ft BML</i>	<i>1.5 to 2.5 ft BML</i>	<i>4 to 5 ft BML</i>	<i>2.25 to 3.25 ft bml</i>	<i>41 to 46 ft bml</i>
<i>elev_MLLW</i>	<i>-21.51413147 to -22.51413147</i>	<i>-43.15165518 to -44.15165518</i>	<i>-42.3135332 to -43.3135332</i>	<i>-14.07 to -15.07</i>	<i>-52.8 to -57.8</i>
<i>elev_NGVD</i>	<i>-27.8 to -28.8</i>	<i>-49.5 to -50.5</i>	<i>-48.6 to -49.6</i>	<i>-20.4 to -21.4</i>	<i>-59.1 to -64.1</i>
Parameters	Units	CSI	WG		
Fparam					
Conductivity, field	umhos/cm	-	-	-	50100 64100
Dissolved oxygen (DO), field	µg/L	-	-	-	0 0
Oxidation reduction potential (ORP), field	millivolts	-	-	-	-273 -245
pH, field	s.u.	7-8.5	9.01	8.46	7.58 8.65 9.1
Specific Gravity~FIELDPARAM	sg	-	-	-	- -
Temperature, field	deg c	-	-	-	15.01 16.06
Temperature, field	deg f	-	-	-	- -
Turbidity, field	ntu	-	-	-	50.30 111.00

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>PZ-SHI-1-100</i>	<i>PZ-SHI-1-126</i>	<i>PZ-SHI-2-25</i>	<i>PZ-SHI-2-75</i>	<i>PZ-SHI-2-100</i>
<i>Sample ID:</i>	<i>GW-072006-ZF-PZ-SHI-1-100</i>	<i>GW-081506-ILM-PZ-SHI-1-130</i>	<i>GW-071406-ZF-PZ-SHI-2-25</i>	<i>WG-082512-AMK-PZ-SHI-2-75-291</i>	<i>WG-082512-LP-PZ-SHI-2-100-292</i>
<i>Sample Date:</i>	<i>7/20/2006</i>	<i>8/15/2006</i>	<i>7/14/2006</i>	<i>8/25/2012</i>	<i>8/25/2012</i>
<i>Sample Depth:</i>	<i>66 to 71 ft bml</i>	<i>96 to 101 ft bml</i>	<i>3.75 to 4.75 ft bml</i>	<i>75 ft BGS</i>	<i>100 ft BGS</i>
<i>elev_MLLW</i>	<i>-77.79 to -82.79</i>	<i>-105.82 to -110.82</i>	<i>-6 to -7</i>	<i>-72.86</i>	<i>-99.62</i>
<i>elev_NGVD</i>	<i>-84.1 to -89.1</i>	<i>-112.1 to -117.1</i>	<i>-12.3 to -13.3</i>	<i>-79.2</i>	<i>-105.9</i>
Parameters	Units	CSI	WG		
Fparam					
Conductivity, field	umhos/cm	93300	133200	29900	57800
Dissolved oxygen (DO), field	µg/L	0	10	2490	0
Oxidation reduction potential (ORP), field	millivolts	-276	-339	-263	-534
pH, field	s.u.	7-8.5	12.55	8.26	11.16
Specific Gravity~FIELDPARAM	sg	-	-	-	-
Temperature, field	deg c	16.13	20.4	22.23	17.44
Temperature, field	deg f	-	-	-	-
Turbidity, field	ntu	154.00	> 999	139.00	51.8
					76.1

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>PZ-SHI-3-42</i>	<i>PZ-SHI-3-75</i>	<i>PZ-SHI-3-100</i>	<i>SB-B-DEEP</i>	<i>SB-B-DEEP</i>
<i>Sample ID:</i>		<i>GW-070806-TR-PZ-SHI-3-42</i>	<i>WG-082512-AMK-PZ-SHI-3-75-293</i>	<i>GW-070806-TR-PZ-SHI-3-100</i>	<i>GW-080613-KB-SB-B-DEEP-01</i>	<i>GW-080613-KB-SB-B-DEEP-02</i>
<i>Sample Date:</i>		<i>7/8/2006</i>	<i>8/25/2012</i>	<i>7/8/2006</i>	<i>8/6/2013</i>	<i>8/6/2013</i>
<i>Sample Depth:</i>		<i>14.5 to 15.5 ft bml</i>	<i>75 ft BGS</i>	<i>70 to 75 ft bml</i>	<i>72 to 74 ft BGS</i>	<i>82 to 84 ft BGS</i>
<i>elev_MLLW</i>		<i>-21.96 to -22.96</i>	<i>-81.96</i>	<i>-76.96 to -81.96</i>	<i>-55.13 to -57.13</i>	<i>-65.13 to -67.13</i>
<i>elev_NGVD</i>		<i>-28.3 to -29.3</i>	<i>-88.3</i>	<i>-83.3 to -88.3</i>	<i>-61.4 to -63.4</i>	<i>-71.4 to -73.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Fparam</i>						
Conductivity, field	umhos/cm	38100	61400	68900	40900	41700
Dissolved oxygen (DO), field	µg/L	0	0	0	520	710
Oxidation reduction potential (ORP), field	millivolts	-319	-428	-302	-207	-165
pH, field	s.u.	7-8.5	7-8.5	8.36	7.85	7.54
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	18.1	17.35	16.3	28.75	31.38
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	114	366	91.6	150	295

TABLE 4.23

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>SB-B-DEEP</i>	<i>SB-B-DEEP</i>	<i>SB-B-DEEP</i>	<i>SB-B-DEEP</i>	<i>SB-B-DEEP</i>
<i>Sample ID:</i>			<i>GW-080713-KB-SB-B-DEEP-03</i>	<i>GW-080713-KB-SB-B-DEEP-04</i>	<i>GW-080713-KB-SB-B-DEEP-05</i>	<i>GW-080813-KB-SB-B-DEEP-06</i>	<i>GW-080813-KB-SB-B-DEEP-07</i>
<i>Sample Date:</i>			<i>8/7/2013</i>	<i>8/7/2013</i>	<i>8/7/2013</i>	<i>8/8/2013</i>	<i>8/8/2013</i>
<i>Sample Depth:</i>			<i>92 to 94 ft BGS</i>	<i>102 to 104 ft BGS</i>	<i>112 to 114 ft BGS</i>	<i>122 to 124 ft BGS</i>	<i>132 to 134 ft BGS</i>
<i>elev_MLLW</i>			<i>-75.13 to -77.13</i>	<i>-85.13 to -87.13</i>	<i>-95.13 to -97.13</i>	<i>-105.13 to -107.13</i>	<i>-115.13 to -117.13</i>
<i>elev_NGVD</i>			<i>-81.4 to -83.4</i>	<i>-91.4 to -93.4</i>	<i>-101.4 to -103.4</i>	<i>-111.4 to -113.4</i>	<i>-121.4 to -123.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		41500	69600	-	-	-
Dissolved oxygen (DO), field	µg/L		730	720	1620	330	150
Oxidation reduction potential (ORP), field	millivolts		179	-175	-186	-257	-480
pH, field	s.u.	7-8.5	7.57	7.28	7.33	8.24	10.55
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		17.18	19.92	25.6	16.64	109.94
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		21	199	460	240	108

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP	SB-B-DEEP
Sample ID:	GW-080813-KB-SB-B-DEEP-08	GW-080813-KB-SB-B-DEEP-09	GW-080913-KB-SB-B-DEEP-10	GW-080913-KB-SB-B-DEEP-11	GW-081213-KB-SB-B-DEEP-12
Sample Date:	8/8/2013	8/8/2013	8/9/2013	8/9/2013	8/12/2013
Sample Depth:	142 to 144 ft BGS	152 to 154 ft BGS	162 to 164 ft BGS	172 to 174 ft BGS	182 to 184 ft BGS
elev_MLLW	-125.13 to -127.13	-135.13 to -137.13	-145.13 to -147.13	-155.13 to -157.13	-165.13 to -167.13
elev_NGVD	-131.4 to -133.4	-141.4 to -143.4	-151.4 to -153.4	-161.4 to -163.4	-171.4 to -173.4

Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			82000	81700	22300	31300	38100	
Dissolved oxygen (DO), field	µg/L			2230	2590	6420	9030	2800	
Oxidation reduction potential (ORP), field	millivolts			-437	-435	-225	-216	-52	
pH, field	s.u.	7-8.5		11.93	11.68	12.03	11.88	12.36	
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	
Temperature, field	deg c			18.63	20.98	18.91	16.89	14.67	
Temperature, field	deg f			-	-	-	-	-	
Turbidity, field	ntu			1000	636	877	1000	87	

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SB-B-DEEP</i>	<i>SB-B-DEEP</i>	<i>SP-1</i>	<i>SP-1</i>	<i>SP-1</i>	<i>SP-1</i>
<i>Sample ID:</i>		<i>GW-081213-KB-SB-B-DEEP-13</i>	<i>GW-081213-KB-SB-B-DEEP-14</i>	<i>GW-062306-LH-SP1-001</i>	<i>GW-062306-LH-SP1-002</i>	<i>GW-062306-LH-SP1-003</i>	<i>GW-062306-LH-SP1-004</i>
<i>Sample Date:</i>		<i>8/12/2013</i>	<i>8/12/2013</i>	<i>6/23/2006</i>	<i>6/23/2006</i>	<i>6/23/2006</i>	<i>6/23/2006</i>
<i>Sample Depth:</i>		<i>192 to 194 ft BGS</i>	<i>192 to 194 ft BGS</i>	<i>9 to 12 ft bgs</i>	<i>18 to 21 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>34 to 37 ft bgs</i>
<i>elev_MLLW</i>		<i>-175.13 to -177.13</i>	<i>-175.13 to -177.13</i>	<i>8.92 to 5.92</i>	<i>-0.08 to -3.08</i>	<i>-5.08 to -8.08</i>	<i>-16.08 to -19.08</i>
<i>elev_NGVD</i>		<i>-181.4 to -183.4</i>	<i>-181.4 to -183.4</i>	<i>2.6 to -0.4</i>	<i>-6.4 to -9.4</i>	<i>-11.4 to -14.4</i>	<i>-22.4 to -25.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm			12600	12600	454	> 99.9
Dissolved oxygen (DO), field	µg/L			1080	1080	770	620
Oxidation reduction potential (ORP), field	millivolts			56	56	-35	-259
pH, field	s.u.	7-8.5		8.49	8.49	10.59	7.35
Specific Gravity~FIELDPARAM	sg			-	-	-	-
Temperature, field	deg c			21.62	21.62	14.10	17.70
Temperature, field	deg f			-	-	-	-
Turbidity, field	ntu			171	171	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-1	SP-1	SP-1	SP-1	SP-1	SP-1
Sample ID:	GW-062606-LH-SP1-005	GW-062606-LH-SP1-006	GW-062606-LH-SP1-007	GW-062606-LH-SP1-008	GW-062806-DR-SP1-011	GW-062706-LH-SP1-009
Sample Date:	6/26/2006	6/26/2006	6/26/2006	6/26/2006	6/28/2006	6/27/2006
Sample Depth:	43 to 46 ft bgs	48 to 51 ft bgs	58 to 61 ft bgs	68 to 71 ft bgs	88 to 91 ft bgs	98 to 101 ft bgs
elev_MLLW	-25.08 to -28.08	-30.08 to -33.08	-40.08 to -43.08	-50.08 to -53.08	-70.08 to -73.08	-80.08 to -83.08
elev_NGVD	-31.4 to -34.4	-36.4 to -39.4	-46.4 to -49.4	-56.4 to -59.4	-76.4 to -79.4	-86.4 to -89.4

Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			71400	74200	68200	53000	88200	82700
Dissolved oxygen (DO), field	µg/L			1590	2580	2710	2110	1080	990
Oxidation reduction potential (ORP), field	millivolts			-219	-244	-460	-551	-556	-685
pH, field	s.u.	7-8.5		6.46	6.65	9.80	11.69	11.99	12.04
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			18.30	21.10	24.10	26.80	20.4	21.90
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			-	-	-	-	0.0	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		SP-1	SP-1	SP-1	SP-1	SP-1	SP-1	
<i>Sample ID:</i>		GW-090606-JL-SP1-013	GW-090606-JL-SP1-014	GW-090706-JL-SP1-015	GW-090706-JL-SP1-016	GW-090706-JL-SP1-017	GW-090706-JL-SP1-018	
<i>Sample Date:</i>		9/6/2006	9/6/2006	9/7/2006	9/7/2006	9/7/2006	9/7/2006	
<i>Sample Depth:</i>		118 to 122 ft bgs	128 to 132 ft bgs	138 to 142 ft bgs	148 to 152 ft bgs	158 to 162 ft bgs	168 to 172 ft bgs	
<i>elev_MLLW</i>		-100.08 to -104.08	-110.08 to -114.08	-120.08 to -124.08	-130.08 to -134.08	-140.08 to -144.08	-150.08 to -154.08	
<i>elev_NGVD</i>		-106.4 to -110.4	-116.4 to -120.4	-126.4 to -130.4	-136.4 to -140.4	-146.4 to -150.4	-156.4 to -160.4	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>				
<i>Fparam</i>								
Conductivity, field	umhos/cm	99900	99900	219	19100	25100	NR	
Dissolved oxygen (DO), field	µg/L	0	0	7530	2830	3050	NR	
Oxidation reduction potential (ORP), field	millivolts	-524	-527	4	20	-113	NR	
pH, field	s.u.	7-8.5	11.50	11.39	9.37	8.30	7.63	NR
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	26.27	32.14	19.94	22.35	24.03	NR	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	301	508	87.6	464	376	NR	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			SP-1	SP-1	SP-1	SP-1	SP-2	SP-2
<i>Sample ID:</i>			GW-090806-JL-SP1-019	GW-090806-JL-SP1-020	GW-090806-JL-SP1-021	GW-091106-JL-SP1-022	GW-070706-DR-SP2-001	GW-070706-DR-SP2-002
<i>Sample Date:</i>			9/8/2006	9/8/2006	9/8/2006	9/11/2006	7/7/2006	7/7/2006
<i>Sample Depth:</i>			178 to 182 ft bgs	188 to 192 ft bgs	198 to 200 ft bgs	208 to 212 ft bgs	8 to 11 ft bgs	18 to 21 ft bgs
<i>elev_MLLW</i>			-160.08 to -164.08	-170.08 to -174.08	-180.08 to -182.08	-190.08 to -194.08	9.92 to 6.92	-0.08 to -3.08
<i>elev_NGVD</i>			-166.4 to -170.4	-176.4 to -180.4	-186.4 to -188.4	-196.4 to -200.4	3.6 to 0.6	-6.4 to -9.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		19800	23700	NR	NR	24300	74500
Dissolved oxygen (DO), field	µg/L		6130	3640	NR	NR	1740	800
Oxidation reduction potential (ORP), field	millivolts		46	-47	NR	NR	-230	-473
pH, field	s.u.	7-8.5	7.31	7.24	NR	NR	8.69	11.87
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		20.53	21.87	NR	NR	17.86	19.54
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		999	454	NR	NR	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		SP-2	SP-2	SP-2	SP-2	SP-2	SP-2
<i>Sample ID:</i>		GW-070706-DR-SP2-003	GW-070706-DR-SP2-004	GW-070706-DR-SP2-005	GW-071006-LH-SP2-006	GW-071006-LH-SP2-007	GW-071006-LH-SP2-008
<i>Sample Date:</i>		7/7/2006	7/7/2006	7/7/2006	7/10/2006	7/10/2006	7/10/2006
<i>Sample Depth:</i>		23 to 26 ft bgs	23 to 26 ft bgs	33 to 36 ft bgs	43 to 46 ft bgs	48 to 51 ft bgs	58 to 61 ft bgs
<i>elev_MLLW</i>		-5.08 to -8.08	-5.08 to -8.08	-15.08 to -18.08	-25.08 to -28.08	-30.08 to -33.08	-40.08 to -43.08
<i>elev_NGVD</i>		-11.4 to -14.4	-11.4 to -14.4	-21.4 to -24.4	-31.4 to -34.4	-36.4 to -39.4	-46.4 to -49.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	79300	79300	58500	59500	65400	59800
Dissolved oxygen (DO), field	µg/L	850	850	950	960	1160	1050
Oxidation reduction potential (ORP), field	millivolts	-493	-493	-533	-525	-494	-538
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	20.75	20.75	23.41	20.89	21.85	22.54
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		SP-2	SP-2	SP-2	SP-2	SP-2	SP-2	
<i>Sample ID:</i>		GW-071106-LH-SP2-009	GW-071106-LH-SP2-010	GW-071206-LH-SP2-011	GW-071206-LH-SP2-012	GW-091206-JL-SP2-012	GW-091206-JL-SP2-013	
<i>Sample Date:</i>		7/11/2006	7/11/2006	7/12/2006	7/12/2006	9/12/2006	9/12/2006	
<i>Sample Depth:</i>		68 to 71 ft bgs	78 to 81 ft bgs	88 to 91 ft bgs	98 to 101 ft bgs	108 to 112 ft bgs	121 to 122 ft bgs	
<i>elev_MLLW</i>		-50.08 to -53.08	-60.08 to -63.08	-70.08 to -73.08	-80.08 to -83.08	-90.08 to -94.08	-103.08 to -104.08	
<i>elev_NGVD</i>		-56.4 to -59.4	-66.4 to -69.4	-76.4 to -79.4	-86.4 to -89.4	-96.4 to -100.4	-109.4 to -110.4	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm	48500	58700	> 99.9	> 99.9	109	78000	
Dissolved oxygen (DO), field	µg/L	1050	880	0	630	12010	0	
Oxidation reduction potential (ORP), field	millivolts	-602	-657	-965	-848	3	-491	
pH, field	s.u.	7-8.5	11.35	11.67	13.76	12.64	9.86	11.82
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	20.8	23.08	20.98	22.6	25.34	24.98	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	-	-	-	-	155	> 999	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-2	SP-2	SP-2	SP-2	SP-2	SP-2	
Sample ID:	GW-091306-JL-SP2-015	GW-091306-JL-SP2-016	GW-091306-JL-SP2-017	GW-091306-JL-SP2-018	GW-091406-JL-SP2-019	GW-091406-JL-SP2-020	
Sample Date:	9/13/2006	9/13/2006	9/13/2006	9/13/2006	9/14/2006	9/14/2006	
Sample Depth:	138 to 142 ft bgs	148 to 152 ft bgs	158 to 162 ft bgs	168 to 172 ft bgs	178 to 182 ft bgs	188 to 192 ft bgs	
elev_MLLW	-120.08 to -124.08	-130.08 to -134.08	-140.08 to -144.08	-150.08 to -154.08	-160.08 to -164.08	-170.08 to -174.08	
elev_NGVD	-126.4 to -130.4	-136.4 to -140.4	-146.4 to -150.4	-156.4 to -160.4	-166.4 to -170.4	-176.4 to -180.4	
Parameters	Units	CSI	WG				
Fparam							
Conductivity, field	umhos/cm	1540	3060	429	12900	294	2620
Dissolved oxygen (DO), field	µg/L	6890	12730	9630	9700	6480	9650
Oxidation reduction potential (ORP), field	millivolts	42	53	67	85	-30	-29
pH, field	s.u.	7-8.5	10.14	9.19	8.41	7.84	8.13
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	19.28	20.75	18.82	19.20	17.32	20.03
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	> 999	> 999	> 999	> 999	> 999	> 999

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			SP-2	SP-2	SP-2	SP-2	SP-3	SP-3
<i>Sample ID:</i>			GW-091406-JL-SP2-021	GW-091406-JL-SP2-022	GW-091406-JL-SP2-023	GW-091806-JL-SP2-024	GW-061406-LH-SP3-001	GW-061406-LH-SP3-002
<i>Sample Date:</i>			9/14/2006	9/14/2006	9/14/2006	9/18/2006	6/14/2006	6/14/2006
<i>Sample Depth:</i>			198 to 202 ft bgs	208 to 212 ft bgs	218 to 222 ft bgs	228 to 232 ft bgs	7 to 10 ft bgs	18 to 21 ft bgs
<i>elev_MLLW</i>			-180.08 to -184.08	-190.08 to -194.08	-200.08 to -204.08	-210.08 to -214.08	10.92 to 7.92	-0.08 to -3.08
<i>elev_NGVD</i>			-186.4 to -190.4	-196.4 to -200.4	-206.4 to -210.4	-216.4 to -220.4	4.6 to 1.6	-6.4 to -9.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		23100	207	29000	19900	29300	95800
Dissolved oxygen (DO), field	µg/L		3570	9220	8850	6530	1300	1570
Oxidation reduction potential (ORP), field	millivolts		-93	86	-107	-84	-103	-316
pH, field	s.u.	7-8.5	7.15	7.50	7.16	7.67	8.07	11.26
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		20.93	18.66	15.68	22.40	16.2	18
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		> 999	757	126.0	> 999	293	-

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:		SP-3	SP-3	SP-3	SP-3	SP-3	SP-3	
Sample ID:		GW-061406-LH-SP3-003	GW-061506-LH-SP3-004	GW-061506-LH-SP3-005	GW-061506-LH-SP3-006	GW-061506-LH-SP3-007	GW-061506-LH-SP3-008	
Sample Date:		6/14/2006	6/15/2006	6/15/2006	6/15/2006	6/15/2006	6/15/2006	
Sample Depth:		23 to 26 ft bgs	33 to 36 ft bgs	43 to 46 ft bgs	48 to 51 ft bgs	58 to 61 ft bgs	68 to 71 ft bgs	
elev_MLLW		-5.08 to -8.08	-15.08 to -18.08	-25.08 to -28.08	-30.08 to -33.08	-40.08 to -43.08	-50.08 to -53.08	
elev_NGVD		-11.4 to -14.4	-21.4 to -24.4	-31.4 to -34.4	-36.4 to -39.4	-46.4 to -49.4	-56.4 to -59.4	
Parameters	Units	CSI WG						
Fparam								
Conductivity, field	umhos/cm	> 99.9	44300	48300	57100	52100	56000	
Dissolved oxygen (DO), field	µg/L	1140	1160	1210	1950	110	870	
Oxidation reduction potential (ORP), field	millivolts	-308	-372	-486	-521	-547	-574	
pH, field	s.u.	7-8.5	10.46	11.11	11.49	11.15	10.93	10.84
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	17.8	18.9	20.9	21.4	23	23.8	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	-	-	-	-	-	-	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			SP-3	SP-3	SP-3	SP-3	SP-3	SP-3
<i>Sample ID:</i>			GW-061906-LH-SP3-010	GW-061906-DR-SP3-011	GW-061606-LH-SP3-009	GW-092606-JC-SP3-012	GW-092606-JC-SP3-013	GW-092706-JC-SP3-014
<i>Sample Date:</i>			6/19/2006	6/19/2006	6/16/2006	9/26/2006	9/26/2006	9/27/2006
<i>Sample Depth:</i>			78 to 81 ft bgs	87 to 90 ft bgs	99 to 101 ft bgs	108 to 112 ft bgs	118 to 122 ft bgs	128 to 132 ft bgs
<i>elev_MLLW</i>			-60.08 to -63.08	-69.08 to -72.08	-81.08 to -83.08	-90.08 to -94.08	-100.08 to -104.08	-110.08 to -114.08
<i>elev_NGVD</i>			-66.4 to -69.4	-75.4 to -78.4	-87.4 to -89.4	-96.4 to -100.4	-106.4 to -110.4	-116.4 to -120.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		45200	54300	70400	92000	> 99.00	64100
Dissolved oxygen (DO), field	µg/L		1540	2150	1490	1820	1000	-
Oxidation reduction potential (ORP), field	millivolts		-540	-622	-664	-422	-486	-477
pH, field	s.u.	7-8.5	11.16	11.32	12.04	11.96	11.58	11.49
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		21	22.5	22	21.40	23.50	21.10
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		-	-	-	960	600	214

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>	<i>SP-3</i>		
<i>Sample ID:</i>		<i>GW-092706-JC-SP3-015</i>	<i>GW-092706-JC-SP3-016</i>	<i>GW-092806-JC-SP3-017</i>	<i>GW-092806-ILM-SP3-018</i>	<i>GW-092906-ILM-SP3-019</i>	<i>GW-093006-ILM-SP3-020</i>		
<i>Sample Date:</i>		<i>9/27/2006</i>	<i>9/27/2006</i>	<i>9/28/2006</i>	<i>9/28/2006</i>	<i>9/29/2006</i>	<i>9/30/2006</i>		
<i>Sample Depth:</i>		<i>138 to 142 ft bgs</i>	<i>148 to 152 ft bgs</i>	<i>158 to 162 ft bgs</i>	<i>168 to 172 ft bgs</i>	<i>178 to 182 ft bgs</i>	<i>188 to 192 ft bgs</i>		
<i>elev_MLLW</i>		<i>-120.08 to -124.08</i>	<i>-130.08 to -134.08</i>	<i>-140.08 to -144.08</i>	<i>-150.08 to -154.08</i>	<i>-160.08 to -164.08</i>	<i>-170.08 to -174.08</i>		
<i>elev_NGVD</i>		<i>-126.4 to -130.4</i>	<i>-136.4 to -140.4</i>	<i>-146.4 to -150.4</i>	<i>-156.4 to -160.4</i>	<i>-166.4 to -170.4</i>	<i>-176.4 to -180.4</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>						
<i>Fparam</i>									
Conductivity, field	umhos/cm			11300	13900	14300	11200	13300	18200
Dissolved oxygen (DO), field	µg/L			5190	8590	2010	2910	2810	2750
Oxidation reduction potential (ORP), field	millivolts			-184	-268	22	-63	-196	-167
pH, field	s.u.	7-8.5		8.87	10.81	8.97	8.73	8	7.63
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			21.20	-	19.00	20.40	17.91	18.31
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			705	-	90.4	353	43	62.2

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		SP-3	SP-4	SP-4	SP-4	SP-4	SP-4	
<i>Sample ID:</i>		GW-100206-ILM-SP3-021	GW-062006-DR-SP4-001	GW-062006-DR-SP4-002	GW-062006-DR-SP4-003	GW-062006-DR-SP4-004	GW-062006-DR-SP4-005	
<i>Sample Date:</i>		10/2/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006	
<i>Sample Depth:</i>		198 to 202 ft bgs	9 to 12 ft bgs	18 to 21 ft bgs	18 to 21 ft bgs	23 to 26 ft bgs	33 to 36 ft bgs	
<i>elev_MLLW</i>		-180.08 to -184.08	8.92 to 5.92	-0.08 to -3.08	-0.08 to -3.08	-5.08 to -8.08	-15.08 to -18.08	
<i>elev_NGVD</i>		-186.4 to -190.4	2.6 to -0.4	-6.4 to -9.4	-6.4 to -9.4	-11.4 to -14.4	-21.4 to -24.4	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm	3270	8660	26100	26100	21000	19400	
Dissolved oxygen (DO), field	µg/L	10290	1290	670	670	1800	1870	
Oxidation reduction potential (ORP), field	millivolts	50	-203	-305	-305	-327	-351	
pH, field	s.u.	7-8.5	8.58	7.81	8.54	8.54	11.16	8.88
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	16.86	15.8	16.9	16.9	19.2	20.3	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	912	-	-	-	478	-	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			SP-4	SP-4	SP-4	SP-4	SP-4	SP-4
<i>Sample ID:</i>			GW-062106-DR-SP4-006	GW-062106-DR-SP4-007	GW-062106-DR-SP4-008	GW-062106-DR-SP4-009	GW-062206-DR-SP4-010	GW-062206-DR-SP4-011
<i>Sample Date:</i>			6/21/2006	6/21/2006	6/21/2006	6/21/2006	6/22/2006	6/22/2006
<i>Sample Depth:</i>			43 to 46 ft bgs	48 to 51 ft bgs	58 to 61 ft bgs	68 to 71 ft bgs	78 to 81 ft bgs	88 to 91 ft bgs
<i>elev_MLLW</i>			-25.08 to -28.08	-30.08 to -33.08	-40.08 to -43.08	-50.08 to -53.08	-60.08 to -63.08	-70.08 to -73.08
<i>elev_NGVD</i>			-31.4 to -34.4	-36.4 to -39.4	-46.4 to -49.4	-56.4 to -59.4	-66.4 to -69.4	-76.4 to -79.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		38400	32000	40900	43900	70900	56800
Dissolved oxygen (DO), field	µg/L		1210	1200	1770	1980	1270	2380
Oxidation reduction potential (ORP), field	millivolts		-379	-418	-298	-381	-390	-623
pH, field	s.u.	7-8.5	9.54	9.71	7.72	8.97	11.12	12.91
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		17.6	19.6	20.5	22.3	18.2	21
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		-	0.0	-	-	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-4	SP-4	SP-4	SP-4	SP-4	SP-4			
Sample ID:	GW-092006-JL-SP4-012	GW-092106-JL-SP4-013	GW-092106-JL-SP4-015	GW-092106-JL-SP4-016	GW-092206-LH-SP4-017	GW-092206-JC-SP4-018			
Sample Date:	9/20/2006	9/21/2006	9/21/2006	9/21/2006	9/22/2006	9/22/2006			
Sample Depth:	108 to 112 ft bgs	118 to 122 ft bgs	138 to 142 ft bgs	148 to 152 ft bgs	158 to 162 ft bgs	168 to 172 ft bgs			
elev_MLLW	-90.08 to -94.08	-100.08 to -104.08	-120.08 to -124.08	-130.08 to -134.08	-140.08 to -144.08	-150.08 to -154.08			
elev_NGVD	-96.4 to -100.4	-106.4 to -110.4	-126.4 to -130.4	-136.4 to -140.4	-146.4 to -150.4	-156.4 to -160.4			
Parameters	Units	CSI	WG						
<i>Fparam</i>									
Conductivity, field	umhos/cm			5360	24500	6440	68	10000	230000
Dissolved oxygen (DO), field	µg/L			0	0	3190	8180	4440	9450
Oxidation reduction potential (ORP), field	millivolts			-184	-217	-219	167	-208	46
pH, field	s.u.	7-8.5		10.85	8.36	8.79	9.34	7.44	8.08
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			19.35	15.25	18.94	19.44	15.5	18.9
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			-	-	857	350	> 999	890

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>SP-4</i>	<i>SP-5</i>	<i>SP-5</i>	<i>SP-5</i>	<i>SP-5</i>	<i>SP-5</i>
<i>Sample ID:</i>			<i>GW-092506-JC-SP4-019</i>	<i>GW-060206-DR-SP5-001</i>	<i>GW-060206-DR-SP5-002</i>	<i>GW-060206-DR-SP5-003</i>	<i>GW-060506-LH-SP5-004</i>	<i>GW-060906-LH-SP5-005</i>
<i>Sample Date:</i>			<i>9/25/2006</i>	<i>6/2/2006</i>	<i>6/2/2006</i>	<i>6/2/2006</i>	<i>6/5/2006</i>	<i>6/9/2006</i>
<i>Sample Depth:</i>			<i>178 to 182 ft bgs</i>	<i>9 to 12 ft bgs</i>	<i>18 to 21 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>33 to 36 ft bgs</i>	<i>43 to 46 ft bgs</i>
<i>elev_MLLW</i>			<i>-160.08 to -164.08</i>	<i>8.92 to 5.92</i>	<i>-0.08 to -3.08</i>	<i>-5.08 to -8.08</i>	<i>-15.08 to -18.08</i>	<i>-25.08 to -28.08</i>
<i>elev_NGVD</i>			<i>-166.4 to -170.4</i>	<i>2.6 to -0.4</i>	<i>-6.4 to -9.4</i>	<i>-11.4 to -14.4</i>	<i>-21.4 to -24.4</i>	<i>-31.4 to -34.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		1700	30700	51900	66700	81300	30800
Dissolved oxygen (DO), field	µg/L		4210	1550	1180	880	1050	1580
Oxidation reduction potential (ORP), field	millivolts		-84	-211	-291	-303	-322	-374
pH, field	s.u.	7-8.5	7.12	8.09	10.01	11.11	10.42	8.81
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		20.6	16.51	17.8	17.25	18.69	17.5
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		> 999	-	-	-	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		SP-5	SP-5	SP-5	SP-5	SP-5	SP-5	
Sample ID:		GW-061206-LH-SP5-006	GW-061206-LH-SP5-007	GW-061206-LH-SP5-008	GW-061206-LH-SP5-009	GW-061306-LH-SP5-010	GW-061306-LH-SP5-011	
Sample Date:		6/12/2006	6/12/2006	6/12/2006	6/12/2006	6/13/2006	6/13/2006	
Sample Depth:		48 to 51 ft bgs	58 to 61 ft bgs	68 to 71 ft bgs	78 to 81 ft bgs	88 to 91 ft bgs	98 to 101 ft bgs	
elev_MLLW		-30.08 to -33.08	-40.08 to -43.08	-50.08 to -53.08	-60.08 to -63.08	-70.08 to -73.08	-80.08 to -83.08	
elev_NGVD		-36.4 to -39.4	-46.4 to -49.4	-56.4 to -59.4	-66.4 to -69.4	-76.4 to -79.4	-86.4 to -89.4	
Parameters	Units	CSI		WG				
Fparam								
Conductivity, field	umhos/cm	38300	50600	30500	32100	72200	61200	
Dissolved oxygen (DO), field	µg/L	1540	1780	1940	1220	1390	380	
Oxidation reduction potential (ORP), field	millivolts	-353	-409	-443	-383	-530	-541	
pH, field	s.u.	7-8.5	8.51	11.27	9.07	8.27	11.13	11.69
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	17.9	19.1	22.6	19.7	19.9	22.1	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	-	-	-	-	-	-	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		SP-5	SP-5	SP-5	SP-5	SP-6	SP-6
<i>Sample ID:</i>		GW-073106-DR-SP5-012	GW-080106-DR-SP5-013	GW-080106-DR-SP5-014	GW-080106-DR-SP5-015	GW-060506-DR-SP6-001	GW-060506-DR-SP6-002
<i>Sample Date:</i>		7/31/2006	8/1/2006	8/1/2006	8/1/2006	6/5/2006	6/5/2006
<i>Sample Depth:</i>		108 to 112 ft bgs	118 to 122 ft bgs	128 to 132 ft bgs	138 to 142 ft bgs	7 to 10 ft bgs	18 to 21 ft bgs
<i>elev_MLLW</i>		-90.08 to -94.08	-100.08 to -104.08	-110.08 to -114.08	-120.08 to -124.08	10.92 to 7.92	-0.08 to -3.08
<i>elev_NGVD</i>		-96.4 to -100.4	-106.4 to -110.4	-116.4 to -120.4	-126.4 to -130.4	4.6 to 1.6	-6.4 to -9.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	-	-	16500	14700	40000	> 99.9
Dissolved oxygen (DO), field	µg/L	900	1100	6590	3030	1930	1240
Oxidation reduction potential (ORP), field	millivolts	-452	-480	24	21	-86	-274
pH, field	s.u.	7-8.5	12.06	11.82	8.42	7.86	8.08
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	24.97	18.84	21.55	23.92	17	17.8
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	884.0	69.9	116.0	8.3	233	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-6	SP-6	SP-6	SP-6	SP-6	SP-6		
Sample ID:	GW-060606-LH-SP6-003	GW-060606-LH-SP6-004	GW-060606-DR-SP6-005	GW-060606-DR-SP6-006	GW-060606-DR-SP6-007	GW-060706-DR-SP6-008		
Sample Date:	6/6/2006	6/6/2006	6/6/2006	6/6/2006	6/6/2006	6/7/2006		
Sample Depth:	23 to 26 ft bgs	33 to 36 ft bgs	43 to 46 ft bgs	48 to 51 ft bgs	48 to 51 ft bgs	58 to 61 ft bgs		
elev_MLLW	-5.08 to -8.08	-15.08 to -18.08	-25.08 to -28.08	-30.08 to -33.08	-30.08 to -33.08	-40.08 to -43.08		
elev_NGVD	-11.4 to -14.4	-21.4 to -24.4	-31.4 to -34.4	-36.4 to -39.4	-36.4 to -39.4 (Duplicate)	-46.4 to -49.4		
Parameters	Units	CSI	WG					
<i>Fparam</i>								
Conductivity, field	umhos/cm	> 99.9	84000	97900	> 99.9	> 99.9	90900	
Dissolved oxygen (DO), field	µg/L	100	1310	1470	980	980	840	
Oxidation reduction potential (ORP), field	millivolts	-337	-455	-294	-407	-407	-497	
pH, field	s.u.	7-8.5	8.58	9.64	7.45	9.63	9.63	11.59
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	18.85	21.68	21.99	21.29	21.29	19.86	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	-	-	-	-	-	-	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-6	SP-6	SP-6	SP-6	SP-6	SP-6			
Sample ID:	GW-060706-DR-SP6-009	GW-060706-LH-SP6-010	GW-060706-LH-SP6-011	GW-060806-LH-SP6-012	GW-082306-BG-SP6-013	GW-082406-JC-SP6-015			
Sample Date:	6/7/2006	6/7/2006	6/7/2006	6/8/2006	8/23/2006	8/24/2006			
Sample Depth:	68 to 71 ft bgs	78 to 81 ft bgs	88 to 91 ft bgs	98 to 101 ft bgs	117 to 121 ft bgs	137 to 141 ft bgs			
elev_MLLW	-50.08 to -53.08	-60.08 to -63.08	-70.08 to -73.08	-80.08 to -83.08	-99.08 to -103.08	-119.08 to -123.08			
elev_NGVD	-56.4 to -59.4	-66.4 to -69.4	-76.4 to -79.4	-86.4 to -89.4	-105.4 to -109.4	-125.4 to -129.4			
Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			82100	67900	80500	38500	9000	1100
Dissolved oxygen (DO), field	µg/L			830	650	920	1620	1470	4380
Oxidation reduction potential (ORP), field	millivolts			-539	-557	-581	-542	-467	-186
pH, field	s.u.	7-8.5		11.67	11.18	11.7	11.36	11.66	7.94
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			20.77	21.26	22.19	22.8	21.2	21.0
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			-	-	-	-	400	34

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	SP-6	SP-6	SP-6	SP-7	SP-7	SP-7			
Sample ID:	GW-082806-JW-SP6-016	GW-082806-JW-SP6-017	GW-082906-JW-SP6-018	GW-062806-LH-SP7-001	GW-062806-LH-SP7-002	GW-062806-LH-SP7-003			
Sample Date:	8/28/2006	8/28/2006	8/29/2006	6/28/2006	6/28/2006	6/28/2006			
Sample Depth:	157 to 161 ft bgs	167 to 171 ft bgs	177 to 181 ft bgs	8 to 11 ft bgs	18 to 21 ft bgs	23 to 26 ft bgs			
elev_MLLW	-139.08 to -143.08	-149.08 to -153.08	-159.08 to -163.08	9.92 to 6.92	-0.08 to -3.08	-5.08 to -8.08			
elev_NGVD	-145.4 to -149.4	-155.4 to -159.4	-165.4 to -169.4	3.6 to 0.6	-6.4 to -9.4	-11.4 to -14.4			
Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			1200	25000	1300	317	> 99.9	> 99.9
Dissolved oxygen (DO), field	µg/L			4930	7020	6510	8230	540	540
Oxidation reduction potential (ORP), field	millivolts			28	84	-78	2	-297	-441
pH, field	s.u.	7-8.5		8.23	8.55	7.49	9.57	8.02	11.49
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-	-
Temperature, field	deg c			21.5	25.3	20.5	17.58	17.76	19.29
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			110	46	990.0	-	131	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>	<i>SP-7</i>
<i>Sample ID:</i>		<i>GW-062906-LH-SP7-004</i>	<i>GW-062906-LH-SP7-005</i>	<i>GW-063006-LH-SP7-006</i>	<i>GW-070506-DR-SP7-007</i>	<i>GW-070506-DR-SP7-008</i>	<i>GW-070506-DR-SP7-009</i>
<i>Sample Date:</i>		<i>6/29/2006</i>	<i>6/29/2006</i>	<i>6/30/2006</i>	<i>7/5/2006</i>	<i>7/5/2006</i>	<i>7/5/2006</i>
<i>Sample Depth:</i>		<i>33 to 36 ft bgs</i>	<i>43 to 46 ft bgs</i>	<i>48 to 51 ft bgs</i>	<i>58 to 61 ft bgs</i>	<i>68 to 71 ft bgs</i>	<i>78 to 81 ft bgs</i>
<i>elev_MLLW</i>		<i>-15.08 to -18.08</i>	<i>-25.08 to -28.08</i>	<i>-30.08 to -33.08</i>	<i>-40.08 to -43.08</i>	<i>-50.08 to -53.08</i>	<i>-60.08 to -63.08</i>
<i>elev_NGVD</i>		<i>-21.4 to -24.4</i>	<i>-31.4 to -34.4</i>	<i>-36.4 to -39.4</i>	<i>-46.4 to -49.4</i>	<i>-56.4 to -59.4</i>	<i>-66.4 to -69.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	72300	75000	78700	57000	78800	67100
Dissolved oxygen (DO), field	µg/L	2210	2000	2810	1070	930	970
Oxidation reduction potential (ORP), field	millivolts	-529	-567	-476	-615	-536	-635
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	20.73	22.11	21.24	22.2	22.1	22.02
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	-	-	0.0	-	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		SP-7	SP-7	SP-7	SP-7	SP-7	SP-7
<i>Sample ID:</i>		GW-070606-DR-SP7-010	GW-083006-JW-SP7-012	GW-083006-JW-SP7-013	GW-083006-JW-SP7-014	GW-083106-JW-SP7-015	GW-083106-JW-SP7-016
<i>Sample Date:</i>		7/6/2006	8/30/2006	8/30/2006	8/30/2006	8/31/2006	8/31/2006
<i>Sample Depth:</i>		88 to 91 ft bgs	107 to 111 ft bgs	117 to 121 ft bgs	127 to 131 ft bgs	137 to 141 ft bgs	147 to 151 ft bgs
<i>elev_MLLW</i>		-70.08 to -73.08	-89.08 to -93.08	-99.08 to -103.08	-109.08 to -113.08	-119.08 to -123.08	-129.08 to -133.08
<i>elev_NGVD</i>		-76.4 to -79.4	-95.4 to -99.4	-105.4 to -109.4	-115.4 to -119.4	-125.4 to -129.4	-135.4 to -139.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm	83700	9900	9900	2400	1100	1300
Dissolved oxygen (DO), field	µg/L	890	40	1260	2510	2970	5670
Oxidation reduction potential (ORP), field	millivolts	-688	-514	-488	-352	-312	-151
pH, field	s.u.	7-8.5	11.5	12.05	11.77	10.3	8.19
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	21.47	19	19.1	21.7	19.6	21.7
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	-	990	23	990	290	41

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>SP-7</i>	<i>SP-7</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>
<i>Sample ID:</i>			<i>GW-083106-JW-SP7-017</i>	<i>GW-083106-JW-SP7-018</i>	<i>GW-071306-LH-SP8-001</i>	<i>GW-071306-LH-SP8-002</i>	<i>GW-071306-LH-SP8-003</i>	<i>GW-071406-LH-SP8-004</i>
<i>Sample Date:</i>			<i>8/31/2006</i>	<i>8/31/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/13/2006</i>	<i>7/14/2006</i>
<i>Sample Depth:</i>			<i>157 to 161 ft bgs</i>	<i>167 to 171 ft bgs</i>	<i>10 to 13 ft bgs</i>	<i>18 to 21 ft bgs</i>	<i>23 to 26 ft bgs</i>	<i>33 to 36 ft bgs</i>
<i>elev_MLLW</i>			<i>-139.08 to -143.08</i>	<i>-149.08 to -153.08</i>	<i>7.92 to 4.92</i>	<i>-0.08 to -3.08</i>	<i>-5.08 to -8.08</i>	<i>-15.08 to -18.08</i>
<i>elev_NGVD</i>			<i>-145.4 to -149.4</i>	<i>-155.4 to -159.4</i>	<i>1.6 to -1.4</i>	<i>-6.4 to -9.4</i>	<i>-11.4 to -14.4</i>	<i>-21.4 to -24.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		1400	1500	17200	72000	> 99.9	69900
Dissolved oxygen (DO), field	µg/L		4620	6530	1980	1500	690	0
Oxidation reduction potential (ORP), field	millivolts		-93	-45	-252	-274	-295	-306
pH, field	s.u.	7-8.5	7.94	7.46	7.83	7.81	7.99	8.23
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		23	23.3	16.05	16.85	17.14	16.8
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		-10	630	846	-	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			SP-8	SP-8	SP-8	SP-8	SP-8	SP-8
<i>Sample ID:</i>			GW-071406-LH-SP8-005	GW-071406-LH-SP8-006	GW-071706-TR-SP8-007	GW-071706-TR-SP8-008	GW-071706-TR-SP8-009	GW-071806-TR-SP8-010
<i>Sample Date:</i>			7/14/2006	7/14/2006	7/17/2006	7/17/2006	7/17/2006	7/18/2006
<i>Sample Depth:</i>			43 to 46 ft bgs	48 to 51 ft bgs	58 to 61 ft bgs	68 to 71 ft bgs	78 to 81 ft bgs	88 to 91 ft bgs
<i>elev_MLLW</i>			-25.08 to -28.08	-30.08 to -33.08	-40.08 to -43.08	-50.08 to -53.08	-60.08 to -63.08	-70.08 to -73.08
<i>elev_NGVD</i>			-31.4 to -34.4	-36.4 to -39.4	-46.4 to -49.4	-56.4 to -59.4	-66.4 to -69.4	-76.4 to -79.4
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm		87900	83100	> 99.9	> 99.9	> 99.9	> 99.9
Dissolved oxygen (DO), field	µg/L		0	0	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts		-295	-307	-268	-210	-233	-302
pH, field	s.u.	7-8.5	8.44	8.93	8.65	7.55	7.8	8.31
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		18.1	18.6	16.8	18	18.7	17.8
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		-	-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		SP-8	SP-8	SP-8	SP-8	SP-8	SP-8	
<i>Sample ID:</i>		GW-071806-TR-SP8-011	GW-100306-ILM-SP8-012	GW-071906-LH-SP8-012	GW-072006-LH-SP8-013	GW-100306-ILM-SP8-013	GW-100406-ILM-SP8-014	
<i>Sample Date:</i>		7/18/2006	10/3/2006	7/19/2006	7/20/2006	10/3/2006	10/4/2006	
<i>Sample Depth:</i>		98 to 101 ft bgs	104 to 108 ft bgs	108 to 111 ft bgs	112 to 115 ft bgs	114 to 118 ft bgs	124 to 128 ft bgs	
<i>elev_MLLW</i>		-80.08 to -83.08	-86.08 to -90.08	-90.08 to -93.08	-94.08 to -97.08	-96.08 to -100.08	-106.08 to -110.08	
<i>elev_NGVD</i>		-86.4 to -89.4	-92.4 to -96.4	-96.4 to -99.4	-100.4 to -103.4	-102.4 to -106.4	-112.4 to -116.4	
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>						
<i>Fparam</i>								
Conductivity, field	umhos/cm	69800	> 99.9	57000	96800	4730	99900	
Dissolved oxygen (DO), field	µg/L	0	750	0	0	5410	140	
Oxidation reduction potential (ORP), field	millivolts	-513	-505	-580	-597	-122	-438	
pH, field	s.u.	7-8.5	12.08	13.8	13.2	12.44	11.99	11.42
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-	
Temperature, field	deg c	19.3	17.75	19.5	20.1	18.01	17.22	
Temperature, field	deg f	-	-	-	-	-	-	
Turbidity, field	ntu	-	854	-	-	-	133	

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>SP-8</i>	<i>T1-25</i>
<i>Sample ID:</i>		<i>GW-100406-ILM-SP8-015</i>	<i>GW-100406-ILM-SP8-016</i>	<i>GW-100506-ILM-SP8-017</i>	<i>GW-100506-ILM-SP8-018</i>	<i>GW-100506-ILM-SP8-019</i>	<i>GW-021208-TG-T1-25</i>
<i>Sample Date:</i>		<i>10/4/2006</i>	<i>10/4/2006</i>	<i>10/5/2006</i>	<i>10/5/2006</i>	<i>10/5/2006</i>	<i>12/2/2008</i>
<i>Sample Depth:</i>		<i>134 to 138 ft bgs</i>	<i>144 to 148 ft bgs</i>	<i>154 to 158 ft bgs</i>	<i>164 to 168 ft bgs</i>	<i>164 to 168 ft bgs</i>	<i>25 ft bgs</i>
<i>elev_MLLW</i>		<i>-116.08 to -120.08</i>	<i>-126.08 to -130.08</i>	<i>-136.08 to -140.08</i>	<i>-146.08 to -150.08</i>	<i>-146.08 to -150.08</i>	<i>-7.96</i>
<i>elev_NGVD</i>		<i>-122.4 to -126.4</i>	<i>-132.4 to -136.4</i>	<i>-142.4 to -146.4</i>	<i>-152.4 to -156.4</i>	<i>-152.4 to -156.4</i>	<i>-14.3</i>
<i>Parameters</i>	<i>Units</i>	<i>(Duplicate)</i>					
<i>CSI WG</i>							
<i>Fparam</i>							
Conductivity, field	umhos/cm	5670	1060	12200	16500	16500	13800
Dissolved oxygen (DO), field	µg/L	5380	8880	1550	1620	1620	0
Oxidation reduction potential (ORP), field	millivolts	-192	-28	-125	-157	-157	-163
pH, field	s.u.	7-8.5	10.75	10.08	7.8	7.87	7.87
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	-
Temperature, field	deg c	17.36	22.01	14.85	21.75	21.75	15.90
Temperature, field	deg f	-	-	-	-	-	-
Turbidity, field	ntu	826	392	458	395.0	395.0	0.6

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	T1-50	T1-100	T1-100	T3-50	T5-25	T5-60		
Sample ID:	GW-021208-TG-T1-50	GW-072710-CM-T1-100	GW-072710-CM-FD-013	WG-072912-PR-T3-50-294	GW-042706-TV-T5-25	GW-041106-TR-T5-60		
Sample Date:	12/2/2008	7/27/2010	7/27/2010	7/29/2012	4/27/2006	4/11/2006		
Sample Depth:	50 ft bgs	100 ft BGS	100 ft BGS	50 ft BGS	25 ft bgs	60 ft bgs		
elev_MLLW	-33.03	-83.11	-83.11	-33.01	-6.98	-42.04		
elev_NGVD	-39.4	-89.4	-89.4	-39.3	-13.3	-48.4		
			(Duplicate)					
Parameters	Units	CSI	WG					
Fparam								
Conductivity, field	umhos/cm		81300	98400	98400	77700	61600	57300
Dissolved oxygen (DO), field	µg/L		310	0	0	400	1060	280
Oxidation reduction potential (ORP), field	millivolts		-137	-179	-179	-221	-361	-352
pH, field	s.u.	7-8.5	7.91	7.20	7.20	7.82	8.99	8.87
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-	-
Temperature, field	deg c		15.90	19.94	19.94	17.27	16.21	17.70
Temperature, field	deg f		-	-	-	-	-	-
Turbidity, field	ntu		207.0	25.3	25.3	0	4.90	515.00

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	T5-120	T5-120	T6-25	T6-60	T6-120	WMUA-11			
Sample ID:	GW-062613-LP-T5-120-10	GW-062613-LP-T5-120-11	GW-041206-TS-T6-25	WG-082412-LP-T6-60-296	GW-081006-ILM-T6-120	GW-080206-LH-WMUA11-001			
Sample Date:	6/26/2013	6/26/2013	4/12/2006	8/24/2012	8/10/2006	8/2/2006			
Sample Depth:	120 ft BGS	120 ft BGS	25 ft bgs	60 ft BGS	120 ft bgs	17.5 to 18.5 ft bgs			
elev_MLLW	-102.09	-102.09	-7.83	-42.91	-102.93	0.42 to -0.58			
elev_NGVD	-108.4	-108.4	-14.2	-49.2	-109.2	-5.9 to -6.9			
		(Duplicate)							
Parameters	Units	CSI	WG						
Fparam									
Conductivity, field	umhos/cm			78700	78700	22700	54200	90100	1300
Dissolved oxygen (DO), field	µg/L			1900	1900	0	0	2410	0
Oxidation reduction potential (ORP), field	millivolts			-586	-586	-250	-325	-142	-209
pH, field	s.u.	7-8.5		11.74	11.74	9.59	9.61	6.99	9.04
Specific Gravity~FIELDPARAM	sg			1.112	1.112	-	-	-	-
Temperature, field	deg c			21.69	21.69	14.70	20.83	19.6	16.5
Temperature, field	deg f			-	-	-	-	-	-
Turbidity, field	ntu			0	0	48.30	0.8	0.00	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUA-12	WMUA-12	WMUA-13	WMUA-14	WMUA-15
Sample ID:	GW-080206-LH-WMUA12-001	GW-080306-LH-WMUA12-002	GW-080306-LH-WMUA13-001	GW-080806-LH-WMUA14-002	GW-080706-LH-WMUA15-001
Sample Date:	8/2/2006	8/3/2006	8/3/2006	8/8/2006	8/7/2006
Sample Depth:	17.5 to 19.5 ft bgs	21.5 to 22.5 ft bgs	15 to 16 ft bgs	21.5 to 22.5 ft bgs	14.5 to 15.5 ft bgs
elev_MLLW	0.42 to -1.58	-3.58 to -4.58	2.92 to 1.92	-3.58 to -4.58	3.42 to 2.42
elev_NGVD	-5.9 to -7.9	-9.9 to -10.9	-3.4 to -4.4	-9.9 to -10.9	-2.9 to -3.9

Parameters	Units	CSI	WG			
Fparam						
Conductivity, field	umhos/cm			17700	4720	2900
Dissolved oxygen (DO), field	µg/L			120	0	0
Oxidation reduction potential (ORP), field	millivolts			-197	-202	-217
pH, field	s.u.	7-8.5		8.67	8.32	8.82
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			18.2	16.4	16.70
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			656	-	-
						441.00

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WMUA-15	WMUA-18	WMUA-18	WMUA-18	WMUA-18			
Sample ID:	GW-080706-LH-WMUA15-002	GW-080406-LH-WMUA18-001	GW-080706-LH-WMUA18-004	GW-080706-LH-WMUA18-005	GW-080406-LH-WMUA18-002			
Sample Date:	8/7/2006	8/4/2006	8/7/2006	8/7/2006	8/4/2006			
Sample Depth:	23.5 to 24.5 ft bgs	13.5 to 14.5 ft bgs	26.5 to 27.5 ft bgs	26.5 to 27.5 ft bgs	38.5 to 39.5 ft bgs			
elev_MLLW	-5.58 to -6.58	4.42 to 3.42	-8.58 to -9.58	-8.58 to -9.58	-20.58 to -21.58			
elev_NGVD	-11.9 to -12.9	-1.9 to -2.9	-14.9 to -15.9	-14.9 to -15.9 (Duplicate)	-26.9 to -27.9			
Parameters	Units	CSI	WG					
Fparam								
Conductivity, field	umhos/cm			4930	61800	40100	40100	> 99.9
Dissolved oxygen (DO), field	µg/L			0	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts			-168	-170	-184	-184	-194
pH, field	s.u.	7-8.5		7.6	7.21	7.48	7.48	7.59
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			17.7	14.9	15.7	15.7	16.9
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			932.00	-	-	-	917.00

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	WMUA-18	WMUA-19	WMUL-01	WMUL-02	WMUM-01
<i>Sample ID:</i>	GW-080406-LH-WMUA18-003	GW-080306-LH-WMUA19-001	GW-060712-NE-WMUL01-001	GW-061212-MD-WMUL02-001	GW-061312-SP-WMUM01-001
<i>Sample Date:</i>	8/4/2006	8/3/2006	6/7/2012	6/12/2012	6/13/2012
<i>Sample Depth:</i>	72.5 to 73.5 ft bgs	18.5 to 19.5 ft bgs	15 to 15 ft BGS	15 to 15 ft BGS	15 to 15 ft BGS
<i>elev_MLLW</i>	-54.58 to -55.58	-0.58 to -1.58	3.18 to 3.18	3.21 to 3.21	3.06 to 3.06
<i>elev_NGVD</i>	-60.9 to -61.9	-6.9 to -7.9	-3.1 to -3.1	-3.1 to -3.1	-3.3 to -3.3
Parameters	Units	CSI	WG		
Fparam					
Conductivity, field	umhos/cm	> 99.9	2140	-	-
Dissolved oxygen (DO), field	µg/L	0	0	-	-
Oxidation reduction potential (ORP), field	millivolts	-157	-297	-	-
pH, field	s.u.	7-8.5	6.77	9.08	9.2
Specific Gravity~FIELDPARAM	sg	-	-	-	-
Temperature, field	deg c	19.7	21.1	-	-
Temperature, field	deg f	-	-	-	-
Turbidity, field	ntu	85.1	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			WMUM-02	WW-A1	WW-A1	WW-A1	WW-A1
<i>Sample ID:</i>			GW-061412-SP-WMUM02-001	GW-031606-WW-A1-MM-001	GW-031606-WW-A1-DR-002	GW-031606-WW-A1-DR-003	GW-031606-WW-A1-DR-004
<i>Sample Date:</i>			6/14/2012	3/16/2006	3/16/2006	3/16/2006	3/16/2006
<i>Sample Depth:</i>			15 to 15 ft BGS	2 to 5 ft bml	6 to 8 ft bml	11 to 14 ft bml	20.2 to 22.2 ft bml
<i>elev_MLLW</i>			3.18 to 3.18	-37.8 to -40.8	-41.8 to -43.8	-46.8 to -49.8	-56 to -58
<i>elev_NGVD</i>			-3.1 to -3.1	-44.1 to -47.1	-48.1 to -50.1	-53.1 to -56.1	-62.3 to -64.3
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		-	46400	48400	45000	47100
Dissolved oxygen (DO), field	µg/L		-	4340	4310	4660	4030
Oxidation reduction potential (ORP), field	millivolts		-	-191	-182	-166	-188
pH, field	s.u.	7-8.5	7.36	8.08	8.09	8.08	8.02
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		-	8.8	8.9	8.7	8.6
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		-	-	-	-	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WW-A1	WW-A1	WW-A1	WW-A1	WW-A1D	
Sample ID:	GW-031706-WW-A1-BS-005	GW-031706-WW-A1-BS-006	GW-031706-WW-A1-MM-007	GW-032006-WW-A1-MM-008	GW-082612-KB-WWA1D-001	
Sample Date:	3/17/2006	3/17/2006	3/17/2006	3/20/2006	8/26/2012	
Sample Depth:	45.2 to 48.2 ft bml	45.2 to 48.2 ft bml	75.2 to 77.2 ft bml	105.2 to 108.2 ft bml	2 to 2 ft BML	
elev_MLLW	-81 to -84	-81 to -84	-111 to -113	-141 to -144	-38.08 to -38.08	
elev_NGVD	-87.3 to -90.3	-87.3 to -90.3	-117.3 to -119.3	-147.3 to -150.3	-44.4 to -44.4	
		(Duplicate)				
Parameters	Units	CSI	WG			
Fparam						
Conductivity, field	umhos/cm	> 99.9	> 99.9	65500	11600	54100
Dissolved oxygen (DO), field	µg/L	4450	4450	4400	5190	0
Oxidation reduction potential (ORP), field	millivolts	-141	-141	-194	-103	-200
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7.64	8.07
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	8.6	8.6	9.6	9.1	14.41
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	319	319	-	-	> 1000

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>WW-A1D</i>	<i>WW-A1D</i>	<i>WW-A1D</i>	<i>WW-A1D</i>	<i>WW-A1D</i>	
<i>Sample ID:</i>		<i>GW-082612-KB-WWA1D-002</i>	<i>GW-082612-KB-WWA1D-003</i>	<i>GW-082712-KB-WWA1D-004</i>	<i>GW-082812-KB-WWA1D-005</i>	<i>GW-082912-KB-WWA1D-006</i>	
<i>Sample Date:</i>		<i>8/26/2012</i>	<i>8/26/2012</i>	<i>8/27/2012</i>	<i>8/28/2012</i>	<i>8/29/2012</i>	
<i>Sample Depth:</i>		<i>6 to 6 ft BML</i>	<i>11 to 11 ft BML</i>	<i>22 to 22 ft BML</i>	<i>47 to 47 ft BML</i>	<i>67 to 67 ft BML</i>	
<i>elev_MLLW</i>		<i>-42.08 to -42.08</i>	<i>-47.08 to -47.08</i>	<i>-58.08 to -58.08</i>	<i>-83.08 to -83.08</i>	<i>-103.08 to -103.08</i>	
<i>elev_NGVD</i>		<i>-48.4 to -48.4</i>	<i>-53.4 to -53.4</i>	<i>-64.4 to -64.4</i>	<i>-89.4 to -89.4</i>	<i>-109.4 to -109.4</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		3500	43300	4810	2260	1470
Dissolved oxygen (DO), field	µg/L		11420	0	0	0	0
Oxidation reduction potential (ORP), field	millivolts		-35	-161	-190	-133	-119
pH, field	s.u.	7-8.5	7.69	7.75	7.94	7.77	8.32
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		15.82	13.23	17.26	13.80	13.50
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		164.0	142	> 1000	77.7	220

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WW-A1D	WW-A1D	WW-A1D	WW-A1D	WW-A1R			
Sample ID:	GW-082912-KB-WWA1D-007	GW-082912-KB-WWA1D-008	GW-083012-KB-WWA1D-009	GW-083112-KB-WWA1D-010	GW-082112-MD-WWA1R-001			
Sample Date:	8/29/2012	8/29/2012	8/30/2012	8/31/2012	8/21/2012			
Sample Depth:	77 to 77 ft BML	87 to 87 ft BML	97 to 97 ft BML	110 to 110 ft BML	2 to 2 ft BML			
elev_MLLW	-113.08 to -113.08	-123.08 to -123.08	-133.08 to -133.08	-146.08 to -146.08	-36.18 to -36.18			
elev_NGVD	-119.4 to -119.4	-129.4 to -129.4	-139.4 to -139.4	-152.4 to -152.4	-42.5 to -42.5			
Parameters	Units	CSI	WG					
Fparam								
Conductivity, field	umhos/cm			7820	3970	51100	58800	46900
Dissolved oxygen (DO), field	µg/L			0	0	5280	4580	5090
Oxidation reduction potential (ORP), field	millivolts			7	-88	-37	97	-10
pH, field	s.u.	7-8.5		7.54	8.63	7.81	6.82	8.14
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			16.70	16.25	14.01	17.78	14.0
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			> 1000	-5.0	159	471	-5.0

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WW-A1R	WW-A1R	WW-A1R	WW-A1R	WW-A1R
Sample ID:	GW-082112-MD-WWA1R-002	GW-082112-MD-WWA1R-003	GW-082212-MD-WW-A1R-004	GW-082212-MD-WW-A1R-005	GW-082212-MD-WW-A1R-006
Sample Date:	8/21/2012	8/21/2012	8/22/2012	8/22/2012	8/22/2012
Sample Depth:	6 to 6 ft BML	11 to 11 ft BML	20 to 20 ft BML	30 to 30 ft BML	45 to 45 ft BML
elev_MLLW	-40.18 to -40.18	-45.18 to -45.18	-54.18 to -54.18	-64.18 to -64.18	-79.18 to -79.18
elev_NGVD	-46.5 to -46.5	-51.5 to -51.5	-60.5 to -60.5	-70.5 to -70.5	-85.5 to -85.5

Parameters	Units	CSI WG				
Fparam						
Conductivity, field	umhos/cm		47400	47500	49300	51200
Dissolved oxygen (DO), field	µg/L		0	0	1810	0
Oxidation reduction potential (ORP), field	millivolts		-167	-119	54	-179
pH, field	s.u.	7-8.5	8.40	8.17	7.06	7.24
Specific Gravity~FIELDPARAM	sg		-	-	-	-
Temperature, field	deg c		13.5	15.0	13.10	14.68
Temperature, field	deg f		-	-	-	-
Turbidity, field	ntu		128	244	670	0.0
						6.84

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WW-A1R	WW-A1R	WW-A1R	WW-A1R	WW-A1R
Sample ID:	GW-082212-MD-WW-A1R-007	GW-082312-MD-WW-A1R-008	GW-082312-MD-WW-A1R-009	GW-082412-MD-WWA1R-010	GW-082512-KB-WWA1R-011
Sample Date:	8/22/2012	8/23/2012	8/23/2012	8/24/2012	8/25/2012
Sample Depth:	55 to 55 ft BML	65 to 65 ft BML	75 to 75 ft BML	85 to 85 ft BML	95 to 95 ft BML
elev_MLLW	-89.18 to -89.18	-99.18 to -99.18	-109.18 to -109.18	-119.18 to -119.18	-129.18 to -129.18
elev_NGVD	-95.5 to -95.5	-105.5 to -105.5	-115.5 to -115.5	-125.5 to -125.5	-135.5 to -135.5

Parameters **Units** **CSI WG**

Fparam

Conductivity, field	umhos/cm		99900	> 99.9	> 99.9	56100	38500
Dissolved oxygen (DO), field	µg/L		0	0	890	0	0
Oxidation reduction potential (ORP), field	millivolts		-214	-135	-369	-97	275
pH, field	s.u.	7-8.5	7.20	8.15	11.18	9.14	8.44
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		14.58	15.20	15.50	14.28	16.45
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		1000	2.8	288	> 1000	> 1000

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		WW-A1R	WW-A2	WW-A2	WW-A2	WW-A2
<i>Sample ID:</i>		GW-082512-KB-WWA1R-012	GW-040506-WW-A2-MM-001	GW-040506-WW-A2-MM-002	GW-040506-WW-A2-MM-003	GW-040506-WW-A2-MM-004
<i>Sample Date:</i>		8/25/2012	4/5/2006	4/5/2006	4/5/2006	4/5/2006
<i>Sample Depth:</i>		106 to 106 ft BML	2 to 4 ft bml	6 to 8 ft bml	11 to 13 ft bml	19.4 to 21.4 ft bml
<i>elev_MLLW</i>		-140.18 to -140.18	-38.6 to -40.6	-42.6 to -44.6	-47.6 to -49.6	-56 to -58
<i>elev_NGVD</i>		-146.5 to -146.5	-44.9 to -46.9	-48.9 to -50.9	-53.9 to -55.9	-62.3 to -64.3
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>		
<i>Fparam</i>						
Conductivity, field	umhos/cm	39900	53400	50300	47800	56300
Dissolved oxygen (DO), field	µg/L	7440	1570	3150	5180	1720
Oxidation reduction potential (ORP), field	millivolts	43	-167	-168	-72	-189
pH, field	s.u.	7-8.5	8.81	7.67	7.59	7.38
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	19.82	11.2	11.85	11.35	10.28
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	241	-	-	-	980

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>WW-A2</i>	<i>WW-A2</i>	<i>WW-A2</i>	<i>WW-A3</i>	<i>WW-A3</i>
<i>Sample ID:</i>			<i>GW-040606-WW-A2-ZF-005</i>	<i>GW-040606-WW-A2-DR-006</i>	<i>GW-040706-WW-A2-DR-007</i>	<i>GW-042106-WW-A3-BI-001</i>	<i>GW-042406-WW-A3-BI-002</i>
<i>Sample Date:</i>			<i>4/6/2006</i>	<i>4/6/2006</i>	<i>4/7/2006</i>	<i>4/21/2006</i>	<i>4/24/2006</i>
<i>Sample Depth:</i>			<i>44.4 to 46.4 ft bml</i>	<i>74.4 to 76.4 ft bml</i>	<i>104.6 to 106.6 ft bml</i>	<i>24 to 27 ft bgs</i>	<i>49 to 52 ft bgs</i>
<i>elev_MLLW</i>			<i>-81 to -83</i>	<i>-111 to -113</i>	<i>-141.2 to -143.2</i>	<i>-9 to -12</i>	<i>-34 to -37</i>
<i>elev_NGVD</i>			<i>-87.3 to -89.3</i>	<i>-117.3 to -119.3</i>	<i>-147.5 to -149.5</i>	<i>-15.3 to -18.3</i>	<i>-40.3 to -43.3</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		69200	4300	17200	231	340
Dissolved oxygen (DO), field	µg/L		1560	2870	3200	0	990
Oxidation reduction potential (ORP), field	millivolts		-187	-69	-90	-230	-57
pH, field	s.u.	7-8.5	7.01	7.94	7.21	8.1	8.66
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		9.54	11.19	10.28	12.01	17.5
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		287	554	-	283	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			WW-A3	WW-A3	WW-A3	WW-A4	WW-A4
<i>Sample ID:</i>			GW-042506-WW-A3-BI-003	GW-042606-WW-A3-BS-004	GW-050906-WW-A3-BI-006	GW-042506-WW-A4-BI-001	GW-042506-WW-A4-BI-002
<i>Sample Date:</i>			4/25/2006	4/26/2006	5/9/2006	4/25/2006	4/25/2006
<i>Sample Depth:</i>			74 to 77 ft bgs	99 to 102 ft bgs	127 to 132 ft bgs	23 to 26 ft bgs	46 to 51 ft bgs
<i>elev_MLLW</i>			-59 to -62	-84 to -87	-112 to -117	-5.61 to -8.61	-28.61 to -33.61
<i>elev_NGVD</i>			-65.3 to -68.3	-90.3 to -93.3	-118.3 to -123.3	-11.9 to -14.9	-34.9 to -39.9
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		231	152	887	38800	231
Dissolved oxygen (DO), field	µg/L		3090	630	90	0	0
Oxidation reduction potential (ORP), field	millivolts		-13	27	-396	-109	-160
pH, field	s.u.	7-8.5	7.55	7.64	9	7.09	7.69
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		14.2	12.2	15.73	12.76	17.4
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		-	-	-	309	0

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>WW-A4</i>	<i>WW-A4</i>	<i>WW-A4</i>	<i>WW-A4</i>	<i>WW-B1</i>	
<i>Sample ID:</i>		<i>GW-042606-WW-A4-BI-003</i>	<i>GW-042606-WW-A4-BI-004</i>	<i>GW-042706-WW-A4-BI-005</i>	<i>GW-042706-WW-A4-BI-006</i>	<i>GW-031006-WW-B1-DR-001</i>	
<i>Sample Date:</i>		<i>4/26/2006</i>	<i>4/26/2006</i>	<i>4/27/2006</i>	<i>4/27/2006</i>	<i>3/10/2006</i>	
<i>Sample Depth:</i>		<i>71 to 76 ft bgs</i>	<i>96 to 101 ft bgs</i>	<i>126 to 131 ft bgs</i>	<i>156 to 161 ft bgs</i>	<i>2 to 4 ft bml</i>	
<i>elev_MLLW</i>		<i>-53.61 to -58.61</i>	<i>-78.61 to -83.61</i>	<i>-108.61 to -113.61</i>	<i>-138.61 to -143.61</i>	<i>-44.33 to -46.33</i>	
<i>elev_NGVD</i>		<i>-59.9 to -64.9</i>	<i>-84.9 to -89.9</i>	<i>-114.9 to -119.9</i>	<i>-144.9 to -149.9</i>	<i>-50.6 to -52.6</i>	
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>		<i>WG</i>			
<i>Fparam</i>							
Conductivity, field	umhos/cm	240	164	134	145	63200	
Dissolved oxygen (DO), field	µg/L	7670	2900	1620	0	1270	
Oxidation reduction potential (ORP), field	millivolts	64	-15	-41	-171	-306	
pH, field	s.u.	7-8.5	8.52	7.29	7.76	8.08	9.26
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-	
Temperature, field	deg c	13.34	14.3	16.01	17.12	8.3	
Temperature, field	deg f	-	-	-	-	-	
Turbidity, field	ntu	-	-	-	-	-	

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>WW-B1</i>	<i>WW-B1</i>	<i>WW-B1</i>	<i>WW-B1</i>	<i>WW-B1</i>
<i>Sample ID:</i>		<i>GW-031206-WW-B1-BS-002</i>	<i>GW-031206-WW-B1-BS-003</i>	<i>GW-031306-WW-B1-BS-004</i>	<i>GW-031306-WW-B1-BS-005</i>	<i>GW-031306-WW-B1-DR-006</i>
<i>Sample Date:</i>		<i>3/12/2006</i>	<i>3/12/2006</i>	<i>3/13/2006</i>	<i>3/13/2006</i>	<i>3/13/2006</i>
<i>Sample Depth:</i>		<i>6 to 8 ft bml</i>	<i>11 to 13 ft bml</i>	<i>13.5 to 15.5 ft bml</i>	<i>38.5 to 40.5 ft bml</i>	<i>68.5 to 70.5 ft bml</i>
<i>elev_MLLW</i>		<i>-48.33 to -50.33</i>	<i>-53.33 to -55.33</i>	<i>-55.83 to -57.83</i>	<i>-80.83 to -82.83</i>	<i>-110.83 to -112.83</i>
<i>elev_NGVD</i>		<i>-54.6 to -56.6</i>	<i>-59.6 to -61.6</i>	<i>-62.2 to -64.2</i>	<i>-87.2 to -89.2</i>	<i>-117.2 to -119.2</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>				
<i>Fparam</i>						
Conductivity, field	umhos/cm	72300	86100	88000	87600	43200
Dissolved oxygen (DO), field	µg/L	2100	1730	1630	1350	6390
Oxidation reduction potential (ORP), field	millivolts	-344	-348	-392	-435	-10
pH, field	s.u.	7-8.5	7-8.5	7-8.5	7-8.5	7-8.5
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	8.6	8.0	7.8	7.8	9.9
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	915	-	638	936	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	<i>WW-B1</i>	<i>WW-B2</i>	<i>WW-B2</i>	<i>WW-B2</i>	<i>WW-B2</i>
<i>Sample ID:</i>	<i>GW-031306-WW-B1-DR-007</i>	<i>GW-041306-WW-B2-MM-001</i>	<i>GW-041706-WW-B2-JW-002</i>	<i>GW-041706-WW-B2-JW-003</i>	<i>GW-041706-WW-B2-JW-004</i>
<i>Sample Date:</i>	<i>3/13/2006</i>	<i>4/13/2006</i>	<i>4/17/2006</i>	<i>4/17/2006</i>	<i>4/17/2006</i>
<i>Sample Depth:</i>	<i>98.5 to 100.5 ft bml</i>	<i>2 to 4 ft bml</i>	<i>7 to 9 ft bml</i>	<i>12 to 14 ft bml</i>	<i>20 to 22 ft bml</i>
<i>elev_MLLW</i>	<i>-140.83 to -142.83</i>	<i>-37.5 to -39.5</i>	<i>-42.5 to -44.5</i>	<i>-47.5 to -49.5</i>	<i>-55.5 to -57.5</i>
<i>elev_NGVD</i>	<i>-147.2 to -149.2</i>	<i>-43.8 to -45.8</i>	<i>-48.8 to -50.8</i>	<i>-53.8 to -55.8</i>	<i>-61.8 to -63.8</i>

<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		45100	42200	39500	38700	50400
Dissolved oxygen (DO), field	µg/L		3730	470	2990	7750	1060
Oxidation reduction potential (ORP), field	millivolts		-162	-160	-32	-112	-160
pH, field	s.u.	7-8.5	8.19	7.54	7.28	7.41	7.55
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		10.1	9.79	9.96	9.97	10.54
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		-	-	-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>WW-B2</i>	<i>WW-B2</i>	<i>WW-B2</i>	<i>WW-B3</i>	<i>WW-B3</i>
<i>Sample ID:</i>			<i>GW-041706-WW-B2-GH-005</i>	<i>GW-041806-WW-B2-MM-006</i>	<i>GW-041906-WW-B2-MM-007</i>	<i>GW-050906-WW-B3-GH-001</i>	<i>GW-050906-WW-B3-GH-002</i>
<i>Sample Date:</i>			<i>4/17/2006</i>	<i>4/18/2006</i>	<i>4/19/2006</i>	<i>5/9/2006</i>	<i>5/9/2006</i>
<i>Sample Depth:</i>			<i>46 to 48 ft bml</i>	<i>76 to 78 ft bml</i>	<i>106 to 108 ft bml</i>	<i>2 to 4 ft bml</i>	<i>6 to 8 ft bml</i>
<i>elev_MLLW</i>			<i>-81.5 to -83.5</i>	<i>-111.5 to -113.5</i>	<i>-141.5 to -143.5</i>	<i>-0.1 to -2.1</i>	<i>-4.1 to -6.1</i>
<i>elev_NGVD</i>			<i>-87.8 to -89.8</i>	<i>-117.8 to -119.8</i>	<i>-147.8 to -149.8</i>	<i>-6.4 to -8.4</i>	<i>-10.4 to -12.4</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		33800	1360	10000	15500	14800
Dissolved oxygen (DO), field	µg/L		13640	570	5520	100	4760
Oxidation reduction potential (ORP), field	millivolts		-21	-62	-68	-15	-101
pH, field	s.u.	7-8.5	7.48	8.96	7.69	7.95	7.37
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		9.82	10.79	11.03	11.76	14.58
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		-	-	32	-	577

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WW-B3	WW-B3	WW-B3	WW-B3	WW-B3
Sample ID:	GW-050906-WW-B3-GH-003	GW-050906-WW-B3-GH-004	GW-050906-WW-B3-DR-005	GW-051006-WW-B3-DR-006	GW-051006-WW-B3-MM-007
Sample Date:	5/9/2006	5/9/2006	5/9/2006	5/10/2006	5/10/2006
Sample Depth:	11 to 13 ft bml	34 to 36 ft bml	59 to 61 ft bml	83 to 85 ft bml	113 to 115 ft bml
elev_MLLW	-9.1 to -11.1	-32.1 to -34.1	-57.1 to -59.1	-81.1 to -83.1	-111.1 to -113.1
elev_NGVD	-15.4 to -17.4	-38.4 to -40.4	-63.4 to -65.4	-87.4 to -89.4	-117.4 to -119.4

Parameters	Units	CSI WG	WW-B3	WW-B3	WW-B3	WW-B3	WW-B3
Fparam							
Conductivity, field	umhos/cm		12700	34100	29500	22400	371
Dissolved oxygen (DO), field	µg/L		270	530	3250	400	-
Oxidation reduction potential (ORP), field	millivolts		-187	-145	-149	-71	72
pH, field	s.u.	7-8.5	7.87	7.48	7.63	7.08	6.43
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		13.24	12.76	12.99	11.77	14.03
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		-	-	724	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			<i>WW-B3</i>	<i>WW-B3</i>	<i>WW-B4</i>	<i>WW-B4</i>	<i>WW-B4</i>
<i>Sample ID:</i>			<i>GW-051006-WW-B3-DR-008</i>	<i>GW-051006-WW-B3-DR-009</i>	<i>GW-050106-WW-B4-GH-001</i>	<i>GW-050106-WW-B4-GH-002</i>	<i>GW-050206-WW-B4-DR-003</i>
<i>Sample Date:</i>			<i>5/10/2006</i>	<i>5/10/2006</i>	<i>5/1/2006</i>	<i>5/1/2006</i>	<i>5/2/2006</i>
<i>Sample Depth:</i>			<i>143 to 145 ft bml</i>	<i>143 to 145 ft bml</i>	<i>11 to 13 ft bml</i>	<i>36 to 38 ft bml</i>	<i>60 to 62 ft bml</i>
<i>elev_MLLW</i>			<i>-141.1 to -143.1</i>	<i>-141.1 to -143.1</i>	<i>-6.8 to -8.8</i>	<i>-31.8 to -33.8</i>	<i>-55.8 to -57.8</i>
<i>elev_NGVD</i>			<i>-147.4 to -149.4</i>	<i>-147.4 to -149.4</i>	<i>-13.1 to -15.1</i>	<i>-38.1 to -40.1</i>	<i>-62.1 to -64.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>	<i>(Duplicate)</i>				
<i>Fparam</i>							
Conductivity, field	umhos/cm		4620	4620	26500	2580	32500
Dissolved oxygen (DO), field	µg/L		6040	6040	1810	3380	6760
Oxidation reduction potential (ORP), field	millivolts		-110	-110	2	25	-4
pH, field	s.u.	7-8.5	7.5	7.5	7.25	7.52	7.3
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		12.99	12.99	12.97	13.5	11.21
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		-	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			<i>WW-B4</i>	<i>WW-B4</i>	<i>WW-B4</i>	<i>WW-B4</i>	<i>WW-B4</i>
<i>Sample ID:</i>			<i>GW-050206-WW-B4-DR-004</i>	<i>GW-050206-WW-B4-DR-005</i>	<i>GW-050206-WW-B4-MM-006</i>	<i>GW-050306-WW-B4-MM-007</i>	<i>GW-050306-WW-B4-DR-008</i>
<i>Sample Date:</i>			<i>5/2/2006</i>	<i>5/2/2006</i>	<i>5/2/2006</i>	<i>5/3/2006</i>	<i>5/3/2006</i>
<i>Sample Depth:</i>			<i>80 to 82 ft bml</i>	<i>85 to 87 ft bml</i>	<i>90 to 92 ft bml</i>	<i>115 to 117 ft bml</i>	<i>145 to 147 ft bml</i>
<i>elev_MLLW</i>			<i>-75.8 to -77.8</i>	<i>-80.8 to -82.8</i>	<i>-85.8 to -87.8</i>	<i>-110.8 to -112.8</i>	<i>-140.8 to -142.8</i>
<i>elev_NGVD</i>			<i>-82.1 to -84.1</i>	<i>-87.1 to -89.1</i>	<i>-92.1 to -94.1</i>	<i>-117.1 to -119.1</i>	<i>-147.1 to -149.1</i>
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		9800	24200	148	34000	6740
Dissolved oxygen (DO), field	µg/L		2960	5600	7610	11800	1320
Oxidation reduction potential (ORP), field	millivolts		-10	-29	31	-40	-118
pH, field	s.u.	7-8.5	7.49	7.03	7.76	7.27	7.31
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		13.57	14.71	12.64	11.92	15.93
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		-	724	337	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		WW-C1	WW-C1	WW-C1	WW-C1	WW-C1
Sample ID:		GW-030606-WW-C1-MM-001	GW-030606-WW-C1-MM-002	GW-030606-WW-C1-MM-003	GW-030606-WW-C1-MM-004	GW-030606-WW-C1-MM-005
Sample Date:		3/6/2006	3/6/2006	3/6/2006	3/6/2006	3/6/2006
Sample Depth:		1 to 4 ft bml	6 to 8 ft bml	11 to 13 ft bml	11 to 13 ft bml	13.6 to 16.6 ft bml
elev_MLLW		-41.47 to -44.47	-46.47 to -48.47	-51.47 to -53.47	-51.47 to -53.47	-54.07 to -57.07
elev_NGVD		-47.8 to -50.8	-52.8 to -54.8	-57.8 to -59.8	-57.8 to -59.8	-60.4 to -63.4
Parameters	Units	(Duplicate)				
Fparam						
Conductivity, field	umhos/cm	44800	47400	45000	45000	43900
Dissolved oxygen (DO), field	µg/L	670	2660	1530	1530	280
Oxidation reduction potential (ORP), field	millivolts	-195	-89	-136	-136	-153
pH, field	s.u.	7-8.5	7.89	7.30	7.38	7.44
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	9.4	8.7	8.7	8.7	8.7
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	-	442	-	-	859

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>WW-C1</i>	<i>WW-C2</i>	<i>WW-C2</i>	<i>WW-C2</i>	<i>WW-C2</i>		
<i>Sample ID:</i>		<i>GW-030706-WW-C1-BS-006</i>	<i>GW-033006-WW-C2-ZF-001</i>	<i>GW-033006-WW-C2-ZF-002</i>	<i>GW-033006-WW-C2-ZF-003</i>	<i>GW-033006-WW-C2-ZF-004</i>		
<i>Sample Date:</i>		<i>3/7/2006</i>	<i>3/30/2006</i>	<i>3/30/2006</i>	<i>3/30/2006</i>	<i>3/30/2006</i>		
<i>Sample Depth:</i>		<i>38.6 to 41.6 ft bml</i>	<i>2 to 5 ft bml</i>	<i>7 to 10 ft bml</i>	<i>12 to 15 ft bml</i>	<i>23.9 to 26.9 ft bml</i>		
<i>elev_MLLW</i>		<i>-79.07 to -82.07</i>	<i>-34.12 to -37.12</i>	<i>-39.12 to -42.12</i>	<i>-44.12 to -47.12</i>	<i>-56.02 to -59.02</i>		
<i>elev_NGVD</i>		<i>-85.4 to -88.4</i>	<i>-40.4 to -43.4</i>	<i>-45.4 to -48.4</i>	<i>-50.4 to -53.4</i>	<i>-62.3 to -65.3</i>		
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>					
<i>Fparam</i>								
Conductivity, field	umhos/cm			87400	50200	49900	49400	19100
Dissolved oxygen (DO), field	µg/L			470	6660	7140	6890	6640
Oxidation reduction potential (ORP), field	millivolts			-157	-182	-148	-174	-195
pH, field	s.u.	7-8.5		7.59	7.69	7.75	7.77	7.86
Specific Gravity~FIELDPARAM	sg			-	-	-	-	-
Temperature, field	deg c			8.6	9.6	10.0	10.0	9.7
Temperature, field	deg f			-	-	-	-	-
Turbidity, field	ntu			-	-	186	503	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>			WW-C2	WW-C2	WW-C2	WW-C3	WW-C3
<i>Sample ID:</i>			GW-033006-WW-C2-ZF-005	GW-033006-WW-C2-DR-006	GW-033106-WW-C2-DR-007	GW-040406-WW-C3-GH-001	GW-040506-WW-C3-GH-002
<i>Sample Date:</i>			3/30/2006	3/30/2006	3/31/2006	4/4/2006	4/5/2006
<i>Sample Depth:</i>			48.9 to 51.9 ft bml	78.9 to 81.9 ft bml	108.9 to 111.9 ft bml	23 to 26 ft bgs	48 to 51 ft bgs
<i>elev_MLLW</i>			-81.02 to -84.02	-111.02 to -114.02	-141.02 to -144.02	-6.45 to -9.45	-31.45 to -34.45
<i>elev_NGVD</i>			-87.3 to -90.3	-117.3 to -120.3	-147.3 to -150.3	-12.8 to -15.8	-37.8 to -40.8
<i>Parameters</i>	<i>Units</i>	<i>CSI WG</i>					
<i>Fparam</i>							
Conductivity, field	umhos/cm		18300	2400	10100	168	257
Dissolved oxygen (DO), field	µg/L		6790	6550	6430	13430	610
Oxidation reduction potential (ORP), field	millivolts		-183	-177	-162	80	-134
pH, field	s.u.	7-8.5	7.79	8.00	7.79	8.07	9.22
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		9.5	9.5	9.3	13.7	14.5
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		-	920	610	202	-

TABLE 4.23

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>WW-C3</i>	<i>WW-C3</i>	<i>WW-C3</i>	<i>WW-C4</i>	<i>WW-C4</i>
<i>Sample ID:</i>		<i>GW-040606-WW-C3-GH-003</i>	<i>GW-041006-WW-C3-GH-005</i>	<i>GW-041206-WW-C3-BI-006</i>	<i>GW-042406-WW-C4-DR-002</i>	<i>GW-042506-WW-C4-DR-003</i>
<i>Sample Date:</i>		<i>4/6/2006</i>	<i>4/10/2006</i>	<i>4/12/2006</i>	<i>4/24/2006</i>	<i>4/25/2006</i>
<i>Sample Depth:</i>		<i>73 to 76 ft bgs</i>	<i>98 to 101 ft bgs</i>	<i>128 to 131 ft bgs</i>	<i>6 to 8 ft bml</i>	<i>11 to 13 ft bml</i>
<i>elev_MLLW</i>		<i>-56.45 to -59.45</i>	<i>-81.45 to -84.45</i>	<i>-111.45 to -114.45</i>	<i>-24.4 to -26.4</i>	<i>-29.4 to -31.4</i>
<i>elev_NGVD</i>		<i>-62.8 to -65.8</i>	<i>-87.8 to -90.8</i>	<i>-117.8 to -120.8</i>	<i>-30.7 to -32.7</i>	<i>-35.7 to -37.7</i>
Parameters	Units	CSI		WG		
Fparam						
Conductivity, field	umhos/cm	149	147	118	25200	17800
Dissolved oxygen (DO), field	µg/L	6470	6430	1790	900	560
Oxidation reduction potential (ORP), field	millivolts	89	24	-66	-136	-203
pH, field	s.u.	7-8.5	6.87	6.92	7.65	7.23
Specific Gravity~FIELDPARAM	sg	-	-	-	-	-
Temperature, field	deg c	12.2	11.2	12.49	11.28	11.4
Temperature, field	deg f	-	-	-	-	-
Turbidity, field	ntu	690	-	453	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>						
<i>Sample ID:</i>		WW-C4	WW-C4	WW-C4	WW-C4	WW-D1
<i>Sample Date:</i>		GW-042506-WW-C4-BS-004	GW-042506-WW-C4-MM-005	GW-042506-WW-C4-DR-006	GW-042606-WW-C4-MM-007	GW-042806-WW-D1-MM-001
<i>Sample Depth:</i>		4/25/2006	4/25/2006	4/25/2006	4/26/2006	4/28/2006
<i>elev_MLLW</i>		37.6 to 39.6 ft bml	62.6 to 64.6 ft bml	92.6 to 94.6 ft bml	123.6 to 125.6 ft bml	2 to 4 ft bml
<i>elev_NGVD</i>		-56 to -58	-81 to -83	-111 to -113	-142 to -144	-38 to -40
		-62.3 to -64.3	-87.3 to -89.3	-117.3 to -119.3	-148.3 to -150.3	-44.3 to -46.3
<i>Parameters</i>	<i>Units</i>	<i>CSI</i>	<i>WG</i>			
<i>Fparam</i>						
Conductivity, field	umhos/cm			5740	20900	6460
Dissolved oxygen (DO), field	µg/L			670	-	-
Oxidation reduction potential (ORP), field	millivolts			-210	-117	-33
pH, field	s.u.	7-8.5		8.07	7.18	7.48
Specific Gravity~FIELDPARAM	sg			-	-	-
Temperature, field	deg c			12.3	17.46	11.75
Temperature, field	deg f			-	-	-
Turbidity, field	ntu			-	-	-

GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	WW-D1	WW-D1	WW-D1	WW-D1	WW-D1
Sample ID:	GW-042806-WW-D1-MM-002	GW-043006-WW-D1-DR-003	GW-050106-WW-D1-DR-004	GW-050106-WW-D1-DR-005	GW-051506-WW-D1-BI-006
Sample Date:	4/28/2006	4/30/2006	5/1/2006	5/1/2006	5/15/2006
Sample Depth:	6 to 8 ft bml	11 to 13 ft bml	20 to 22 ft bml	45 to 47 ft bml	75 to 77 ft bml
elev_MLLW	-42 to -44	-47 to -49	-56 to -58	-81 to -83	-111 to -113
elev_NGVD	-48.3 to -50.3	-53.3 to -55.3	-62.3 to -64.3	-87.3 to -89.3	-117.3 to -119.3

Parameters	Units	CSI WG	WW-D1	WW-D1	WW-D1	WW-D1	WW-D1
Fparam							
Conductivity, field	umhos/cm		48500	58700	69900	> 99.9	> 99.9
Dissolved oxygen (DO), field	µg/L		350	670	280	10	980
Oxidation reduction potential (ORP), field	millivolts		-155	-179	-192	-357	-395
pH, field	s.u.	7-8.5	7.55	7.22	7.28	11.06	9.92
Specific Gravity~FIELDPARAM	sg		-	-	-	-	-
Temperature, field	deg c		11.88	10.12	10.24	10.29	11.97
Temperature, field	deg f		-	-	-	-	-
Turbidity, field	ntu		211	-	-	-	-

**GROUNDWATER ANALYTICAL RESULTS – FIELD PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Notes:

- (1) Site COCs per Tables 3.1 and 3.2 of the Statement of Work (January 2005). Additional non-COC analytical results are presented in the eDAT located in Appendix F.
- (2) Groundwater Cleanup Levels per Table 4.8.
- BGS Below ground surface.
- MLLW Mean lower low water.
- NGVD National geodetic vertical datum.
- COCs Constituents of concern.
- µg/L Microgram per liter.
- MS/cm Milliseimens per centimeter.
- s.u. Standard units.
- Deg C Degree Celsius.
- ntu Nepheletic turbidity units.
- NV No cleanup level has been established for this parameter.
- * Cleanup Level established at a concentration equal to the practical quantitation limit for that chemical in accordance the WAC 173-340-700 (6)(d). Value may decrease with improvements in analytical methods.
- 500** Concentration exceeds the Groundwater Cleanup Level.
- Not analyzed.
- U Not detected at associated concentration.
- J Estimated concentration.
- R Rejected.

TABLE 4.24

NATURE AND EXTENT OF CONTAMINATION IN GROUNDWATER
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

	Groundwater Cleanup Level ⁽¹⁾ (µg/L)	Estimated Areal Extent (acres)	Maximum Vertical Extent ⁽²⁾		Estimated Volume (MG)	Maximum Concentration			Summary of Exceedance Factors ⁽³⁾						Total Number of Samples Analyzed
			Elevation (feet NGVD)	Location		Conc. (µg/L)	EF	Location	>1 to 10	>10 to 100	>100 to 1000	> 1000 to 10,000	>10,000	Total	
Volatiles															
1,1,2,2-Tetrachloroethane	11	4.0	-150.2	77C-160	--	8,300	755	77C-160	7	3	3	0	0	13	1,943
1,1,2-Trichloroethane	42	7.5	-129	Pier 25-17	--	880	21	EXT-9-Shallow	29	3	0	0	0	32	1,943
1,1-Dichloroethene	3.2	28.5	-146.4	5106-2	--	10,000	3,125	5106-2	90	108	116	1	0	315	1,984
Carbon tetrachloride	4.4	1.3	-81.3	EA-1	--	920	209	SP3	3	2	1	0	0	6	1,941
Chloroform	470	9.7	-150.2	77C-160	--	79,800	170	SP4	36	14	1	0	0	51	1,984
Methylene chloride	1,600	9.1	-149.1	61C-130	--	19,000	12	61C-130	18	1	0	0	0	19	1,983
Tetrachloroethene	8.85	26.1	-181.8	PT-15A	395	170,000	19,209	10-24 / WMUA-15	120	79	78	59	6	342	1,983
cis-1,2-Dichloroethene	16	--	-211.62	MW-G-DEEP	--	630,000	39,375	5106-2	199	143	117	157	17	633	1,983
trans-1,2-Dichloroethene	10,000	--	--	--	--	7,600	<1	78-25	0	0	0	0	0	0	1,983
Trichloroethene	81	26.2	-181.8	PT-15A	305	2,500,000	30,864	5106-2	80	87	96	33	1	297	1,983
Vinyl chloride	2.4	62.1	-181.8	PT-15A	704	870,000	362,500	5106-2	199	170	131	163	107	770	2,028
Summary of VOCs			-181.8	PT-15A			362,500	5106-2	781	610	543	413	131	2478	21,738
Semi-Volatiles															
Hexachlorobenzene	0.00077	6.901	-156	5106-12	--	7	8,961	PT-17	13	38	5	4	0	60	879
Hexachlorobutadiene	0.013	1.316	-87.9	SP-5	--	610	46,923	PT-13	12	24	19	7	1	63	867
Pentachlorophenol	7.9	2.379	-97.9	SP-8	--	670	85	PZ-7	9	1	0	0	0	10	846
Summary of SVOCs			-156	5106-12			23,793	PT-17	34	63	24	11	1	133	2,592
Pesticides															
4,4'-DDD	0.00031	--	--	--	--	--	--	--	0	0	0	0	0	0	68
4,4'-DDE	0.00022	--	--	--	--	--	--	--	0	0	0	0	0	0	68
4,4'-DDT	0.00022	0.114	-27.9	NL-14	--	0.247	1,123	NL-14	0	0	0	1	0	1	68
Summary of Pesticides			-27.9	NL-14			1,123	NL-14	0	0	0	1	0	1	204
PCBs															
Total PCBs	0.000064	0.011	-116.4	5106-2	--	22.21	347,068	PT-15B	5	12	14	3	6	40	779
Dioxins/ Furans															
Dioxin-Furan (TEC of 2,3,7,8 TCDD)	5.10E-09	--	--	--	--	0.000567	--	PT-17A	--	--	--	--	--	--	68
Metals															
Arsenic	0.1	--	-218.4	SP-2 / SP-3	--	4,400	31,429	Pier 25-12	97	406	426	137	1	1067	1,722
Chromium, total ⁽⁶⁾	50	--	-168	7-181	--	6,350	127	70-25	242	73	1	0	0	316	1,725
Copper	2.4	--	-218.4	SP-2	--	7,230	3,013	WWA1-D	506	481	66	2	0	1055	1,722
Lead	8.1	--	-166.7	5106-10	--	1,530	189	WWA1-R	43	13	5	0	0	61	1,732
Mercury	0.025	--	-170.6	11-183	--	85	3,408	CH3	130	40	16	1	0	187	1,716
Nickel	8.2	--	-218.2	SP-2	--	2,790	340	WWA1-D	731	183	6	0	0	920	1,722
Thallium	0.47	--	-188.4	SP-2	--	4,680	9,957	5106-12	75	39	4	1	0	119	1,719
Zinc	81	--	-169	Pier 25-2	--	49,400	610	5106-2	109	28	6	0	0	143	1,722
Summary of Metals			-218.4	SP2			9,957	5106-12	1933	1263	530	141	1	3868	13,780
General															
pH	7 - 8.5	53.3	-188.4	SP3	866	>14.0		81-50	>8.5 to 9	>9 to 10	>10 to 11	>11 to 12	>12 to 13	>13	2,391

Notes:

- ⁽¹⁾ GCL per Table 4.5 and/or 4.8.
- ⁽²⁾ Greatest depth of concentrations exceeding the GCL for parameter
- ⁽³⁾ Exceedance factor calculated as the concentration divided by the GCL for parameter
- µg/L Microgram per liter.
- sf Square feet.
- NGVD National Geodetic Vertical Datum.
- EF Exceedance factor.
- NV No established GCL.
- PCB Polychlorinated Biphenyl.
- MG Million gallons.

TABLE 4.25

SEDIMENT ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>	5106-2	5106-9	5106-10	5106-11	5106-13	5106-14	5106-14		
<i>Sample ID:</i>	SE-013006-5106-2-00;E-103105-5106-9-00;E-110205-5106-10-00;E-101305-5106-11-00;E-112805-5106-13-00;E-120105-5106-14-00;E-120105-5106-14-00;								
<i>Sample Date:</i>	1/30/2006	10/31/2005	11/2/2005	10/13/2005	11/28/2005	12/1/2005	12/1/2005		
<i>Sample Depth:</i>	0 to 2 ft bml	2 to 4 ft bml	2 to 4 ft bml	2 to 4 ft bml	2 to 4 ft bml	2 to 4 ft bml	2 to 4 ft bml		
<i>elev_MLLW</i>	-44.6 to -46.6	-38.1 to -40.1	-38.9 to -40.9	-40 to -42	-36.7 to -38.7	-39 to -41	-39 to -41		
<i>elev_NGVD</i>	-50.9 to -52.9	-44.4 to -46.4	-45.2 to -47.2	-46.3 to -48.3	-43 to -45	-45.3 to -47.3	-45.3 to -47.3 (Duplicate)		
<i>Parameters</i>	<i>Units</i>	<i>PSSCL</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg		130 J	1.6 U	1.6 U	2.28 U	1.6 U	2.89 U	2.89 U
1,1,2-Trichloroethane	µg/kg		100 J	0.62 U	0.61 U	6.26 U	0.62 U	7.93 U	7.94 U
1,1-Dichloroethene	µg/kg		240 J	1.0 U	1.0 U	1.49 U	1.0 U	14.5	28
Carbon tetrachloride	µg/kg		1.0 U	1.0 U	1.0 U	1.6 U	1.0 U	2.03 U	2.03 U
Chloroform (Trichloromethane)	µg/kg		1800	1.8 U	1.8 U	1.42 U	1.8 U	3.49 U	4.84 U
cis-1,2-Dichloroethene	µg/kg		22000	8.8	11	1.44 U	1.4 U	259	1220
Ethylbenzene	µg/kg	10	-	-	-	-	-	-	-
Methylene chloride	µg/kg		230 J	5.9 U	R	2.19 U	5.9 U	2.78 U	2.78 U
Tetrachloroethene	µg/kg	57	36000	0.69 U	0.69 U	1.55 U	0.69 U	4.36 J	4.06 J
trans-1,2-Dichloroethene	µg/kg		340	1.7 U	1.7 U	1.62 U	1.7 U	16	44.1
Trichloroethene	µg/kg		62000	0.91 U	2.4 J	1.52 U	0.91 U	9.38	11.7
Vinyl chloride	µg/kg		410	2.2 U	16	1.81 U	R	2.29 UJ	24.8 J
<i>Semi-volatile Organic Compounds</i>									
1,2,4-Trichlorobenzene	µg/kg	51	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	-	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	22	14	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	11	180	-	-	-	-	-	-
Pentachlorophenol	µg/kg	360	4.2 U	-	-	-	-	-	-
<i>Metals</i>									
Antimony	µg/kg	150000	-	-	-	-	-	-	-
Arsenic	µg/kg	57000	1600	-	-	-	-	-	-
Cadmium	µg/kg	5100	-	-	-	-	-	-	-
Chromium	µg/kg	260000	14000	-	-	-	-	-	-
Copper	µg/kg	390000	16200	-	-	-	-	-	-
Lead	µg/kg	450000	3900	-	-	-	-	-	-
Mercury	µg/kg	590	21 U	-	-	-	-	-	-
Nickel	µg/kg	140000	8300	-	-	-	-	-	-
Silver	µg/kg	6100	-	-	-	-	-	-	-
Thallium	µg/kg		43 J	-	-	-	-	-	-
Zinc	µg/kg	410000	24400	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	300	12 U	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	16	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	9	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	34	-	-	-	-	-	-	-

TABLE 4.25

**SEDIMENT ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-19		5106-20		5106-21		5106-22		5106-22		5106-22		5106-23	
<i>Sample ID:</i>	SE-011306-5106-19-00:E-010406-5106-20-00:E-010606-5106-21-00:E-012506-5106-22-00:E-012506-5106-22-00:E-012506-5106-22-00:E-012506-5106-22-00:E-021006-5106-23-00:													
<i>Sample Date:</i>	1/13/2006		1/4/2006		1/6/2006		1/25/2006		1/25/2006		1/25/2006		2/10/2006	
<i>Sample Depth:</i>	0.5 to 2.5 ft bml		0.5 to 2.5 ft bml		0.5 to 2.5 ft bml		0 to 2 ft bml		2 to 4 ft bml		2 to 4 ft bml		0 to 2 ft bml	
<i>elev_MLLW</i>	-38.6 to -40.6		-35 to -37		-37.6 to -39.6		-29.2 to -31.2		-31.2 to -33.2		-31.2 to -33.2		-2.6 to -4.6	
<i>elev_NGVD</i>	-44.9 to -46.9		-41.3 to -43.3		-43.9 to -45.9		-35.5 to -37.5		-37.5 to -39.5		-37.5 to -39.5 (Duplicate)		-8.9 to -10.9	
<i>Parameters</i>	<i>Units</i>	<i>PSSCL</i>												
Volatile Organic Compounds														
1,1,2,2-Tetrachloroethane	µg/kg		3.4 U	4.68 U	3.05 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	3.03 U
1,1,2-Trichloroethane	µg/kg		9.34 U	12.8 U	8.37 U	0.60 UJ	0.62 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	8.32 U
1,1-Dichloroethene	µg/kg		2.23 U	3.06 U	2 U	0.99 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.99 U
Carbon tetrachloride	µg/kg		2.39 U	3.29 U	2.14 U	1.0 UJ	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.13 U
Chloroform (Trichloromethane)	µg/kg		2.12 U	2.92 U	2 J	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.89 U
cis-1,2-Dichloroethene	µg/kg		5.92 J	2.95 U	15.6	1.4 UJ	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.91 U
Ethylbenzene	µg/kg	10	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg		3.27 U	4.5 U	2.93 U	5.8 U	5.9 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	2.92 U
Tetrachloroethene	µg/kg	57	2.31 U	3.17 U	19.3	0.68 UJ	0.70 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	2.12 J
trans-1,2-Dichloroethene	µg/kg		7.17 J	3.32 U	2.17 U	1.7 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.15 U
Trichloroethene	µg/kg		2.27 U	3.12 U	14.2	0.89 UJ	0.92 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	6.95 J
Vinyl chloride	µg/kg		2.7 U	3.71 U	2.42 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.4 U
Semi-volatile Organic Compounds														
1,2,4-Trichlorobenzene	µg/kg	51	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	22	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	11	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	360	-	-	-	-	-	-	-	-	-	-	-	-
Metals														
Antimony	µg/kg	150000	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/kg	57000	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/kg	5100	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	260000	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	390000	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	450000	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	590	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	140000	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg		-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	410000	-	-	-	-	-	-	-	-	-	-	-	-
PCBs														
Total PCBs	µg/kg	300	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides														
4,4'-DDD	µg/kg	16	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	9	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.25

**SEDIMENT ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	5106-24		5106-25		5106-26		5106-27		5106-29		5106-30		5106-31	
<i>Sample ID:</i>	SE-020806-5106-24-00:E-042706-5106-25-01(E-021406-5106-26-00:E-041006-5106-27-00:E-042106-5106-29-00:E-042506-5106-30-00:E-042806-5106-31-00:													
<i>Sample Date:</i>	2/8/2006		4/27/2006		2/14/2006		4/10/2006		4/21/2006		4/25/2006		4/28/2006	
<i>Sample Depth:</i>	2 to 4 ft bml		0 to 2 ft bml		0 to 2 ft bml		0 to 2 ft bml		2 to 4 ft bml		0.5 to 2 ft bml		0 to 2 ft bml	
<i>elev_MLLW</i>	-4.2 to -6.2		-2.2 to -4.2		1.9 to -0.1		-0.4 to -2.4		-0.35 to -2.35		6.42 to 4.92		3.1 to 1.1	
<i>elev_NGVD</i>	-10.5 to -12.5		-8.5 to -10.5		-4.4 to -6.4		-6.7 to -8.7		-6.7 to -8.7		0.1 to -1.4		-3.2 to -5.2	
<i>Parameters</i>	<i>Units</i>	<i>PSSCL</i>												
Volatile Organic Compounds														
1,1,2,2-Tetrachloroethane	µg/kg		3.04 U	6.4 U	1.6 U	6.8 U	6.7 U	6.8 U	6.8 U	6.8 U	6.8 U	6.8 U	6.8 U	8.6 U
1,1,2-Trichloroethane	µg/kg		8.34 U	5.9 U	0.62 U	6.3 U	6.2 U	6.3 U	6.2 U	6.3 U	6.3 U	6.3 U	6.3 U	7.9 U
1,1-Dichloroethene	µg/kg		1.99 U	5.5 U	1.0 U	5.8 U	5.7 U	5.8 U	5.7 U	5.8 U	5.8 U	5.8 U	5.8 U	7.3 U
Carbon tetrachloride	µg/kg		2.14 U	3.2 U	1.0 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	4.3 U
Chloroform (Trichloromethane)	µg/kg		1.89 U	2.8 U	1.9 U	3.0 U	2.9 U	3.0 U	2.9 U	3.0 U	3.0 U	3.0 U	3.0 U	3.7 U
cis-1,2-Dichloroethene	µg/kg		1.92 U	4.2 U	1.4 U	4.5 U	4.4 U	4.4 U	4.4 U	4.5 U	4.5 U	4.5 U	4.5 U	5.6 U
Ethylbenzene	µg/kg	10	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg		2.92 U	3.0 U	5.9 U	3.2 U	3.1 U	3.2 U	3.1 U	3.2 U	3.2 U	3.2 U	3.2 U	4.0 U
Tetrachloroethene	µg/kg	57	2.06 U	4.6 U	0.70 U	4.9 U	4.8 U	4.8 U	4.8 U	4.9 U	4.9 U	4.9 U	4.9 U	6.1 U
trans-1,2-Dichloroethene	µg/kg		2.16 U	3.5 U	1.8 U	3.8 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	4.7 U
Trichloroethene	µg/kg		2.02 U	4.2 U	0.92 U	13	4.4 U	4.4 U	4.4 U	4.5 U	4.5 U	4.5 U	4.5 U	5.6 U
Vinyl chloride	µg/kg		2.41 UJ	5.2 U	2.2 U	5.5 U	5.4 U	5.4 U	5.4 U	5.5 U	5.5 U	5.5 U	5.5 U	6.9 U
Semi-volatile Organic Compounds														
1,2,4-Trichlorobenzene	µg/kg	51	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	22	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	11	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	360	-	-	-	-	-	-	-	-	-	-	-	-
Metals														
Antimony	µg/kg	150000	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/kg	57000	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/kg	5100	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/kg	260000	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/kg	390000	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/kg	450000	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/kg	590	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/kg	140000	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/kg		-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	410000	-	-	-	-	-	-	-	-	-	-	-	-
PCBs														
Total PCBs	µg/kg	300	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides														
4,4'-DDD	µg/kg	16	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	9	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.25

**SEDIMENT ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>			5205	5206	5207	5208	5209
<i>Sample ID:</i>			Sintertidal~5205~(HWCC Sample)	Sintertidal~5206~(HWCC Sample)	Sintertidal~5207~(HWCC Sample)	Sintertidal~5208~(HWCC Sample)	Sintertidal~5209~(HWCC Sample)
<i>Sample Date:</i>			1/1/1995	1/1/1995	1/1/1995	1/1/1995	1/1/1995
<i>Sample Depth:</i>			0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
<i>elev_MLLW</i>							
<i>elev_NGVD</i>							
Parameters	Units	PSSCL					
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	µg/kg		-	-	-	-	-
1,1,2-Trichloroethane	µg/kg		-	-	-	-	-
1,1-Dichloroethene	µg/kg		-	-	-	-	-
Carbon tetrachloride	µg/kg		-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg		-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg		-	-	-	-	-
Ethylbenzene	µg/kg	10	1.1 U	1.2 U	1.1 U	1.0 U	1.0 U
Methylene chloride	µg/kg		-	-	-	-	-
Tetrachloroethene	µg/kg	57	85	12 J	30	52	19
trans-1,2-Dichloroethene	µg/kg		-	-	-	-	-
Trichloroethene	µg/kg		14	4.2 J	4.0	1.3	1.0 U
Vinyl chloride	µg/kg		-	-	-	-	-
Semi-volatile Organic Compounds							
1,2,4-Trichlorobenzene	µg/kg	51	40	5 J	8 J	38 J	86
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	240	670	400	130	290
Hexachlorobenzene	µg/kg	22	64	730	560	1000	620
Hexachlorobutadiene	µg/kg	11	820	890	620	1100	920
Pentachlorophenol	µg/kg	360	120 U	66 J	180	230 U	260
Metals							
Antimony	µg/kg	150000	9300 J	19700 J	11300 J	16400 J	12500 J
Arsenic	µg/kg	57000	21700	31300	26900	15900	15400
Cadmium	µg/kg	5100	290 U	1200	1900	320 U	360 U
Chromium	µg/kg	260000	65400	79600	39100	31900	23700
Copper	µg/kg	390000	87400	296000	91900	143000	113000
Lead	µg/kg	450000	283000	449000	1150000	3470000	9360000
Mercury	µg/kg	590	990	2100	140	250	140
Nickel	µg/kg	140000	55400	69200	38800	172000	60600
Silver	µg/kg	6100	440	670	120	320	200
Thallium	µg/kg		-	-	-	-	-
Zinc	µg/kg	410000	179000	587000	298000	200000 J	240000 J
PCBs							
Total PCBs	µg/kg	300	350	3100	860 J	9200 U	31000 J
Pesticides							
4,4'-DDD	µg/kg	16	1.2 U	110 U	86 U	92 U	2300 U
4,4'-DDE	µg/kg	9	4.0 U	110 U	30 U	120 U	1100 U
4,4'-DDT	µg/kg	34	2.9 U	110 U	47 U	92 U	2200 U

TABLE 4.25

**SEDIMENT ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Sample Location:	5211	Area 1/2	Area 2/3-7	Area 3/10-12	Area 4/13-16	Area 5/17,18,21	Area 6/19,20	Area 7/22,23	Area 8/24,25	Area 9/26-28
Sample ID:	Sntertidal~5211~(HWCC Sample	Area 1 Sedimen	Area 2 Sedimen	Area 3 Sedimen	Area 4 Sedimen	Area 5 Sedimen	Area 6 Sedimen	Area 7 Sedimen	Area 8 Sedimen	Area 9 Sedimen
Sample Date:	1/1/1995	4/3/1996	4/3/1996	4/4/1996	4/4/1996	4/5/1996	4/5/1996	4/5/1996	4/5/1996	4/5/1996
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW										
elev_NGVD										
Parameters	Units	PSSCL								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/kg	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/kg	10	1.0 U	1.1 U	1.1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.1 U
Methylene chloride	µg/kg	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/kg	57	13	11	84	4.2	7.5	2.4	2.0	3.6
trans-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	-	2.1	5.9	6.6	1.1 U	1.0 U	1.1	1.0 U	1.1 U
Vinyl chloride	µg/kg	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds										
1,2,4-Trichlorobenzene	µg/kg	51	27 J	60	86 J	18 U	19 U	19 U	18 U	26 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	500	340	230 J	150	65	120	69	210
Hexachlorobenzene	µg/kg	22	420	380	770 J	97	600	240	280	580
Hexachlorobutadiene	µg/kg	11	360	270	2300 J	65	920	200	280	290
Pentachlorophenol	µg/kg	360	260 U	290	R	92 U	160	150	120	220
Metals										
Antimony	µg/kg	150000	7400 J	50000 J	30000 J	11000 J	40000 J	9000	R	12000 J
Arsenic	µg/kg	57000	10300	60000	70000	80000	140000	42000	39000	73000
Cadmium	µg/kg	5100	1100	1000 U	700 U	300 U	1000 U	500	400	1100
Chromium	µg/kg	260000	27400	39000	30000	41000	33000	40000	36000	61000
Copper	µg/kg	390000	120000	360000	370000	250000	260000	110000	140000	250000
Lead	µg/kg	450000	141000	13000000	12000000	5400000 J	15000000 J	4500000 J	14000000 J	45000000 J
Mercury	µg/kg	590	130	350	240	170	260	140	460	310
Nickel	µg/kg	140000	16200	30000	55000	69000 J	85000 J	73000 J	450000 J	150000 J
Silver	µg/kg	6100	600	2000	2000	1100	2000	600	700	800
Thallium	µg/kg	-	-	-	-	-	-	-	-	-
Zinc	µg/kg	410000	487000 J	370000	360000	470000	200000	240000	300000	380000
PCBs										
Total PCBs	µg/kg	300	42000 U	50 U	50 U	440	50 U	50 U	50 U	160
Pesticides										
4,4'-DDD	µg/kg	16	52 U	570	450	200	2200	620	140	510 U
4,4'-DDE	µg/kg	9	130 U	530 U	110 U	100 U	740	560 U	95 U	510 U
4,4'-DDT	µg/kg	34	52 U	530 U	110 U	100 U	520 U	560 U	95 U	510 U

TABLE 4.25

SEDIMENT ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>NL-13</i>	<i>NL-14</i>	<i>NL-15</i>	<i>NL-16</i>	<i>NL-24</i>	<i>NL-25</i>	<i>NL-26</i>
<i>Sample ID:</i>		<i>SE-122005-NL-13-001;E-121405-NL-14-001;E-121605-NL-15-001;E-051806-NL-16-BI-001;E-011207-BS-NL-24-001;E-011807-ILM-NL-25-001;E-011707-BS-NL-26-001</i>						
<i>Sample Date:</i>		<i>12/20/2005</i>	<i>12/14/2005</i>	<i>12/16/2005</i>	<i>5/18/2006</i>	<i>1/12/2007</i>	<i>1/18/2007</i>	<i>1/17/2007</i>
<i>Sample Depth:</i>		<i>0 to 1.5 ft bml</i>	<i>0 to 2 ft bml</i>	<i>0 to 1.5 ft bml</i>	<i>0 to 2 ft bml</i>	<i>0 to 3 ft bml</i>	<i>0 to 3 ft bml</i>	<i>0 to 3 ft bml</i>
<i>elev_MLLW</i>		<i>-1.8 to -3.3</i>	<i>-4.1 to -6.1</i>	<i>-1.8 to -3.3</i>	<i>-9 to -11</i>	<i>-24.39 to -27.39</i>	<i>-27.5 to -30.5</i>	<i>-20.4 to -23.4</i>
<i>elev_NGVD</i>		<i>-8.1 to -9.6</i>	<i>-10.4 to -12.4</i>	<i>-8.1 to -9.6</i>	<i>-15.3 to -17.3</i>	<i>-30.7 to -33.7</i>	<i>-33.8 to -36.8</i>	<i>-26.7 to -29.7</i>
<i>Parameters</i>	<i>Units</i>	<i>PSSCL</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg	63.9	4.44 J	3.35 U	11 U	3.1 UJ	1.9 U	1.7 U
1,1,2-Trichloroethane	µg/kg	9.61 U	7.26 U	9.18 U	10 U	1.2 UJ	0.72 U	0.66 U
1,1-Dichloroethene	µg/kg	9.32 J	1.75 J	2.19 U	9.3 U	2.0 UJ	1.2 U	1.1 U
Carbon tetrachloride	µg/kg	211	62.5	29.2	26	2.0 UJ	1.2 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	4820	2660	439	490	3.6 UJ	2.1 U	2.0 U
cis-1,2-Dichloroethene	µg/kg	217	51.3	4.03 J	7.1 U	40 J	1.6 U	1.5 U
Ethylbenzene	µg/kg	10	-	-	-	-	-	-
Methylene chloride	µg/kg	3.37 U	2.54 U	3.22 U	5.1 U	13 J	6.9 U	18
Tetrachloroethene	µg/kg	57	8110	3780	309	360	21 J	0.81 U
trans-1,2-Dichloroethene	µg/kg	11.2	3.1 J	2.38 U	6.0 U	3.4 UJ	2.0 U	1.9 U
Trichloroethene	µg/kg	494	98.4	24.8	16 J	50 J	1.1 U	0.97 U
Vinyl chloride	µg/kg	14.5	2.1 U	2.65 U	8.7 U	4.2 UJ	2.5 U	2.3 U
<i>Semi-volatile Organic Compounds</i>								
1,2,4-Trichlorobenzene	µg/kg	51	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	22	11.2 U	-	673	300 J	380	4.6 J
Hexachlorobutadiene	µg/kg	11	1500	-	116	460	450	3.8 J
Pentachlorophenol	µg/kg	360	19.3 U	-	168 J	700 J	54 J	R
<i>Metals</i>								
Antimony	µg/kg	150000	-	-	-	-	-	-
Arsenic	µg/kg	57000	9020 J	-	20100	-	10800 J	9300
Cadmium	µg/kg	5100	-	-	-	-	-	18200
Chromium	µg/kg	260000	20500 J	-	33400	-	17600 J	13200
Copper	µg/kg	390000	123000 J	-	133000 J	-	57900 J	26400
Lead	µg/kg	450000	1890000 J	-	721000	-	183000 J	137000
Mercury	µg/kg	590	43.1	-	76.6	-	160 J	150 U
Nickel	µg/kg	140000	80800 J	-	49100	-	22900 J	25200
Silver	µg/kg	6100	-	-	-	-	-	62200
Thallium	µg/kg	-	41.5 J	-	67.4 U	-	98 J	70 J
Zinc	µg/kg	410000	108000 J	-	154000 J	-	96200 J	36000
<i>PCBs</i>								
Total PCBs	µg/kg	300	4.49 UJ	-	4.43 U	-	25 U	15 U
<i>Pesticides</i>								
4,4'-DDD	µg/kg	16	0.266 U	-	0.243 U	3.4 U	4.5 U	2.7 U
4,4'-DDE	µg/kg	9	0.26 U	-	0.238 U	3.4 U	4.0 U	2.4 U
4,4'-DDT	µg/kg	34	0.306 UJ	-	0.28 UJ	3.4 U	1.0 U	0.60 U

**SEDIMENT ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>		<i>NL-29</i>	<i>NL-30</i>	<i>Pier25-1</i>	<i>Pier25-6</i>	<i>Pier25-12</i>	<i>Pier25-13</i>	<i>Pier25-16</i>	
<i>Sample ID:</i>		<i>SE-011807-BS-NL-29-00</i>	<i>E-011907-BS-NL-30-00</i>	<i>E-063005-PIER25-1-00</i>	<i>E-020306-PIER25-6-00</i>	<i>E-020106-PIER25-12-00</i>	<i>E-020206-PIER25-13-00</i>	<i>E-121205-PIER25-16-00</i>	
<i>Sample Date:</i>		<i>1/18/2007</i>	<i>1/19/2007</i>	<i>6/30/2005</i>	<i>2/3/2006</i>	<i>2/1/2006</i>	<i>2/2/2006</i>	<i>12/12/2005</i>	
<i>Sample Depth:</i>		<i>0 to 3 ft bml</i>	<i>0 to 3 ft bml</i>	<i>0.5 to 3 ft bml</i>	<i>0.5 to 2.5 ft bml</i>	<i>0 to 2 ft bml</i>	<i>0 to 2 ft bml</i>	<i>2 to 4 ft bml</i>	
<i>elev_MLLW</i>		<i>-4.5 to -7.5</i>	<i>-23.25 to -26.25</i>	<i>-38.1 to -40.6</i>	<i>-35.8 to -37.8</i>	<i>-39.7 to -41.7</i>	<i>-42.8 to -44.8</i>	<i>-37.5 to -39.5</i>	
<i>elev_NGVD</i>		<i>-10.8 to -13.8</i>	<i>-29.6 to -32.6</i>	<i>-44.4 to -46.9</i>	<i>-42.1 to -44.1</i>	<i>-46 to -48</i>	<i>-49.1 to -51.1</i>	<i>-43.8 to -45.8</i>	
<i>Parameters</i>	<i>Units</i>	<i>PSSCL</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg		2.1 U	1.8 UJ	2.99 U	3.39 U	3.27 U	1.9 U	0.115 U
1,1,2-Trichloroethane	µg/kg		0.80 U	0.70 U	8.21 U	9.29 U	8.96 U	2.3 J	0.102 U
1,1-Dichloroethene	µg/kg		1.3 U	1.2 U	1.96 U	2.22 U	2.14 U	1.2 U	0.127 U
Carbon tetrachloride	µg/kg		1.3 U	1.2 U	2.1 U	2.38 U	2.3 U	1.2 U	0.106 U
Chloroform (Trichloromethane)	µg/kg		2.4 U	2.1 U	1.86 U	2.11 U	2.04 U	2.2 U	0.0675 U
cis-1,2-Dichloroethene	µg/kg		3.5 J	1.6 U	1.89 U	4.54 J	2.06 U	4.5 J	0.259 J
Ethylbenzene	µg/kg	10	-	-	-	-	-	-	-
Methylene chloride	µg/kg		7.6 U	21 J	2.88 U	3.26 U	3.14 U	7.1 U	0.103 U
Tetrachloroethene	µg/kg	57	2.7 J	0.79 U	2.03 U	3.62 J	2.22 U	2.3 J	0.222 U
trans-1,2-Dichloroethene	µg/kg		2.2 U	2.0 U	2.13 U	2.41 U	2.32 U	2.1 U	0.0831 U
Trichloroethene	µg/kg		2.4 J	1.0 U	1.99 U	23.6	2.18 U	2.9 J	0.182 UJ
Vinyl chloride	µg/kg		2.8 U	2.5 U	2.37 U	2.68 U	2.59 U	2.6 U	0.163 J
<i>Semi-volatile Organic Compounds</i>									
1,2,4-Trichlorobenzene	µg/kg	51	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	-	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	22	90	24	2.72	-	62	-	-
Hexachlorobutadiene	µg/kg	11	88	18	3.24 U	-	50	-	-
Pentachlorophenol	µg/kg	360	86 J	4.8 U	1.54 U	-	5.1 U	-	-
<i>Metals</i>									
Antimony	µg/kg	150000	-	-	-	-	-	-	-
Arsenic	µg/kg	57000	4500	7200	1100 U	-	7800	-	-
Cadmium	µg/kg	5100	-	-	-	-	-	-	-
Chromium	µg/kg	260000	30900	16600	20600	-	70700 J	-	-
Copper	µg/kg	390000	31400	38000	17800	-	41600 J	-	-
Lead	µg/kg	450000	2130000	68700	10700 J	-	26700 J	-	-
Mercury	µg/kg	590	370	110	12.6 J	-	95 J	-	-
Nickel	µg/kg	140000	17900	16200 J	7190	-	20600	-	-
Silver	µg/kg	6100	-	-	-	-	-	-	-
Thallium	µg/kg		60 J	73 J	469 U	-	170 U	-	-
Zinc	µg/kg	410000	90700	53000 J	49200 J	-	67300	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	300	1600 U	140 U	37.2	-	15 U	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	16	300 U	26 U	-	-	-	-	-
4,4'-DDE	µg/kg	9	270 U	24 U	-	-	-	-	-
4,4'-DDT	µg/kg	34	66 U	5.9 U	-	-	-	-	-

**SEDIMENT ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-18</i>	<i>Pier25-21</i>	<i>Pier25-22</i>	<i>Pier25-25</i>	<i>Pier25-26</i>	<i>Pier25-28</i>	<i>Pier25-29</i>		
<i>Sample ID:</i>	<i>SE-120805-PIER25-18-00</i>	<i>E-010306-PIER25-21-00</i>	<i>E-011706-PIER25-22-00</i>	<i>E-012006-PIER25-25-00</i>	<i>E-012306-PIER25-26-00</i>	<i>E-012406-PIER25-28-00</i>	<i>E-020606-PIER25-29-00</i>		
<i>Sample Date:</i>	<i>12/8/2005</i>	<i>1/3/2006</i>	<i>1/17/2006</i>	<i>1/20/2006</i>	<i>1/23/2006</i>	<i>1/24/2006</i>	<i>2/6/2006</i>		
<i>Sample Depth:</i>	<i>2 to 4 ft bml</i>	<i>0.5 to 2.5 ft bml</i>	<i>0.5 to 2.5 ft bml</i>	<i>0 to 2 ft bml</i>	<i>1.5 to 3.5 ft bml</i>	<i>0 to 2 ft bml</i>	<i>0 to 2 ft bml</i>		
<i>elev_MLLW</i>	<i>-36.5 to -38.5</i>	<i>-32 to -34</i>	<i>-12.5 to -14.5</i>	<i>-33.6 to -35.6</i>	<i>-9.2 to -11.2</i>	<i>-7.1 to -9.1</i>	<i>-6.6 to -8.6</i>		
<i>elev_NGVD</i>	<i>-42.8 to -44.8</i>	<i>-38.3 to -40.3</i>	<i>-18.8 to -20.8</i>	<i>-39.9 to -41.9</i>	<i>-15.5 to -17.5</i>	<i>-13.4 to -15.4</i>	<i>-12.9 to -14.9</i>		
<i>Parameters</i>	<i>Units</i>	<i>PSSCL</i>							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/kg		1.24 U	2.0 U	1.6 U	2.76 U	1.6 U	3.17 U	2.5 UJ
1,1,2-Trichloroethane	µg/kg		0.48 U	0.79 U	0.60 U	7.57 U	0.60 U	8.7 U	0.96 U
1,1-Dichloroethene	µg/kg		0.79 U	1.3 U	0.99 U	1.81 U	0.99 U	2.08 U	1.6 U
Carbon tetrachloride	µg/kg		0.80 U	1.3 U	1.0 U	1.94 U	1.0 U	2.23 U	1.6 U
Chloroform (Trichloromethane)	µg/kg		1.43 U	2.4 U	1.8 U	1.72 U	1.8 U	1.98 U	2.9 U
cis-1,2-Dichloroethene	µg/kg		11	1.8 U	1.3 U	1.74 U	1.4 U	2 U	2.1 U
Ethylbenzene	µg/kg	10	-	-	-	-	-	-	-
Methylene chloride	µg/kg		4.58 U	7.5 U	5.7 U	2.65 U	5.8 UJ	3.05 U	9.1 U
Tetrachloroethene	µg/kg	57	0.54 U	0.89 U	0.68 U	1.87 U	0.68 U	2.15 U	1.1 U
trans-1,2-Dichloroethene	µg/kg		1.35 U	2.2 U	1.7 U	1.96 U	1.7 U	2.25 U	2.7 U
Trichloroethene	µg/kg		0.71 U	1.2 U	0.89 U	1.84 U	0.89 U	2.11 U	1.4 U
Vinyl chloride	µg/kg		1.68 U	2.8 U	2.1 U	2.19 U	2.1 U	2.51 U	3.4 U
Semi-volatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/kg	51	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	-	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	22	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	11	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	360	-	-	-	-	-	-	-
Metals									
Antimony	µg/kg	150000	-	-	-	-	-	-	-
Arsenic	µg/kg	57000	-	-	-	-	-	-	-
Cadmium	µg/kg	5100	-	-	-	-	-	-	-
Chromium	µg/kg	2600000	-	-	-	-	-	-	-
Copper	µg/kg	3900000	-	-	-	-	-	-	-
Lead	µg/kg	4500000	-	-	-	-	-	-	-
Mercury	µg/kg	590	-	-	-	-	-	-	-
Nickel	µg/kg	1400000	-	-	-	-	-	-	-
Silver	µg/kg	6100	-	-	-	-	-	-	-
Thallium	µg/kg		-	-	-	-	-	-	-
Zinc	µg/kg	410000	-	-	-	-	-	-	-
PCBs									
Total PCBs	µg/kg	300	-	-	-	-	-	-	-
Pesticides									
4,4'-DDD	µg/kg	16	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	9	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	34	-	-	-	-	-	-	-

TABLE 4.25

**SEDIMENT ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>	<i>Pier25-29</i>	<i>Pier25-30</i>	<i>PT-1</i>	<i>PT-1</i>	<i>PT-1</i>	<i>PT-2</i>	<i>PT-2</i>
<i>Sample ID:</i>	<i>SE-020606-PIER25-29-00E-012606-PIER25-30-00E-072303-VSP-PT1-005-072303-VSP-PT1-006-072303-VSP-PT1-007-072303-VSP-PT2-004-072303-VSP-PT2-005</i>						
<i>Sample Date:</i>	<i>2/6/2006</i>	<i>1/26/2006</i>	<i>7/23/2003</i>	<i>7/23/2003</i>	<i>7/23/2003</i>	<i>7/23/2003</i>	<i>7/23/2003</i>
<i>Sample Depth:</i>	<i>2 to 4 ft bml</i>	<i>0 to 2 ft bml</i>	<i>4 to 5 ft bml</i>	<i>5 to 6 ft bml</i>	<i>6 to 7 ft bml</i>	<i>4 to 5 ft bml</i>	<i>5 to 6 ft bml</i>
<i>elev_MLLW</i>	<i>-8.6 to -10.6</i>	<i>-7.8 to -9.8</i>	<i>-45.79 to -46.79</i>	<i>-46.79 to -47.79</i>	<i>-47.79 to -48.79</i>	<i>-45.15 to -46.15</i>	<i>-46.15 to -47.15</i>
<i>elev_NGVD</i>	<i>-14.9 to -16.9</i>	<i>-14.1 to -16.1</i>	<i>-52.1 to -53.1</i>	<i>-53.1 to -54.1</i>	<i>-54.1 to -55.1</i>	<i>-51.5 to -52.5</i>	<i>-52.5 to -53.5</i>
<i>Parameters</i>	<i>Units</i>	<i>PSSCL</i>					
<i>Volatile Organic Compounds</i>							
1,1,2,2-Tetrachloroethane	µg/kg		1.6 U	2.79 U	-	-	-
1,1,2-Trichloroethane	µg/kg		0.61 U	7.65 U	-	-	-
1,1-Dichloroethene	µg/kg		1.0 U	1.83 U	-	-	-
Carbon tetrachloride	µg/kg		1.0 U	1.96 U	-	-	-
Chloroform (Trichloromethane)	µg/kg		1.8 U	1.74 U	-	-	-
cis-1,2-Dichloroethene	µg/kg		1.4 U	1.76 U	-	-	-
Ethylbenzene	µg/kg	10	-	-	-	-	-
Methylene chloride	µg/kg		5.8 U	2.68 U	-	-	-
Tetrachloroethene	µg/kg	57	0.69 U	1.89 U	-	-	20.8
trans-1,2-Dichloroethene	µg/kg		1.7 U	1.98 U	-	-	-
Trichloroethene	µg/kg		0.90 U	1.86 U	-	-	18.9
Vinyl chloride	µg/kg		2.1 U	2.21 U	-	-	-
<i>Semi-volatile Organic Compounds</i>							
1,2,4-Trichlorobenzene	µg/kg	51	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	-	-	-	-	-
Hexachlorobenzene	µg/kg	22	-	19	5.13 U	4.85 U	35.2
Hexachlorobutadiene	µg/kg	11	-	43	2.57 U	2.42 U	394
Pentachlorophenol	µg/kg	360	-	-	-	-	-
<i>Metals</i>							
Antimony	µg/kg	150000	-	-	-	-	-
Arsenic	µg/kg	57000	-	-	-	-	-
Cadmium	µg/kg	5100	-	-	-	-	-
Chromium	µg/kg	260000	-	-	-	-	-
Copper	µg/kg	390000	-	-	-	-	-
Lead	µg/kg	450000	-	-	-	-	-
Mercury	µg/kg	590	-	-	-	-	-
Nickel	µg/kg	140000	-	-	-	-	-
Silver	µg/kg	6100	-	-	-	-	-
Thallium	µg/kg		-	-	-	-	-
Zinc	µg/kg	410000	-	-	-	-	-
<i>PCBs</i>							
Total PCBs	µg/kg	300	-	-	-	-	-
<i>Pesticides</i>							
4,4'-DDD	µg/kg	16	-	-	-	-	-
4,4'-DDE	µg/kg	9	-	-	-	-	-
4,4'-DDT	µg/kg	34	-	-	-	-	-

TABLE 4.25

**SEDIMENT ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>									
<i>Sample ID:</i>		<i>PT-2</i>	<i>PT-3</i>	<i>PT-3</i>	<i>PT-3</i>	<i>PT-4</i>	<i>PT-4</i>	<i>PT-4</i>	<i>PT-5</i>
<i>Sample Date:</i>	S-072303-VSP-PT2-006-072503-VSP-PT3-005-072503-VSP-PT3-006-072503-VSP-PT3-007-072203-VSP-PT4-006-072203-VSP-PT4-005-072203-VSP-PT4-016-072503-VSP-PT5-001	7/23/2003	7/25/2003	7/25/2003	7/25/2003	7/22/2003	7/22/2003	7/22/2003	7/25/2003
<i>Sample Depth:</i>		6 to 7 ft bml	4 to 5 ft bml	5 to 6 ft bml	6 to 7 ft bml	8 to 9 ft bml	9 to 10 ft bml	10 to 11 ft bml	2 to 3 ft bml
<i>elev_MLLW</i>		-47.15 to -48.15	-45.45 to -46.45	-46.45 to -47.45	-47.45 to -48.45	-49.35 to -50.35	-50.35 to -51.35	-51.35 to -52.35	-40.46 to -41.46
<i>elev_NGVD</i>		-53.5 to -54.5	-51.8 to -52.8	-52.8 to -53.8	-53.8 to -54.8	-55.7 to -56.7	-56.7 to -57.7	-57.7 to -58.7	-46.8 to -47.8
<i>Parameters</i>	<i>Units</i>	<i>PSSCL</i>							
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg		-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg		-	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg		-	-	-	-	-	-	-
Carbon tetrachloride	µg/kg		-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg		-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg		-	-	-	-	-	-	-
Ethylbenzene	µg/kg	10	-	-	-	-	-	-	-
Methylene chloride	µg/kg		-	-	-	-	-	-	-
Tetrachloroethene	µg/kg	57	240	219	18	1580	1420	1170	1.94 U
trans-1,2-Dichloroethene	µg/kg		-	-	-	-	-	-	-
Trichloroethene	µg/kg		196 U	230	15.1	981	3610	448	3.78
Vinyl chloride	µg/kg		-	-	-	-	-	-	-
<i>Semi-volatile Organic Compounds</i>									
1,2,4-Trichlorobenzene	µg/kg	51	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	-	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	22	10.3	4.78 U	4.64 U	9.57	68.6	75.4	59
Hexachlorobutadiene	µg/kg	11	131	2.39 U	1.65 J	119	1490	1380	1210
Pentachlorophenol	µg/kg	360	-	-	-	-	-	-	-
<i>Metals</i>									
Antimony	µg/kg	150000	-	-	-	-	-	-	-
Arsenic	µg/kg	57000	-	-	-	-	-	-	-
Cadmium	µg/kg	5100	-	-	-	-	-	-	-
Chromium	µg/kg	260000	-	-	-	-	-	-	-
Copper	µg/kg	390000	-	-	-	-	-	-	-
Lead	µg/kg	450000	-	-	-	-	-	-	-
Mercury	µg/kg	590	-	-	-	-	-	-	-
Nickel	µg/kg	140000	-	-	-	-	-	-	-
Silver	µg/kg	6100	-	-	-	-	-	-	-
Thallium	µg/kg		-	-	-	-	-	-	-
Zinc	µg/kg	410000	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	300	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	16	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	9	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	34	-	-	-	-	-	-	-

**SEDIMENT ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location:</i>									
<i>Sample ID:</i>		<i>PT-6</i>	<i>PT-6</i>	<i>PT-6</i>	<i>PT-6</i>	<i>PT-7</i>	<i>PT-7</i>	<i>PT-7</i>	<i>PT-7</i>
<i>Sample Date:</i>	<i>S-072503-VSP-PT6-001</i>	<i>072503-VSP-PT6-002</i>	<i>072503-VSP-PT6-011</i>	<i>072503-VSP-PT6-005</i>	<i>072403-VSP-PT7-001</i>	<i>072403-VSP-PT7-002</i>	<i>072403-VSP-PT7-011</i>	<i>072403-VSP-PT7-003</i>	<i>072403-VSP-PT7-005</i>
<i>Sample Depth:</i>	<i>7/25/2003</i>	<i>7/25/2003</i>	<i>7/25/2003</i>	<i>7/25/2003</i>	<i>7/24/2003</i>	<i>7/24/2003</i>	<i>7/24/2003</i>	<i>7/24/2003</i>	<i>7/24/2003</i>
<i>elev_MLLW</i>	<i>0 to 1 ft bml</i>	<i>1 to 2 ft bml</i>	<i>1 to 2 ft bml</i>	<i>2 to 3 ft bml</i>	<i>0 to 1 ft bml</i>	<i>1 to 2 ft bml</i>	<i>1 to 2 ft bml</i>	<i>1 to 2 ft bml</i>	<i>2 to 3 ft bml</i>
<i>elev_NGVD</i>	<i>-41.29 to -42.29</i>	<i>-42.29 to -43.29</i>	<i>-42.29 to -43.29</i>	<i>-43.29 to -44.29</i>	<i>-43.78 to -44.78</i>	<i>-44.78 to -45.78</i>	<i>-44.78 to -45.78</i>	<i>-45.78 to -46.78</i>	<i>-45.78 to -46.78</i>
<i>Parameters</i>	<i>-47.6 to -48.6</i>	<i>-48.6 to -49.6</i>	<i>-48.6 to -49.6</i>	<i>-49.6 to -50.6</i>	<i>-50.1 to -51.1</i>	<i>-51.1 to -52.1</i>	<i>-51.1 to -52.1</i>	<i>-52.1 to -53.1</i>	<i>-52.1 to -53.1</i>
<i>Units</i>			<i>(Duplicate)</i>				<i>(Duplicate)</i>		
<i>PSSCL</i>									
<i>Volatile Organic Compounds</i>									
1,1,2,2-Tetrachloroethane	µg/kg	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-	-	-
Ethylbenzene	µg/kg	10	-	-	-	-	-	-	-
Methylene chloride	µg/kg	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/kg	57	1520	316	456	1500	9430	18800 J	15400
trans-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	-	2340	348	451	701	6050 J	3830 J	3420
Vinyl chloride	µg/kg	-	-	-	-	-	-	-	60500
<i>Semi-volatile Organic Compounds</i>									
1,2,4-Trichlorobenzene	µg/kg	51	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	-	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	22	622	52.5	62.7	137	331	26.4 J	334 J
Hexachlorobutadiene	µg/kg	11	3520	454	559	1390	1730	152 J	3660 J
Pentachlorophenol	µg/kg	360	-	-	-	-	-	-	-
<i>Metals</i>									
Antimony	µg/kg	150000	-	-	-	-	-	-	-
Arsenic	µg/kg	57000	-	-	-	-	-	-	-
Cadmium	µg/kg	5100	-	-	-	-	-	-	-
Chromium	µg/kg	260000	-	-	-	-	-	-	-
Copper	µg/kg	390000	-	-	-	-	-	-	-
Lead	µg/kg	450000	-	-	-	-	-	-	-
Mercury	µg/kg	590	-	-	-	-	-	-	-
Nickel	µg/kg	140000	-	-	-	-	-	-	-
Silver	µg/kg	6100	-	-	-	-	-	-	-
Thallium	µg/kg	-	-	-	-	-	-	-	-
Zinc	µg/kg	410000	-	-	-	-	-	-	-
<i>PCBs</i>									
Total PCBs	µg/kg	300	-	-	-	-	-	-	-
<i>Pesticides</i>									
4,4'-DDD	µg/kg	16	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	9	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	34	-	-	-	-	-	-	-

TABLE 4.25

SEDIMENT ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>Sample Location:</i>								
<i>Sample ID:</i>		<i>PT-8</i>	<i>PT-8</i>	<i>PT-8</i>	<i>PT-9</i>	<i>PT-9</i>	<i>PT-9</i>	<i>WW-A1R</i>
<i>Sample Date:</i>		7/23/2003	7/23/2003	7/23/2003	7/23/2003	7/23/2003	7/23/2003	8/21/2012
<i>Sample Depth:</i>		0 to 1 ft bml	1 to 2 ft bml	2 to 3 ft bml	0 to 1 ft bml	1 to 2 ft bml	2 to 3 ft bml	0 to 2 ft BGS
<i>elev_MLLW</i>		-39.35 to -40.35	-40.35 to -41.35	-41.35 to -42.35	-39.15 to -40.15	-40.15 to -41.15	-41.15 to -42.15	-34.18 to -36.18
<i>elev_NGVD</i>		-45.7 to -46.7	-46.7 to -47.7	-47.7 to -48.7	-45.5 to -46.5	-46.5 to -47.5	-47.5 to -48.5	-40.5 to -42.5
<i>Parameters</i>	<i>Units</i>	<i>PSSCL</i>						
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/kg		-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg		-	-	-	-	-	-
1,1-Dichloroethene	µg/kg		-	-	-	-	-	-
Carbon tetrachloride	µg/kg		-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg		-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg		-	-	-	-	-	-
Ethylbenzene	µg/kg	10	-	-	-	-	-	-
Methylene chloride	µg/kg		-	-	-	-	-	-
Tetrachloroethene	µg/kg	57	165	27.7	910 J	579 J	2090 J	2990
trans-1,2-Dichloroethene	µg/kg		-	-	-	-	-	-
Trichloroethene	µg/kg		127	14.9	666 J	451 UJ	816 J	852
Vinyl chloride	µg/kg		-	-	-	-	-	-
<i>Semi-volatile Organic Compounds</i>								
1,2,4-Trichlorobenzene	µg/kg	51	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	22	5.06 J	1800	149	2630	795	165
Hexachlorobutadiene	µg/kg	11	50.9 J	5650	219	14700	571	549
Pentachlorophenol	µg/kg	360	-	-	-	-	-	-
<i>Metals</i>								
Antimony	µg/kg	150000	-	-	-	-	-	-
Arsenic	µg/kg	57000	-	-	-	-	-	-
Cadmium	µg/kg	5100	-	-	-	-	-	-
Chromium	µg/kg	260000	-	-	-	-	-	-
Copper	µg/kg	390000	-	-	-	-	-	-
Lead	µg/kg	450000	-	-	-	-	-	-
Mercury	µg/kg	590	-	-	-	-	-	-
Nickel	µg/kg	140000	-	-	-	-	-	-
Silver	µg/kg	6100	-	-	-	-	-	-
Thallium	µg/kg		-	-	-	-	-	-
Zinc	µg/kg	410000	-	-	-	-	-	-
<i>PCBs</i>								
Total PCBs	µg/kg	300	-	-	-	-	-	29
<i>Pesticides</i>								
4,4'-DDD	µg/kg	16	-	-	-	-	-	-
4,4'-DDE	µg/kg	9	-	-	-	-	-	-
4,4'-DDT	µg/kg	34	-	-	-	-	-	-

**SEDIMENT ANALYTICAL RESULTS SUMMARY - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Notes:

- (1) Site COCs per Tables 3.1 and 3.2 of the Statement of Work (January 2005). Additional non-COC analytical results are presented in the eDAT located in Appendix F.
- (2) Sediment Cleanup Level as per Table 4.5.
- COC Constituent of concern.
BML Below mudline.
MLLW Mean lower low water.
NGVD National geodetic vertical datum.
ug/kg Microgram per kilogram.
NV No cleanup level has been established for this parameter.
500 Concentration exceeds the respective criteria.
-- Not analyzed.
U Not detected at associated concentration.
J Estimated concentration.
R Rejected Data.
Cs Saturated soil criteria.

TABLE 4.26

**SUMMARY OF TOTAL PCB CONCENTRATIONS - SEDIMENT
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg / kg)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg / kg)</i>
<u>Subtidal</u>						
HW-1	SE-012407-BS-HW-1-001	Sediment	0 to 0.33 BML	-48.62 to -48.95		743.65
	SE-012407-BS-HW-1-002	Sediment	0.5 to 2.5 BML	-49.12 to -51.12		35.03
	SE-012407-BS-HW-1-003					
HW-2	SE-012507-BS-HW-2-001	Sediment	0 to 0.33 BML	-48.22 to -48.55		23.48
	SE-012507-BS-HW-2-002	Sediment	0.5 to 2.56 BML	-48.72 to -50.72		92.14
	SE-012507-BS-HW-2-003	Sediment	2.5 to 4.5 BML	-50.72 to -52.72		8.89
HW-3	SE-012207-BS-HW3-001	Sediment	0 to 0.33 BML	-43.12 to -43.45		40.89
	SE-012207-BS-HW3-002	Sediment	0 to 2.0 BML	-43.12 to -45.12		37.23
HW-4	SE-012307-BS-HW-4-001	Sediment	0 to 0.33 BML	-42.32 to -42.65		275.31
	SE-012307-BS-HW-4-002	Sediment	0 to 2.0 BML	-42.32 to -44.32		121.95
5106-2	SE-013006-5106-2-001	Sediment	0 to 2 BML	-50.9 to -52.9	ND 12	
Pier25-1	SE-063005-PIER25-1-001	Sediment	0.5 to 3 BML	-44.4 to -46.9	37.20	
Pier25-13	SE-020206-PIER25-13-001	Sediment	0 to 2 BML	-49.1 to -51.1	ND 15	
WW-A1R	S-082112-MD-WW-AIR-001	Sediment	0 to 2 ft BGS	-40.5 to -42.5	29	117
<u>Intertidal</u>						
5205	Intertidal~5205	Sediment	Surface	NA	350	
5206	Intertidal~5206	Sediment	Surface	NA	3100	
5207	Intertidal~5207	Sediment	Surface	NA	860	
5208	Intertidal~5208	Sediment	Surface	NA	ND 9200	
5209	Intertidal~5209	Sediment	Surface	NA	31000	
5211	Intertidal~5211	Sediment	Surface	NA	ND 42000	
<u>N Landfill</u>						
NL-13	SE-122005-NL-13-001	Sediment	0 to 1.5 BML	-8.1 to -9.6	ND 4.49	
NL-15	SE-121605-NL-15-001	Sediment	0 to 1.5 BML	-8.1 to -9.6	ND 4.43	
NL-24	SE-011207-BS-NL-24-001	Sediment	0 to 3 BML	-30.71 to -33.71	ND 25	101.77
NL-25	SE-011807-ILM-NL-25-001	Sediment	0 to 3 BML	-33.82 to 36.82	ND 15	134.69
NL-26	SE-011707-BS-NL-26-001	Sediment	0 to 3 BML	-26.72 to -29.72	ND 13	129.63
NL-27	SE-011907-BS-NL-27-001	Sediment	0 to 2 BML	-11.32 to -13.32		334.87
NL-29	SE-011807-BS-NL-29-001	Sediment	0 to 3 BML	-10.8 to -13.8	ND 1600	247.49
NL-30	SE-011907-BS-NL-30-001	Sediment	0 to 3 BML	-29.57 to -32.57	ND 140	15.95
<u>Pier 25</u>						
Pier 25A	SE-013007-BI-PIER25A-001	Sediment	0 to 0.33 BML	0.68 to 0.35		5772.23

TABLE 4.26

**SUMMARY OF TOTAL PCB CONCENTRATIONS - SEDIMENT
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Total PCBs (Aroclors) ⁽¹⁾ (µg / kg)</i>	<i>Total PCBs (Congeners) ⁽²⁾ (µg / kg)</i>
	SE-013007-BI-PIER25A-002	Sediment	0 to 3 BML	0.68 to -2.32		6586.34
Pier 25B	SE-013007-BI-PIER25B-001	Sediment	0 to 0.33 BML	-3.82 to -4.15		2439.98
	SE-013007-BI-PIER25B-002	Sediment	2 to 3.5 BML	-5.82 to -7.32		148.73
	SE-013007-BI-PIER25B-003					
Pier 25C	SE-013107-BI-PIER25C-001	Sediment	0 to 0.33 BML	-7.52 to -7.85		1289.82
	SE-013107-BI-PIER25C-002	Sediment	0 to 2 BML	-7.52 to -9.52		575.25
	SE-013107-BI-PIER25C-003	Sediment	2 to 3.5 BML	-9.52 to -11.02		2456.82
Pier 25D	SE-013107-BI-PIER25D-001	Sediment	0 to 0.33 BML	1.98 to 1.65		25985.15
	SE-013107-BI-PIER25D-002	Sediment	0.5 to 2 BML	1.48 to -0.02		1047.62
	SE-013107-BI-PIER25D-003	Sediment	2 to 3.5 BML	-0.02 to -1.52		155.62
<u>Area 5106</u>						
PT-17A	SE-020107-ILM-17A-001	Sediment	0.5 to 2.5 BML	-27.82 to -29.82		34032.95
<u>Embankment Area</u>						
Area 1/2	Area 1 Sediment	Sediment	Surface	--		ND 50
Area 2/3-7	Area 2 Sediment	Sediment	Surface	--		ND 50
Area 3/10-12	Area 3 Sediment	Sediment	Surface	--	440	
Area 4/13-16	Area 4 Sediment	Sediment	Surface	--		ND 50
Area 5/17,18,21	Area 5 Sediment	Sediment	Surface	--		ND 50
Area 6/19,20	Area 6 Sediment	Sediment	Surface	--		ND 50
Area 7/22,23	Area 7 Sediment	Sediment	Surface	--		160
Area 8/24,25	Area 8 Sediment	Sediment	Surface	--	6250	
Area 9/26-28	Area 9 Sediment	Sediment	Surface	--	430	

Notes:

(1) Calculated from the concentrations of 32 congeners using the methodology developed by Frame et al (1998), Spongberg (2004), and Woolcott (2001).

(2) Calculated from PCB aroclors using Method SW-846 8082.

PCB Polychlorinated biphenyl.

BML Below mudline.

BGS Below ground surface.

NGVD National geodetic vertical datum.

µg/kg Microgram per kilogram.

ND Not detected at associated concentration. Concentration shown is the maximum of various non-detect concentrations available for the sample.

 Exceeds cleanup level/criteria for Total PCBs (Sediment: 300 µg/kg)

TABLE 4.27

**SUMMARY OF DIOXIN/FURAN TOXICITY EQUIVALENCY CONCENTRATIONS - SEDIMENT
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Dioxin TEC⁽¹⁾ (ng/Kg)</i>	<i>Furan TEC⁽¹⁾ (ng/Kg)</i>	<i>Total Dioxin/Furan TEC⁽¹⁾ (ng/Kg)</i>
<u>Hylebos Waterway</u>							
HW-1	SE-012407-BS-HW-1-001	Sediment	0 to 0.33 BML	-48.62 to -48.95	0.137	1.197	1.334
HW-1	SE-012407-BS-HW-1-002 SE-012407-BS-HW-1-003	Sediment	0.5 to 2.5 BML	-49.12 to -51.12	0.019	0.496	0.515
HW-2	SE-012507-BS-HW-2-001	Sediment	0 to 0.33 BML	-48.22 to -48.55	0.249	1.865	2.114
HW-2	SE-012507-BS-HW-2-002	Sediment	0.5 to 2.56 BML	-48.72 to -50.72	1.453	11.395	12.848
HW-2	SE-012507-BS-HW-2-003	Sediment	2.5 to 4.5 BML	-50.72 to -52.72	0.057	0.919	0.976
HW-3	SE-012207-BS-HW3-001	Sediment	0 to 0.33 BML	-43.12 to -43.45	0.692	4.367	5.059
HW-3	SE-012207-BS-HW3-002	Sediment	0 to 2.0 BML	-43.12 to -45.12	1.081	5.553	6.634
HW-4	SE-012307-BS-HW-4-001	Sediment	0 to 0.33 BML	-42.32 to -42.65	9.985	53.324	63.309
HW-4	SE-012307-BS-HW-4-002	Sediment	0 to 2.0 BML	-42.32 to -44.32	1.604	12.181	13.785
WW-A1R	S-082112-MD-WW-AIR-001	Sediment	0 to 2 BML	-40.5 to -42.5	4.520	17.348	21.868
<u>N Landfill</u>							
NL-24	SE-011207-BS-NL-24-001	Sediment	0 to 3 BML	-30.71 to -33.71	2.175	20.539	22.714
NL-25	SE-011807-ILM-NL-25-001	Sediment	0 to 3 BML	-33.82 to 36.82	0.350	6.131	6.480
NL-26	SE-011707-BS-NL-26-001	Sediment	0 to 3 BML	-26.72 to -29.72	1.890	14.377	16.267
NL-27	SE-011907-BS-NL-27-001	Sediment	0 to 2 BML	-11.32 to -13.32	3.267	72.803	76.070
NL-29	SE-011807-BS-NL-29-001	Sediment	0 to 3 BML	-10.8 to -13.8	6.741	251.911	258.652
NL-30	SE-011907-BS-NL-30-001	Sediment	0 to 3 BML	-29.57 to -32.57	0.122	6.543	6.665
<u>Pier 25</u>							
Pier 25A	SE-013007-BI-PIER25A-001	Sediment	0 to 0.33 BML	0.68 to 0.35	33.666	23.677	57.343
Pier 25A	SE-013007-BI-PIER25A-002	Sediment	0 to 3 BML	0.68 to -2.32	21.894	30.032	51.926
Pier 25B	SE-013007-BI-PIER25B-001	Sediment	0 to 0.33 BML	-3.82 to -4.15	8.595	17.198	25.793
Pier 25B	SE-013007-BI-PIER25B-002 SE-013007-BI-PIER25B-003	Sediment	2 to 3.5 BML	-5.82 to -7.32	0.327	1.216	1.543
Pier 25C	SE-013107-BI-PIER25C-001	Sediment	0 to 0.33 BML	-7.52 to -7.85	17.428	12.069	29.497
Pier 25C	SE-013107-BI-PIER25C-002	Sediment	0 to 2 BML	-7.52 to -9.52	5.864	5.355	11.219
Pier 25C	SE-013107-BI-PIER25C-003	Sediment	2 to 3.5 BML	-9.52 to -11.02	13.686	12.902	26.588
Pier 25D	SE-013107-BI-PIER25D-001	Sediment	0 to 0.33 BML	1.98 to 1.65	3.955	7.086	11.041
Pier 25D	SE-013107-BI-PIER25D-002	Sediment	0.5 to 2 BML	1.48 to -0.02	1.568	1.578	3.146
Pier 25D	SE-013107-BI-PIER25D-003	Sediment	2 to 3.5 BML	-0.02 to -1.52	0.793	0.891	1.684

SUMMARY OF DIOXIN/FURAN TOXICITY EQUIVALENCY CONCENTRATIONS - SEDIMENT
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location</i>	<i>Sample ID</i>	<i>Matrix</i>	<i>Sample Depth (feet BML/BGS)</i>	<i>Sample Elevation (feet NGVD)</i>	<i>Dioxin TEC⁽¹⁾ (ng/Kg)</i>	<i>Furan TEC⁽¹⁾ (ng/Kg)</i>	<i>Total Dioxin/Furan TEC⁽¹⁾ (ng/Kg)</i>
<u>Area 5106</u>							
PT-17A	SE-020107-ILM-17A-001	Sediment	0.5 to 2.5 BML	-27.82 to -29.82	10.259	501.141	511.400

Notes:

(1)	See Appendix U for TEC calculations.
BML	Below mudline.
BGS	Below ground surface.
NGVD	National geodetic vertical datum.
ng/Kg	Nanogram per kilogram.
TEC	Toxicity Equivalency Concentration.

TABLE 4.28

NATURE AND EXTENT OF CONTAMINATION IN SEDIMENT
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

	Sediment Cleanup Level ⁽¹⁾	Estimated Areal Extent	Maximum Vertical Extent ⁽²⁾	Maximum Concentration			Summary of Exceedance Factors ⁽³⁾					Total Number of Samples Analyzed	
				Conc.	EF	Location	>1 to 10	>10 to 100	>100 to 1,000	> 1000 to 10,000	>10,000		Total
				(µg/kg)									
Volatiles													
1,1,2,2-Tetrachloroethane	NV	--	--	130	--	5106-2	--	--	--	--	--	44	
1,1,2-Trichloroethane	NV	--	--	100	--	5106-2	--	--	--	--	--	44	
1,1-Dichloroethene	NV	--	--	240	--	5106-2	--	--	--	--	--	44	
Benzene	NV	--	--	--	--	--	--	--	--	--	--	0	
Carbon tetrachloride	NV	--	--	211	--	NL-13	--	--	--	--	--	44	
Chloroform	NV	--	--	4,820	--	NL-13	--	--	--	--	--	44	
Ethylbenzene	10	--	--	U	--	--	0	0	0	0	0	15	
Methylene chloride	NV	--	--	230	--	5106-2	--	--	--	--	--	44	
Tetrachloroethene	57	3.1	within 3 feet of mudline	195,000	3,421	PT-7	10	10	5	1	0	26	81
cis-1,2-Dichloroethene	NV	--	--	22,000	--	5106-2	--	--	--	--	--	44	
trans-1,2-Dichloroethene	NV	--	--	340	--	5106-2	--	--	--	--	--	44	
Trichloroethene	NV	--	--	62,000	--	5106-2	--	--	--	--	--	81	
Vinyl chloride	NV	--	--	410	--	5106-2	--	--	--	--	--	44	
Summary of VOCs					3,421	PT-7	10	10	5	1	0	26	573
Semi-Volatiles													
1,2,4-Trichlorobenzene	51	--	within 3 feet of mudline	86	1.7	5209, Area 2/3,7	3	0	0	0	0	3	15
bis(2-Ethylhexyl) phthalate	1300	--	within 3 feet of mudline	1800	1.4	Area 8/24,25	1	0	0	0	0	1	15
Hexachlorobenzene	22	6.1	within 3 feet of mudline	2,630	120	PT-9	15	16	5	0	0	36	53
Hexachlorobutadiene	11	7.1	within 3 feet of mudline	24,300	2,209	PT-7	10	16	12	5	2	45	53
Pentachlorophenol	360	0.05	within 3 feet of mudline	700	1.9	NL-16	1	0	0	0	0	1	26
Summary of SVOCs					2,209	PT-7	30	32	17	5	2	86	162
Pesticides													
4,4'-DDD	16	--	within 3 feet of mudline	2,200	138	Area 4/13-16	1	4	1	0	0	6	23
4,4'-DDE	9	--	within 3 feet of mudline	740	82	Area 4/13-16	0	1	0	0	0	1	23
4,4'-DDT	34	--	--	3	<1	Area 9/26-28	0	0	0	0	0	0	23
Summary of Pesticides					138	Area 4/13-16	1	5	1	0	0	7	69
PCBs													
Total PCBs	300	0.007	within 3 feet of mudline	34,033	113	PT-17A	4	2	1	0	0	7	47
Dioxins/ Furans													
Dioxin-Furan (TEC of 2,3,7,8 tcdd)	NV	--	--	0.511	--	PT-17A	--	--	--	--	--	--	27
Metals													
Antimony	150000	--	--	5,000	<1	Area 1/2	0	0	0	0	0	0	15
Arsenic	57000	--	within 3 feet of mudline	140,000	2.5	Area 4/13-16	5	0	0	0	0	5	25
Cadmium	5100	--	--	3,600	<1	Area 8/24,25	0	0	0	0	0	0	15
Chromium, total ⁽⁶⁾	NV	--	--	160,000	--	Area 8/24,25	--	--	--	--	--	--	25
Copper	390000	0.3	within 3 feet of mudline	2,500,000	6.4	Area 3/10-12	3	0	0	0	0	3	25
Lead	450000	0.8	within 3 feet of mudline	150,000,000	333	Area 4/13-16	6	5	5	0	0	16	25
Mercury	590	--	within 3 feet of mudline	2,100	3.6	5206	3	0	0	0	0	3	25
Nickel	140000	1.1	within 3 feet of mudline	450,000	3.2	Area 6/19,20	4	0	0	0	0	4	25
Silver	6100	--	--	2,000	<1	Areas 1,2,4	0	0	0	0	0	0	15
Thallium	NV	--	--	220	--	NL-26	--	--	--	--	--	--	10
Zinc	140000	--	within 3 feet of mudline	1,500,000	3.7	Area 8/24,25	4	0	0	0	0	4	25
Summary of Metals					333	Area 4/13-16	25	5	5	0	0	35	230

Notes:

- ⁽¹⁾ SCL per Table 4.5
- ⁽²⁾ Greatest depth of concentrations exceeding the SCL for parameter.
- ⁽³⁾ Exceedance factor calculated as the concentration divided by the SCL for parameter.
- µg/kg Microgram per Kilogram.
- sf Square Feet.
- NGVD National Geodetic Vertical Datum.
- NV No established SCL.
- NA Not Applicable.
- PCB Poly-chlorinated Biphenyl.
- EF Exceedance factor.

TABLE 4.29

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - ARMY RESERVE FACILITY
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Parameters	Units	Round One																
		EPA RSL Indoor Air		Soil Gas (Below Slab)		Indoor Air Short-Term	MTCA Indoor Air		Soil Gas (Below Slab)		Indoor Air-17 IA-042213-RB-17 4/23/2013	Indoor Air-18 IA-042213-RB-18 4/22/2013	Indoor Air-22 IA-042213-RB-22 4/23/2013 (Re-sample of IA-18)	Indoor Air-19 IA-042213-RB-19 4/23/2013	Outside Air-18 OA-042313-RB-18 4/24/2013	Sub-Slab Probe-17 SS-042213-RB-17 4/22/2013	Sub-Slab Probe-18 SS-042213-RB-18 4/22/2013	Sub-Slab Probe-19 SS-042213-RB-19 4/22/2013
		C a	NC b	C c	NC d	NC e	C f	NC g	C h	NC i								
Volatile Organic Compounds																		
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.089	0.049	0.072	0.11	0.032 J	1.6	0.19 J	1.2	
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.038 U	0.041 U	0.040 U	0.039 U	0.042 U	0.24 U	0.20 U	0.038 U	
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	0.15 U	0.16 U	0.16 U	0.15 U	0.17 U	0.94 U	0.81 U	0.15 U	
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.010 J	0.041 U	0.040 U	0.039 U	0.042 U	0.24 U	0.20 U	0.038 U	
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	0.038 U	0.041 U	0.040 U	0.039 U	0.042 U	0.24 U	0.20 U	0.038 U	
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	1.3	0.82	0.86	0.80	0.81 J	4.7 U	4.0 U	0.76 U	
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	0.40 J	0.30 J	0.30 J	0.27 J	0.83 U	4.7 U	4.0 U	0.76 U	
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.054	0.14 J	0.15 J	0.16	0.022 J	0.24 U	0.20 U	0.038 U	
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.69 ^f	0.43 ^f	0.67 ^f	0.67 ^f	0.72	0.71 U	0.60 U	0.11 U	
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.51 ^f	0.31	0.46 ^f	0.46 ^f	0.48	1.6	1.9	6.5 ^h	
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	0.11 J	0.13 ^f	0.14 ^f	0.18 ^f	0.089 J	0.25 J	0.54 J	0.79	
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	0.038 U	0.041 U	0.040 U	0.039 U	0.042 U	0.24 U	0.20 U	0.038 U	
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	1.4	1.4	0.94	1.1	1.1	0.045 J	0.047 J	0.049 J	
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	0.038 U	0.041 U	0.040 U	0.039 U	0.042 U	0.24 U	0.20 U	0.038 U	
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	4.9	5.3	3.2	3.9	3.8	0.15 J	0.15 J	0.20	
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	0.91 U	0.82 U	0.80 U	0.77 U	0.83 U	4.7 UJ	4.0 UJ	0.76 UJ	
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	0.62 ^a	0.081 J	0.17	0.095 J	0.077 J	0.94 U	0.81 U	0.057 J	
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	1.7	1.6	1.2	1.3	1.3	0.050 J	0.056 J	0.065 J	
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	0.40 J	0.82 U	0.80 U	0.23 J	0.83 U	4.7 U	4.0 U	0.76 U	
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	0.21	0.23	0.36	0.60	0.14 J	0.70	5.0	5.4	
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	4.9	1.2	2.2	2.5	2.1	0.94 U	0.81 U	0.27 J	
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.050	0.041 U	0.040 U	0.017 J	0.042 U	0.24 U	0.20 U	0.038 U	
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	0.074	0.054	0.033 J	0.045	0.033 J	0.084 J	1.3	0.23	
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	0.095	0.072	0.066	0.11	0.042 U	0.24 U	0.20 U	0.038 U	

Notes:

- J Estimated concentration.
- U Not detected above the associated reporting limit.
- UJ Not detected; associated reporting limit is estimated.
- No criteria value established for parameter.
- 0.69^f Result exceeds criteria identified in superscript.
- Reporting limit for non-detect parameter in IA sample exceeds applicable IA screening level.
- (1) Most recent, shallowest, and nearby data.

TABLE 4.29

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - ARMY RESERVE FACILITY
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Parameters	Units	Round Three																	
		EPA RSL		Soil Gas (Below Slab)		Indoor Air Short-Term	MTCA Indoor Air		Soil Gas (Below Slab)		Indoor Air-17	Indoor Air-18	Indoor Air-19	Indoor Air-19P	Indoor Air-29	Indoor Air-30	Indoor Air-31	Outside Air-18	Outside Air-18P
		C	NC	C	NC	NC	C	NC	C	NC	C	C	C	C	C	C	C	C	C
	a	b	c	d	e	f	g	h	i	IA-031314-NH-17 3/14/2014	IA-031314-NH-18 3/14/2014	IA-031314-MD-19 3/14/2014	IA-031814-RB-19p 3/18/2014	IA-031314-MD-29 3/14/2014	IA-031414-RB-30 3/15/2014	IA-031414-RB-31 3/15/2014	OA-031314-MD-18 3/14/2014	OA-031814-RB-18p 3/18/2014	
Volatile Organic Compounds																			
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.064	0.028 J	0.067	0.049	0.047	0.058	0.080	0.021 J	0.027	
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.035 U	0.036 U	0.038 U	-	0.037 U	0.037 U	0.042 U	0.038 U	-	
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	0.14 U	0.15 U	0.15 U	-	0.15 U	0.15 U	0.17 U	0.15 U	-	
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.035 U	0.036 U	0.038 U	-	0.037 U	0.037 U	0.042 U	0.038 U	-	
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	0.035 U	0.067	0.038 U	-	0.020 J	0.037 U	0.042 U	0.038 U	-	
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	1.1	0.72	0.51	0.27	0.82	1.0	0.98	0.22	0.16	
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	0.35	0.21	0.14 J	-	0.25	0.28	0.27	0.062 J	-	
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.061	0.059	0.089	0.093	0.054	0.024 J	0.025 J	0.023 J	0.030	
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	1.1 ^f	0.87 ^f	0.80 ^f	0.64 ^f	0.96 ^f	1.2 ^f	1.1 ^f	0.62	0.75	
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.47 ^f	0.43 ^f	0.48 ^f	-	0.47 ^f	0.42	0.43 ^f	0.48	-	
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	0.10 J	0.10 J	0.094 J	-	0.098 J	0.096 J	0.10 J	0.082 J	-	
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	0.033 J	0.040	0.040	-	0.030 J	0.079	0.080	0.027 J	-	
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	1.2	1.0	0.82	1.0	1.1	1.8	1.8	0.74	1.1	
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	0.035 U	0.036 U	0.038 U	-	0.037 U	0.037 U	0.042 U	0.038 U	-	
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	4.3	3.9	3.0	3.8	4.1	7.4	6.7	2.8	4.0	
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	0.50	0.41	0.36	-	0.60	0.32	0.60	0.40	-	
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	0.35	0.28	0.17	-	0.32	0.90 ^a	0.29	0.10 J	-	
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	1.5	1.3	1.0	1.2	1.4	2.1	2.0	0.93	1.2	
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	0.47	0.40	0.24	0.15	0.39	0.22	0.30	0.17	0.13	
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	0.19	0.29	0.20	0.16	0.55	0.16	0.32	0.18	0.16	
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	4.8	2.9	2.5	2.2	4.1	4.2	4.4	3.1	1.8	
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.035 U	0.036 U	0.011 J	-	0.037 U	0.011 J	0.013 J	0.038 U	-	
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	0.076	0.099	0.13	0.095	0.30	2.6 ^{fg}	2.9 ^{fg}	0.073	0.076	
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	0.049	0.026 J	0.038	-	0.042	0.040	0.042	0.012 J	-	

Notes:

- J Estimated concentration.
- U Not detected above the associated reporting limit.
- UJ Not detected; associated reporting limit is estimated.
- No criteria value established for parameter.
- 0.69^f Result exceeds criteria identified in superscript.
- Reporting limit for non-detect parameter in IA sample exceeds applicable IA screening level.
- (1) Most recent, shallowest, and nearby data.

TABLE 4.29

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - ARMY RESERVE FACILITY
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Parameters	Units	Round Three										Groundwater Sample (1)					
		EPA RSL Indoor Air		Soil Gas (Below Slab)		Indoor Air Short-Term	MTCA Indoor Air		Soil Gas (Below Slab)		Outside Air-30 OA-031414-RB-30 3/15/2014	Sub-Slab Probe-17 SS-031314-NH-17 3/13/2014	Sub-Slab Probe-18 SS-031314-NH-18 3/13/2014	Sub-Slab Probe-19 SS-031314-MD-19 3/13/2014	Sub-Slab Probe-29 SS-031314-MD-29 3/13/2014	Sub-Slab Probe-30 SS-031414-NH-30 3/14/2014	77C-25 WG-071612-DJT-77C-25-126 7/16/2012 25 ft BGS (µg/L)
		C a	NC b	C c	NC d	NC e	C f	NC g	C h	NC i							
Volatile Organic Compounds																	
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.022 J	1.0	0.16	0.91	0.60	1.8	-	
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.036 U	0.20 U	0.037 U	0.19 U	0.038 U	0.034 U	0.50 U	
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	0.14 U	0.79 U	0.15 U	0.78 U	0.15 U	0.14 U	-	
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.036 U	0.20 U	0.037 U	0.19 U	0.010 J	0.021 J	0.50 U	
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	0.036 U	0.20 U	0.037 U	0.19 U	0.038 U	0.034 U	-	
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	0.27	0.084 J	0.029 J	0.78 U	0.097 J	0.061 J	-	
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	0.087 J	0.79 U	0.15 U	0.78 U	0.035 J	0.017 J	-	
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.023 J	0.20 U	0.014 J	0.19 U	0.036 J	0.018 J	-	
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.62	0.59 U	0.11 U	0.58 U	0.65	0.20	0.50 U	
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.45	1.2	1.8	2.3	2.0	1.6	0.50 U	
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	0.085 J	0.18 J	0.49	0.35 J	0.48	2.1 ^h	0.50 U	
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	0.098	0.20 U	0.037 U	0.19 U	0.033 J	0.0089 J	3.4	
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	1.6	0.081 J	0.039 J	0.78 U	0.087 J	0.067 J	0.50 U	
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	0.036 U	0.20 U	0.037 U	0.19 U	0.038 U	0.034 U	-	
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	6.5	0.23 J	0.13 J	0.15 J	0.31	0.27	0.11 J	
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	0.31	0.79 U	0.15 U	0.78 U	0.33	0.14 U	2.0 U	
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	0.14 J	0.14 J	0.087 J	0.19 J	0.096 J	0.12 J	-	
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	1.8	0.098 J	0.047 J	0.072 J	0.15 J	0.11 J	0.50 U	
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	0.16	0.79 U	0.15 U	0.78 U	0.093 J	0.059 J	-	
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	0.13	1.0	4.5	5.1	3.4	30	0.64	
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	2.1	1.1	1.5	2.6	0.40	0.12 J	0.090 J	
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.012 J	0.20 U	0.012 J	0.19 U	0.016 J	0.034 U	0.26 J	
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	0.17	0.42	1.6	0.45	0.37	100 ^{cdhi}	2.3	
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	0.044	0.20 U	0.037 U	0.19 U	0.038 U	0.034 U	0.21 J	

Notes:

- J Estimated concentration.
- U Not detected above the associated reporting limit.
- UJ Not detected; associated reporting limit is estimated.
- No criteria value established for parameter.
- 0.69^f Result exceeds criteria identified in superscript.
- Reporting limit for non-detect parameter in IA sample exceeds applicable IA screening level.
- (1) Most recent, shallowest, and nearby data.

TABLE 4.30

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 326
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Parameters	Units											Round One				
		EPA RSL		Soil Gas (Below Slab)		Indoor Air	MTCA		Soil Gas (Below Slab)		Indoor Air-7	Indoor Air-8	Indoor Air-8	Outside Air-7	Sub-Slab Probe-7	
		Indoor Air		Soil Gas (Below Slab)		Short-Term	Indoor Air		Soil Gas (Below Slab)		IA-042313-RB-7	FD-042313-RB-8	IA-042313-RB-8	OA-042313-RB-7	SS-042313-RB-7	
		C	NC	C	NC	NC	C	NC	C	NC	4/24/2013	4/24/2013	4/24/2013	4/24/2013	4/24/2013	
	a	b	c	d	e	f	g	h	i							
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.032 J	0.030 J	0.029 J	0.028 J	1.2		
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.039 U	0.035 U	0.036 U	0.040 U	0.039 U		
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	0.16 U	0.14 U	0.14 U	0.16 U	0.16 U		
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.022 J	0.040	0.042	0.040 U	0.012 J		
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	0.039 U	0.035 U	0.036 U	0.040 U	0.039 U		
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	4.7 ^b	1.0	0.98	1.2	0.78 U		
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	1.5	0.31 J	0.32 J	0.38 J	0.78 U		
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.14 J	2.0 ^a	1.9 ^a	0.038 J	0.035 J		
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.71 ^f	0.68 ^f	0.76 ^f	0.76	0.12 U		
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.45 ^f	0.48 ^f	0.44 ^f	0.47	0.14		
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	0.19 ^f	0.26 ^f	0.26 ^f	0.095 J	0.15 J		
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	0.039 U	0.035 U	0.036 U	0.040 U	0.039 U		
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	1.0	1.4	1.2	0.77 J	0.043 J		
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	0.039 U	0.035 U	0.036 U	0.040 U	0.026 J		
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	2.9	4.3	3.7	2.3	0.13 J		
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	0.78 U	0.69 U	0.72 U	0.79 U	0.78 U		
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	0.16	0.21	0.23	0.15 J	0.087 J		
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	1.1	1.8	1.3	0.89	0.035 J		
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	0.35 J	0.45 J	0.51 J	0.79 U	0.78 U		
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	4.1	0.66	0.63	0.13 J	12		
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	2.6	3.2	3.9	2.6	0.26 J		
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.039 U	0.035 U	0.051	0.040 U	0.039 U		
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	3.9 ^{a fg}	0.45	0.44	0.024 J	10 ^{hi}		
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	0.0042 J	0.0060 J	0.0057 J	0.040 U	0.039 U		

Notes:

- J Estimated concentration.
 U Not detected above the associated reporting limit.
 - No criteria value established for parameter.
4.7^b Result exceeds criteria identified in superscript.
 (1) Most recent, shallowest, and nearby data.

TABLE 4.30

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 326
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Parameters	Units											Round Two					Groundwater Sample (1)
		EPA RSL		Soil Gas (Below Slab)		Indoor Air Short-Term	MTCA Indoor Air		Soil Gas (Below Slab)		Indoor Air-7	Indoor Air-8	Indoor Air-28	Outside Air-7B	Sub-Slab Probe-7	34-25R	
		C	NC	C	NC	NC	C	NC	C	NC	IA-070113-JW-7	IA-070113-JW-8	IA-070113-JW-28	OA-070113-JW-7	SS-062513-JW-7	WG-082012-AMK-34-25R-052	
		a	b	c	d	e	f	g	h	i	7/1/2013	7/1/2013	7/1/2013	7/1/2013	6/25/2013	8/20/2012	
Volatile Organic Compounds																	
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.050 U	0.050 U	0.050 U	0.050 U	1.6	-		
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	-	-	-	-	0.037 J	25 U		
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	-	-	-	-	0.15 U	-		
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	-	-	-	-	0.019 J	15 J		
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	-	-	-	-	0.039 U	-		
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	16 ^b	1.8	10 ^b	0.71	0.77 U	-		
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	-	-	-	-	0.77 U	-		
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	1.3 ^a	58 J ^a	2.2 ^a	0.61	0.063	-		
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.65 ^f	0.64 ^f	0.64 ^f	0.48	0.16	25 U		
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	-	-	-	-	0.14	25 U		
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	-	-	-	-	0.37	25 U		
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	-	-	-	-	0.039 U	840		
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	4.1	6.9 ^a	4.0	4.8	0.12 J	25 U		
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	-	-	-	-	0.039 U	-		
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	16	29	15	21	0.34	25 U		
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	-	-	-	-	0.37	11 J		
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	-	-	-	-	0.33	-		
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	5.6	9.5	5.0	6.8	0.17	25 U		
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	1.9	1.2	2.1	0.52	0.30 J	-		
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	6.9	0.79	4.9	0.082	15	25 U		
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	3.9	3.1	4.0	1.7	0.34	25 U		
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	-	-	-	-	0.020 J	290		
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	3.1 ^{afg}	0.30	2.0 ^{fg}	0.037 U	14 ^{hi}	25 U		
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	-	-	-	-	0.0051 J	56		

Notes:

- J Estimated concentration.
- U Not detected above the associated reporting limit.
- No criteria value established for parameter.
- 4.7^b Result exceeds criteria identified in superscript.
- (1) Most recent, shallowest, and nearby data.

TABLE 4.31
SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 407
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

										Round One								
										Indoor Air-6	Indoor Air-9	Indoor Air-10	Indoor Air-20	Outside Air-9	Sub-Slab Probe-6	Sub-Slab Probe-9	Sub-Slab Probe-10	
										IA-041813-RB-06	IA-041813-RB-09	IA-041813-RB-10	IA-041813-RB-20	OA-041813-RB-09	SS-041813-SL-6	SS-041813-SL-9	SS-041813-RB-10	
										4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/18/2013	4/18/2013	4/18/2013	
Parameters	Units	EPA RSL		Indoor Air			MTCA		Soil Gas (Below Slab)									
		Indoor Air		Soil Gas (Below Slab)		Short-Term	Indoor Air		Soil Gas (Below Slab)									
		C	NC	C	NC	NC	C	NC	C	NC								
		a	b	c	d	e	f	g	h	i								
Volatile Organic Compounds																		
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.025 J	0.027 J	0.027 J	0.026 J	0.024 J	0.35	0.88	0.030 J	
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.036 U	0.037 U	0.042 U	0.035 U	0.037 U	0.036 U	0.036 U	0.037 U	
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	0.15 U	0.15 U	0.17 U	0.011 J	0.15 U	0.14 U	0.14 U	0.15 U	
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.036 U	0.037 U	0.042 U	0.0049 J	0.037 U	0.0067 J	0.0074 J	0.037 U	
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	0.036 U	0.037 U	0.042 U	0.035 U	0.037 U	0.036 U	0.036 U	0.037 U	
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	53 ^{bg}	56 ^{bg}	6.0 ^g	16 ^g	0.65 J	0.31 J	0.68 J	0.74 U	
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	17	17	1.9	4.7	0.74 U	0.71 U	0.71 U	0.74 U	
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.036 U	0.022 J	0.026 J	0.032 J	0.037 U	0.036 U	0.018 J	0.037 U	
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.60 ^f	0.95 ^f	0.82 ^f	0.99 ^f	0.40	0.11 U	0.11 U	0.11 U	
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.35	0.46 ^f	0.46 ^f	0.45 ^f	0.45	0.14 J	0.25	0.34	
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	0.11 J	0.15 U	0.12 J ^f	0.11 J	0.075 J	0.011 J	0.028 J	0.11 J	
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	0.036 U	0.037 U	0.042 U	0.016 J	0.037 U	0.036 U	0.036 U	0.037 U	
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	3.0	3.4	1.3	4.3	0.21	0.044 J	0.057 J	0.043 J	
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	0.036 U	0.037 U	0.042 U	0.035 U	0.037 U	0.34	1.7 ^h	0.26	
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	13	15	5.4	18	0.78	0.15	0.21	0.14 J	
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	0.73 U	0.74 U	0.84 U	0.71 UJ	0.74 U	0.71 U	0.71 U	0.74 U	
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	0.17	0.24	0.54 ^a	0.31	0.047 J	0.077 J	1.2	0.059 J	
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	7.6	7.8	2.0	6.1	0.29 J	0.068 J	0.097 J	0.079 J	
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	88	83	6.1	18	0.64 J	1.0	0.62 J	0.74 U	
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	0.062	0.24	0.12	0.15	0.082	63	2.8	0.53	
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	8.3	8.2	6.3	13	1.0	0.44 J	0.33 J	0.20	
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.036 U	0.037 U	0.042 U	0.024 J	0.037 U	0.036 U	0.036 U	0.037 U	
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	0.040	0.052	0.047	0.085	0.013 J	0.31	0.15	0.14	
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	0.036 U	0.037 U	0.042 U	0.0036 J	0.037 U	0.036 U	0.036 U	0.037 U	

Notes:

- J Estimated concentration.
- U Not detected above the associated reporting limit.
- UJ Not detected; associated reporting limit is estimated.
- No criteria value established for parameter.
- 53^{bg} Result exceeds criteria identified in superscript.
- Reporting limit for non-detect parameter in IA sample exceeds applicable IA screening level.
- (1) Most recent, shallowest, and nearby data.

TABLE 4.31

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 407
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Parameters	Units	Round Three																		
		EPA RSL Indoor Air		Soil Gas (Below Slab)		Indoor Air Short-Term	MTCA Indoor Air		Soil Gas (Below Slab)		Indoor Air-6 IA-031814-NH-06 3/19/2014	Indoor Air-6P IA-031914-RB-06p 3/19/2014	Indoor Air-6P IA-031914-RB-FD3p 3/19/2014 (Duplicate)	Indoor Air-9 IA-031814-NH-09 3/19/2014	Indoor Air-10 IA-031814-NH-10 3/19/2014	Indoor Air-20A IA-031814-NH-20 3/19/2014	Indoor Air-37 IA-031814-NH-37 3/19/2014	Indoor Air-38 IA-031814-NH-38 3/19/2014	Indoor Air-39 IA-031814-NH-39 3/19/2014	Outside Air-6 OA-031814-NH-06 3/19/2014
		C	NC	C	NC	NC	C	NC	C	NC										
		a	b	c	d	e	f	g	h	i										
Volatile Organic Compounds																				
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.023 J	0.020	0.019 J	0.022 J	0.021 J	0.021 J	0.021 J	0.14 U	0.021 J	0.020 J	
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.035 U	-	-	0.035 U	0.037 U	0.041 U	0.038 U	0.14 U	0.039 U	0.039 J	
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	0.14 U	-	-	0.14 U	0.15 U	0.16 U	0.15 U	0.57 U	0.16 U	0.17 U	
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.035 U	-	-	0.035 U	0.037 U	0.041 U	0.038 U	0.14 U	0.039 U	0.041 U	
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	0.035 U	-	-	0.035 U	0.037 U	0.041 U	0.038 U	0.14 U	0.039 U	0.041 U	
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	86 ^{bg}	8.5 J ^g	8.3 J ^g	70 ^{bg}	9.4 ^g	12 ^g	340 ^{bg}	730 ^{bg}	7.0 ^g	5.1	
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	28	-	-	20	2.5	3.4	120	340	2.4	1.7 J	
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.026 J	0.037 J	0.034 J	0.021 J	0.047	0.046	0.026 J	0.14 U	0.017 J	0.034 J	
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	1.0 ^f	1.0 ^f	0.97 J ^f	1.1 ^f	1.3 ^f	1.3 ^f	1.2 ^f	1.3 ^f	0.95 ^f	0.66	
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.46 ^f	-	-	0.47 ^f	0.46 ^f	0.47 ^f	0.46 ^f	0.17	0.39	0.47	
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	0.085 J	-	-	0.082 J	0.082 J	0.090 J	0.085 J	0.083 J	0.081 J	0.12 J	
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	0.012 J	-	-	0.010 J	0.022 J	0.040 J	0.011 J	0.14 U	0.017 J	0.057	
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	6.1 ^a	5.6 J ^a	5.4 J ^a	12 ^a	5.3 ^a	3.0	21 ^a	36 ^a	2.9	1.0	
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	0.035 U	-	-	0.035 U	0.037 U	0.041 U	0.038 U	0.14 U	0.039 U	0.041 U	
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	19	14 J	14 J	41	18	9.8	71	150	11	3.5	
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	0.33	-	-	0.42	0.49	0.34	0.39	0.57 U	0.39	0.38	
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	0.56 ^a	-	-	0.94 ^a	0.34	1.7 ^{ag}	3.8 ^{ag}	19 ^{ag}	0.24	0.13 J	
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	9.5	6.9 J	6.7 J	20	5.5	3.7	44	90 ^g	3.5	1.3	
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	20	25 J	24 J	31	1.6	3.2	220	1400 ^g	1.6	1.7	
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	0.24	0.29 J	0.28 J	0.18	0.32	0.32	0.19	0.35	0.20	0.42	
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	3.3	5.2 J	5.0 J	3.4	4.7	4.5	6.4	16	3.4	1.9	
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.035 U	-	-	0.035 U	0.037 U	0.041 U	0.038 U	0.14 U	0.039 U	0.041 U	
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	0.087	0.031	0.030 J	0.066	0.14	0.14	0.059	0.077 J	0.074	0.80	
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	0.011 J	-	-	0.035 U	0.049	0.012 J	0.011 J	0.14 U	0.019 J	0.041 U	

Notes:
 J Estimated concentration.
 U Not detected above the associated reporting limit.
 UJ Not detected; associated reporting limit is estimated.
 - No criteria value established for parameter.
 53^{bg} Result exceeds criteria identified in superscript.
 Reporting limit for non-detect parameter in IA sample exceeds applicable IA screening level.
 (1) Most recent, shallowest, and nearby data.

TABLE 4.31

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 407
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Parameters	Units	Round Three										Groundwater Samples (1)						
		EPA RSL Indoor Air		Soil Gas (Below Slab)		Indoor Air Short-Term	MTCA Indoor Air		Soil Gas (Below Slab)		Outside Air-6 OA-031814-NH-FD2 3/19/2014 (Duplicate)	Outside Air-6P OA-031914-RB-06p 3/19/2014	Sub-Slab Probe-6 SS-031814-NH-06 3/18/2014	Sub-Slab Probe-9 SS-031814-NH-09 3/18/2014	Sub-Slab Probe-10 SS-031814-MD-10 3/18/2014	Sub-Slab Probe-37 SS-031814-MD-37 3/18/2014	85C-25 WG-072012-DJT-85C-25-153 7/20/2012 25 ft BGS (µg/L)	91C-25 WG-071812-BW-91C-25-189 7/18/2012 25 ft BGS (µg/L)
		C	NC	C	NC	NC	C	NC	C	NC								
		a	b	c	d	e	f	g	h	i								
Volatile Organic Compounds																		
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.021 J	0.022	0.32	0.79	0.030 J	4.1	-	-	
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.039 U	-	0.034 U	0.037 U	0.039 U	0.033 U	0.50 U	0.50 U	
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	0.15 U	-	0.14 U	0.15 U	0.16 U	0.13 U	-	-	
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.039 U	-	0.034 U	0.037 U	0.039 U	0.060	0.50 U	0.50 U	
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	0.039 U	-	0.034 U	0.037 U	0.039 U	0.033 U	-	-	
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	6.0	0.44	0.64	0.33	0.049 J	32	-	-	
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	2.1 J	-	0.20	0.12 J	0.016 J	8.6	-	-	
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.025 J	0.038	0.013 J	0.033 J	0.024 J	0.19	-	-	
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.68	0.62	0.11	0.32	0.11 J	0.43	0.50 U	0.50 U	
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.47	-	0.15	0.27	0.32	0.16	0.50 U	0.50 U	
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	0.10 J	-	0.0095 J	0.034 J	0.047 J	0.042 J	0.50 U	0.080 J	
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	0.037 J	-	0.034 U	0.037 U	0.039 U	0.0084 J	0.78	0.50 U	
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	1.1	1.1	0.080 J	0.068 J	0.081 J	1.3	0.50 U	0.080 J	
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	0.039 U	-	0.034 U	0.037 U	0.039 U	0.033 U	-	-	
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	4.1	4.1	0.16	0.25	0.23	3.3	0.50 U	0.24 J	
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	0.34	-	0.14 U	0.15 U	0.24	2.9	2.0 U	2.0 U	
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	0.19	-	0.11 J	0.26	0.066 J	2.4	-	-	
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	1.5	1.2	0.084 J	0.11 J	0.093 J	1.6	0.50 U	0.21 J	
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	1.9	2.7	0.13 J	0.53	0.078 J	8.9	-	-	
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	0.37	0.15	57	0.69	0.49	7.1	0.50 U	0.50 U	
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	1.8	1.6	0.14 U	0.19	0.42	6.1	0.50 U	0.17 J	
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.039 U	-	0.034 U	0.037 U	0.039 U	0.013 J	0.50 U	0.50 U	
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	0.51	0.021	0.10	0.022 J	0.080	0.40	0.50 U	0.50 U	
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	0.039 U	-	0.034 U	0.037 U	0.039 U	0.033 U	0.50 U	0.40 J	

Notes:

- J Estimated concentration.
- U Not detected above the associated reporting limit.
- UJ Not detected; associated reporting limit is estimated.
- No criteria value established for parameter.
- 53^{bg} Result exceeds criteria identified in superscript.
- Reporting limit for non-detect parameter in IA sample exceeds applicable IA screening level.
- (1) Most recent, shallowest, and nearby data.

TABLE 4.32

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 532
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

										Round One											
										Indoor Air-11	Indoor Air-12	Indoor Air-13	Outside Air-11	Outside Air-11	Outside Air-11B	Sub-Slab Probe-11	Sub-Slab Probe-12	Sub-Slab Probe-13			
										IA-042513-RB-11	IA-041913-RB-12	IA-041913-RB-13	FD-041913-RB-11	OA-041913-RB-11	OA-042513-RB-11	SS-042513-RB-11	SS-041913-SL-12	SS-041913-SL-13			
										4/26/2013	4/20/2013	4/20/2013	4/20/2013	4/20/2013	4/26/2013	4/25/2013	4/19/2013	4/19/2013			
										(Duplicate)											
Parameters	Units	EPA RSL Indoor Air		Soil Gas (Below Slab)			Indoor Air Short-Term		MTCA Indoor Air		Soil Gas (Below Slab)										
		C	NC	C	NC	NC	C	NC	C	NC	C	NC									
		a	b	c	d	e	f	g	h	i											
Volatile Organic Compounds																					
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	-	2286	-	22857	0.024 J	0.032 J	0.034 J	0.023 J	0.023 J	0.025 J	0.50	4.2	24		
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	-	0.43	-	0.038 U	0.046 U	0.039 U	0.035 U	0.035 U	0.041 U	0.039 U	0.041 U	0.043 U		
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	-	1.6	-	0.15 U	0.18 U	0.16 U	0.027 J	0.14 U	0.16 U	0.15 U	0.16 U	0.17 U		
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	-	914	0.038 U	0.046 U	0.039 U	0.013 J	0.035 U	0.041 U	0.039 U	0.058	0.31		
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	-	9.1	0.038 U	0.046 U	0.039 U	0.026 J	0.035 U	0.041 U	0.039 U	0.041 U	0.043 U		
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	-	32	0.60 J	1.3	1.1	0.69 U	0.69 U	0.42 J	0.77 U	0.82 U	0.86 U		
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	-	0.76 U	0.39 J	0.36 J	0.69 U	0.69 U	0.82 U	0.77 U	0.82 U	0.86 U		
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	-	3657	0.13 J	5.4 ^a	1.6 ^a	0.060 J	0.039 J	0.15 J	0.039 U	0.13 J	0.046		
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	137	0.63 ^f	0.71 ^f	0.74 ^f	0.29	0.34	0.49	0.12 U	0.12	0.13 U		
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	457	0.40	0.44 ^f	0.45 ^f	0.39	0.46	0.45	0.66	0.16	0.064		
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	-	0.082 J	0.096 J	0.078 J	0.083 J	0.071 J	0.080 J	0.049 J	0.070 J	0.045 J		
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	-	0.020 J	0.046 U	0.039 U	0.046 J	0.035 UJ	0.054	0.039 U	0.041 U	0.043 U		
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	-	4571	1.7	4.7	5.1 ^a	0.22 J	0.26 J	0.96	0.027 J	0.34 J	0.078 J		
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	-	0.038 U	0.046 U	0.039 U	0.035 U	0.035 U	0.041 U	0.039 U	0.89	0.022 J		
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	-	6.9	20	22	0.86	0.99	0.087 J	1.4	0.33			
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	2743	0.84 U	0.92 UJ	0.78 UJ	0.69 UJ	0.69 UJ	0.82 U	0.77 U	0.82 U	0.86 UJ		
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	14	0.23	0.17 J	0.20	0.073 J	0.070 J	0.056 J	0.15 U	0.092 J	0.85		
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	457	2.3	5.0	5.6	0.27 J	0.31 J	1.0	0.030 J	0.40 J	0.087 J		
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	4571	0.34 J	0.32 J	0.28 J	0.69 U	0.69 U	0.82 U	0.77 U	0.82 U	0.86 U		
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	183	0.18	1.5	1.8	0.16 J	0.062 J	0.12 J	3.2	27	20		
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	22857	21	55	59	1.4	1.9	5.9	1.2	5.0	1.2		
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	274	0.034 J	0.046 U	0.039 U	0.043 J	0.035 UJ	0.041 U	0.039 U	0.041 U	0.043 U		
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	9.1	0.10	0.34	0.86 ^f	0.085 J	0.023 J	0.068	0.27	0.37	24 ^{hi}		
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	457	0.011 J	0.046 U	0.039 U	0.014 J	0.035 U	0.017 J	0.039 U	0.041 U	0.043 U		

Notes:
 J Estimated concentration.
 U Not detected above the associated reporting limit.
 - No criteria value established for parameter.
 0.63^f Result exceeds criteria identified in superscript.
 Reporting limit for non-detect parameter in IA sample exceeds applicable IA screening level.
 (1) Most recent, shallowest, and nearby data.

TABLE 4.32

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 532
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Parameters	Units											Round Two								
		EPA RSL Indoor Air		Soil Gas (Below Slab)		Indoor Air Short-Term	MTCA Indoor Air		Soil Gas (Below Slab)		Indoor Air-11 IA-070113-JW-11 7/1/2013	Indoor Air-12 IA-070113-JW-12 7/1/2013	Indoor Air-13 IA-070113-JW-13 7/1/2013	Indoor Air-23 IA-070113-JW-23 7/1/2013	Indoor Air-27 IA-070113-JW-27 7/1/2013	Outside Air-11C OA-070113-JW-11 7/1/2013	Sub-Slab Probe-11 SS-062513-JW-11 6/25/2013	Sub-Slab Probe-12 SS-062613-JW-12 6/26/2013	Sub-Slab Probe-13 SS-062613-JW-13 6/26/2013	
		C a	NC b	C c	NC d	NC e	C f	NC g	C h	NC i										
Volatile Organic Compounds																				
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.66	4.3	23		
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	-	-	-	-	-	-	0.038 U	0.035 U	0.036 U		
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	-	-	-	-	-	-	0.15 U	0.14 U	0.15 U		
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	-	-	-	-	-	-	0.028 J	0.057	0.29		
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	-	-	-	-	-	-	0.058	0.062	0.036 U		
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	1.9	1.6	1.6	2.9	2.1	0.49	0.76 U	0.69 U	0.73 U		
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.76 U	0.69 U	0.73 U		
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.69	2.2 ^a	2.2 ^a	87 ^a	26 ^a	0.050	0.10	0.12	0.066		
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.64 ^f	0.61 ^f	0.86 ^f	1.2 ^f	0.78 ^f	0.58	0.13	0.10 J	0.10 J		
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	-	-	-	-	-	-	0.79	0.10	0.062		
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	-	-	-	-	-	-	0.15 J	0.12 J	0.059 J		
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.060	0.051	0.036 U		
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	14 ^a	22 ^a	27 ^a	30 ^a	26 ^a	16 J	0.13 J	0.12 J	0.11 J		
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	-	-	-	-	-	-	0.038 U	0.020 J	0.036 U		
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	61 J	89 J	100 J	100 J	100 J	67 J	0.42	0.33	0.43		
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	-	-	-	-	-	-	0.13 J	0.17	0.035 J		
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	-	-	-	-	-	-	0.31	0.18	0.30		
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	21 J	32 J	40 J	43 J	40 J	23 J	0.25	0.18	0.28		
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	2.0	0.93	1.2	1.3	1.3	0.69	0.43 J	0.69 U	0.73 U		
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	0.37	0.24	0.19	0.43	0.31	0.084	5.0	30	27		
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	28 J	8.4	19 J	28 J	11	1.7	0.33	0.17	0.17		
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	-	-	-	-	-	-	0.063	0.053	0.036 U		
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	0.12	0.049	0.076	0.046	0.037 U	0.037 U	0.45	0.30	27 ^h		
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	-	-	-	-	-	-	0.018 J	0.017 J	0.036 U		

Notes:
 J Estimated concentration.
 U Not detected above the associated reporting limit.
 - No criteria value established for parameter.
 0.63^f Result exceeds criteria identified in superscript.
 Reporting limit for non-detect parameter in IA sample exceeds applicable IA screening level.
 (1) Most recent, shallowest, and nearby data.

TABLE 4.32

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 532
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Parameters	Units	Groundwater Samples (1)										
		EPA RSL Indoor Air		Soil Gas (Below Slab)		Indoor Air Short-Term	MTCA Indoor Air		Soil Gas (Below Slab)		78C-25 WG-071912-SP-78C-25-132 7/19/2012 25 ft BGS (µg/L)	61C-25 WG-071712-BW-61C-25-100 7/17/2012 25 ft BGS (µg/L)
		C	NC	C	NC	NC	C	NC	C	NC		
		a	b	c	d	e	f	g	h	i		
Volatile Organic Compounds												
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	-	-	
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.50 U	0.50 U	
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	-	-	
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.50 U	0.51	
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	-	-	
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	-	-	
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	-	-	
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	-	-	
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.50 U	0.070 J	
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.50 U	0.50 U	
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	0.50 U	0.30 J	
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	1.5	2.3	
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	0.070 J	0.070 J	
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	-	-	
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	0.12 J	0.31 J	
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	2.0 U	0.15 J	
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	-	-	
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	0.50 U	0.19 J	
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	-	-	
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	0.50 U	0.56	
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.49 J	0.15 J	
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.50 U	0.24 J	
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	9.1	5.9	
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	2.4	1.1	

Notes:

J Estimated concentration.

U Not detected above the associated reporting limit.

- No criteria value established for parameter.

0.63³ Result exceeds criteria identified in superscript.

Reporting limit for non-detect parameter in IA sample exceeds applicable IA screening level.

(1) Most recent, shallowest, and nearby data.

TABLE 4.33

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 592
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Parameters	Units											Round One					
		EPA RSL		Soil Gas (Below Slab)		Indoor Air	MTCA		Soil Gas (Below Slab)		Indoor Air-1	Indoor Air-1	Indoor Air-2	Outside Air-1	Sub-Slab Probe-1	Sub-Slab Probe-2	
		Indoor Air		Soil Gas (Below Slab)		Short-Term	Indoor Air		Soil Gas (Below Slab)		FD-042113-RB-1	IA-042113-RB-1	IA-042113-RB-2	OA-042113-JC-1	SS-042113-JC-1	SS-042113-JC-2	
		C	NC	C	NC	NC	C	NC	C	NC	4/22/2013	4/22/2013	4/22/2013	4/22/2013	4/21/2013	4/21/2013	
		a	b	c	d	e	f	g	h	i							
Volatile Organic Compounds																	
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.11	0.11	0.10	0.026 J	21	0.59		
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.038 U	0.036 U	0.040 U	0.035 U	0.038 U	0.037 U		
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	0.15 U	0.14 U	0.16 U	0.0084 J	0.15 U	0.0075 J		
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.0070 J	0.0052 J	0.040 U	0.035 U	0.31	0.0068 J		
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	0.038 U	0.036 U	0.040 U	0.035 U	0.038 U	0.037 U		
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	2.0	2.1	1.3	0.28 J	0.76 U	0.73 U		
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	0.56 J	0.59 J	0.48 J	0.71 U	0.76 U	0.73 U		
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.055	0.053	0.022 J	0.027 J	0.038 U	0.033 J		
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	1.0 ^f	0.99 ^f	1.5 ^f	0.46	0.20	0.11 U		
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.46 ^f	0.47 ^f	0.47 ^f	0.50	0.25	0.36		
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	0.10 J	0.10 J	0.099 J	0.077 J	0.52	0.046 J		
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	0.038 U	0.036 U	0.040 U	0.021 J	0.038 U	0.018 J		
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	2.5	2.4	2.7	0.25 J	0.11 J	0.060 J		
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	0.038 U	0.036 U	0.040 U	0.035 U	0.038 U	0.026 J		
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	9.2	9.0	9.5	0.87	0.38	0.20		
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	1.6 J	1.6 J	1.3 UJ	0.71 UJ	0.76 UJ	0.73 UJ		
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	0.41 ^a	0.53 ^a	0.067 J	0.11 J	0.031 J	0.077 J		
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	3.0	2.7	3.0	0.31 J	0.12 J	0.066 J		
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	0.34 J	0.36 J	0.26 J	0.71 U	0.76 U	0.73 U		
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	1.1	1.1	0.95	0.13 J	18	19		
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	16	15	22	1.5	0.62 J	0.39 J		
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.038 U	0.036 U	0.040 U	0.035 U	0.038 U	0.037 U		
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	7.3 ^{afg}	6.6 ^{afg}	13 ^{abefg}	0.38	0.48	4.5		
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	0.038 U	0.036 U	0.040 U	0.035 U	0.038 U	0.037 U		

Notes:

- J Estimated concentration.
 U Not detected above the associated reporting limit.
 - No criteria value established for parameter.
1.0^f Result exceeds criteria identified in superscript.
 (1) Most recent, shallowest, and nearby data.

TABLE 4.33

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 592
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Parameters	Units	Round Two															
		EPA RSL		Soil Gas (Below Slab)		Indoor Air Short-Term	MTCA Indoor Air		Soil Gas (Below Slab)		Indoor Air-1	Indoor Air-2	Indoor Air-24	Indoor Air-25	Outside Air-1B	Sub-Slab Probe-1	Sub-Slab Probe-2
		C	NC	C	NC	NC	C	NC	C	NC	IA-070113-JW-1	IA-070113-JW-2	IA-070113-JW-24	IA-070113-JW-25	OA-070113-JW-1	SS-062913-JW-1	SS-062713-JW-2
		a	b	c	d	e	f	g	h	i	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	6/29/2013	6/27/2013
Volatile Organic Compounds																	
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.053	0.068	0.050 U	0.050 U	0.050 U	20	0.35	
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	-	-	-	-	-	0.038 U	0.040 U	
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	-	-	-	-	-	0.15 U	0.16 U	
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	-	-	-	-	-	0.33	0.0078 J	
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	-	-	-	-	-	0.038 U	0.040 U	
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	3.3 ^B	5.3 ^B	4.8 ^B	4.2 ^B	0.35	0.38 J	0.79 U	
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	-	-	-	-	-	0.76 U	0.79 U	
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.045 U	0.086	0.074	0.070	0.045 U	0.13	0.040 U	
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	1.6 ^f	1.7 ^{af}	0.67 ^f	0.65 ^f	0.60	0.33	0.069 J	
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	-	-	-	-	-	0.29	0.31	
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	-	-	-	-	-	0.43	0.070 J	
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	-	-	-	-	-	0.018 J	0.040 U	
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	4.5	6.8 ^a	5.0 ^a	4.8	0.50	0.22	0.37	
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	-	-	-	-	-	0.038 U	0.040 U	
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	16	25	19	18	1.8	0.91	1.5	
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	-	-	-	-	-	0.082 J	0.034 J	
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	-	-	-	-	-	0.43	0.32	
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	5.5	8.7	6.9	6.7	0.66	0.45	0.51	
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	1.2	1.1	1.0	1.0	0.43	0.32 J	0.79 U	
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	1.1	1.4	1.1	1.9	0.070	24	25	
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	21 J	29 J	10	29 J	1.4	0.69	0.40	
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	-	-	-	-	-	0.038 U	0.040 U	
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	1.5 ^{fg}	1.9 ^{fg}	1.2 ^{fg}	1.3 ^{fg}	0.48	0.13	0.40	
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	-	-	-	-	-	0.038 U	0.040 U	

Notes:
 J Estimated concentration.
 U Not detected above the associated reporting limit.
 - No criteria value established for parameter.
 1.0^f Result exceeds criteria identified in superscript.
 (1) Most recent, shallowest, and nearby data.

TABLE 4.33

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 592
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

										Round Three									
										Indoor Air-1	Indoor Air-1	Indoor Air-2	Indoor Air-2P	Indoor Air-24	Indoor Air-25	Indoor Air-32	Indoor Air-33	Indoor Air-34	
										IA-031714-RB-01	IA-031714-NH-F001	IA-031714-NH-02	IA-031814-RB-02p	IA-031714-NH-24	IA-031714-NH-25	IA-031714-NH-32	IA-031714-NH-33	IA-031714-NH-34	
										3/18/2014	3/18/2014	3/18/2014	3/18/2014	3/18/2014	3/18/2014	3/18/2014	3/18/2014	3/18/2014	
										(Duplicate)									
Parameters	Units	EPA RSL		Indoor Air			MTCA		Soil Gas (Below Slab)										
		Indoor Air		Soil Gas (Below Slab)		Short-Term	Indoor Air		Soil Gas (Below Slab)										
		C	NC	C	NC	NC	C	NC	C	NC									
		a	b	c	d	e	f	g	h	i									
Volatile Organic Compounds																			
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.070	0.072	0.058	0.034	0.035	0.058	0.024 J	0.030 J	0.045	
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.040 U	0.039 U	0.039 U	-	0.035 U	0.038 U	0.039 U	0.041	0.034 U	
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	0.16 U	0.16 U	0.15 U	-	0.14 U	0.15 U	0.15 U	0.15 U	0.13 U	
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.040 U	0.039 U	0.039 U	-	0.035 U	0.038 U	0.039 U	0.037 U	0.034 U	
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	0.040 U	0.039 U	0.039 U	-	0.015 J	0.038 U	0.039 U	0.037 U	0.034 U	
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	1.6	1.4	2.3	0.97 J	1.2	0.90	0.93	1.1	1.3	
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	0.54 J	0.40 J	0.76	-	0.39	0.31	0.32	0.38	0.42	
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.093	0.093	0.030 J	0.030 J	0.028 J	0.026 J	0.028 J	0.020 J	0.020 J	
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.85 ^f	0.82 ^f	1.1 ^f	0.92 ^f	0.87 ^f	0.83 ^f	0.76 ^f	0.83 ^f	1.1 ^f	
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.33 J	0.46 ^f	0.45 ^f	-	0.42	0.47 ^f	0.40	0.44 ^f	0.43 ^f	
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	0.11 J	0.11 J	0.22 ^f	-	0.13 ^f	0.11 J	0.082 J	0.093 J	0.11 J	
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	0.15	0.18	0.14	-	0.16	0.21	0.17	0.17	0.21	
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	2.4	2.2	3.1	2.6 J	2.3	1.7	5.2 ^a	1.9	1.8	
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	0.040 U	0.039 U	0.039 U	-	0.035 U	0.038 U	0.039 U	0.037 U	0.034 U	
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	8.5	7.5	11	7.8 J	8.1	6.0	22	6.4	6.7	
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	0.78	0.71	0.81	-	0.77	2.2	0.53	0.81	1.0	
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	0.39 ^J	0.53 ^J	0.48 ^a	-	0.31	0.76 ^a	0.28	0.39 ^a	0.24	
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	2.7	2.4	3.6	2.6 J	2.5	2.0	6.3	2.0	2.2	
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	0.35	0.28	0.26	0.23 J	0.26	0.37	0.99	0.24	0.22	
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	26 ^{fg}	23 ^{fg}	55 ^{afg}	21 ^{fg}	27 ^{fg}	55 ^{afg}	17 ^f	23 ^{fg}	38 ^{fg}	
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	7.8	7.6	11	8.5 J	6.6	6.6	4.6	7.7	6.6	
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.027 J	0.026 J	0.034 J	-	0.043	0.029 J	0.018 J	0.028 J	0.031 J	
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	3.7 ^{afg}	3.4 ^{afg}	8.3 ^{afg}	2.2 ^{fg}	0.56	1.8 ^{fg}	0.38	0.88 ^f	0.85 ^f	
Vinyl chloride	µg/m ³	2.8	440	28	4400	-	0.28	46	457	0.18	0.17	0.16	-	0.20	0.25	0.16	0.20	0.27	

Notes:

- J Estimated concentration.
- U Not detected above the associated reporting limit.
- No criteria value established for parameter.
- 1.0^f Result exceeds criteria identified in superscript.
- (1) Most recent, shallowest, and nearby data.

TABLE 4.33

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 592
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Parameters	Units	Round Three										Groundwater Sample (1)						
		EPA RSL		Soil Gas (Below Slab)		Indoor Air Short-Term	MTCA Indoor Air		Soil Gas (Below Slab)		Indoor Air-40B	Outside Air-1	Outside Air-1P	Sub-Slab Probe-1	Sub-Slab Probe-2	Sub-Slab Probe-24	Sub-Slab Probe-32	41C-25
		C	NC	C	NC	NC	C	NC	C	NC	IA-031714-RB-40B	OA-031714-RB-01	OA-031814-RB-01p	SS-031714-NH-01	SS-031714-MD-02	SS-031714-NH-24	SS-031714-MD-32	WG-071612-BW-41C-25-067
		a	b	c	d	e	f	g	h	i	3/18/2014	3/18/2014	3/18/2014	3/17/2014	3/17/2014	3/17/2014	3/17/2014	7/16/2012
Volatile Organic Compounds																		
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.031 J	0.021 J	0.0093 U	16	0.37	3.8	1.3	-	-
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.037 U	0.039 U	-	0.037 U	0.043 U	0.036 U	0.22 U	0.50 U	-
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	0.15 U	0.16 U	-	0.15 U	0.17 U	0.14 U	0.89 U	-	-
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.037 U	0.039 U	-	0.17	0.043 U	0.041	0.22 U	0.50 U	-
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	0.037 U	0.039 U	-	0.037 U	0.043 U	0.036 U	0.22 U	-	-
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	1.5	0.29	0.30	0.081 J	0.12 J	0.035 J	0.89 U	-	-
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	0.51	0.085 J	-	0.025 J	0.036 J	0.14 U	0.89 U	-	-
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.031 J	0.014 J	0.038	0.029 J	0.040 J	0.013 J	0.22 U	-	-
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.88 ^f	0.65	0.42	0.16	0.059 J	0.10 J	0.11 J	0.50 U	-
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.40	0.46	-	0.25	0.36	2.2	0.21 J	0.50 U	-
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	0.11 J	0.080 J	-	0.39	0.062 J	0.12 J	0.095 J	0.50 U	-
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	0.10	0.21	-	0.037 U	0.043 U	0.036 U	0.22 U	0.11 J	-
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	6.5 ^a	0.49	1.4	0.11 J	0.086 J	0.034 J	0.89 U	0.50 U	-
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	0.037 U	0.039 U	-	0.037 U	0.043 U	0.036 U	0.22 U	-	-
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	26	1.8	5.5	0.34	0.30	0.13 J	0.16 J	0.50 U	-
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	0.77	0.44	-	0.15 U	0.17 U	0.14 U	0.89 U	2.0 U	-
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	0.31	0.081 J	-	0.17	0.21	0.080 J	0.21 J	-	-
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	7.7	0.59	1.7	0.11 J	0.11 J	0.047 J	0.89 U	0.50 U	-
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	0.50	0.092 J	0.17	0.14 J	0.10 J	0.034 J	0.89 U	-	-
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	25 ^{fg}	0.41	0.26	18	23	6.9	2000 ^{cdhi}	0.50 U	-
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	9.2	1.7	2.1	0.37	0.24	0.14 U	0.89 U	0.15 J	-
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.021 J	0.019 J	-	0.037 U	0.043 U	0.036 U	0.22 U	0.50 U	-
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	0.78 ^f	0.25	0.050	0.064	0.30	0.054	2.4	0.50 U	-
Vinyl chloride	µg/m ³	2.8	440	28	4400	-	46	2.8	457	0.12	0.29	-	0.037 U	0.043 U	0.036 U	0.22 U	0.50 U	-

Notes:
 J Estimated concentration.
 U Not detected above the associated reporting limit.
 - No criteria value established for parameter.
 1.0^f Result exceeds criteria identified in superscript.
 (1) Most recent, shallowest, and nearby data.

TABLE 4.34

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 595
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Parameters	Units											Round One				
		EPA RSL		Soil Gas (Below Slab)		Indoor Air Short-Term	MTCA Indoor Air		Soil Gas (Below Slab)		Indoor Air-4	Indoor Air-5	Outside Air-4	Sub-Slab Probe-4	Sub-Slab Probe-5	
		C	NC	C	NC	NC	C	NC	C	NC	IA-042013-JC-4	IA-042013-JC-5	OA-042013-RB-4	SS-042013-JC-4	SS-042013-JC-5	
		a	b	c	d	e	f	g	h	i	4/21/2013	4/21/2013	4/21/2013	4/20/2013	4/20/2013	
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.024 J	0.028 J	0.023 J	8.0	1.8		
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.038 U	0.037 U	0.037 U	1.2 U	1.3 U		
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	0.15 U	0.0051 J	0.15 U	4.9 U	5.1 U		
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.038 U	0.037 U	0.037 U	1.2 U	1.3 U		
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	0.038 U	0.037 U	0.037 U	1.2 U	1.3 U		
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	1.0	1.2	0.75 U	25 U	22 U		
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	0.28 J	0.33 J	0.75 U	25 U	22 U		
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.022 J	0.037 U	0.018 J	1.2 U	1.3 U		
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.82 ^f	0.75 ^f	0.23	3.7 U	3.9 U		
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.44 ^f	0.47 ^f	0.49	0.15 J	1.3 U		
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	0.083 J	0.078 J	0.070 J	2.2 J ^h	1.4 J ^h		
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	0.023 J	0.037 U	0.037 U	0.97 J	0.51 J		
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	0.92	0.92	0.20	4.9 U	5.1 U		
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	0.038 U	0.037 U	0.037 U	1.2 U	1.3 U		
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	3.3	3.1	0.58 J	4.9 U	5.1 U		
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	0.26	0.74 UJ	0.75 UJ	25 UJ	22 UJ		
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	0.23	0.20	0.032 J	4.9 U	5.1 U		
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	1.2	1.1	0.18	4.9 U	5.1 U		
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	0.35 J	0.28 J	0.75 U	25 U	22 U		
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	0.34	1.4	0.19	3800 ^{cdhi}	3600 ^{cdhi}		
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	3.8	3.5	0.60 J	4.9 U	5.1 U		
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.038 U	0.037 U	0.037 U	1.2 U	1.3 U		
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	0.089	0.24	0.038	1600 ^{cdhi}	1500 ^{cdhi}		
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	0.0040 J	0.037 U	0.037 U	1.2 U	1.3 U		

Notes:

- J Estimated concentration.
- U Not detected above the associated reporting limit.
- No criteria value established for parameter.
- 0.82^f Result exceeds criteria identified in superscript.
- Reporting limit for non-detect parameter in SS sample exceeds applicable SS screening level.
- (1) Most recent, shallowest, and nearby data.

TABLE 4.34

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 595
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

										Round Two						
										Indoor Air-4	Indoor Air-5	Indoor Air-26	Outside Air-4	Sub-Slab Probe-4	Sub-Slab Probe-5	
										IA-070113-JW-4	IA-070113-JW-5	IA-070113-JW-26	OA-070113-JW-4	SS-062813-JW-4	SS-062813-JW-5	
										7/1/2013	7/1/2013	7/1/2013	7/1/2013	6/28/2013	6/28/2013	
Parameters	Units	EPA RSL		Soil Gas (Below Slab)		Indoor Air Short-Term	MTCA Indoor Air		Soil Gas (Below Slab)							
		C	NC	C	NC	NC	C	NC	C	NC						
		a	b	c	d	e	f	g	h	i						
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.050 UJ	0.050 U	0.050 U	0.050 U	9.8	2.2 J	
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	-	-	-	-	0.81 U	0.75 U	
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	-	-	-	-	0.59 U	0.54 U	
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	-	-	-	-	0.53 U	0.49 U	
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	-	-	-	-	3.3 U	3.0 U	
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	0.72 J	1.8	0.73	0.47	4.7 U	4.3 U	
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	-	-	-	-	4.7 U	4.3 U	
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.052 J	0.062	0.052	0.045 U	2.1 U	1.9 U	
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.55 J ^f	0.56 ^f	0.55 ^f	0.70	6.9 J ^h	5.1 J ^h	
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	-	-	-	-	0.50 U	0.46 U	
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	-	-	-	-	3.2 J ^h	1.9 J ^h	
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	-	-	-	-	1.7 U	1.6 U	
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	1.6 J	2.1	1.5	1.5	0.79 U	0.73 U	
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	-	-	-	-	1.6 U	1.5 U	
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	5.6 J	7.0	5.1	6.1	1.7 U	1.5 U	
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	-	-	-	-	1.6 U	1.5 U	
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	-	-	-	-	3.1 U	2.9 U	
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	2.2 J	2.7	2.0	0.86	0.76 U	0.70 U	
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	1.7 J	1.8	1.8	0.61	4.7 U	4.3 U	
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	0.64 J	1.0	0.55	1.0	7400 ^{cdhi}	5400 ^{cdhi}	
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	3.5 J	5.2	16 J	2.0	2.6 J	2.5 J	
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	-	-	-	-	1.9 U	1.7 U	
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	0.27 J	0.40	0.30	0.24	2500 ^{cdhi}	1800 ^{cdhi}	
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	-	-	-	-	0.43 U	0.40 U	

Notes:

- J Estimated concentration.
- U Not detected above the associated reporting limit.
- No criteria value established for parameter.
- 0.82^f Result exceeds criteria identified in superscript.
- Reporting limit for non-detect parameter in SS sample exceeds applicable SS screening level.
- (1) Most recent, shallowest, and nearby data.

TABLE 4.34

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 595
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

										Round Three								
										Indoor Air-4	Indoor Air-5	Indoor Air-5P	Indoor Air-26	Indoor Air-36	Outside Air-4	Outside Air-5P	Sub-Slab Probe-4	Sub-Slab Probe-5
										IA-031214-MD-04	IA-031214-NH-05	IA-031814-RB-05p	IA-031214-MD-26	IA-031214-MD-36	OA-031214-MD-04	OA-031814-RB-05p	SS-031214-MD-04	SS-031214-MD-26
										3/13/2014	3/13/2014	3/18/2014	3/13/2014	3/13/2014	3/13/2014	3/18/2014	3/12/2014	3/12/2014
Parameters	Units	EPA RSL		Soil Gas (Below Slab)		Indoor Air Short-Term	MTCA Indoor Air		Soil Gas (Below Slab)									
		C	NC	C	NC	NC	C	NC	C	NC								
		a	b	c	d	e	f	g	h	i								
Volatile Organic Compounds																		
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.023 J	0.026 J	0.015	0.026 J	0.026 J	0.028 J	0.013	6.2	1.9
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.030 U	0.036 U	-	0.036 U	0.035 U	0.038 U	-	0.86 U	0.43 U
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	0.12 U	0.15 U	-	0.14 U	0.14 U	0.15 U	-	3.4 U	1.7 U
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.030 U	0.036 U	-	0.036 U	0.035 U	0.038 U	-	0.86 U	0.43 U
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	0.030 U	0.036 U	-	0.036 U	0.035 U	0.038 U	-	0.86 U	0.43 U
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	0.83	0.96	0.50 J	1.2	1.0	0.43	0.11	3.4 U	1.7 U
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	0.24	0.28	-	0.41	0.32	0.13 J	-	3.4 U	1.7 U
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.034	0.031 J	0.036 J	0.12	0.038	1.2	0.014	0.86 U	0.43 U
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	1.0 ^f	1.2 ^f	0.71 ^f	1.3 ^f	1.0 ^f	1.2	0.77	1.2 J	1.3
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.42	0.47 ^f	-	0.46 ^f	0.47 ^f	0.36	-	0.86 U	1.4
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	0.10 J	0.11 J	-	0.12 ^f	0.11 J	0.094 J	-	1.8 ^h	5.4 ^{ch}
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	0.042	0.056	-	0.054	0.055	0.057	-	0.71 J	2.1
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	1.1	1.5	2.4 J	1.5	1.5	0.91	1.5	3.4 U	1.7 U
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	0.030 U	0.036 U	-	0.036 U	0.035 U	0.020 J	-	0.86 U	0.43 U
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	4.0	4.9	8.3 J	5.5	5.2	3.1	5.2	3.4 U	0.38 J
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	2.1	0.57	-	0.51	0.46	0.56	-	3.4 U	1.7 U
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	0.41 ^a	0.11 J	-	0.19	0.19	0.19	-	3.4 U	0.17 J
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	1.4	1.7	2.5 J	1.8	1.7	0.90	1.4	3.4 U	0.30 J
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	0.38	0.43	0.39 J	0.65	0.62	0.33	0.14	3.4 U	1.7 U
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	0.57	1.1	1.5 J	0.65	2.6	2.0	0.29	3000 ^{cdhi}	1400 ^{chi}
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	6.3	6.6	4.6 J	6.3	6.3	2.9	1.8	0.59 J	0.86 J
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.030 U	0.0093 J	-	0.036 U	0.0090 J	0.0097 J	-	0.23 J	1.2
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	0.18	0.24	0.27	0.21	0.52	0.30	0.24	1400 ^{cdhi}	940 ^{cdhi}
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	0.017 J	0.026 J	-	0.021 J	0.024 J	0.024 J	-	0.86 U	0.43 U

Notes:
 J Estimated concentration.
 U Not detected above the associated reporting limit.
 - No criteria value established for parameter.
 0.82^f Result exceeds criteria identified in superscript.
 Reporting limit for non-detect parameter in SS sample exceeds applicable SS screening level.
 (1) Most recent, shallowest, and nearby data.

TABLE 4.34

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 595
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Parameters	Units											Sub-Slab Probe-26	Groundwater Sample (1)	Soil Samples (1)			
		EPA RSL		Soil Gas (Below Slab)		Indoor Air	MTCA		Soil Gas (Below Slab)		SS-031214-NH-05	10-24	WMUR-04	WMUR-10	WMUR-03		
		Indoor Air		C	NC	Short-Term	Indoor Air		C	NC	3/12/2014	WG-082112-AMK-10-24-503	S-061912-KB-WMUR04-001	S-091012-KB-WMUR10-001	S-061712-KB-WMUR03-001		
		C	NC	C	NC	NC	C	NC	C	NC		8/21/2012	6/19/2012	9/10/2012	6/17/2012		
		a	b	c	d	e	f	g	h	i	24 ft BGS	9 to 9 ft BGS	9 to 9 ft BGS	9.5 to 9.5 ft BGS			
											(µg/L)	(µg/kg)	(µg/kg)	(µg/kg)			
Volatile Organic Compounds																	
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	1.5	-	-	-	-	-		
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.34 U	2500 U	1.5 J	1.9 J	660 U			
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	1.4 U	-	-	-	-			
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.50	2500 U	5.4 U	5.6 U	660 U			
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	0.34 U	-	-	-	-			
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	0.18 J	-	-	-	-			
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	1.4 U	-	-	-	-			
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.34 U	-	-	-	-			
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.48 J	2500 U	5.4 U	5.6 U	660 U			
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.12 J	2500 U	0.36 J	5.6 U	660 U			
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	1.1 J	2500 U	0.35 J	5.6 U	660 U			
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	0.37	2500 U	0.60 J	1.1 J	660 U			
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	0.22 J	2500 U	5.4 U	5.6 U	660 U			
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	0.34 U	-	-	-	-			
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	0.57 J	2500 U	5.4 U	5.6 U	660 U			
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	1.4 U	2100 J	11 U	12 U	460 J			
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	0.12 J	-	-	-	-			
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	0.20 J	2500 U	5.4 U	5.6 U	660 U			
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	1.4 U	-	-	-	-			
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	2900 ^{cdhi}	170000	2400	110	42000			
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	2.5	2500 U	0.21 J	1.4 J	660 U			
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.14 J	2500 U	5.4 U	5.6 U	660 U			
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	9.1	5600	30	12	1000			
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	0.34 U	2500 U	0.43 J	5.6 U	660 U			

Notes:

J Estimated concentration.

U Not detected above the associated reporting limit.

- No criteria value established for parameter.

0.82[†] Result exceeds criteria identified in superscript.

Reporting limit for non-detect parameter in SS sample exceeds applicable SS screening level.

(1) Most recent, shallowest, and nearby data.

TABLE 4.35

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 596
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Parameters	Units	Round One										Round Two			Round Three				
		EPA RSL Indoor Air		Soil Gas (Below Slab)		Indoor Air Short-Term	MTCA Indoor Air		Soil Gas (Below Slab)		Indoor Air-3	Indoor Air-21	Sub-Slab Probe-3	Indoor Air-3	Indoor Air-21				
		C	NC	C	NC	NC	C	NC	C	NC	IA-042213-RB-3	IA-042213-RB-21	OA-042113-JC-1	SS-042113-JC-3	IA-070113-JW-3	IA-070113-JW-21	SS-062713-JW-3	IA-031414-MD-03	IA-031414-NH-21
		a	b	c	d	e	f	g	h	i	4/22/2013	4/22/2013	4/22/2013	4/21/2013	7/1/2013	7/1/2013	6/27/2013	3/15/2014	3/15/2014
Volatile Organic Compounds																			
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.34	2.8	0.026 J	0.70	0.34	0.65	0.74	0.65	0.79	
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.041 U	0.038 U	0.035 U	0.039 U	-	-	0.038 U	0.038 U	0.037 U	
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	0.17 U	0.15 U	0.0084 J	0.0060 J	-	-	0.15 U	0.15 U	0.15 U	
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.041 U	0.017 J	0.035 U	0.039 U	-	-	0.015 J	0.038 U	0.010 J	
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	0.041 U	0.038 U	0.035 U	0.039 U	-	-	0.038 U	0.038 U	0.037 U	
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	1.0	1.9	0.28 J	0.78 U	2.2	4.4 ^b	0.76 U	1.2	1.2	
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	0.30 J	0.52 J	0.71 U	0.78 U	-	-	0.76 U	0.37	0.35	
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.18	2.7 ^a	0.027 J	0.027 J	1.1	6.5 ^a	0.046	0.34	0.73	
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.85 ^f	1.1 ^f	0.46	0.18	1.3 ^f	0.82 ^f	0.54	1.4 ^f	1.3 ^f	
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.48 ^f	0.48 ^f	0.50	0.32	-	-	0.31	0.47 ^f	0.46 ^f	
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	0.27 ^f	0.088 J	0.077 J	0.041 J	-	-	0.079 J	0.13 ^f	0.085 J	
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	0.032 J	0.035 J	0.021 J	0.039 U	-	-	0.038 U	0.051	0.046	
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	2.6	2.2	0.25 J	0.081 J	8.4 ^a	9.9 ^a	0.53	4.8	4.9	
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	0.041 U	0.038 U	0.035 U	0.097	-	-	0.038 U	0.038 U	0.037 U	
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	9.8	8.5	0.87	0.31	32 J	37 J	1.8	18	19	
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	5.5 J	75 J	0.71 UJ	0.78 UJ	-	-	0.59	11	26	
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	0.37 ^a	0.46 ^a	0.11 J	0.079 J	-	-	0.32	0.70 ^a	0.71 ^a	
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	3.3	2.5	0.31 J	0.12 J	12	13	0.70	5.6	5.4	
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	0.29 J	0.46 J	0.71 U	0.78 U	1.8	2.2	0.55 J	0.55	0.48	
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	2.9	12 ^f	0.13 J	26	3.0	13 ^f	35	1.2	2.6	
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	11	25	1.5	0.34 J	20 J	37 J	2.5	9.5	13	
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.025 J	0.14 J	0.035 U	0.039 U	-	-	0.038 U	0.053	0.13	
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	6.6 ^{afg}	19 ^{abefg}	0.38	0.26	2.9 ^{fg}	15 ^{jabefg}	0.15	2.8 ^{fg}	7.1 ^{afg}	
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	0.0044 J	0.0048 J	0.035 U	0.039 U	-	-	0.038 U	0.021 J	0.018 J	

- Notes:
- J Estimated concentration.
 - U Not detected above the associated reporting limit.
 - No criteria value established for parameter.
 - 0.85^f Result exceeds criteria identified in superscript.
 - Reporting limit for non-detect parameter in IA sample exceeds applicable IA screening level.
 - (1) Most recent, shallowest, and nearby data.

TABLE 4.35

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - BUILDING 596
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Parameters	Units	Round Three										Groundwater Sample (1)							
		EPA RSL Indoor Air		Soil Gas (Below Slab)		Indoor Air Short-Term	MTCA Indoor Air		Soil Gas (Below Slab)		Indoor Air-21P IA-032114-RB-21p 3/21/2014	Indoor Air-35 IA-031414-NH-35 3/15/2014	Outside Air-3 OA-031414-MD-03 3/15/2014	Outside Air-3P OA-031814-RB-03p 3/18/2014	Outside Air-3AP OA-032114-RB-03Ap 3/21/2014	Sub-Slab Probe-3 SS-031414-MD-03 3/14/2014	Sub-Slab Probe-35 SS-031414-NH-35 3/14/2014	71-25 WG-072712-AMK-71-25-116 7/27/2012 25 ft BGS (µg/L)	
		C	NC	C	NC	NC	C	NC	C	NC	C	NC	C	NC	C	NC	C	NC	
		a	b	c	d	e	f	g	h	i									
Volatile Organic Compounds																			
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	1.0 J	0.097	0.021 J	0.020	0.026	0.45	3.3	-	-	
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	-	0.039 U	0.038 U	-	-	0.039 U	0.034 U	0.50 U	-	
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	-	0.16 U	0.15 U	-	-	0.16 U	0.14 U	-	-	
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	-	0.039 U	0.038 U	-	-	0.039 U	0.036	0.50 U	-	
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	-	0.039 U	0.038 U	-	-	0.039 U	0.034 U	-	-	
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	1.1 J	0.47	0.32	0.17	0.15	0.069 J	0.043 J	-	-	
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	-	0.13 J	0.10 J	-	-	0.023 J	0.14 U	-	-	
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	1.4 J ^a	0.052	0.026 J	0.026	0.044	0.032 J	0.024 J	-	-	
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.93 J ^f	0.81 ^f	0.67	0.72	0.59	0.12 U	0.10 U	0.50 U	-	
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	-	0.46 ^f	0.43	-	-	0.29	0.25	0.50 U	-	
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	-	0.083 J	0.086 J	-	-	0.046 J	2.6 ^h	0.50 U	-	
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	-	0.042	0.055	-	-	0.028 J	0.034 U	0.12 J	-	
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	5.4 J ^a	5.5 ^a	4.2	1.4	1.8	0.037 J	0.073 J	0.11 J	-	
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	-	0.039 U	0.038 U	-	-	0.039 U	0.034 U	-	-	
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	13 J	21	17	5.1	6.5	0.15 J	0.26	0.12 J	-	
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	-	2.6	0.39	-	-	0.16 U	0.18	2.0 U	-	
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	-	0.24	0.15 J	-	-	0.16	0.077 J	-	-	
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	7.1 J	6.1	4.9	1.6	2.0	0.054 J	0.084 J	0.50 U	-	
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	0.40 J	0.17	0.23	0.19	0.23	0.073 J	0.14	-	-	
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	2.1 J	0.55	0.18	0.21	0.22	28	69	0.50 U	-	
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	8.3 J	3.4	2.0	1.9	1.3	0.098 J	0.52	0.50 U	-	
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	-	0.029 J	0.038 U	-	-	0.039 U	0.034 U	0.50 U	-	
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	4.8 J ^{afg}	1.5 ^{fg}	0.20	0.11	0.10	0.077	0.13	0.50 U	-	
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	-	0.019 J	0.025 J	-	-	0.039 U	0.034 U	0.50 U	-	

Notes:

- J Estimated concentration.
- U Not detected above the associated reporting limit.
- No criteria value established for parameter.
- 0.85^f Result exceeds criteria identified in superscript.
- Reporting limit for non-detect parameter in IA sample exceeds applicable IA screening level.
- (1) Most recent, shallowest, and nearby data.

TABLE 4.36

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - GUARD SHACK
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Parameters	Units	<i>Round One</i>										
		<i>Indoor Air-14</i>		<i>Soil Gas (Below Slab)</i>		<i>Indoor Air Short-Term</i>	<i>MTCA Indoor Air</i>		<i>Soil Gas (Below Slab)</i>		<i>Indoor Air-14</i>	<i>Outside Air-14</i>
		<i>C</i>	<i>NC</i>	<i>C</i>	<i>NC</i>	<i>NC</i>	<i>C</i>	<i>NC</i>	<i>C</i>	<i>NC</i>	<i>C</i>	<i>NC</i>
		<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i</i>		
Volatile Organic Compounds												
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.029 J	0.031 J	
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.038 U	0.040 U	
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	0.15 U	0.16 U	
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.038 U	0.040 U	
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	0.038 U	0.040 U	
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	0.80	0.74 J	
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	0.26 J	0.81 U	
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.062	0.023 J	
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.79 ^f	0.75	
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.47 ^f	0.43	
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	0.11 J	0.099 J	
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	0.038 U	0.040 U	
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	0.58 J	0.54 J	
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	0.038 U	0.040 U	
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	1.7	1.6	
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	0.75 U	0.81 U	
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	0.20	0.12 J	
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	0.63 J	0.59 J	
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	0.23 J	0.81 U	
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	0.12 J	0.14	
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	2.2	2.3	
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.038 U	0.040 U	
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	9.1	0.025 J	0.029 J
Vinyl chloride	µg/m ³	2.8	440	28	4400	-	46	2.8	457	0.038 U	0.040 U	

Notes:

- J Estimated concentration.
 U Not detected above the associated reporting limit.
 - No criteria value established for parameter.

0.79^f Result exceeds criteria identified in superscript.

TABLE 4.37

SOIL VAPOR/INDOOR AIR ANALYTICAL RESULTS - OCC OFFICE BUILDING
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Round One

Parameters	Units	EPA RSL		Soil Gas (Below Slab)		Indoor Air	MTCA		Soil Gas (Below Slab)		Indoor Air-15	Indoor Air-16	Outside Air-15	Sub-Slab Probe-15	Sub-Slab Probe-16
		Indoor Air				Short-Term	Indoor Air				IA-041813-SL-15	IA-041813-RB-16	OA-041813-RB-15	SS-041713-SL-15	SS-041713-RB-16
		C	NC	C	NC	NC	C	NC	C	NC	4/18/2013	4/18/2013	4/18/2013	4/17/2013	4/17/2013
		a	b	c	d	e	f	g	h	i					
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/m ³	-	22000	-	220000	-	2286	-	22857	0.027 J	0.034 J	0.025 J	74	62	
1,1,2,2-Tetrachloroethane	µg/m ³	0.21	-	2.1	-	0.043	-	0.43	-	0.034 U	0.038 U	0.039 U	13 ^{ch}	4.7 ^{Jch}	
1,1,2-Trichloroethane	µg/m ³	0.77	0.88	7.7	8.8	0.16	-	1.6	-	0.13 U	0.15 U	0.16 U	19 ^{Jcdh}	3.2 ^{Jh}	
1,1-Dichloroethene	µg/m ³	-	880	-	8800	-	91	-	914	0.034 U	0.038 U	0.039 U	5.6 J	1.5 J	
1,2,4-Trichlorobenzene	µg/m ³	-	8.8	-	88	-	0.91	-	9.1	0.034 U	0.038 U	0.039 U	8.2 U	5.6 U	
1,2,4-Trimethylbenzene	µg/m ³	-	31	-	310	-	3.2	-	32	0.59 J	0.54 J	0.78 U	160 U	110 U	
1,3,5-Trimethylbenzene	µg/m ³	-	-	-	-	-	-	-	-	0.67 U	0.76 U	0.78 U	160 U	110 U	
1,4-Dichlorobenzene	µg/m ³	1.1	3500	11	35000	-	366	-	3657	0.14	2.9 ^a	0.039 U	8.2 U	5.6 U	
Benzene	µg/m ³	1.6	130	16	1300	0.32	14	3.2	137	0.96 ^f	0.48 ^f	0.34	24 U	17 U	
Carbon tetrachloride	µg/m ³	2	440	20	4400	0.42	46	4.2	457	0.47 ^f	0.45 ^f	0.47	2.1 J	3.1 J	
Chloroform (Trichloromethane)	µg/m ³	0.53	430	5.3	4300	0.11	-	1.1	-	0.24 ^f	0.58 ^{af}	0.071 J	42 ^{ch}	28 ^{ch}	
cis-1,2-Dichloroethene	µg/m ³	-	-	-	-	-	-	-	-	0.071	0.038 U	0.024 J	97	9.4	
Ethylbenzene	µg/m ³	4.9	4400	49	44000	-	457	-	4571	0.59 J	0.23 J	0.13 J	33 U	5.2 J	
Hexachlorobutadiene	µg/m ³	0.56	-	5.6	-	0.11	-	1.1	-	0.046	0.021 J	0.039 U	29 ^{ch}	28 ^{ch}	
m&p-Xylenes	µg/m ³	-	-	-	-	-	-	-	-	1.7	0.88	0.44	33 U	3.8 J	
Methylene chloride	µg/m ³	1200	2600	12000	26000	250	274	2500	2743	0.67 U	0.76 U	0.78 U	160 U	110 U	
Naphthalene	µg/m ³	0.36	13	3.6	130	-	1.4	-	14	0.36	0.085 J	0.21	33 U	23 U	
o-Xylene	µg/m ³	-	440	-	4400	-	46	-	457	0.57 J	0.37 J	0.17	33 U	3.3 J	
Styrene	µg/m ³	-	4400	-	44000	-	457	-	4571	0.21 J	0.89	0.78 U	160 U	110 U	
Tetrachloroethene	µg/m ³	47	180	470	1800	9.6	18	96	183	8.8	0.70	0.27	30000 ^{cdhi}	21000 ^{cdhi}	
Toluene	µg/m ³	-	22000	-	220000	-	2286	-	22857	3.3	1.1	0.81	33 U	23 U	
trans-1,2-Dichloroethene	µg/m ³	-	260	-	2600	-	27	-	274	0.034 U	0.038 U	0.039 U	10	10	
Trichloroethene	µg/m ³	3	8.8	30	88	8.4	0.61	0.91	6.1	5.0 ^{afg}	0.24	0.046	18000 ^{cdhi}	6000 ^{cdhi}	
Vinyl chloride	µg/m ³	2.8	440	28	4400	0.28	46	2.8	457	0.034 U	0.038 U	0.039 U	8.2 U	5.6 U	

Notes:

- J Estimated concentration.
- U Not detected above the associated reporting limit.
- No criteria value established for parameter.
- 0.96^f Result exceeds criteria identified in superscript.
- Reporting limit for non-detect parameter in SS sample exceeds applicable SS screening level

TABLE 4.38

**SUMMARY OF CONFIRMED DNAPL
AREAS, VOLUMES, AND MASS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Depth Zone (ft)</i>	<i>Thickness (ft)</i>	<i>Confirmed DNAPL Area (ft²) (% of Total)</i>	<i>Confirmed DNAPL (ft³) (% of Total)</i>	<i>Confirmed DNAPL Mass (Kg) (% of Total)</i>
15	19	60,999 (24.8%)	1,158,986 (18.2%)	532,649 (18.2%)
25	15	34,577 (14.1%)	518,659 (8.1%)	238,367 (8.1%)
50	25	0	0	0
75	25	0	0	0
100	28	13,506 (5.5%)	378,164 (5.9%)	173,797 (5.9%)
130	35	105,316 (42.9%)	3,686,061 (57.9%)	1,694,048 (57.9%)
160	20	31,255 (12.7%)	625,110 (9.8%)	287,289 (9.8%)
Total		245,654	6,366,978	2,926,151

TABLE 4.39

**SUMMARY OF POTENTIAL DNAPL
AREAS, VOLUMES, AND MASS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Depth Zone (ft)</i>	<i>Thickness (ft)</i>	<i>Potential DNAPL Area (ft²) (% of Total)</i>	<i>Potential DNAPL (ft³) (% of Total)</i>	<i>Potential DNAPL Mass (Kg) (% of Total)</i>
15	19	120,468 (6.7%)	2,288,893 (4.8%)	1,051,935 (4.8%)
25	15	137,103 (7.7%)	2,056,541 (4.3%)	945,150 (4.3%)
50	25	190,129 (10.6%)	4,753,231 (9.9%)	2,184,501 (9.9%)
75	25	199,944 (11.2%)	4,998,606 (10.4%)	2,297,271 (10.4%)
100	28	321,195 (17.9%)	8,993,466 (18.7%)	4,133,239 (18.7%)
130	35	564,040 (31.5%)	19,741,409 (41.2%)	9,072,804 (41.2%)
160	20	256,868 (14.4%)	5,137,358 (10.7%)	2,361,039 (10.7%)
Total		1,789,748	47,969,505	22,045,939

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 SEEPAGE MONITORING PROGRAM
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

		SM1																
Sample Location:																		
Sample ID:		GW-061206-SM-1-GH-001	GW-061206-SM-1-GH-001-010	GW-061206-SM-1-GH-002	GW-061206-SM-1-GH-003	GW-061206-SM-1-GH-004	GW-061206-SM-1-GH-005	GW-061206-SM-1-GH-006	GW-061206-SM-1-GH-007									
Sample Date:		6/12/2006	6/12/2006	6/12/2006	6/12/2006	6/12/2006	6/12/2006	6/12/2006	6/12/2006									
Sample Method:		Grab	Composite	Grab	Grab	Grab	Grab	Grab	Grab									
Discharge Fraction (%):		-	5	-	38	-	12	-	20	-	26	-	32	-	37	-	44	
Parameters	Units	Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		
		Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	5.4 U	-	-	0.27 U	2.25 U	0.27 U	1.35 U	0.27 U	1.04 U	0.27 U	0.84 U	0.27 U	0.73 U	0.27 U	0.61 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	4 U	-	-	0.2 U	1.67 U	0.2 U	1 U	0.2 U	0.77 U	0.2 U	0.62 U	0.2 U	0.54 U	0.2 U	0.45 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	6 U	-	-	0.30 U	2.5 U	0.30 U	1.5 U	0.30 U	1.15 U	0.30 U	0.94 U	0.30 U	0.81 U	0.30 U	0.68 U
Carbon tetrachloride	µg/L	4.4	0.10 U	2 U	-	-	0.10 U	0.83 U	0.10 U	0.5 U	0.10 U	0.38 U	0.10 U	0.31 U	0.10 U	0.27 U	0.10 U	0.23 U
Chloroform (Trichloromethane)	µg/L	470	0.18 J	3.6 J	-	-	0.16 U	1.33 U	0.16 U	0.8 U	0.16 U	0.62 U	0.16 U	0.5 U	0.16 U	0.43 U	0.16 J	0.36 J
cis-1,2-Dichloroethene	µg/L	16	3.9	78	-	-	8.2	68.33	10	50	15	57.69	21	65.62	25	67.57	41	93.18
Methylene chloride	µg/L	1600	0.35 U	7 U	-	-	0.35 U	2.92 U	0.35 U	1.75 U	0.35 U	1.35 U	0.35 U	1.09 U	0.35 U	0.95 U	0.35 U	0.8 U
Tetrachloroethene	µg/L	8.85	0.15 U	3 U	-	-	0.15 U	1.25 U	0.15 U	0.75 U	0.15 U	0.58 U	0.15 U	0.47 U	0.15 U	0.41 U	0.15 U	0.34 U
trans-1,2-Dichloroethene	µg/L	10000	0.25 J	5 J	-	-	0.48 J	4 J	0.63 J	3.15 J	0.90 J	3.46 J	1.2 J	3.75 J	1.2 J	3.24 J	1.7 J	3.86 J
Trichloroethene	µg/L	81	0.16 U	3.2 U	-	-	0.19 J	1.58 J	0.25 J	1.25 J	0.19 J	0.73 J	0.27 J	0.84 J	0.26 J	0.7 J	0.31 J	0.7 J
Vinyl chloride	µg/L	2.4	0.23 U	4.6 U	-	-	0.46 J	3.83 J	0.54 J	2.7 J	0.76 J	2.92 J	1.1 J	3.44 J	2.2	5.95	2.8	6.36
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(/0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	-	-	701	1844.74	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	µg/L	50	-	-	4.3	11.32	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	64.6	170	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	0.55	1.45	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	0.041 U	0.11 U	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	27.9	73.42	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	0.01 U	0.03 U	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	18.9 J	49.74 J	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mS/cm	NV	-	-	-	43.39	-	43.16	-	43.15	-	43.45	-	43.21	-	43.23	-	-
ORP	millivolts	NV	250	-	-	215	-	189	-	191	-	188	-	188	-	194	-	-
pH	s.u.	7 - 8.5	7.53	-	-	7.63	-	7.68	-	7.61	-	7.73	-	7.72	-	7.65	-	-
Temperature	Deg C	NV	18.7	-	-	17.7	-	17.7	-	17.5	-	17.4	-	17.5	-	17.1	-	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
SEEPAGE MONITORING PROGRAM
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		SM1 (cont)						SM2										
Sample ID:	GW-061206-SM-1-GH-008	GW-061206-SM-1-GH-009	GW-061206-SM-1-GH-010	GW-061006-SM-2-JL-001	GW-061006-SM-2-JL-001-010	GW-061006-SM-2-JL-002	GW-061006-SM-2-JL-003	GW-061006-SM-2-JL-004										
Sample Date:	6/12/2006	6/12/2006	6/12/2006	6/10/2006	6/10/2006	6/10/2006	6/10/2006	6/10/2006										
Sample Method:	Grab	Grab	Grab	Grab	Composite	Grab	Grab	Grab										
Discharge Fraction (%):	- 51	- 56	- 61	- 6	- 36	- 17	- 24	- 32										
Parameters	Units	Groundwater Cleanup Level ⁽¹⁾	Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration			
			Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*		
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.53 U	0.27 U	0.48 U	0.27 U	0.44 U	0.27 U	4.5 U	-	-	0.27 UJ	1.59 UJ	0.27 UJ	1.13 UJ	0.27 U	0.84 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.39 U	0.2 U	0.36 U	0.2 U	0.33 U	0.2 UJ	3.33 UJ	-	-	0.2 UJ	1.18 UJ	0.2 UJ	0.83 UJ	0.2 U	0.62 U
1,1-Dichloroethene	µg/L	3.2	0.37 J	0.73 J	0.56 J	1 J	0.62 J	1.02 J	0.30 UJ	5 UJ	-	-	0.30 UJ	1.76 UJ	0.30 UJ	1.25 UJ	0.30 U	0.94 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.2 U	0.10 U	0.18 U	0.10 U	0.16 U	0.10 UJ	1.67 UJ	-	-	0.10 UJ	0.59 UJ	0.10 UJ	0.42 UJ	0.10 U	0.31 U
Chloroform (Trichloromethane)	µg/L	470	0.16 J	0.31 J	0.16 J	0.29 J	0.16 U	0.26 U	0.16 UJ	2.67 UJ	-	-	0.16 UJ	0.94 UJ	0.16 UJ	0.67 UJ	0.16 U	0.5 U
cis-1,2-Dichloroethene	µg/L	16	51	100	54	96.43	62	101.64	1.8 J	30 J	-	-	0.87 J	5.12 J	1.3 J	5.42 J	1.6 J	5 J
Methylene chloride	µg/L	1600	0.35 U	0.69 U	0.35 U	0.62 U	0.35 U	0.57 U	0.35 UJ	5.83 UJ	-	-	0.35 UJ	2.06 UJ	0.35 UJ	1.46 UJ	0.35 U	1.09 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.29 U	0.15 U	0.27 U	0.15 U	0.25 U	0.78 J	13 J	-	-	0.90 J	5.29 J	1.1 J	4.58 J	1.2 J	3.75 J
trans-1,2-Dichloroethene	µg/L	10000	2.4	4.71	3.1	5.54	3.5	5.74	0.19 UJ	3.17 UJ	-	-	0.19 UJ	1.12 UJ	0.19 UJ	0.79 UJ	0.19 U	0.59 U
Trichloroethene	µg/L	81	0.43 J	0.84 J	0.53 J	0.95 J	0.56 J	0.92 J	2.8 J	46.67 J	-	-	1.7 J	10 J	1.8 J	7.5 J	2.0	6.25
Vinyl chloride	µg/L	2.4	2.9	5.69	5.6	10	7.3	11.97	0.23 UJ	3.83 UJ	-	-	0.23 UJ	1.35 UJ	0.29 J	1.21 J	0.35 J	1.09 J
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	-	-	-	-	-	-	0.040 U	0.11 U	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	0.13 U	0.36 U	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	0.75 U	2.08 U	-	-	-	-	-	-
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	-	-	-	-	-	-	-	-	753 J	2091.67 J	-	-	-	-	-	-
Chromium Total	µg/L	50	-	-	-	-	-	-	-	-	45.4 U	126.11 U	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-	-	59.2	164.44	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-	-	9.4	26.11	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-	-	0.89	2.47	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-	-	25.7 J	71.39 J	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-	-	0.050 U	0.14 U	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-	-	32.7 J	90.83 J	-	-	-	-	-	-
Field Parameters																		
Conductivity	mS/cm	NV	43.23	-	42.86	-	42.43	-	42.02	-	-	-	40.96	-	42.37	-	42.21	-
ORP	millivolts	NV	206	-	201	-	186	-	187	-	-	-	220	-	209	-	220	-
pH	s.u.	7 - 8.5	7.5	-	7.51	-	7.47	-	7.31	-	-	-	7.58	-	7.61	-	7.53	-
Temperature	Deg C	NV	17.6	-	17.3	-	17.2	-	18.9	-	-	-	18.6	-	20.3	-	19.4	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
SEEPAGE MONITORING PROGRAM
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

		SM2 (cont)										SM3						
Sample Location:																		
Sample ID:		GW-061006-SM-2-JL-005	GW-061006-SM-2-JL-006	GW-061006-SM-2-JL-007	GW-061006-SM-2-JL-008	GW-061006-SM-2-JL-009	GW-061006-SM-2-JL-010	GW-061106-SM-3-JL-001	GW-061106-SM-3-JL-001-010									
Sample Date:		6/10/2006	6/10/2006	6/10/2006	6/10/2006	6/10/2006	6/10/2006	6/11/2006	6/11/2006									
Sample Method:		Grab	Grab	Grab	Grab	Grab	Grab	Grab	Composite									
Discharge Fraction (%):		-	40	-	47	-	51	-	54	-	58	-	63	-	4	-	44	
Groundwater Cleanup Level ⁽¹⁾		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		
Parameters	Units	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 UJ	0.68 UJ	0.27 U	0.57 U	0.27 UJ	0.53 UJ	0.27 UJ	0.5 UJ	0.27 UJ	0.47 UJ	0.27 UJ	0.43 UJ	0.27 UJ	6.75 UJ	-	-
1,1,2-Trichloroethane	µg/L	42	0.2 UJ	0.5 UJ	0.2 U	0.43 U	0.2 UJ	0.39 UJ	0.2 UJ	0.37 UJ	0.2 UJ	0.34 UJ	0.2 UJ	0.32 UJ	0.2 UJ	5 UJ	-	-
1,1-Dichloroethene	µg/L	3.2	0.30 UJ	0.75 UJ	0.30 U	0.64 U	0.30 UJ	0.59 UJ	0.30 UJ	0.56 UJ	0.30 UJ	0.52 UJ	0.30 UJ	0.48 UJ	0.30 UJ	7.5 UJ	-	-
Carbon tetrachloride	µg/L	4.4	0.10 UJ	0.25 UJ	0.10 U	0.21 U	0.10 UJ	0.2 UJ	0.10 UJ	0.19 UJ	0.10 UJ	0.17 UJ	0.10 UJ	0.16 UJ	0.10 UJ	2.5 UJ	-	-
Chloroform (Trichloromethane)	µg/L	470	0.16 UJ	0.4 UJ	0.16 U	0.34 U	0.16 UJ	0.31 UJ	0.16 UJ	0.3 UJ	0.16 UJ	0.28 UJ	0.16 UJ	0.25 UJ	0.16 UJ	4 UJ	-	-
cis-1,2-Dichloroethene	µg/L	16	1.7 J	4.25 J	1.8 J	3.83 J	1.9 J	3.73 J	1.8 J	3.33 J	2.5 J	4.31 J	2.4 J	3.81 J	0.59 J	14.75 J	-	-
Methylene chloride	µg/L	1600	0.35 UJ	0.87 UJ	0.35 U	0.74 U	0.35 UJ	0.69 UJ	0.35 UJ	0.65 UJ	0.35 UJ	0.6 UJ	0.35 UJ	0.56 UJ	0.35 UJ	67.5 J	-	-
Tetrachloroethene	µg/L	8.85	1 J	2.5 J	1.1 J	2.34 J	0.96 J	1.88 J	0.60 J	1.11 J	0.91 J	1.57 J	0.97 J	1.54 J	0.20 J	5 J	-	-
trans-1,2-Dichloroethene	µg/L	10000	0.19 UJ	0.48 UJ	0.19 U	0.4 U	0.19 UJ	0.37 UJ	0.19 UJ	0.35 UJ	0.19 UJ	0.33 UJ	0.19 UJ	0.3 UJ	0.19 UJ	4.75 UJ	-	-
Trichloroethene	µg/L	81	1.8 J	4.5 J	1.9 J	4.04 J	1.7 J	3.33 J	1.2 J	2.22 J	1.8 J	3.1 J	1.7 J	2.7 J	0.62 J	15.5 J	-	-
Vinyl chloride	µg/L	2.4	0.37 J	0.92 J	0.39 J	0.83 J	0.36 J	0.71 J	0.36 J	0.67 J	0.49 J	0.84 J	0.72 J	1.14 J	0.26 J	6.5 J	-	-
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.016 U	0.04 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 U	0.11 U
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.30 U	0.68 U
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	827 J	1879.55 J
Chromium Total	µg/L	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.3	27.95
Copper	µg/L	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53.3	121.14
Lead	µg/L	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	22.05
Mercury	µg/L	0.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.041 U	0.09 U
Nickel	µg/L	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.6	51.36
Thallium	µg/L	0.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.050 U	0.11 U
Zinc	µg/L	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.5 J	51.14 J
Field Parameters																		
Conductivity	mS/cm	NV	40.39	-	42.62	-	42.03	-	41.55	-	42.18	-	42.08	-	41.48	-	-	-
ORP	millivolts	NV	213	-	177	-	124	-	89	-	52	-	36	-	177	-	-	-
pH	s.u.	7 - 8.5	7.5	-	7.48	-	7.41	-	7.43	-	7.43	-	7.42	-	7.68	-	-	-
Temperature	Deg C	NV	20.5	-	21.3	-	22.1	-	21.8	-	21.1	-	21.3	-	20.5	-	-	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 SEEPAGE MONITORING PROGRAM
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

		SM3 (cont)																
Sample Location:																		
Sample ID:	GW-061106-SM-3-JL-002	GW-061106-SM-3-JL-003	GW-061106-SM-3-JL-004	GW-061106-SM-3-JL-005	GW-061106-SM-3-JL-006	GW-061106-SM-3-JL-007	GW-061106-SM-3-JL-008	GW-061106-SM-3-JL-009										
Sample Date:	6/11/2006	6/11/2006	6/11/2006	6/11/2006	6/11/2006	6/11/2006	6/11/2006	6/11/2006										
Sample Method:	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab										
Discharge Fraction (%):	- 12	- 18	- 23	- 30	- 38	- 47	- 56	- 62										
Parameters	Units	Groundwater	Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration			
		Cleanup Level ⁽¹⁾	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*		
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 UJ	2.25 UJ	0.27 U	1.5 U	0.27 U	1.17 U	0.27 U	0.9 U	0.27 U	0.71 U	0.27 U	0.57 U	0.27 U	0.48 U	0.27 U	0.44 U
1,1,2-Trichloroethane	µg/L	42	0.2 UJ	1.67 UJ	0.2 U	1.11 U	0.2 U	0.87 U	0.2 U	0.67 U	0.2 U	0.53 U	0.2 U	0.43 U	0.2 U	0.36 U	0.2 U	0.32 U
1,1-Dichloroethene	µg/L	3.2	0.30 UJ	2.5 UJ	0.30 U	1.67 U	0.30 U	1.3 U	0.30 U	1 U	0.30 U	0.79 U	0.30 U	0.64 U	0.30 U	0.54 U	0.30 U	0.48 U
Carbon tetrachloride	µg/L	4.4	0.10 UJ	0.83 UJ	0.10 U	0.56 U	0.10 U	0.43 U	0.10 U	0.33 U	0.10 U	0.26 U	0.10 U	0.21 U	0.10 U	0.18 U	0.10 U	0.16 U
Chloroform (Trichloromethane)	µg/L	470	0.16 UJ	1.33 UJ	0.16 U	0.89 U	0.16 U	0.7 U	0.16 U	0.53 U	0.16 U	0.42 U	0.16 U	0.34 U	0.16 U	0.29 U	0.16 U	0.26 U
cis-1,2-Dichloroethene	µg/L	16	0.56 J	4.67 J	0.92 J	5.11 J	0.95 J	4.13 J	1.2 J	4 J	1.2 J	3.16 J	1.4 J	2.98 J	1.4 J	2.5 J	1.4 J	2.26 J
Methylene chloride	µg/L	1600	1.8 J	15 J	3.5	19.44	1.6 J	6.96 J	0.96 J	3.2 J	0.53 J	1.39 J	0.35 U	0.74 U	0.35 U	0.62 U	0.35 U	0.56 U
Tetrachloroethene	µg/L	8.85	0.19 J	1.58 J	0.27 J	1.5 J	0.28 J	1.22 J	0.28 J	0.93 J	0.32 J	0.84 J	0.30 J	0.64 J	0.27 J	0.48 J	0.26 J	0.42 J
trans-1,2-Dichloroethene	µg/L	10000	0.19 UJ	1.58 UJ	0.19 U	1.06 U	0.19 U	0.83 U	0.19 U	0.63 U	0.19 U	0.5 U	0.19 U	0.4 U	0.19 U	0.34 U	0.19 U	0.31 U
Trichloroethene	µg/L	81	0.69 J	5.75 J	0.65 J	3.61 J	0.66 J	2.87 J	0.71 J	2.37 J	0.76 J	2 J	0.78 J	1.66 J	0.69 J	1.23 J	0.72 J	1.16 J
Vinyl chloride	µg/L	2.4	0.33 J	2.75 J	0.28 J	1.56 J	0.29 J	1.26 J	0.30 J	1 J	0.30 J	0.79 J	0.29 J	0.62 J	0.29 J	0.52 J	0.33 J	0.53 J
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	µg/L	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mS/cm	NV	42.57	-	42.63	-	42.76	-	42.79	-	43.04	-	43.29	-	43.01	-	42.79	-
ORP	millivolts	NV	173	-	162	-	184	-	183	-	192	-	192	-	179	-	164	-
pH	s.u.	7 - 8.5	7.85	-	7.93	-	7.96	-	7.98	-	7.97	-	8.01	-	8.02	-	8.03	-
Temperature	Deg C	NV	20.4	-	20	-	20.6	-	20.2	-	19.9	-	19.4	-	19.2	-	19.3	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 SEEPAGE MONITORING PROGRAM
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

		SM3 (cont)				SM5				SM6								
Sample Location:		SM3 (cont)				SM5				SM6								
Sample ID:		GW-061106-SM-3-JL-010		GW-061206-SM-5-GH-001		GW-061206-SM-5-GH-008		GW-061206-SM-5-GH-009		GW-061206-SM-5-GH-010		GW-061506-SM-6-JPL-001		GW-061506-SM-6-JPL-001-008		GW-061506-SM-6-JPL-002		
Sample Date:		6/11/2006		6/12/2006		6/12/2006		6/12/2006		6/12/2006		6/15/2006		6/15/2006		6/15/2006		
Sample Method:		Grab		Grab		Grab		Grab		Grab		Composite		Composite		Grab		
Discharge Fraction (%):		68		2		11		21		34		7		27		19		
Parameters	Units	Groundwater Cleanup Level ⁽¹⁾		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		
		Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.4 U	0.27 U	13.5 U	0.27 U	2.45 U	0.27 U	1.29 U	0.27 U	0.79 U	0.54 U	7.71 U	-	-	0.05 U	0.26 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.29 U	0.2 U	10 U	0.2 U	1.82 U	0.2 U	0.95 U	0.2 U	0.59 U	0.4 U	5.71 U	-	-	0.04 U	0.21 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.44 U	0.30 U	15 U	0.30 U	2.73 U	0.30 U	1.43 U	0.30 U	0.88 U	0.60 U	8.57 U	-	-	0.06 U	0.32 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.15 U	0.10 U	5 U	0.10 U	0.91 U	0.10 U	0.48 U	0.10 U	0.29 U	0.20 U	2.86 U	-	-	0.02 U	0.11 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.24 U	0.32 J	16 J	0.16 U	1.45 U	0.16 U	0.76 U	0.16 U	0.47 U	0.32 U	4.57 U	-	-	0.03 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16	1.3 J	1.91 J	0.80 J	40 J	3.4	30.91	4.9	23.33	4.5	13.24	0.41 J	5.86 J	-	-	0.43 J	2.26 J
Methylene chloride	µg/L	1600	0.78 J	1.15 J	1.8 J	90 J	0.63 J	5.73 J	0.35 U	1.67 U	0.35 U	1.03 U	1.3	18.57	-	-	1.9	10
Tetrachloroethene	µg/L	8.85	0.25 J	0.37 J	0.15 U	7.5 U	0.15 U	1.36 U	0.15 J	0.71 J	0.15 U	0.44 U	0.30 U	4.29 U	-	-	0.03 U	0.16 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.28 U	0.19 U	9.5 U	0.19 U	1.73 U	0.19 U	0.9 U	0.19 U	0.56 U	0.38 U	5.43 U	-	-	0.04 U	0.21 U
Trichloroethene	µg/L	81	0.63 J	0.93 J	0.67 J	33.5 J	0.99 J	9 J	1.1 J	5.24 J	1.1 J	3.24 J	0.52 J	7.43 J	-	-	0.35 J	1.84 J
Vinyl chloride	µg/L	2.4	0.29 J	0.43 J	0.23 U	11.5 U	2.1	19.09	2.7	12.86	2.4	7.06	0.46 U	6.57 U	-	-	0.05 U	0.26 U
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	0.016 U	0.06 U	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	0.05 U	0.19 U	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	0.30 U	1.11 U	-	-
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	-	-	-	-	-	-	-	-	-	-	-	-	273 J	1011.11 J	-	-
Chromium Total	µg/L	50	-	-	-	-	-	-	-	-	-	-	-	-	11.7	43.33	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-	-	-	-	-	-	58.2	215.56	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-	-	-	-	-	-	1.8	6.67	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-	-	-	-	-	-	0.21	0.78	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-	-	-	-	-	-	24.6	91.11	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-	-	-	-	-	-	0.050 U	0.19 U	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-	-	-	-	-	-	18.6 J	68.89 J	-	-
Field Parameters																		
Conductivity	mS/cm	NV	42.61	-	40.55	-	43.04	-	43.47	-	41.01	-	43.24	-	-	-	43.92	-
ORP	millivolts	NV	159	-	191	-	238	-	199	-	204	-	233	-	-	-	199	-
pH	s.u.	7 - 8.5	8.02	-	7.59	-	7.48	-	7.51	-	7.5	-	7.61	-	-	-	7.64	-
Temperature	Deg C	NV	19.8	-	23.6	-	21.7	-	20.8	-	20.7	-	20.8	-	-	-	20.7	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 SEEPAGE MONITORING PROGRAM
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

		SM6 (cont)										SM7						
Sample Location:		GW-061506-SM-6-JPL-003		GW-061506-SM-6-JPL-004		GW-061506-SM-6-JPL-005		GW-061506-SM-6-JPL-006		GW-061506-SM-6-JPL-007		GW-061506-SM-6-JPL-008		GW-062606-SM-7-GH-001		GW-062606-SM-7-GH-003		
Sample ID:		6/15/2006		6/15/2006		6/15/2006		6/15/2006		6/15/2006		6/15/2006		6/26/2006		6/26/2006		
Sample Date:		Grab		Grab		Grab		Grab		Grab		Grab		Grab		Grab		
Sample Method:		Grab		Grab		Grab		Grab		Grab		Grab		Grab		Grab		
Discharge Fraction (%):		28		37		45		51		57		63		2		8		
Groundwater Cleanup Level ⁽¹⁾		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		
Parameters	Units	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	0.54 U	1.93 U	0.05 U	0.14 U	0.05 U	0.11 U	0.05 U	0.1 U	0.05 U	0.09 U	0.05 U	0.08 U	0.27 U	13.5 U	0.27 U	3.38 U
1,1,2-Trichloroethane	µg/L	42	0.4 U	1.43 U	0.04 U	0.11 U	0.04 U	0.09 U	0.04 U	0.08 U	0.04 U	0.07 U	0.04 U	0.06 U	0.2 U	10 U	0.2 U	2.5 U
1,1-Dichloroethene	µg/L	3.2	0.60 U	2.14 U	0.06 U	0.16 U	0.06 U	0.13 U	0.06 U	0.12 U	0.06 U	0.11 U	0.06 U	0.1 U	0.30 U	15 U	0.30 U	3.75 U
Carbon tetrachloride	µg/L	4.4	0.20 U	0.71 U	0.02 U	0.05 U	0.02 U	0.04 U	0.02 U	0.04 U	0.02 U	0.04 U	0.02 U	0.03 U	0.10 U	5 U	0.10 U	1.25 U
Chloroform (Trichloromethane)	µg/L	470	0.32 U	1.14 U	0.03 U	0.08 U	0.03 U	0.07 U	0.03 U	0.06 U	0.03 U	0.05 U	0.37 J	0.59 J	0.16 U	8 U	0.16 U	2 U
cis-1,2-Dichloroethene	µg/L	16	0.34 J	1.21 J	0.39 J	1.05 J	0.29 J	0.64 J	0.43 J	0.84 J	0.03 U	0.05 U	0.03 U	0.05 U	0.16 U	8 U	0.16 U	2 U
Methylene chloride	µg/L	1600	1.8	6.43	1	2.7	6.65 J	1.44 J	0.70 J	1.37 J	1.4	2.46	1.2	1.9	0.35 U	17.5 U	0.35 U	4.38 U
Tetrachloroethene	µg/L	8.85	0.30 U	1.07 U	0.03 U	0.08 U	0.03 U	0.07 U	0.03 U	0.06 U	0.03 U	0.05 U	0.03 U	0.05 U	0.15 U	7.5 U	0.15 U	1.88 U
trans-1,2-Dichloroethene	µg/L	10000	0.38 U	1.36 U	0.04 U	0.11 U	0.04 U	0.09 U	0.04 U	0.08 U	0.04 U	0.07 U	0.04 U	0.06 U	0.19 U	9.5 U	0.19 U	2.38 U
Trichloroethene	µg/L	81	0.41 J	1.46 J	0.35 J	0.95 J	0.26 J	0.58 J	0.23 J	0.45 J	0.32 J	0.56 J	0.20 J	0.32 J	0.16 U	8 U	0.16 U	2 U
Vinyl chloride	µg/L	2.4	0.46 U	1.64 U	0.05 U	0.14 U	0.05 U	0.11 U	0.05 U	0.1 U	0.05 U	0.09 U	0.05 U	0.08 U	0.23 U	11.5 U	0.23 U	2.88 U
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	µg/L	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mS/cm	NV	43.63	-	43.26	-	44.13	-	43.92	-	43.64	-	40.75	-	39.3	-	42.01	-
ORP	millivolts	NV	174	-	185	-	86	-	162	-	175	-	169	-	188	-	205	-
pH	s.u.	7 - 8.5	7.62	-	7.58	-	7.53	-	7.56	-	7.5	-	7.57	-	7.56	-	7.54	-
Temperature	Deg C	NV	20.2	-	20	-	18.4	-	19.2	-	19.5	-	22.2	-	24	-	24.8	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 SEEPAGE MONITORING PROGRAM
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

		SM7 (cont)						SM8										
Sample Location:																		
Sample ID:		GW-062606-SM-7-GH-005		GW-062606-SM-7-GH-006		GW-062606-SM-7-GH-007		GW-061506-SM-8-JPL-003		GW-061506-SM-8-JPL-005		GW-061506-SM-8-JPL-006		GW-061506-SM-8-JPL-007		GW-061506-SM-8-JPL-008		
Sample Date:		6/26/2006		6/26/2006		6/26/2006		6/15/2006		6/15/2006		6/15/2006		6/15/2006		6/15/2006		
Sample Method:		Grab		Grab		Grab		Grab		Grab		Grab		Grab		Grab		
Discharge Fraction (%):		- 12		- 14		- 14		- 3		- 8		- 13		- 17		- 22		
Groundwater Cleanup Level ⁽¹⁾		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		
Parameters	Units	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	2.25 U	0.27 U	1.93 U	0.27 U	1.93 U	0.27 U	9 U	0.27 U	3.38 U	0.27 U	2.08 U	0.27 U	1.59 U	0.27 U	1.23 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	1.67 U	0.2 U	1.43 U	0.2 U	1.43 U	0.2 U	6.67 U	0.2 U	2.5 U	0.2 U	1.54 U	0.2 U	1.18 U	0.2 U	0.91 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	2.5 U	0.30 U	2.14 U	0.30 U	2.14 U	0.30 U	10 U	0.30 U	3.75 U	0.30 U	2.31 U	0.30 U	1.76 U	0.30 U	1.36 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.83 U	0.10 U	0.71 U	0.10 U	0.71 U	0.10 U	3.33 U	0.10 U	1.25 U	0.10 U	0.77 U	0.10 U	0.59 U	0.10 U	0.45 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	1.33 U	0.16 U	1.14 U	0.16 U	1.14 U	0.16 U	5.33 U	0.16 U	2 U	0.16 U	1.23 U	0.16 U	0.94 U	0.16 U	0.73 U
cis-1,2-Dichloroethene	µg/L	16	0.72 J	6 J	0.72 J	5.14 J	0.79 J	5.64 J	0.45 J	15 J	0.56 J	7 J	0.41 J	3.15 J	0.52 J	3.06 J	0.54 J	2.45 J
Methylene chloride	µg/L	1600	0.35 U	2.92 U	0.35 U	2.5 U	0.35 U	2.5 U	0.67 J	22.33 J	0.51 J	6.38 J	0.89 J	6.85 J	1.4	8.24	0.35 U	1.59 U
Tetrachloroethene	µg/L	8.85	0.15 U	1.25 U	0.15 U	1.07 U	0.15 U	1.07 U	0.15 U	5 U	0.15 U	1.88 U	0.15 U	1.15 U	0.15 U	0.88 U	0.15 U	0.68 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	1.58 U	0.19 U	1.36 U	0.19 U	1.36 U	0.19 U	6.33 U	0.19 U	2.38 U	0.19 U	1.46 U	0.19 U	1.12 U	0.19 U	0.86 U
Trichloroethene	µg/L	81	0.16 U	1.33 U	0.16 U	1.14 U	0.16 U	1.14 U	0.16 U	5.33 U	0.16 U	2 U	0.16 U	1.23 U	0.16 U	0.94 U	0.16 U	0.73 U
Vinyl chloride	µg/L	2.4	0.23 U	1.92 U	0.23 U	1.64 U	0.23 U	1.64 U	0.23 U	7.67 U	0.23 U	2.88 U	0.23 U	1.77 U	0.23 U	1.35 U	0.23 U	1.05 U
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	µg/L	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mS/cm	NV	42.67	-	41.94	-	42.87	-	43.26	-	44.27	-	43.74	-	42.74	-	43.73	-
ORP	millivolts	NV	200	-	206	-	203	-	203	-	181	-	181	-	165	-	163	-
pH	s.u.	7 - 8.5	7.39	-	7.34	-	7.38	-	7.64	-	7.7	-	7.7	-	7.71	-	7.74	-
Temperature	Deg C	NV	21.8	-	21.5	-	22.6	-	23.8	-	22.3	-	22.8	-	22.2	-	22.8	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 SEEPAGE MONITORING PROGRAM
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

		SMB (cont)								SM9							
Sample Location:		GW-061506-SM-8-JPL-009		GW-061506-SM-8-JPL-010		GW-061306-SM-9-GH-001		GW-061306-SM-9-GH-001-010		GW-061306-SM-9-GH-002		GW-061306-SM-9-GH-003		GW-061306-SM-9-GH-004		GW-061306-SM-9-GH-005	
Sample ID:		6/15/2006		6/15/2006		6/13/2006		6/13/2006		6/13/2006		6/13/2006		6/13/2006		6/13/2006	
Sample Date:		Grab		Grab		Grab		Composite		Grab		Grab		Grab		Grab	
Sample Method:		26		30		5		24		12		17		20		21	
Discharge Fraction (%):																	
Groundwater Cleanup Level ⁽¹⁾		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration	
Parameters	Units	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*
Volatile Organic Compounds																	
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	1.04 U	0.27 U	0.9 U	0.27 U	5.4 U	-	0.27 U	2.25 U	0.27 U	1.59 U	0.27 U	1.35 U	0.27 U	1.29 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.77 U	0.2 U	0.67 U	0.2 U	4 U	-	0.2 U	1.67 U	0.2 U	1.18 U	0.2 U	1 U	0.2 U	0.95 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	1.15 U	0.30 U	1 U	0.30 U	6 U	-	0.30 U	2.5 U	0.30 U	1.76 U	0.30 U	1.5 U	0.30 U	1.43 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.38 U	0.10 U	0.33 U	0.10 U	2 U	-	0.10 U	0.83 U	0.10 U	0.59 U	0.10 U	0.5 U	0.10 U	0.48 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.62 U	0.16 U	0.53 U	0.16 J	3.2 J	-	0.16 U	1.33 U	0.16 U	0.94 U	0.16 U	0.8 U	0.16 U	0.76 U
cis-1,2-Dichloroethene	µg/L	16	0.67 J	2.58 J	1.1	3.67	0.16 U	3.2 U	-	0.16 U	1.33 U	0.16 U	0.94 U	0.16 U	0.8 U	0.16 U	0.76 U
Methylene chloride	µg/L	1600	0.35 U	1.35 U	0.35 U	1.17 U	1.3 J	26 J	-	1.7 J	14.17 J	1.4 J	8.24 J	1.2 J	6 J	2.6	12.38
Tetrachloroethene	µg/L	8.85	0.15 U	0.58 U	0.15 U	0.5 U	0.15 U	3 U	-	0.15 U	1.25 U	0.15 U	0.88 U	0.15 U	0.75 U	0.15 U	0.71 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.73 U	0.19 U	0.63 U	0.19 U	3.8 U	-	0.19 U	1.58 U	0.19 U	1.12 U	0.19 U	0.95 U	0.19 U	0.9 U
Trichloroethene	µg/L	81	0.16 U	0.62 U	0.16 U	0.53 U	0.16 U	3.2 U	-	0.16 U	1.33 U	0.16 U	0.94 U	0.16 U	0.8 U	0.16 U	0.76 U
Vinyl chloride	µg/L	2.4	0.23 U	0.88 U	0.23 U	0.77 U	0.23 U	4.6 U	-	0.23 U	1.92 U	0.23 U	1.35 U	0.23 U	1.15 U	0.23 U	1.1 U
Semi-volatile Organic Compounds																	
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (Field Filtered)																	
Arsenic	µg/L	0.14	-	-	-	-	-	433	1804.17	-	-	-	-	-	-	-	-
Chromium Total	µg/L	50	-	-	-	-	-	18.0	75	-	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	51.1	212.92	-	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	1.6	6.67	-	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	0.041 U	0.17 U	-	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	19.2	80	-	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	0.050 U	0.21 U	-	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	12 U	50 U	-	-	-	-	-	-	-	-
Field Parameters																	
Conductivity	mS/cm	NV	42.51	-	44.32	-	43.07	-	-	44.15	-	43.61	-	44.07	-	41.41	-
ORP	millivolts	NV	186	-	171	-	248	-	-	246	-	237	-	233	-	238	-
pH	s.u.	7 - 8.5	7.73	-	7.7	-	7.43	-	-	7.57	-	7.59	-	7.62	-	7.6	-
Temperature	Deg C	NV	22.7	-	22.5	-	20.2	-	-	20.6	-	19.7	-	21	-	20.6	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 SEEPAGE MONITORING PROGRAM
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

		SMS9 (cont)										SM11						
Sample Location:		GW-061306-SM-9-GH-006		GW-061306-SM-9-GH-007		GW-061306-SM-9-GH-008		GW-061306-SM-9-GH-009		GW-061306-SM-9-GH-010		GW-061406-SM-11-GH-001		GW-061406-SM-11-GH-001-001		GW-061406-SM-11-GH-002		
Sample ID:		6/13/2006		6/13/2006		6/13/2006		6/13/2006		6/13/2006		6/14/2006		6/14/2006		6/14/2006		
Sample Date:		Grab		Grab		Grab		Grab		Grab		Grab		Composite		Grab		
Sample Method:		23		27		32		37		42		27		78		58		
Discharge Fraction (%):																		
Parameters	Units	Groundwater Cleanup Level ⁽¹⁾		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		
		Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	1.17 U	0.27 U	1 U	0.27 U	0.84 U	0.27 U	0.73 U	0.27 U	0.64 U	0.27 U	1 U	-	-	0.27 U	0.47 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.87 U	0.2 U	0.74 U	0.2 U	0.62 U	0.2 U	0.54 U	0.2 U	0.48 U	0.2 U	0.74 U	-	-	0.2 U	0.34 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	1.3 U	0.30 U	1.11 U	0.30 U	0.94 U	0.30 U	0.81 U	0.30 U	0.71 U	0.30 U	1.11 U	-	-	0.30 U	0.52 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.43 U	0.10 U	0.37 U	0.10 U	0.31 U	0.10 U	0.27 U	0.10 U	0.24 U	0.10 U	0.37 U	-	-	0.10 U	0.17 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.7 U	0.16 U	0.59 U	0.16 U	0.5 U	0.16 U	0.43 U	0.16 U	0.38 U	0.16 U	0.59 U	-	-	0.16 U	0.28 U
cis-1,2-Dichloroethene	µg/L	16	0.16 U	0.7 U	0.16 U	0.59 U	0.16 U	0.5 U	0.16 U	0.43 U	0.16 U	0.38 U	0.16 U	0.59 U	-	-	0.16 U	0.28 U
Methylene chloride	µg/L	1600	1.3 J	5.65 J	0.88 J	3.26 J	1 J	3.12 J	1 J	2.7 J	1 J	2.38 J	0.35 U	1.3 U	-	-	0.35 U	0.6 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.65 U	0.15 U	0.56 U	0.15 U	0.47 U	0.15 U	0.41 U	0.15 U	0.36 U	0.15 U	0.56 U	-	-	0.15 U	0.26 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.83 U	0.19 U	0.7 U	0.19 U	0.59 U	0.19 U	0.51 U	0.19 U	0.45 U	0.19 U	0.7 U	-	-	0.19 U	0.33 U
Trichloroethene	µg/L	81	0.16 U	0.7 U	0.16 U	0.59 U	0.16 U	0.5 U	0.16 U	0.43 U	0.16 U	0.38 U	0.16 U	0.59 U	-	-	0.16 U	0.28 U
Vinyl chloride	µg/L	2.4	0.23 U	1 U	0.23 U	0.85 U	0.23 U	0.72 U	0.23 U	0.62 U	0.23 U	0.55 U	0.23 U	0.85 U	-	-	0.23 U	0.4 U
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	0.016 U	0.02 U	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	0.05 U	0.06 U	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	0.30 U	0.38 U	-	-
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	-	-	-	-	-	-	-	-	-	-	-	-	302 J	387.18 J	-	-
Chromium Total	µg/L	50	-	-	-	-	-	-	-	-	-	-	-	-	10.7	13.72	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-	-	-	-	-	-	48.6	62.31	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-	-	-	-	-	-	0.81 J	1.04 J	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-	-	-	-	-	-	0.31	0.4	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-	-	-	-	-	-	19.7	25.26	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-	-	-	-	-	-	0.050 U	0.06 U	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-	-	-	-	-	-	29.4 J	37.69 J	-	-
Field Parameters																		
Conductivity	mS/cm	NV	43.12	-	43.73	-	43.36	-	43.33	-	43.39	-	36.54	-	-	-	36.88	-
ORP	millivolts	NV	238	-	239	-	241	-	244	-	234	-	250	-	-	-	246	-
pH	s.u.	7 - 8.5	7.58	-	7.56	-	7.62	-	7.62	-	7.63	-	6.88	-	-	-	7.21	-
Temperature	Deg C	NV	21.7	-	20	-	20.4	-	20.4	-	21	-	18.3	-	-	-	17.8	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 SEEPAGE MONITORING PROGRAM
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

		SM11 (cont)										SM14						
Sample Location:		GW-061406-SM-11-GH-003		GW-061406-SM-11-GH-004		GW-061406-SM-11-GH-005		GW-061406-SM-11-GH-006		GW-061406-SM-11-GH-007		GW-061406-SM-11-GH-008		GW-062306-SM-14-GH-001		GW-062306-SM-14-GH-002		
Sample ID:		6/14/2006		6/14/2006		6/14/2006		6/14/2006		6/14/2006		6/14/2006		6/23/2006		6/23/2006		
Sample Date:		Grab		Grab		Grab		Grab		Grab		Grab		Grab		Grab		
Sample Method:		Grab		Grab		Grab		Grab		Grab		Grab		Grab		Grab		
Discharge Fraction (%):		-	75	-	83	-	90	-	94	-	96	-	97	-	4	-	11	
Parameters	Units	Groundwater Cleanup Level ⁽¹⁾		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		
		Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.36 U	0.27 U	0.33 U	0.27 U	0.3 U	0.27 U	0.29 U	0.27 U	0.28 U	0.27 U	0.28 U	0.27 U	6.75 U	0.27 U	2.45 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.27 U	0.2 U	0.24 U	0.2 U	0.22 U	0.2 U	0.21 U	0.2 U	0.21 U	0.2 U	0.21 U	0.2 U	5 U	0.2 U	1.82 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.4 U	0.30 U	0.36 U	0.30 U	0.33 U	0.30 U	0.32 U	0.30 U	0.31 U	0.30 U	0.31 U	0.30 U	7.5 U	0.30 U	2.73 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.13 U	0.10 U	0.12 U	0.10 U	0.11 U	0.10 U	0.11 U	0.10 U	0.1 U	0.10 U	0.1 U	0.10 U	2.5 U	0.10 U	0.91 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.21 U	0.16 U	0.19 U	0.16 U	0.18 U	0.16 U	0.17 U	0.16 U	0.17 U	0.16 U	0.16 U	0.16 U	4 U	0.16 U	1.45 U
cis-1,2-Dichloroethene	µg/L	16	0.16 U	0.21 U	0.16 U	0.19 U	0.16 U	0.18 U	0.16 U	0.17 U	0.16 U	0.17 U	0.16 U	0.16 U	0.84 J	21 J	0.83 J	7.55 J
Methylene chloride	µg/L	1600	0.35 U	0.47 U	0.35 U	0.42 U	0.35 U	0.39 U	0.35 U	0.37 U	0.35 U	0.36 U	0.35 U	0.36 U	1.7 J	42.5 J	1.4 J	12.73 J
Tetrachloroethene	µg/L	8.85	0.15 U	0.2 U	0.15 U	0.18 U	0.15 U	0.17 U	0.15 U	0.16 U	0.15 U	0.16 U	0.15 U	0.15 U	0.15 U	3.75 U	0.15 U	1.36 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.25 U	0.19 U	0.23 U	0.19 U	0.21 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	4.75 U	0.19 U	1.73 U
Trichloroethene	µg/L	81	0.16 U	0.21 U	0.16 U	0.19 U	0.16 U	0.18 U	0.16 U	0.17 U	0.16 U	0.17 U	0.16 U	0.16 U	0.75 J	18.75 J	0.82 J	7.45 J
Vinyl chloride	µg/L	2.4	0.23 U	0.31 U	0.23 U	0.28 U	0.23 U	0.26 U	0.23 U	0.24 U	0.23 U	0.24 U	0.23 U	0.24 U	0.23 U	5.75 U	0.23 U	2.09 U
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	µg/L	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mS/cm	NV	37.83	-	37.94	-	37.79	-	37.86	-	38.26	-	37.74	-	40.01	-	40.82	-
ORP	millivolts	NV	241	-	258	-	233	-	181	-	137	-	94	-	223	-	220	-
pH	s.u.	7 - 8.5	7	-	6.99	-	6.98	-	6.99	-	6.98	-	7.07	-	7.53	-	7.58	-
Temperature	Deg C	NV	17.7	-	17.7	-	18.1	-	18.7	-	18.3	-	19	-	21.7	-	21.7	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 SEEPAGE MONITORING PROGRAM
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

		SM14 (cont)														SM15		
Sample Location:																		
Sample ID:		GW-062306-SM-14-GH-003	GW-062306-SM-14-GH-004	GW-062306-SM-14-GH-007	GW-062306-SM-14-GH-008	GW-062306-SM-14-GH-009	GW-062306-SM-14-GH-010	V-062306-SM-14-GH-01-05/08					GW-061606-SM-15-JPL-001					
Sample Date:		6/23/2006	6/23/2006	6/23/2006	6/23/2006	6/23/2006	6/23/2006	6/23/2006	6/23/2006					6/16/2006				
Sample Method:		Grab	Grab	Grab	Grab	Grab	Grab	Composite					Grab					
Discharge Fraction (%):		- 18	- 26	- 30	- 35	- 44	- 56	- 36					- 6					
Parameters	Units	Groundwater	Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration			
		Cleanup Level ⁽¹⁾	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*		
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	1.5 U	0.27 U	1.04 U	0.27 U	0.9 U	0.27 U	0.77 U	0.27 U	0.61 U	0.27 U	0.48 U	-	-	0.27 U	4.5 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	1.11 U	0.2 U	0.77 U	0.2 U	0.67 U	0.2 U	0.57 U	0.2 U	0.45 U	0.2 U	0.36 U	-	-	0.2 U	3.33 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	1.67 U	0.30 U	1.15 U	0.30 U	1 U	0.30 U	0.86 U	0.30 U	0.68 U	0.30 U	0.54 U	-	-	0.30 U	5 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.56 U	0.10 U	0.38 U	0.10 U	0.33 U	0.10 U	0.29 U	0.10 U	0.23 U	0.10 U	0.18 U	-	-	0.10 U	1.67 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.89 U	0.16 U	0.62 U	0.16 U	0.53 U	0.16 U	0.46 U	0.16 U	0.36 U	0.16 U	0.29 U	-	-	0.16 U	2.67 U
cis-1,2-Dichloroethene	µg/L	16	0.79 J	4.39 J	0.77 J	2.96 J	0.60 J	2 J	0.77 J	2.2 J	0.85 J	1.93 J	0.76 J	1.36 J	-	-	2.9	48.33
Methylene chloride	µg/L	1600	0.83 J	4.61 J	1.2 J	4.62 J	1.4 J	4.67 J	0.98 J	2.8 J	1.8 J	4.09 J	0.94 J	1.68 J	-	-	0.35 U	5.83 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.83 U	0.15 U	0.58 U	0.15 U	0.5 U	0.15 U	0.43 U	0.15 U	0.34 U	0.15 U	0.27 U	-	-	0.31 J	5.17 J
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	1.06 U	0.19 U	0.73 U	0.19 U	0.63 U	0.19 U	0.54 U	0.19 U	0.43 U	0.19 U	0.34 U	-	-	0.19 U	3.17 U
Trichloroethene	µg/L	81	0.75 J	4.17 J	0.71 J	2.73 J	0.63 J	2.1 J	0.72 J	2.06 J	0.83 J	1.89 J	0.61 J	1.09 J	-	-	0.92 J	15.33 J
Vinyl chloride	µg/L	2.4	0.23 U	1.28 U	0.23 U	0.88 U	0.23 U	0.77 U	0.23 U	0.66 U	0.23 U	0.52 U	0.23 U	0.41 U	-	-	0.82 J	13.67 J
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	-	-	-	-	-	-	-	-	-	-	-	233 J	647.22 J	-	-	-
Chromium Total	µg/L	50	-	-	-	-	-	-	-	-	-	-	-	13.7 U	38.06 U	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-	-	-	-	-	62.5	173.61	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-	-	-	-	-	7.6	21.11	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-	-	-	-	-	0.19 U	0.53 U	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-	-	-	-	-	24.5	68.06	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-	-	-	-	-	0.15 U	0.42 U	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-	-	-	-	-	18.5 J	51.39 J	-	-	-
Field Parameters																		
Conductivity	mS/cm	NV	41.10	-	41.09	-	-	40.85	-	41.52	-	40.35	-	-	-	-	44.2	-
ORP	millivolts	NV	246	-	213	-	220	246	-	226	-	239	-	-	-	-	243	-
pH	s.u.	7 - 8.5	7.47	-	7.59	-	7.7	7.59	-	7.66	-	7.35	-	-	-	-	7.56	-
Temperature	Deg C	NV	22.5	-	21.9	-	23.9	22.5	-	20.9	-	22.2	-	-	-	-	21.7	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
SEEPAGE MONITORING PROGRAM
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

		SM15 (cont)																
Sample Location:		GW-061606-SM-15-JPL-002		GW-061606-SM-15-JPL-003		GW-061606-SM-15-JPL-005		GW-061606-SM-15-JPL-006		GW-061606-SM-15-JPL-007		GW-061606-SM-15-JPL-008		GW-061606-SM-15-JPL-009		GW-061606-SM-15-JPL-010		
Sample ID:		6/16/2006		6/16/2006		6/16/2006		6/16/2006		6/16/2006		6/16/2006		6/16/2006		6/16/2006		
Sample Date:		Grab		Grab		Grab		Grab		Grab		Grab		Grab		Grab		
Sample Method:		Grab		Grab		Grab		Grab		Grab		Grab		Grab		Grab		
Discharge Fraction (%):		-	15	-	20	-	23	-	26	-	30	-	33	-	36	-	40	
Parameters	Units	Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		
		Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	1.8 U	0.27 U	1.35 U	0.27 UJ	1.17 UJ	0.27 U	1.04 U	0.27 U	0.9 U	0.27 U	0.82 U	0.27 U	0.75 U	0.27 U	0.68 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	1.33 U	0.2 U	1 U	0.2 UJ	0.87 UJ	0.2 U	0.77 U	0.2 U	0.67 U	0.2 U	0.61 U	0.2 U	0.56 U	0.2 U	0.5 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	2 U	0.30 U	1.5 U	0.30 UJ	1.3 UJ	0.30 U	1.15 U	0.30 U	1 U	0.30 U	0.91 U	0.30 U	0.83 U	0.30 U	0.75 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.67 U	0.10 U	0.5 U	0.10 UJ	0.43 UJ	0.10 U	0.38 U	0.10 U	0.33 U	0.10 U	0.3 U	0.10 U	0.28 U	0.10 U	0.25 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	1.07 U	0.18 J	0.9 J	0.16 UJ	0.7 UJ	0.17 J	0.65 J	0.16 U	0.53 U	0.16 U	0.48 U	0.20 J	0.56 J	0.16 U	0.4 U
cis-1,2-Dichloroethene	µg/L	16	2.6	17.33	2.0	10	1.3 J	5.65 J	1.7	6.54	2.0	6.67	1.7	5.15	1.9	5.28	1.8	4.5
Methylene chloride	µg/L	1600	0.35 U	2.33 U	0.35 U	1.75 U	0.35 UJ	1.52 UJ	0.35 U	1.35 U	0.35 U	1.17 U	0.35 U	1.06 U	0.35 U	0.97 U	0.35 U	0.87 U
Tetrachloroethene	µg/L	8.85	0.41 J	2.73 J	0.27 J	1.35 J	0.15 UJ	0.65 UJ	0.20 J	0.77 J	0.21 J	0.7 J	0.15 U	0.45 U	0.22 J	0.61 J	0.21 J	0.52 J
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	1.27 U	0.19 U	0.95 U	0.19 UJ	0.83 UJ	0.19 U	0.73 U	0.19 U	0.63 U	0.19 U	0.58 U	0.19 U	0.53 U	0.19 U	0.48 U
Trichloroethene	µg/L	81	0.91 J	6.07 J	0.43 J	2.15 J	0.78 J	3.39 J	0.52 J	2 J	0.67 J	2.23 J	0.37 J	1.12 J	0.55 J	1.53 J	0.46 J	1.15 J
Vinyl chloride	µg/L	2.4	0.86 J	5.73 J	0.56 J	2.8 J	0.81 J	3.52 J	0.49 J	1.88 J	0.58 J	1.93 J	0.57 J	1.73 J	0.51 J	1.42 J	0.49 J	1.22 J
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	µg/L	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mS/cm	NV	44.07	-	42.4	-	42.8	-	42.81	-	43.84	-	43.34	-	41.21	-	43.37	-
ORP	millivolts	NV	231	-	209	-	207	-	206	-	249	-	260	-	245	-	218	-
pH	s.u.	7 - 8.5	7.6	-	7.63	-	7.75	-	7.62	-	7.6	-	7.57	-	7.62	-	7.66	-
Temperature	Deg C	NV	21.5	-	23.3	-	23.9	-	22.1	-	21.8	-	21.7	-	23.9	-	22.2	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 SEEPAGE MONITORING PROGRAM
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

			SM16				SM18											
Sample Location:			SM16				SM18											
Sample ID:			GW-062806-SM-16-GH-001		GW-062206-SM-18-GH-001		GW-062206-SM-18-GH-002		GW-062206-SM-18-GH-003		GW-062206-SM-18-GH-007		GW-062206-SM-18-GH-008		GW-062206-SM-18-GH-009		GW-062206-SM-18-GH-010	
Sample Date:			6/28/2006		6/22/2006		6/22/2006		6/22/2006		6/22/2006		6/22/2006		6/22/2006		6/22/2006	
Sample Method:			Grab		Grab		Grab		Grab		Grab		Grab		Grab		Grab	
Discharge Fraction (%):			-	1	-	2	-	7	-	11	-	15	-	21	-	26	-	28
Parameters	Units	Groundwater	Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration	
		Cleanup Level ⁽¹⁾	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	0.54 U	54 U	0.27 U	13.5 U	0.27 U	3.86 U	0.27 U	2.45 U	0.27 U	1.8 U	0.27 U	1.29 U	0.27 U	1.04 U	0.27 U	0.96 U
1,1,2-Trichloroethane	µg/L	42	0.4 U	40 U	0.2 U	10 U	0.2 U	2.86 U	0.2 U	1.82 U	0.2 U	1.33 U	0.2 U	0.95 U	0.2 U	0.77 U	0.2 U	0.71 U
1,1-Dichloroethene	µg/L	3.2	0.60 U	60 U	0.30 U	15 U	0.30 U	4.29 U	0.30 U	2.73 U	0.30 U	2 U	0.30 U	1.43 U	0.30 U	1.15 U	0.30 U	1.07 U
Carbon tetrachloride	µg/L	4.4	0.20 U	20 U	0.10 U	5 U	0.10 U	1.43 U	0.10 U	0.91 U	0.10 U	0.67 U	0.10 U	0.48 U	0.10 U	0.38 U	0.10 U	0.36 U
Chloroform (Trichloromethane)	µg/L	470	0.32 U	32 U	0.16 U	8 U	0.16 U	2.29 U	0.27 J	2.45 J	0.16 U	1.07 U	0.16 U	0.76 U	0.16 U	0.62 U	0.16 U	0.57 U
cis-1,2-Dichloroethene	µg/L	16	0.40 J	40 J	0.16 U	8 U	0.16 U	2.29 U	0.16 U	1.45 U	0.16 U	1.07 U	0.16 U	0.76 U	0.16 U	0.62 U	0.16 U	0.57 U
Methylene chloride	µg/L	1600	0.70 U	70 U	0.35 U	17.5 U	0.35 U	5 U	0.35 U	3.18 U	0.35 U	2.33 U	0.35 U	1.67 U	0.35 U	1.35 U	1.1	3.93
Tetrachloroethene	µg/L	8.85	0.30 U	30 U	0.15 U	7.5 U	0.15 U	2.14 U	0.15 U	1.36 U	0.15 U	1 U	0.15 U	0.71 U	0.15 U	0.58 U	0.15 U	0.54 U
trans-1,2-Dichloroethene	µg/L	10000	0.38 U	38 U	0.19 U	9.5 U	0.19 U	2.71 U	0.19 U	1.73 U	0.19 U	1.27 U	0.19 U	0.9 U	0.19 U	0.73 U	0.19 U	0.68 U
Trichloroethene	µg/L	81	0.32 U	32 U	0.16 U	8 U	0.16 U	2.29 U	0.16 U	1.45 U	0.16 U	1.07 U	0.16 U	0.76 U	0.16 U	0.62 U	0.16 U	0.57 U
Vinyl chloride	µg/L	2.4	0.46 U	46 U	0.23 U	11.5 U	0.23 U	3.29 U	0.23 U	2.09 U	0.23 U	1.53 U	0.23 U	1.1 U	0.23 U	0.88 U	0.23 U	0.82 U
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	µg/L	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mS/cm	NV	41.77	-	40.56	-	40.97	-	37.9	-	41.71	-	42.47	-	42.87	-	42.86	-
ORP	millivolts	NV	91	-	268	-	249	-	255	-	274	-	248	-	263	-	257	-
pH	s.u.	7 - 8.5	7.73	-	7.25	-	7.53	-	7.36	-	7.47	-	7.53	-	7.4	-	7.55	-
Temperature	Deg C	NV	18.7	-	21.4	-	20.5	-	21.3	-	21.4	-	21.8	-	21.7	-	21.4	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
SEEPAGE MONITORING PROGRAM
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

		Sample Location:																
		SM19												SM20				
Sample ID:		GW-062206-SM-19-GH-001		1-062206-SM-19-GH-001-006/C		GW-062206-SM-19-GH-002		GW-062206-SM-19-GH-003		GW-062206-SM-19-GH-004		GW-062206-SM-19-GH-005		GW-062206-SM-19-GH-006		GW-062306-SM-20-GH-001		
Sample Date:		6/22/2006		6/22/2006		6/22/2006		6/22/2006		6/22/2006		6/22/2006		6/22/2006		6/23/2006		
Sample Method:		Grab		Composite		Grab		Grab		Grab		Grab		Grab		Grab		
Discharge Fraction (%):		4		28		10		16		20		24		29		6		
Parameters	Units	Groundwater Cleanup Level ⁽¹⁾	Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration			
			Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*		
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	6.75 U	-	-	0.27 U	2.7 U	0.27 U	1.69 U	0.27 U	1.35 U	0.27 U	1.13 U	0.27 U	0.93 U	0.27 U	4.5 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	5 U	-	-	0.2 U	2 U	0.2 U	1.25 U	0.2 U	1 U	0.2 U	0.83 U	0.2 U	0.69 U	0.2 U	3.33 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	7.5 U	-	-	0.30 U	3 U	0.30 U	1.88 U	0.30 U	1.5 U	0.30 U	1.25 U	0.30 U	1.03 U	0.30 U	5 U
Carbon tetrachloride	µg/L	4.4	0.10 U	2.5 U	-	-	0.10 U	1 U	0.10 U	0.62 U	0.10 U	0.5 U	0.10 U	0.42 U	0.10 U	0.34 U	0.10 U	1.67 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	4 U	-	-	0.16 U	1.6 U	0.16 U	1 U	0.16 U	0.8 U	0.16 U	0.67 U	0.16 U	0.55 U	0.16 U	2.67 U
cis-1,2-Dichloroethene	µg/L	16	0.16 U	4 U	-	-	0.16 U	1.6 U	0.16 U	1 U	0.16 U	0.8 U	0.16 U	0.67 U	0.16 U	0.55 U	0.16 U	2.67 U
Methylene chloride	µg/L	1600	0.40 J	10 J	-	-	0.35 U	3.5 U	0.35 U	2.19 U	1.1 J	5.5 J	0.81 J	3.38 J	0.67 J	2.31 J	0.70 J	11.67 J
Tetrachloroethene	µg/L	8.85	0.15 U	3.75 U	-	-	0.15 U	1.5 U	0.15 U	0.94 U	0.15 U	0.75 U	0.15 U	0.62 U	0.15 U	0.52 U	0.15 U	2.5 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	4.75 U	-	-	0.19 U	1.9 U	0.19 U	1.19 U	0.19 U	0.95 U	0.19 U	0.79 U	0.19 U	0.66 U	0.19 U	3.17 U
Trichloroethene	µg/L	81	0.16 U	4 U	-	-	0.16 U	1.6 U	0.16 U	1 U	0.16 U	0.8 U	0.16 U	0.67 U	0.16 U	0.55 U	0.16 U	2.67 U
Vinyl chloride	µg/L	2.4	0.23 U	5.75 U	-	-	0.23 U	2.3 U	0.23 U	1.44 U	0.23 U	1.15 U	0.23 U	0.96 U	0.23 U	0.79 U	0.23 U	3.83 U
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	-	-	321 J	1146.43 J	-	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	µg/L	50	-	-	14.3	51.07	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	60.4	215.71	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	1.5	5.36	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	0.14 U	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	26.7	95.36	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	0.34 U	1.21 U	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	21.4 J	76.43 J	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mS/cm	NV	41.61	-	-	-	42.74	-	42.28	-	41.64	-	43.03	-	-	-	42.18	-
ORP	millivolts	NV	263	-	-	-	250	-	247	-	273	-	266	-	247	-	252	-
pH	s.u.	7 - 8.5	7.17	-	-	-	7.42	-	7.45	-	7.44	-	7.51	-	7.54	-	6.92	-
Temperature	Deg C	NV	22	-	-	-	21	-	22.3	-	21.5	-	19.9	-	21.8	-	21.6	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 SEEPAGE MONITORING PROGRAM
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

		SM20 (cont)																	
Sample Location:																			
Sample ID:		GW-062306-SM-20-GH-002	GW-062306-SM-20-GH-003	GW-062306-SM-20-GH-004	GW-062306-SM-20-GH-005	GW-062306-SM-20-GH-006	GW-062306-SM-20-GH-007	GW-062306-SM-20-GH-008	GW-062306-SM-20-GH-009										
Sample Date:		6/23/2006		6/23/2006		6/23/2006		6/23/2006		6/23/2006		6/23/2006		6/23/2006		6/23/2006			
Sample Method:		Grab		Grab		Grab		Grab		Grab		Grab		Grab		Grab			
Discharge Fraction (%):		-	12	-	15	-	20	-	30	-	37	-	40	-	47	-	55		
Parameters	Units	Groundwater Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration			
		Cleanup Level ⁽¹⁾	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	
Volatile Organic Compounds																			
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	2.25 U	0.27 U	1.8 U	0.27 U	1.35 U	0.27 U	0.9 U	0.27 U	0.73 U	0.27 U	0.68 U	0.27 U	0.57 U	0.27 U	0.49 U	
1,1,2-Trichloroethane	µg/L	42	0.2 U	1.67 U	0.2 U	1.33 U	0.2 U	1 U	0.2 U	0.67 U	0.2 U	0.54 U	0.2 U	0.5 U	0.2 U	0.43 U	0.2 U	0.36 U	
1,1-Dichloroethene	µg/L	3.2	0.30 U	2.5 U	0.30 U	2 U	0.30 U	1.5 U	0.30 U	1 U	0.30 U	0.81 U	0.30 U	0.75 U	0.30 U	0.64 U	0.30 U	0.55 U	
Carbon tetrachloride	µg/L	4.4	0.10 U	0.83 U	0.10 U	0.67 U	0.10 U	0.5 U	0.10 U	0.33 U	0.10 U	0.27 U	0.10 U	0.25 U	0.10 U	0.21 U	0.10 U	0.18 U	
Chloroform (Trichloromethane)	µg/L	470	0.16 U	1.33 U	0.16 U	1.07 U	0.16 U	0.8 U	0.16 U	0.53 U	0.16 U	0.43 U	0.16 U	0.4 U	0.16 U	0.34 U	0.16 U	0.29 U	
cis-1,2-Dichloroethene	µg/L	16	0.16 U	1.33 U	0.16 U	1.07 U	0.16 U	0.8 U	0.16 U	0.53 U	0.16 U	0.43 U	0.16 U	0.4 U	0.16 U	0.54 J	1.15 J	0.55 J	1 J
Methylene chloride	µg/L	1600	2.5	20.83	2.9	19.33	3.4	17	1.9	6.33	2.2	5.95	2.2	5.5	2.2	4.68	1.9	3.45	
Tetrachloroethene	µg/L	8.85	0.15 U	1.25 U	0.15 U	1 U	0.15 U	0.75 U	0.15 U	0.5 U	0.15 U	0.41 U	0.15 U	0.37 U	0.15 U	0.32 U	0.15 U	0.27 U	
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	1.58 U	0.19 U	1.27 U	0.19 U	0.95 U	0.19 U	0.63 U	0.19 U	0.51 U	0.19 U	0.48 U	0.19 U	0.4 U	0.19 U	0.35 U	
Trichloroethene	µg/L	81	0.16 U	1.33 U	0.16 U	1.07 U	0.16 U	0.8 U	0.16 U	0.53 U	0.16 U	0.43 U	0.16 U	0.4 U	0.28 J	0.6 J	0.42 J	0.76 J	
Vinyl chloride	µg/L	2.4	0.23 U	1.92 U	0.23 U	1.53 U	0.23 U	1.15 U	0.23 U	0.77 U	0.23 U	0.62 U	0.23 U	0.57 U	0.23 U	0.49 U	0.23 U	0.42 U	
Semi-volatile Organic Compounds																			
Hexachlorobenzene	µg/L	0.01*/(0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals (Field Filtered)																			
Arsenic	µg/L	0.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium Total	µg/L	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mercury	µg/L	0.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	0.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Field Parameters																			
Conductivity	mS/cm	NV	42.85	-	-	-	42.59	-	41.78	-	42.35	-	43.46	-	42.75	-	43.17	-	
ORP	millivolts	NV	225	-	208	-	234	-	251	-	231	-	232	-	241	-	234	-	
pH	s.u.	7 - 8.5	7.43	-	7.59	-	7.49	-	7.47	-	7.5	-	7.47	-	7.31	-	7.47	-	
Temperature	Deg C	NV	22	-	22.3	-	21.9	-	19.8	-	20.1	-	20.4	-	20.3	-	19.9	-	

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 SEEPAGE MONITORING PROGRAM
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

		SM20 (c0nt)				SM21				SM23								
Sample Location:		SM20 (c0nt)				SM21				SM23								
Sample ID:		GW-062306-SM-20-GH-010		V-062306-SM-20-GH-01-03/05-		GW-062606-SM-21-GH-001		GW-062606-SM-21-GH-003		GW-062606-SM-21-GH-010		GW-062406-SM-23-GH-001		VW-062406-SM-23-GH-001-004		GW-062406-SM-23-GH-002		
Sample Date:		6/23/2006		6/23/2006		6/26/2006		6/26/2006		6/26/2006		6/24/2006		6/24/2006		6/24/2006		
Sample Method:		Grab		Composite		Grab		Grab		Grab		Composite		Composite		Grab		
Discharge Fraction (%):		- 62		- 38		- 2		- 6		- 10		- 8		- 24		- 20		
Parameters	Units	Groundwater Cleanup Level ⁽¹⁾		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		
		Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.44 U	-	-	0.27 U	13.5 U	0.27 U	4.5 U	0.27 U	2.7 U	0.27 U	3.38 U	-	-	0.27 U	1.35 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.32 U	-	-	0.2 U	10 U	0.2 U	3.33 U	0.2 U	2 U	0.2 U	2.5 U	-	-	0.2 U	1 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.48 U	-	-	0.30 U	15 U	0.30 U	5 U	0.30 U	3 U	0.30 U	3.75 U	-	-	0.30 U	1.5 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.16 U	-	-	0.10 U	5 U	0.10 U	1.67 U	0.10 U	1 U	0.10 U	1.25 U	-	-	0.10 U	0.5 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.26 U	-	-	0.16 U	8 U	0.16 U	2.67 U	0.16 U	1.6 U	0.16 U	2 U	-	-	0.16 U	0.8 U
cis-1,2-Dichloroethene	µg/L	16	1.1	1.77	-	-	0.16 U	8 U	0.16 U	2.67 U	0.16 U	1.6 U	0.16 U	2 U	-	-	0.16 U	0.8 U
Methylene chloride	µg/L	1600	0.35 U	0.56 U	-	-	0.35 U	17.5 U	0.35 U	5.83 U	0.35 U	3.5 U	1.2 J	15 J	-	-	1.3 J	6.5 J
Tetrachloroethene	µg/L	8.85	0.15 U	0.24 U	-	-	0.15 U	7.5 U	0.15 U	2.5 U	0.15 U	1.5 U	0.15 U	1.88 U	-	-	0.15 U	0.75 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.31 U	-	-	0.19 U	9.5 U	0.19 U	3.17 U	0.19 U	1.9 U	0.19 U	2.38 U	-	-	0.19 U	0.95 U
Trichloroethene	µg/L	81	0.84 J	1.35 J	-	-	0.16 U	8 U	0.16 U	2.67 U	0.16 U	1.6 U	0.16 U	2 U	-	-	0.16 U	0.8 U
Vinyl chloride	µg/L	2.4	0.61 J	0.98 J	-	-	0.23 U	11.5 U	0.23 U	3.83 U	0.23 U	2.3 U	0.23 U	2.88 U	-	-	0.23 U	1.15 U
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	-	-	324 J	852.63 J	-	-	-	-	-	-	-	270 J	1125 J	-	-	-
Chromium Total	µg/L	50	-	-	16.3	42.89	-	-	-	-	-	-	-	14.3 U	59.58 U	-	-	-
Copper	µg/L	2.4	-	-	75.4	198.42	-	-	-	-	-	-	-	62.8	261.67	-	-	-
Lead	µg/L	8.1	-	-	0.82 J	2.16 J	-	-	-	-	-	-	-	0.74 J	3.08 J	-	-	-
Mercury	µg/L	0.025	-	-	0.16 U	0.42 U	-	-	-	-	-	-	-	0.18 U	0.75 U	-	-	-
Nickel	µg/L	8.2	-	-	32.5	85.53	-	-	-	-	-	-	-	25.0	104.17	-	-	-
Thallium	µg/L	0.47	-	-	0.32 U	0.84 U	-	-	-	-	-	-	-	0.11 U	0.46 U	-	-	-
Zinc	µg/L	81	-	-	24.1 J	63.42 J	-	-	-	-	-	-	-	31.1 J	129.58 J	-	-	-
Field Parameters																		
Conductivity	mS/cm	NV	42.54	-	-	-	40.95	-	-	-	43.27	-	39.86	-	-	-	40.44	-
ORP	millivolts	NV	259	-	-	-	179	-	157	-	132	-	226	-	-	-	237	-
pH	s.u.	7 - 8.5	7.44	-	-	-	7.18	-	7.46	-	7.43	-	7.26	-	-	-	7.33	-
Temperature	Deg C	NV	20.1	-	-	-	-	-	-	-	-	-	21.7	-	-	-	22.8	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 SEEPAGE MONITORING PROGRAM
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:			SM23 (cont)															
Sample ID:	GW-062406-SM-23-GH-003		GW-062406-SM-23-GH-004		GW-062706-SM-23-GH-001		GW-062706-SM-23-GH-001-001		GW-062706-SM-23-GH-002		GW-062706-SM-23-GH-003		GW-062706-SM-23-GH-004		GW-062706-SM-23-GH-005			
Sample Date:	6/24/2006		6/24/2006		6/27/2006		6/27/2006		6/27/2006		6/27/2006		6/27/2006		6/27/2006			
Sample Method:	Grab		Grab		Grab		Composite		Grab		Grab		Grab		Grab			
Discharge Fraction (%):	- 29		- 38		- 8		- 41		- 22		- 31		- 38		- 44			
Parameters	Units	Groundwater Cleanup Level ⁽¹⁾	Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration			
			Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*		
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.93 U	0.27 U	0.71 U	0.54 U	6.75 U	-	-	0.54 U	2.45 U	0.54 U	1.74 U	0.54 U	1.42 U	0.54 U	1.23 U
1,1,2-Trichloroethane	µg/L	42	0.2 U	0.69 U	0.2 U	0.53 U	0.4 U	5 U	-	-	0.4 U	1.82 U	0.4 U	1.29 U	0.4 U	1.05 U	0.4 U	0.91 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	1.03 U	0.30 U	0.79 U	0.60 U	7.5 U	-	-	0.60 U	2.73 U	0.60 U	1.94 U	0.60 U	1.58 U	0.60 U	1.36 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.34 U	0.10 U	0.26 U	0.20 U	2.5 U	-	-	0.20 U	0.91 U	0.20 U	0.65 U	0.20 U	0.53 U	0.20 U	0.45 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.55 U	0.16 U	0.42 U	0.32 U	4 U	-	-	0.32 U	1.45 U	0.32 U	1.03 U	0.32 U	0.84 U	0.32 U	0.73 U
cis-1,2-Dichloroethene	µg/L	16	0.16 U	0.55 U	0.16 U	0.42 U	0.32 U	4 U	-	-	0.32 U	1.45 U	0.32 U	1.03 U	0.32 U	0.84 U	0.32 U	0.73 U
Methylene chloride	µg/L	1600	0.93 J	3.21 J	1.1 J	2.89 J	0.70 U	8.75 U	-	-	0.70 U	3.18 U	0.70 U	2.26 U	0.70 U	1.84 U	0.70 U	1.59 U
Tetrachloroethene	µg/L	8.85	0.15 U	0.52 U	0.15 U	0.39 U	0.30 U	3.75 U	-	-	0.30 U	1.36 U	0.30 U	0.97 U	0.30 U	0.79 U	0.30 U	0.68 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.66 U	0.19 U	0.5 U	0.38 U	4.75 U	-	-	0.38 U	1.73 U	0.38 U	1.23 U	0.38 U	1 U	0.38 U	0.86 U
Trichloroethene	µg/L	81	0.16 U	0.55 U	0.16 U	0.42 U	0.32 U	4 U	-	-	0.32 U	1.45 U	0.32 U	1.03 U	0.32 U	0.84 U	0.32 U	0.73 U
Vinyl chloride	µg/L	2.4	0.23 U	0.79 U	0.23 U	0.61 U	0.46 U	5.75 U	-	-	0.46 U	2.09 U	0.46 U	1.48 U	0.46 U	1.21 U	0.46 U	1.05 U
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(/0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	-	-	-	-	-	378	921.95	-	-	-	-	-	-	-	-	-
Chromium Total	µg/L	50	-	-	-	-	-	10.6 U	25.85 U	-	-	-	-	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	51.6	125.85	-	-	-	-	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	0.76 J	1.85 J	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	0.12 U	0.29 U	-	-	-	-	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	28.6	69.76	-	-	-	-	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	0.050 U	0.12 U	-	-	-	-	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	19.4 J	47.32 J	-	-	-	-	-	-	-	-	-
Field Parameters																		
Conductivity	mS/cm	NV	41.7	-	42.3	-	41.78	-	-	-	42.05	-	42.28	-	41.92	-	42.41	-
ORP	millivolts	NV	240	-	232	-	161	-	-	-	227	-	166	-	125	-	104	-
pH	s.u.	7 - 8.5	7.41	-	7.43	-	7.47	-	-	-	6.7	-	7.45	-	7.29	-	6.91	-
Temperature	Deg C	NV	22	-	23.4	-	22.7	-	-	-	23.4	-	22.5	-	23.4	-	21.4	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
SEEPAGE MONITORING PROGRAM
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

		SM23 (cont)								SM25								
Sample Location:																		
Sample ID:		GW-062706-SM-23-GH-006	GW-062706-SM-23-GH-007	GW-062706-SM-23-GH-008	GW-062706-SM-23-GH-009	GW-062706-SM-25-GH-001	GW-062706-SM-25-GH-001-002	GW-062706-SM-25-GH-002	GW-062706-SM-25-GH-003									
Sample Date:		6/27/2006		6/27/2006		6/27/2006		6/27/2006		6/27/2006		6/27/2006		6/27/2006		6/27/2006		
Sample Method:		Grab		Grab		Grab		Grab		Composite		Grab		Grab		Grab		
Discharge Fraction (%):		-	49	-	53	-	58	-	64	-	9	-	19	-	28	-	45	
Parameters	Units	Groundwater Cleanup Level ⁽¹⁾	Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration			
			Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*		
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	0.54 U	1.1 U	0.54 U	1.02 U	0.54 U	0.93 U	0.54 U	0.84 U	0.54 U	6 U	-	-	0.54 U	1.93 U	0.54 U	1.2 U
1,1,2-Trichloroethane	µg/L	42	0.4 U	0.82 U	0.4 U	0.75 U	0.4 U	0.69 U	0.4 U	0.62 U	0.4 U	4.44 U	-	-	0.4 U	1.43 U	0.4 U	0.89 U
1,1-Dichloroethene	µg/L	3.2	0.60 U	1.22 U	0.60 U	1.13 U	0.60 U	1.03 U	0.60 U	0.94 U	0.60 U	6.67 U	-	-	0.60 U	2.14 U	0.60 U	1.33 U
Carbon tetrachloride	µg/L	4.4	0.20 U	0.41 U	0.20 U	0.38 U	0.20 U	0.34 U	0.20 U	0.31 U	0.20 U	2.22 U	-	-	0.20 U	0.71 U	0.20 U	0.44 U
Chloroform (Trichloromethane)	µg/L	470	0.32 U	0.65 U	0.32 U	0.6 U	0.32 U	0.55 U	0.32 U	0.5 U	0.32 U	3.56 U	-	-	0.32 U	1.14 U	0.32 U	0.71 U
cis-1,2-Dichloroethene	µg/L	16	0.32 U	0.65 U	0.32 U	0.6 U	0.32 U	0.55 U	0.32 U	0.5 U	0.32 U	3.56 U	-	-	0.32 U	1.14 U	0.32 U	0.71 U
Methylene chloride	µg/L	1600	0.70 U	1.43 U	0.70 U	1.32 U	0.70 U	1.21 U	0.70 U	1.09 U	0.70 U	7.78 U	-	-	0.70 U	2.5 U	0.70 U	1.56 U
Tetrachloroethene	µg/L	8.85	0.30 U	0.61 U	0.30 U	0.57 U	0.30 U	0.52 U	0.30 U	0.47 U	0.30 U	3.33 U	-	-	0.30 U	1.07 U	0.30 U	0.67 U
trans-1,2-Dichloroethene	µg/L	10000	0.38 U	0.78 U	0.38 U	0.72 U	0.38 U	0.66 U	0.38 U	0.59 U	0.38 U	4.22 U	-	-	0.38 U	1.36 U	0.38 U	0.84 U
Trichloroethene	µg/L	81	0.32 U	0.65 U	0.32 U	0.6 U	0.32 U	0.55 U	0.32 U	0.5 U	0.32 U	3.56 U	-	-	0.32 U	1.14 U	0.32 U	0.71 U
Vinyl chloride	µg/L	2.4	0.46 U	0.94 U	0.46 U	0.87 U	0.46 U	0.79 U	0.46 U	0.72 U	0.46 U	5.11 U	-	-	0.46 U	1.64 U	0.46 U	1.02 U
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	-	-	-	-	-	-	-	-	-	291	1531.58	-	-	-	-	-
Chromium Total	µg/L	50	-	-	-	-	-	-	-	-	-	8.2 U	43.16 U	-	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	-	-	-	-	43.9	231.05	-	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	-	-	-	-	2.7	14.21	-	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	-	-	-	-	0.16 U	0.84 U	-	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	-	-	-	-	23.7	124.74	-	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	-	-	-	-	0.056 U	0.29 U	-	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	-	-	-	-	21.6 J	113.68 J	-	-	-	-	-
Field Parameters																		
Conductivity	mS/cm	NV	41.84	-	41.53	-	41.93	-	40.36	-	36.64	-	-	-	36.81	-	37.52	-
ORP	millivolts	NV	174	-	158	-	90	-	114	-	216	-	-	-	210	-	165	-
pH	s.u.	7 - 8.5	7.19	-	7.15	-	7.15	-	7.02	-	7.24	-	-	-	7.48	-	7.55	-
Temperature	Deg C	NV	23.3	-	23.8	-	23.1	-	23.9	-	25.8	-	-	-	24.8	-	25.6	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 SEEPAGE MONITORING PROGRAM
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

		SM25 (cont)																
Sample Location:																		
Sample ID:		1W-062706-SM-25-GH-003-006W-062706-SM-25-GH-003-006 GW-062706-SM-25-GH-004 GW-062706-SM-25-GH-005 1W-062706-SM-25-GH-005-006 GW-062706-SM-25-GH-006 GW-062706-SM-25-GH-007 1W-062706-SM-25-GH-007-006																
Sample Date:		6/27/2006 6/27/2006 6/27/2006 6/27/2006 6/27/2006 6/27/2006 6/27/2006 6/27/2006 6/27/2006 6/27/2006																
Sample Method:		Composite Composite Composite Grab Composite Composite Composite Composite Composite Composite																
Discharge Fraction (%):		- 53 - 65 - 61 - 73 - 77 - 81 - 85 - 56																
Parameters	Units	Groundwater Cleanup Level ⁽¹⁾	Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration			
			Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*		
Volatile Organic Compounds																		
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	0.54 U	0.89 U	0.54 U	0.74 U	-	-	0.54 U	0.67 U	0.27 U	0.32 U	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	0.4 U	0.66 U	0.4 U	0.55 U	-	-	0.4 U	0.49 U	0.2 U	0.24 U	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	0.60 U	0.98 U	0.60 U	0.82 U	-	-	0.60 U	0.74 U	0.30 U	0.35 U	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	0.20 U	0.33 U	0.20 U	0.27 U	-	-	0.20 U	0.25 U	0.10 U	0.12 U	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	0.32 U	0.52 U	0.32 U	0.44 U	-	-	0.32 U	0.4 U	0.16 U	0.19 U	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	0.32 U	0.52 U	0.32 U	0.44 U	-	-	0.32 U	0.4 U	0.16 U	0.19 U	-	-
Methylene chloride	µg/L	1600	-	-	-	-	0.70 U	1.15 U	0.70 U	0.96 U	-	-	0.70 U	0.86 U	0.35 U	0.41 U	-	-
Tetrachloroethene	µg/L	8.85	-	-	-	-	0.30 U	0.49 U	0.30 U	0.41 U	-	-	0.30 U	0.37 U	0.15 U	0.18 U	-	-
trans-1,2-Dichloroethene	µg/L	10000	-	-	-	-	0.38 U	0.62 U	0.38 U	0.52 U	-	-	0.38 U	0.47 U	0.19 U	0.22 U	-	-
Trichloroethene	µg/L	81	-	-	-	-	0.32 U	0.52 U	0.32 U	0.44 U	-	-	0.32 U	0.4 U	0.16 U	0.19 U	-	-
Vinyl chloride	µg/L	2.4	-	-	-	-	0.46 U	0.75 U	0.46 U	0.63 U	-	-	0.46 U	0.57 U	0.23 U	0.27 U	-	-
Semi-volatile Organic Compounds																		
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	0.016 U	0.02 U	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	0.05 U	0.08 U	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	0.30 U	0.46 U	-	-	-	-	-	-	-	-	-	-	-	-
Metals (Field Filtered)																		
Arsenic	µg/L	0.14	352	664.15	-	-	-	-	-	-	381	494.81	-	-	-	-	335	598.21
Chromium Total	µg/L	50	8.6 U	16.23 U	-	-	-	-	-	-	10.2 U	13.25 U	-	-	-	-	9.9 U	17.68 U
Copper	µg/L	2.4	41.1	77.55	-	-	-	-	-	-	45.5	59.09	-	-	-	-	42.8	76.43
Lead	µg/L	8.1	1.9	3.58	-	-	-	-	-	-	1.1	1.43	-	-	-	-	0.60 J	1.07 J
Mercury	µg/L	0.025	0.13 U	0.25 U	-	-	-	-	-	-	0.11 U	0.14 U	-	-	-	-	0.16 U	0.29 U
Nickel	µg/L	8.2	23.9	45.09	-	-	-	-	-	-	25.2	32.73	-	-	-	-	25.4	45.36
Thallium	µg/L	0.47	0.078 U	0.15 U	-	-	-	-	-	-	0.050 U	0.06 U	-	-	-	-	0.050 U	0.09 U
Zinc	µg/L	81	15.6 J	29.43 J	-	-	-	-	-	-	14.6 J	18.96 J	-	-	-	-	13.9 J	24.82 J
Field Parameters																		
Conductivity	mS/cm	NV	-	-	-	-	37.45	-	37.51	-	-	-	-	37.69	-	37.73	-	-
ORP	millivolts	NV	-	-	-	-	140	-	184	-	-	-	-	133	-	183	-	-
pH	s.u.	7 - 8.5	-	-	-	-	7.49	-	7.49	-	-	-	-	7.64	-	7.39	-	-
Temperature	Deg C	NV	-	-	-	-	24.3	-	25.1	-	-	-	-	26.9	-	24.8	-	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
SEEPAGE MONITORING PROGRAM
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

		SM25 (cont)								SM26							
Sample Location:																	
Sample ID:		W-062706-SM-25-GH-007-001		GW-062706-SM-25-GH-008		GW-062706-SM-25-GH-011		GW-062706-SM-25-GH-009		GW-062906-SM-26-GH-001		W-062906-SM-26-GH-001-001		GW-062906-SM-26-GH-002		GW-062906-SM-26-GH-003	
Sample Date:		6/27/2006		6/27/2006		6/27/2006		6/27/2006		6/29/2006		6/29/2006		6/29/2006		6/29/2006	
Sample Method:		Composite		Grab		Grab		Grab		Grab		Composite		Grab		Grab	
Discharge Fraction (%):		78		80		80		69		3		15		26		64	
Groundwater Cleanup Level ⁽¹⁾		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration	
Parameters	Units	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*
Volatile Organic Compounds																	
1,1,2,2-Tetrachloroethane	µg/L	11	-	0.27 U	0.34 U	0.27 U	0.34 U	0.27 U	0.39 U	0.27 U	9 U	-	-	0.27 U	1.04 U	0.27 U	0.42 U
1,1,2-Trichloroethane	µg/L	42	-	0.2 U	0.25 U	0.2 U	0.25 U	0.2 U	0.29 U	0.2 U	6.67 U	-	-	0.2 U	0.77 U	0.2 U	0.31 U
1,1-Dichloroethene	µg/L	3.2	-	0.30 U	0.37 U	0.30 U	0.37 U	0.30 U	0.43 U	0.30 U	10 U	-	-	0.30 U	1.15 U	0.30 U	0.47 U
Carbon tetrachloride	µg/L	4.4	-	0.10 U	0.12 U	0.10 U	0.12 U	0.10 U	0.14 U	0.10 U	3.33 U	-	-	0.10 U	0.38 U	0.10 U	0.16 U
Chloroform (Trichloromethane)	µg/L	470	-	0.16 U	0.2 U	0.16 U	0.2 U	0.16 U	0.23 U	0.16 U	5.33 U	-	-	0.16 U	0.62 U	0.16 U	0.25 U
cis-1,2-Dichloroethene	µg/L	16	-	0.16 U	0.2 U	0.16 U	0.2 U	0.16 U	0.23 U	0.16 U	5.33 U	-	-	0.16 U	0.62 U	0.16 U	0.25 U
Methylene chloride	µg/L	1600	-	0.35 U	0.44 U	0.35 U	0.44 U	0.35 U	0.51 U	0.51 J	17 J	-	-	0.35 U	1.35 U	0.35 U	0.55 U
Tetrachloroethene	µg/L	8.85	-	0.15 U	0.19 U	0.15 U	0.19 U	0.15 U	0.22 U	0.15 U	5 U	-	-	0.15 U	0.58 U	0.15 U	0.23 U
trans-1,2-Dichloroethene	µg/L	10000	-	0.19 U	0.24 U	0.19 U	0.24 U	0.19 U	0.28 U	0.19 U	6.33 U	-	-	0.19 U	0.73 U	0.19 U	0.3 U
Trichloroethene	µg/L	81	-	0.16 U	0.2 U	0.16 U	0.2 U	0.16 U	0.23 U	0.34 J	11.33 J	-	-	0.30 J	1.15 J	0.16 U	0.25 U
Vinyl chloride	µg/L	2.4	-	0.23 U	0.29 U	0.23 U	0.29 U	0.23 U	0.33 U	0.23 U	7.67 U	-	-	0.23 U	0.88 U	0.23 U	0.36 U
Semi-volatile Organic Compounds																	
Hexachlorobenzene	µg/L	0.01*(0.00077)	0.016 U	0.02 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	0.05 U	0.06 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	0.30 U	0.38 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (Field Filtered)																	
Arsenic	µg/L	0.14	-	-	-	-	-	390	565.22	-	-	58.6 J	390.67 J	-	-	-	-
Chromium Total	µg/L	50	-	-	-	-	-	10.0 U	14.49 U	-	-	12.5 J	83.33 J	-	-	-	-
Copper	µg/L	2.4	-	-	-	-	-	49.5	71.74	-	-	48.6 J	324 J	-	-	-	-
Lead	µg/L	8.1	-	-	-	-	-	0.56 J	0.81 J	-	-	1.0	6.67	-	-	-	-
Mercury	µg/L	0.025	-	-	-	-	-	0.16 U	0.23 U	-	-	0.090 U	0.6 U	-	-	-	-
Nickel	µg/L	8.2	-	-	-	-	-	26.1	37.83	-	-	25.4	169.33	-	-	-	-
Thallium	µg/L	0.47	-	-	-	-	-	0.050 U	0.07 U	-	-	0.050 U	0.33 U	-	-	-	-
Zinc	µg/L	81	-	-	-	-	-	18.4 J	26.67 J	-	-	78.1 U	520.67 U	-	-	-	-
Field Parameters																	
Conductivity	mS/cm	NV	-	38.05	-	38.05	-	39.19	-	36.36	-	-	-	35.21	-	40.3	-
ORP	millivolts	NV	-	20	-	20	-	-36	-	164	-	-	-	197	-	188	-
pH	s.u.	7 - 8.5	-	6.94	-	6.94	-	6.68	-	7.34	-	-	-	7.65	-	7.66	-
Temperature	Deg C	NV	-	24.9	-	24.9	-	24.6	-	22.4	-	-	-	19.3	-	19.7	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 SEEPAGE MONITORING PROGRAM
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

		SM26 (cont)															
Sample Location:																	
Sample ID:		GW-062906-SM-26-GH-003-004		GW-062906-SM-26-GH-004		GW-062906-SM-26-GH-004-001		GW-062906-SM-26-GH-005		GW-062906-SM-26-GH-006		GW-062906-SM-26-GH-006-001		GW-062906-SM-26-GH-007		GW-062906-SM-26-GH-008	
Sample Date:		6/29/2006		6/29/2006		6/29/2006		6/29/2006		6/29/2006		6/29/2006		6/29/2006		6/29/2006	
Sample Method:		Composite		Grab		Composite		Grab		Grab		Composite		Grab		Grab	
Discharge Fraction (%):		75		86		90		94		97		98		98		99	
Parameters	Units	Groundwater Cleanup Level ⁽¹⁾		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration		Concentration	
		Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*	Lab	Corrected*
Volatile Organic Compounds																	
1,1,2,2-Tetrachloroethane	µg/L	11	-	0.27 U	0.31 U	-	-	0.27 U	0.29 U	0.27 U	0.28 U	-	-	0.27 U	0.28 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	-	0.2 U	0.23 U	-	-	0.2 U	0.21 U	0.2 U	0.21 U	-	-	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	-	0.30 U	0.35 U	-	-	0.30 U	0.32 U	0.30 U	0.31 U	-	-	0.30 U	0.31 U	0.30 U	0.3 U
Carbon tetrachloride	µg/L	4.4	-	0.10 U	0.12 U	-	-	0.10 U	0.11 U	0.10 U	0.1 U	-	-	0.10 U	0.1 U	0.10 U	0.1 U
Chloroform (Trichloromethane)	µg/L	470	-	0.16 U	0.19 U	-	-	0.16 U	0.17 U	0.16 U	0.16 U	-	-	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16	-	0.16 U	0.19 U	-	-	0.16 U	0.17 U	0.16 U	0.16 U	-	-	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	-	0.35 U	0.41 U	-	-	0.35 U	0.37 U	0.35 U	0.36 U	-	-	0.35 U	0.36 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	-	0.15 U	0.17 U	-	-	0.15 U	0.16 U	0.15 U	0.15 U	-	-	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	-	0.19 U	0.22 U	-	-	0.19 U	0.2 U	0.19 U	0.2 U	-	-	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	-	0.16 U	0.19 U	-	-	0.16 U	0.17 U	0.16 U	0.16 U	-	-	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	-	0.23 U	0.27 U	-	-	0.23 U	0.24 U	0.23 U	0.24 U	-	-	0.23 U	0.23 U	0.23 U	0.23 U
Semi-volatile Organic Compounds																	
Hexachlorobenzene	µg/L	0.01*(0.00077)	-	-	-	0.016 U	0.02 U	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	0.05 U	0.06 U	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	0.30 U	0.33 U	-	-	-	-	-	-	-	-	-	-
Metals (Field Filtered)																	
Arsenic	µg/L	0.14	171 J	228 J	-	-	-	190 J	202.13 J	-	-	173 J	176.53 J	-	-	-	-
Chromium Total	µg/L	50	17.5 J	23.33 J	-	-	-	14.8 J	15.74 J	-	-	17.4 J	17.76 J	-	-	-	-
Copper	µg/L	2.4	60.2 J	80.27 J	-	-	-	62.0 J	65.96 J	-	-	74.1 J	75.61 J	-	-	-	-
Lead	µg/L	8.1	1.2	1.6	-	-	-	1.6	1.7	-	-	1.1	1.12	-	-	-	-
Mercury	µg/L	0.025	0.14 U	0.19 U	-	-	-	0.076 U	0.08 U	-	-	0.094 U	0.1 U	-	-	-	-
Nickel	µg/L	8.2	31.4	41.87	-	-	-	30.0	31.91	-	-	29.5	30.1	-	-	-	-
Thallium	µg/L	0.47	0.050 U	0.07 U	-	-	-	0.050 U	0.05 U	-	-	0.050 U	0.05 U	-	-	-	-
Zinc	µg/L	81	45.7 U	60.93 U	-	-	-	47.6 U	50.64 U	-	-	48.7 U	49.69 U	-	-	-	-
Field Parameters																	
Conductivity	mS/cm	NV	-	-	41.65	-	-	40.46	-	41.58	-	-	-	40.19	-	40.78	-
ORP	millivolts	NV	-	-	195	-	-	221	-	212	-	-	-	239	-	238	-
pH	s.u.	7 - 8.5	-	-	7.71	-	-	7.6	-	7.64	-	-	-	7.6	-	7.36	-
Temperature	Deg C	NV	-	-	19.3	-	-	18.8	-	20	-	-	-	19.2	-	20	-

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
SEEPAGE MONITORING PROGRAM
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

		<i>SM26 (cont)</i>					
		Sample ID: 1W-062906-SM-26-GH-008-005		GW-062906-SM-26-GH-009		GW-062906-SM-26-GH-010	
		Sample Date: 6/29/2006		6/29/2006		6/29/2006	
		Sample Method: Composite		Grab		Grab	
		Discharge Fraction (%): - 100		- 100		- 100	
Parameters	Units	Groundwater Cleanup Level ⁽¹⁾		Concentration		Concentration	
		Lab	Corrected*	Lab	Corrected*	Lab	Corrected*
Volatile Organic Compounds							
1,1,2-Tetrachloroethane	µg/L	11	-	-	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	-	-	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	3.2	-	-	0.30 U	0.3 U	0.30 U
Carbon tetrachloride	µg/L	4.4	-	-	0.10 U	0.1 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	-	-	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16	-	-	0.16 U	0.16 U	0.16 U
Methylene chloride	µg/L	1600	-	-	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	8.85	-	-	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	-	-	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	-	-	0.16 J	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	-	-	0.23 U	0.23 U	0.23 U
Semi-volatile Organic Compounds							
Hexachlorobenzene	µg/L	0.01*/(0.00077)	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	-	-	-	-	-
Metals (Field Filtered)							
Arsenic	µg/L	0.14	158 J	158 J	-	-	-
Chromium Total	µg/L	50	19.3 J	19.3 J	-	-	-
Copper	µg/L	2.4	86.3 J	86.3 J	-	-	-
Lead	µg/L	8.1	0.55 U	0.55 U	-	-	-
Mercury	µg/L	0.025	0.10 J	0.1 J	-	-	-
Nickel	µg/L	8.2	28.4	28.4	-	-	-
Thallium	µg/L	0.47	0.050 U	0.05 U	-	-	-
Zinc	µg/L	81	27.3 U	27.3 U	-	-	-
Field Parameters							
Conductivity	mS/cm	NV	-	-	39.5	-	40.3
ORP	millivolts	NV	-	-	229	-	188
pH	s.u.	7 - 8.5	-	-	7.67	-	7.66
Temperature	Deg C	NV	-	-	20.3	-	19.7

TABLE 4.40

SEEPAGE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
SEEPAGE MONITORING PROGRAM
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Notes:

- (1) Site COCs per Tables 3.1 and 3.2 of the Statement of Work (January 2005). Additional non-COC analytical results are presented in the eDAT located in Appendix F.
- (2) Groundwater Cleanup Levels per Table 4.8.
- COCs Constituents of concern.
- ORP Oxidation-reduction potential.
- µg/L Microgram per liter.
- mS/cm Milliseimens per centimeter.
- s.u. Standard units.
- Deg C Degree Celsius.
- % Percent.
- NV No cleanup level has been established for this parameter.
- * Cleanup Level established at a concentration equal to the practical quantitation limit for that chemical in accordance the WAC 173-340-700 (6)(d). Value may decrease with improvements in analytical methods.
- 25** Corrected concentrations exceeds Groundwater Cleanup Level.
- * The corrected concentrations are equal to the lab concentration divided by the discharge fraction.
- Not analyzed.
- U Not detected at associated concentration.
- J Estimated concentration.

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:		D2-1	D2-2	D2-3	D2-4	D2-5	D2-6	D2-7	D2-8	D2-9	D2-10	D2-11	D2-12
Sample ID:		P063004-DC01	P063004-DC02	P063004-DC03	P063004-DC04	P063004-DC05	P063004-DC06	P063004-DC07	P063004-DC08	P063004-DC09	P063004-DC10	P063004-DC11	P063004-DC12
Sample Description:													
Sample Date:		6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004
Sample Depth:		0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW													
elev_NGVD													
Parameters	Units	PSSWCL											
Volatile Organic Compounds													
1,1,2,2-Tetrachloroethane	µg/L	11	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	42	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	µg/L	3.2	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	470	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	16	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Ethylbenzene	µg/L	3.1	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/L	1600	4.5 J	5.1	5.4	6.9	5.8	5.1	6.0	3.3 J	4.8 J	4.4 J	5.0
Tetrachloroethene	µg/L	8.85	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	3.0 J	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	10000	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	81	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	2.4	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 UJ	0.23 U	0.23 U	0.23 U
Semi-volatile Organic Compounds													
1,2,4-Trichlorobenzene	µg/L	1.92	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	0.73	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	0.00077	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	7.9	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U
Metals													
Antimony	µg/L	3333	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	0.14	1.6	1 U	3.6	0.75	1 U	1 U	1 U	1 U	1 U	1 U	0.53
Cadmium	µg/L	1.2	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50	7.3	11.2	10.3	8.3	2.0 U	2.0 U	2.0 U	2.0 U	7.6	2.0 U	4.0
Copper	µg/L	2.4	24.1	10.7	43.9	21.0	13.8	11.7	12.2	9.3	10.1	11.0	13.2
Lead	µg/L	8.1	213	12.0	455	283	95.7	11.9	40.5	36.0	43.4	19.0	99.6

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	D2-1	D2-2	D2-3	D2-4	D2-5	D2-6	D2-7	D2-8	D2-9	D2-10	D2-11	D2-12
Sample ID:	P063004-DC01	P063004-DC02	P063004-DC03	P063004-DC04	P063004-DC05	P063004-DC06	P063004-DC07	P063004-DC08	P063004-DC09	P063004-DC10	P063004-DC11	P063004-DC12
Sample Description:												
Sample Date:	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW												
elev_NGVD												

Parameters	Units	PSSWCL												
Mercury	µg/L	0.025	0.041 U	0.041 U	0.43	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	
Nickel	µg/L	8.2	15.5	10.6	19.2	218	10.5	13.6	14.4	12.1	14.5	19.7	28.9	22.1
Silver	µg/L	55	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	0.47	0.074	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Zinc	µg/L	81	62.9	25.4	99.5	52.9	33.0	25.2	24.1	23.7	20.9	20.8	29.1	69.6

PCBs	Units	PSSWCL												
Total PCBs	µg/L	0.00017	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.2	0.20 U	0.20 U	0.20 U

Pesticides	Units	PSSWCL												
4,4'-DDD	µg/L	0.00031	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	0.00022	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	0.00022	-	-	-	-	-	-	-	-	-	-	-	-

Field Parameters	Units	PSSWCL												
Conductivity, field	umhos/cm		20.1	19.8	20.2	19.9	19.8	20.4	19.5	19.2	19.4	20.1	19.6	20
Oxidation reduction potential (ORP), field	millivolts		-	-	-	-	-	-	-	-	-	-	-	-
pH, field	s.u.	8.5	8.63	7.61	7.83	7.46	8.45	7.67	7.53	7.88	8.11	7.54	7.54	7.59
Temperature, field	deg c		-	-	-	-	-	-	-	-	-	-	-	-
Turbidity, field	ntu		13.5	5.3	86.5	22.9	133	8.9	80.7	3.5	23.9	24.6	1.3	53.4

General Chemistry	Units	PSSWCL												
Alkalinity, bicarbonate	µg/L		-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, carbonate	µg/L		-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, hydroxide	µg/L		-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, total (as CaCO3)	µg/L		-	-	-	-	-	-	-	-	-	-	-	-
pH, field	s.u.	8.5	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	D2-13	D2-14	D2-15	D2-16	D2-17	D2-17	D2-18	D2-19	D2-20M	D2-21	D2-22	D2-23	D2-24
Sample ID:	P063004-DC13	P063004-DC14	P063004-DC15	P063004-DC16	P063004-DC17	P063004-FD01	P063004-DC18	P063004-DC19	P063004-DC20	P063004-DC21	P070104-DC22	P070104-DC23	P070104-DC24
Sample Description:													
Sample Date:	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	7/1/2004	7/1/2004	7/1/2004
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW													
elev_NGVD													
(Duplicate)													
Parameters	Units												
Volatile Organic Compounds													
1,1,2,2-Tetrachloroethane	µg/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon tetrachloride	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroform (Trichloromethane)	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,2-Dichloroethene	µg/L	0.16 U	6.3	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	16	0.16 U	2.9 J	0.16 U
Ethylbenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/L	4.9 J	5.7	4.9 J	5.2	5.1	0.35 U	4.4 J	4.6 J	5.1	0.35 U	0.35 U	0.35 U
Tetrachloroethene	µg/L	0.15 U	3.9 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	6.6	0.15 U	0.15 U	0.15 U
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	0.16 U	6.0	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	2.6 J	0.16 U	0.16 U	0.16 U
Vinyl chloride	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Semi-volatile Organic Compounds													
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	1.33 U	1.33 UJ	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	1.87 U	1.87 UJ	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U
Metals													
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1 U	2.9	1 U	1 U	1 U	1 U	2.3	1.2	5.1	2.4	1 U	5.8
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	2.0 U	2.0 U	5.8	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	3.9	2.0 U	2.0 U
Copper	µg/L	12.4	15.7	18.9	10.5	16.6	13.7	20.2	13.4	15.2	25.6	10.4	29.9
Lead	µg/L	22.8	34.0	78.4	10.7	102	82.0	71.9	32.9	49.3	350	167	1240

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	D2-13	D2-14	D2-15	D2-16	D2-17	D2-17	D2-18	D2-19	D2-20M	D2-21	D2-22	D2-23	D2-24
Sample ID:	P063004-DC13	P063004-DC14	P063004-DC15	P063004-DC16	P063004-DC17	P063004-FD01	P063004-DC18	P063004-DC19	P063004-DC20	P063004-DC21	P070104-DC22	P070104-DC23	P070104-DC24
Sample Description:													
Sample Date:	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	6/30/2004	7/1/2004	7/1/2004	7/1/2004
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW													
elev_NGVD													
(Duplicate)													
Parameters	Units												
Mercury	µg/L	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U
Nickel	µg/L	18.8	13.2	134	10.1	22.3	24.7	12.1	10.3	8.8	12.0	11.9	14.9
Silver	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	0.80 U	0.80 U	9.0	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Zinc	µg/L	30.6	35.2	119	13.0	23.7	21.7	31.2	37.5	34.4	45.3	13.0	41.8
PCBs													
Total PCBs	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Pesticides													
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Field Parameters													
Conductivity, field	umhos/cm	21.1	19.6	19.5	19.5	20	20	22.2	22.1	19.7	20.9	21	20.9
Oxidation reduction potential (ORP), field	millivolts	-	-	-	-	-	-	-	-	-	-	-	-
pH, field	s.u.	7.55	9.09	7.56	8.02	7.45	7.45	7.64	8.41	8.65	8.6	6.35	6.04
Temperature, field	deg c	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity, field	ntu	27.3	375	42.5	2.4	19.4	19.4	53.8	505	132	950	11.6	15.9
General Chemistry													
Alkalinity, bicarbonate	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, carbonate	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, hydroxide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
pH, field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	D2-25	D2-26	D2-27	D2-27	D2-28	D2-29	D2-30	ECOLOGY1	ECOLOGY2	ECOLOGY3	A-10	A-10	
Sample ID:	P070104-DC25	P070104-DC26	P070104-DC27	P070104-FD02	P070104-DC28	P070104-DC29	P070204-DC30	Ecology-1	Ecology-2	Ecology-3	SP-07842-110502-DMC-016	SP-07842-110502-JJW-010	
Sample Description:											Outgoing	Outgoing	
Sample Date:	7/1/2004	7/1/2004	7/1/2004	7/1/2004	7/1/2004	7/1/2004	7/2/2004	6/1/2001	6/1/2001	6/1/2001	11/5/2002	11/5/2002	
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	
elev_MLLW								-3.08	0.02	0.02	0	0	
elev_NGVD								-9.4	-6.3	-6.3	-6.3	-6.3	
(Duplicate)													
Parameters	Units												
Volatile Organic Compounds													
1,1,2,2-Tetrachloroethane	µg/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	-
1,1-Dichloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	-	-	-	-	-
Carbon tetrachloride	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	2.7 J	0.10 U	0.10 U	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	4.3 J	0.16 U	0.16 U	5 U	6	5 U	-	-
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	3.9 J	5.7	9	210	175	-	-
Ethylbenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	-	-	-	-	-
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	141	205	4	-	-
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	-	-	-	-	-
Trichloroethene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	5 U	87	13	-	-
Vinyl chloride	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	5 U	9	6.5	-	-
Semi-volatile Organic Compounds													
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	1.33 U	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U	-	-	-	-	-
Metals													
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	3.4	6.0	8.4	8.4	2.1	3.4	4.7	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	15.1	2.0 U	4.7	-	-	-	-	-
Copper	µg/L	10.7	12.8	12.6	13.0	881	10.0	19.0	-	-	-	-	-
Lead	µg/L	16.6	15.6	61.7	41.4	2480	84.4	218	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	D2-25	D2-26	D2-27	D2-27	D2-28	D2-29	D2-30	ECOLOGY1	ECOLOGY2	ECOLOGY3	A-10	A-10
Sample ID:	P070104-DC25	P070104-DC26	P070104-DC27	P070104-FD02	P070104-DC28	P070104-DC29	P070204-DC30	Ecology-1	Ecology-2	Ecology-3	SP-07842-110502-DMC-016	SP-07842-110502-JJW-010
Sample Description:											Outgoing	Outgoing
Sample Date:	7/1/2004	7/1/2004	7/1/2004	7/1/2004	7/1/2004	7/1/2004	7/2/2004	6/1/2001	6/1/2001	6/1/2001	11/5/2002	11/5/2002
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW								-3.08	0.02	0.02	0	0
elev_NGVD								-9.4	-6.3	-6.3	-6.3	-6.3
(Duplicate)												
Parameters	Units											
Mercury	µg/L	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	-	-	-	-	-
Nickel	µg/L	10.0	11.0	12.0	14.5	117	9.7	12.4	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	0.80 U	0.80 U	0.80 U	0.087	0.82	0.15	0.80 U	-	-	-	-
Zinc	µg/L	10.0	17.9	14.2 J	31.5 J	224	24.8	31.2	-	-	-	-
PCBs												
Total PCBs	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-
Pesticides												
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-	-
Field Parameters												
Conductivity, field	umhos/cm	20.1	20.7	19	19	11	21.5	21.5	-	-	-	21500
Oxidation reduction potential (ORP), field	millivolts	-	-	-	-	-	-	-	-	-	-	92.2
pH, field	s.u.	5.66	5.13	5.74	5.74	3.5	6.79	8.94	-	-	-	7.7
Temperature, field	deg c	-	-	-	-	-	-	-	-	-	-	11.7
Turbidity, field	ntu	27.5	7.7	2.1	2.1	12.5	8	70.3	-	-	-	0.56
General Chemistry												
Alkalinity, bicarbonate	µg/L	-	-	-	-	-	-	-	-	-	-	129000
Alkalinity, carbonate	µg/L	-	-	-	-	-	-	-	-	-	-	2000 U
Alkalinity, hydroxide	µg/L	-	-	-	-	-	-	-	-	-	-	2000 U
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-	129000
pH, field	s.u.	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	A-1	A-15	A-16	A-18	A-2	A-3	A-4	A-5
Sample ID:	SP-07842-110502-JJW-001	P-011298-MPT-023	P-011298-MPT-021	P-011298-MPT-022	SP-07842-110502-DMC-004	SP-07842-110502-JAS-003	SP-07842-110502-JSV-002	SP-07842-110502-JJW-005
Sample Description:	Outgoing				Outgoing	Outgoing	Outgoing	Outgoing
Sample Date:	11/5/2002	1/12/1998	1/12/1998	1/12/1998	11/5/2002	11/5/2002	11/5/2002	11/5/2002
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW	9	2.6	0	1.2	5	7	2	7
elev_NGVD	2.7	-3.7	-6.3	-5.1	-1.3	0.7	-4.3	0.7
								(Duplicate)
Parameters	Units							
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-
Ethylbenzene	µg/L	-	5.0 U	5.0 U	5.0 U	-	-	-
Methylene chloride	µg/L	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	-	3.3 J	3.0 J	5.0 U	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-
Trichloroethene	µg/L	-	5.0 U	5.0 U	5.0 U	-	-	-
Vinyl chloride	µg/L	-	-	-	-	-	-	-
Semi-volatile Organic Compounds								
1,2,4-Trichlorobenzene	µg/L	-	10 U	10 U	10 U	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	10 U	10 U	10 U	-	-	-
Hexachlorobenzene	µg/L	-	10 U	10 U	10 U	-	-	-
Hexachlorobutadiene	µg/L	-	10 U	10 U	10 U	-	-	-
Pentachlorophenol	µg/L	-	4.8 U	4.8 U	4.8 U	-	-	-
Metals								
Antimony	µg/L	-	5 U	5 U	5 U	-	-	-
Arsenic	µg/L	-	5 U	5 U	8.8	-	-	-
Cadmium	µg/L	-	5 U	5 U	5 U	-	-	-
Chromium	µg/L	-	5 U	5 U	5 U	-	-	-
Copper	µg/L	-	8.7	7.7	12.5	-	-	-
Lead	µg/L	-	18.3	19.8	11.1	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	A-1	A-15	A-16	A-18	A-2	A-3	A-4	A-5
Sample ID:	SP-07842-110502-JJW-001	P-011298-MPT-023	P-011298-MPT-021	P-011298-MPT-022	SP-07842-110502-DMC-004	SP-07842-110502-JAS-003	SP-07842-110502-JSV-002	SP-07842-110502-JJW-005
Sample Description:	Outgoing				Outgoing	Outgoing	Outgoing	Outgoing
Sample Date:	11/5/2002	1/12/1998	1/12/1998	1/12/1998	11/5/2002	11/5/2002	11/5/2002	11/5/2002
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW	9	2.6	0	1.2	5	7	2	7
elev_NGVD	2.7	-3.7	-6.3	-5.1	-1.3	0.7	-4.3	0.7
								(Duplicate)
Parameters		Units						
Mercury	µg/L	-	0.2 U	0.2 U	0.2 U	-	-	-
Nickel	µg/L	-	11.7	11.9	5.6	-	-	-
Silver	µg/L	-	1 U	1 U	1 U	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-
Zinc	µg/L	-	50 U	50 U	50 U	-	-	-
PCBs								
Total PCBs	µg/L	-	0.13 U	0.65 U	0.13 U	-	-	-
Pesticides								
4,4'-DDD	µg/L	-	0.05 U	0.25 U	0.05 U	-	-	-
4,4'-DDE	µg/L	-	0.05 U	0.25 U	0.05 U	-	-	-
4,4'-DDT	µg/L	-	0.05 U	0.25 U	0.05 U	-	-	-
Field Parameters								
Conductivity, field	umhos/cm	22800	-	-	-	23600	23540 / 23500	21900
Oxidation reduction potential (ORP), field	millivolts	96.4	-	-	-	92.0	-	92.8
pH, field	s.u.	6.9	-	-	-	7.8	7.8	7.6
Temperature, field	deg c	10.8	-	-	-	10.3	10.8	11.1
Turbidity, field	ntu	2.9	-	-	-	2.9	3.8	0.74
General Chemistry								
Alkalinity, bicarbonate	µg/L	106000	-	-	-	106000	110000	112000
Alkalinity, carbonate	µg/L	2000 U	-	-	-	2000 U	2000 U	2000 U
Alkalinity, hydroxide	µg/L	2000 U	-	-	-	2000 U	2000 U	2000 U
Alkalinity, total (as CaCO3)	µg/L	106000	-	-	-	106000	110000	112000
pH, field	s.u.	-	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	A-5	A-5	A-6	A-7	A-8	A-9	A-9
Sample ID:	SP-07842-110502-JJW-005	SP-07842-110502-JJW-006	SP-07842-110502-JAS-020	SP-07842-110502-JAS-011	SP-07842-110502-JJW-007	SP-07842-110502-JAS-015	SP-07842-110502-JSV-009
Sample Description:	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing
Sample Date:	11/5/2002	11/5/2002	11/5/2002	11/5/2002	11/5/2002	11/5/2002	11/5/2002
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW	7	7	1	0	9	0	0
elev_NGVD	0.7	0.7	-5.3	-6.3	2.7	-6.3	-6.3
		(Duplicate)					
Parameters	Units						
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	-	-	-	-	-	-
Carbon tetrachloride	µg/L	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-
Ethylbenzene	µg/L	-	-	-	-	-	-
Methylene chloride	µg/L	-	-	-	-	-	-
Tetrachloroethene	µg/L	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-
Trichloroethene	µg/L	-	-	-	-	-	-
Vinyl chloride	µg/L	-	-	-	-	-	-
Semi-volatile Organic Compounds							
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-
Metals							
Antimony	µg/L	-	-	-	-	-	-
Arsenic	µg/L	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-
Lead	µg/L	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	A-5	A-5	A-6	A-7	A-8	A-9	A-9
Sample ID:	SP-07842-110502-JJW-005	SP-07842-110502-JJW-006	SP-07842-110502-JAS-020	SP-07842-110502-JAS-011	SP-07842-110502-JJW-007	SP-07842-110502-JAS-015	SP-07842-110502-JSV-009
Sample Description:	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing
Sample Date:	11/5/2002	11/5/2002	11/5/2002	11/5/2002	11/5/2002	11/5/2002	11/5/2002
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW	7	7	1	0	9	0	0
elev_NGVD	0.7	0.7	-5.3	-6.3	2.7	-6.3	-6.3
		(Duplicate)					
Parameters	Units						
Mercury	µg/L	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-
PCBs							
Total PCBs	µg/L	-	-	-	-	-	-
Pesticides							
4,4'-DDD	µg/L	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-
Field Parameters							
Conductivity, field	umhos/cm	23700	23000	22400	22000	23000	22300
Oxidation reduction potential (ORP), field	millivolts	90.8	87.4	176.8	94.8	87.7	86.3
pH, field	s.u.	7.9	7.9	7.5	7.8	7.9	7.9
Temperature, field	deg c	10.7	10.7	11.2	11.4	10.5	11.3
Turbidity, field	ntu	0.50	0.55	0.41	0.11	0.58	5.34
General Chemistry							
Alkalinity, bicarbonate	µg/L	110000	110000	124000	126000	106000	116000
Alkalinity, carbonate	µg/L	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Alkalinity, hydroxide	µg/L	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Alkalinity, total (as CaCO3)	µg/L	110000	110000	124000	126000	106000	116000
pH, field	s.u.	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	B-1	B-2	B-25	B-26	B-31	B-4	C-1	C-19	C-19
Sample ID:	SP-07842-110502-JSV-013	SP-07842-110502-JJW-012	P-011398-MPT-026	P-011398-MPT-027	P-011498-MPT-028	SP-07842-110602-JJW-050	SP-07842-110702-JJW-066	P-011098-MPT-011	P-011298-MPT-011
Sample Description:	Lower Low	Lower Low				Outgoing	Outgoing		
Sample Date:	11/5/2002	11/5/2002	1/13/1998	1/13/1998	1/14/1998	11/6/2002	11/7/2002	1/10/1998	1/12/1998
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW	-2	3	2	1.5	2.1	0	-1	10	10
elev_NGVD	-8.3	-3.3	-4.3	-4.8	-4.2	-6.3	-7.3	3.7	3.7
Parameters		Units							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	-	-	5.0 U	5.0 U	5.0 U	-	5.0 U	-
Methylene chloride	µg/L	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	-	-	5.0 U	5.0 U	5.0 U	-	14	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	-	-	5.0 U	5.0 U	5.0 U	-	5.0 U	-
Vinyl chloride	µg/L	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	-	-	10 U	10 U	-	-	-	10 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	10 U	10 U	-	-	-	10 U
Hexachlorobenzene	µg/L	-	-	10 U	10 U	-	-	-	10 U
Hexachlorobutadiene	µg/L	-	-	10 U	10 U	-	-	-	10 U
Pentachlorophenol	µg/L	-	-	4.8 U	4.8 U	-	-	-	4.8 U
Metals									
Antimony	µg/L	-	-	5 U	-	-	-	-	5 U
Arsenic	µg/L	-	-	5 U	5 U	-	-	-	5 U
Cadmium	µg/L	-	-	5 U	5 U	-	-	-	5 U
Chromium	µg/L	-	-	5 U	5 U	-	-	-	5 U
Copper	µg/L	-	-	2.8	3.0	-	-	-	24.2
Lead	µg/L	-	-	14.1	7.7	-	-	-	5 U

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	B-1	B-2	B-25	B-26	B-31	B-4	C-1	C-19	C-19
Sample ID:	SP-07842-110502-JSV-013	SP-07842-110502-JJW-012	P-011398-MPT-026	P-011398-MPT-027	P-011498-MPT-028	SP-07842-110602-JJW-050	SP-07842-110702-JJW-066	P-011098-MPT-011	P-011298-MPT-011
Sample Description:	Lower Low	Lower Low				Outgoing	Outgoing		
Sample Date:	11/5/2002	11/5/2002	1/13/1998	1/13/1998	1/14/1998	11/6/2002	11/7/2002	1/10/1998	1/12/1998
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW	-2	3	2	1.5	2.1	0	-1	10	10
elev_NGVD	-8.3	-3.3	-4.3	-4.8	-4.2	-6.3	-7.3	3.7	3.7
Parameters									
Mercury	µg/L	-	-	0.2 U	0.2 U	-	-	-	0.2 U
Nickel	µg/L	-	-	5 U	5 U	-	-	-	10.8
Silver	µg/L	-	-	1 U	1 U	-	-	-	1.7
Thallium	µg/L	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	50 U	50 U	-	-	-	232
PCBs									
Total PCBs	µg/L	-	-	0.13 U	0.13 U	-	-	0.11	-
Pesticides									
4,4'-DDD	µg/L	-	-	0.05 U	0.05 U	-	-	0.05 U	-
4,4'-DDE	µg/L	-	-	0.05 U	0.05 U	-	-	0.05 U	-
4,4'-DDT	µg/L	-	-	0.05 U	0.05 U	-	-	0.05 U	-
Field Parameters									
Conductivity, field	umhos/cm	22100	10500	-	-	-	44400	42500	-
Oxidation reduction potential (ORP), field	millivolts	142.9	157.1	-	-	-	61.0	88.0	-
pH, field	s.u.	6.0	6.0	-	-	-	7.6	7.5	-
Temperature, field	deg c	11.7	12.6	-	-	-	10.9	11.7	-
Turbidity, field	ntu	1.41	2.04	-	-	-	4.3	7.43	-
General Chemistry									
Alkalinity, bicarbonate	µg/L	125000	8400	-	-	-	134000	134000	-
Alkalinity, carbonate	µg/L	2000 U	2000 U	-	-	-	2000 U	2000 U	-
Alkalinity, hydroxide	µg/L	2000 U	2000 U	-	-	-	2000 U	2000 U	-
Alkalinity, total (as CaCO3)	µg/L	125000	8400	-	-	-	134000	134000	-
pH, field	s.u.	-	-	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	C-2	C-2	C-21	C-3	C-3	C-4	C-5
Sample ID:	SP-07842-110502-JJW-024	SP-07842-110802-DMC-069	P-011298-MPT-020	SP-07842-110502-JSV-025	SP-07842-110702-JAS-064	SP-07842-110502-JSV-026	SP-07842-110502-JJW-027
Sample Description:	Outgoing	Outgoing		Outgoing	Outgoing	Outgoing	Outgoing
Sample Date:	11/6/2002	11/8/2002	1/12/1998	11/6/2002	11/7/2002	11/6/2002	11/6/2002
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW	-1	-1	-1.1	1	1	1	-2
elev_NGVD	-7.3	-7.3	-7.4	-5.3	-5.3	-5.3	-8.3
Parameters		Units					
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	-	-	-	-	-	-
Carbon tetrachloride	µg/L	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-
Ethylbenzene	µg/L	-	5.0 U	-	-	-	-
Methylene chloride	µg/L	-	-	-	-	-	-
Tetrachloroethene	µg/L	-	4.7 J	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-
Trichloroethene	µg/L	-	2.8 J	-	-	-	-
Vinyl chloride	µg/L	-	-	-	-	-	-
Semi-volatile Organic Compounds							
1,2,4-Trichlorobenzene	µg/L	-	10 U	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	10 U	-	-	-	-
Hexachlorobenzene	µg/L	-	10 U	-	-	-	-
Hexachlorobutadiene	µg/L	-	10 U	-	-	-	-
Pentachlorophenol	µg/L	-	4.8 U	-	-	-	-
Metals							
Antimony	µg/L	-	5 U	-	-	-	-
Arsenic	µg/L	-	5.7	-	-	-	-
Cadmium	µg/L	-	5 U	-	-	-	-
Chromium	µg/L	-	5 U	-	-	-	-
Copper	µg/L	-	6.5	-	-	-	-
Lead	µg/L	-	5 U	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		C-2	C-2	C-21	C-3	C-3	C-4	C-5
<i>Sample ID:</i>		SP-07842-110502-JJW-024	SP-07842-110802-DMC-069	P-011298-MPT-020	SP-07842-110502-JSV-025	SP-07842-110702-JAS-064	SP-07842-110502-JSV-026	SP-07842-110502-JJW-027
<i>Sample Description:</i>		Outgoing	Outgoing		Outgoing	Outgoing	Outgoing	Outgoing
<i>Sample Date:</i>		11/6/2002	11/8/2002	1/12/1998	11/6/2002	11/7/2002	11/6/2002	11/6/2002
<i>Sample Depth:</i>		0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
<i>elev_MLLW</i>		-1	-1	-1.1	1	1	1	-2
<i>elev_NGVD</i>		-7.3	-7.3	-7.4	-5.3	-5.3	-5.3	-8.3
Parameters		Units						
Mercury	µg/L	-	-	0.2 U	-	-	-	-
Nickel	µg/L	-	-	5 U	-	-	-	-
Silver	µg/L	-	-	1 U	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-
Zinc	µg/L	-	-	50 U	-	-	-	-
PCBs								
Total PCBs	µg/L	-	-	0.39 U	-	-	-	-
Pesticides								
4,4'-DDD	µg/L	-	-	0.05 U	-	-	-	-
4,4'-DDE	µg/L	-	-	0.05 U	-	-	-	-
4,4'-DDT	µg/L	-	-	0.05 U	-	-	-	-
Field Parameters								
Conductivity, field	umhos/cm	-	43900	-	38700	42300	21500	22600
Oxidation reduction potential (ORP), field	millivolts	-	183.0	-	177.5	286.0	186.5	186.3
pH, field	s.u.	-	7.8	-	7.7	7.1	7.7	7.7
Temperature, field	deg c	-	11.5	-	11.7	12.0	11.8	10.9
Turbidity, field	ntu	-	1.79	-	5.4	0.77	1.58	1.31
General Chemistry								
Alkalinity, bicarbonate	µg/L	134000	117000	-	125000	126000	131000	116000
Alkalinity, carbonate	µg/L	2000 U	2000 U	-	2000 U	2000 U	2000 U	2000 U
Alkalinity, hydroxide	µg/L	2000 U	2000 U	-	2000 U	2000 U	2000 U	2000 U
Alkalinity, total (as CaCO3)	µg/L	134000	117000	-	125000	126000	131000	116000
pH, field	s.u.	-	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	C-6	C-7	C-8	C-9	D-1	D-2	D-3
<i>Sample ID:</i>	SP-07842-110802-DMC-067	SP-07842-110702-JJW-063	SP-07842-110802-JAS-075	SP-07842-110802-DMC-074	SP-07842-110602-JSV-038	SP-07842-110702-JSV-059	SP-07842-110602-JJW-035
<i>Sample Description:</i>	Outgoing	Outgoing	Outgoing	Lower Low	Outgoing	Outgoing	Outgoing
<i>Sample Date:</i>	11/8/2002	11/7/2002	11/8/2002	11/8/2002	11/6/2002	11/7/2002	11/6/2002
<i>Sample Depth:</i>	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
<i>elev_MLLW</i>	0	1	-1	0	3	3	3
<i>elev_NGVD</i>	-6.3	-5.3	-7.3	-6.3	-3.3	-3.3	-3.3
Parameters	Units						
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	-	-	-	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	-	-	-	5 U	5 U	5 U
Carbon tetrachloride	µg/L	-	-	-	5 U	5 U	5 U
Chloroform (Trichloromethane)	µg/L	-	-	-	5 U	5 U	5 U
cis-1,2-Dichloroethene	µg/L	-	-	-	5 U	5 U	5 U
Ethylbenzene	µg/L	-	-	-	-	-	-
Methylene chloride	µg/L	-	-	-	14	16	5 U
Tetrachloroethene	µg/L	-	-	-	5 U	5 U	5 U
trans-1,2-Dichloroethene	µg/L	-	-	-	5 U	5 U	5 U
Trichloroethene	µg/L	-	-	-	5 U	5 U	5 U
Vinyl chloride	µg/L	-	-	-	5 U	5 U	5 U
Semi-volatile Organic Compounds							
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-
Metals							
Antimony	µg/L	-	-	-	-	-	-
Arsenic	µg/L	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-
Lead	µg/L	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		C-6	C-7	C-8	C-9	D-1	D-2	D-3
<i>Sample ID:</i>		SP-07842-110802-DMC-067	SP-07842-110702-JJW-063	SP-07842-110802-JAS-075	SP-07842-110802-DMC-074	SP-07842-110602-JSV-038	SP-07842-110702-JSV-059	SP-07842-110602-JJW-035
<i>Sample Description:</i>		Outgoing	Outgoing	Outgoing	Lower Low	Outgoing	Outgoing	Outgoing
<i>Sample Date:</i>		11/8/2002	11/7/2002	11/8/2002	11/8/2002	11/6/2002	11/7/2002	11/6/2002
<i>Sample Depth:</i>		0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
<i>elev_MLLW</i>		0	1	-1	0	3	3	3
<i>elev_NGVD</i>		-6.3	-5.3	-7.3	-6.3	-3.3	-3.3	-3.3
Parameters		Units						
Mercury	µg/L	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-
PCBs								
Total PCBs	µg/L	-	-	-	-	-	-	-
Pesticides								
4,4'-DDD	µg/L	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-
Field Parameters								
Conductivity, field	umhos/cm	43500	43600	42800	44100	40800	43600	44000
Oxidation reduction potential (ORP), field	millivolts	157.0	333.0	134.0	197.0	208.0	195.0	158.0
pH, field	s.u.	7.7	6.7	7.8	7.8	7.7	7.6	7.9
Temperature, field	deg c	11.6	11.9	11.8	11.7	11.9	10.8	11.6
Turbidity, field	ntu	6.1	8.05	2.95	2.4	0.05	0.09	0.46
General Chemistry								
Alkalinity, bicarbonate	µg/L	122000	110000	114000	109000	118000	105000	103000
Alkalinity, carbonate	µg/L	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Alkalinity, hydroxide	µg/L	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Alkalinity, total (as CaCO3)	µg/L	122000	110000	114000	109000	118000	105000	103000
pH, field	s.u.	-	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	D-3	E-10	E-1	E-11	E-2	E-3	E-4
Sample ID:	SP-07842-110602-JJW-036	SP-07842-110802-JSV-071	SP-07842-110602-JAS-034	SP-07842-110802-JSV-072	SP-07842-110602-DMC-040	SP-07842-110602-JAS-039	SP-07842-110602-JM-043
Sample Description:	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing	Outgoing
Sample Date:	11/6/2002	11/8/2002	11/6/2002	11/8/2002	11/6/2002	11/6/2002	11/6/2002
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW	3	-3	0	-2	0	-1	-2
elev_NGVD	-3.3	-9.3	-6.3	-8.3	-6.3	-7.3	-8.3
	(Duplicate)						
Parameters	Units						
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	-	-	-	-
1,1,2-Trichloroethane	µg/L	5 U	5 U	-	-	-	-
1,1-Dichloroethene	µg/L	5 U	5 U	-	-	-	-
Carbon tetrachloride	µg/L	5 U	5 U	-	-	-	-
Chloroform (Trichloromethane)	µg/L	5 U	5 U	-	-	-	-
cis-1,2-Dichloroethene	µg/L	5 U	5 U	-	-	-	-
Ethylbenzene	µg/L	-	-	-	-	-	-
Methylene chloride	µg/L	5 U	19	-	-	-	-
Tetrachloroethene	µg/L	5 U	64	-	-	-	-
trans-1,2-Dichloroethene	µg/L	5 U	5 U	-	-	-	-
Trichloroethene	µg/L	5 U	7.0	-	-	-	-
Vinyl chloride	µg/L	5 U	5 U	-	-	-	-
Semi-volatile Organic Compounds							
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-
Metals							
Antimony	µg/L	-	-	-	-	-	-
Arsenic	µg/L	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-
Lead	µg/L	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>D-3</i>	<i>E-10</i>	<i>E-1</i>	<i>E-11</i>	<i>E-2</i>	<i>E-3</i>	<i>E-4</i>
<i>Sample ID:</i>		<i>SP-07842-110602-JJW-036</i>	<i>SP-07842-110802-JSV-071</i>	<i>SP-07842-110602-JAS-034</i>	<i>SP-07842-110802-JSV-072</i>	<i>SP-07842-110602-DMC-040</i>	<i>SP-07842-110602-JAS-039</i>	<i>SP-07842-110602-JM-043</i>
<i>Sample Description:</i>		<i>Outgoing</i>	<i>Outgoing</i>	<i>Outgoing</i>	<i>Outgoing</i>	<i>Outgoing</i>	<i>Outgoing</i>	<i>Outgoing</i>
<i>Sample Date:</i>		<i>11/6/2002</i>	<i>11/8/2002</i>	<i>11/6/2002</i>	<i>11/8/2002</i>	<i>11/6/2002</i>	<i>11/6/2002</i>	<i>11/6/2002</i>
<i>Sample Depth:</i>		<i>0 ft bml</i>	<i>0 ft bml</i>	<i>0 ft bml</i>	<i>0 ft bml</i>	<i>0 ft bml</i>	<i>0 ft bml</i>	<i>0 ft bml</i>
<i>elev_MLLW</i>		<i>3</i>	<i>-3</i>	<i>0</i>	<i>-2</i>	<i>0</i>	<i>-1</i>	<i>-2</i>
<i>elev_NGVD</i>		<i>-3.3</i>	<i>-9.3</i>	<i>-6.3</i>	<i>-8.3</i>	<i>-6.3</i>	<i>-7.3</i>	<i>-8.3</i>
		<i>(Duplicate)</i>						
Parameters	Units							
Mercury	µg/L	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-
PCBs								
Total PCBs	µg/L	-	-	-	-	-	-	-
Pesticides								
4,4'-DDD	µg/L	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-
Field Parameters								
Conductivity, field	umhos/cm	44100	44600	43800	43500	44400	45900	43500
Oxidation reduction potential (ORP), field	millivolts	193.0	48.0	93.0	78.0	53.0	161.0	57.0
pH, field	s.u.	7.7	7.7	8.1	7.9	7.5	7.5	7.4
Temperature, field	deg c	11.7	11.8	11.3	11.8	11.0	11.2	11.7
Turbidity, field	ntu	0.65	1.8	5.12	53.2	0.95	20.9	15.9
General Chemistry								
Alkalinity, bicarbonate	µg/L	104000	108000	112000	104000	110000	106000	119000
Alkalinity, carbonate	µg/L	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Alkalinity, hydroxide	µg/L	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Alkalinity, total (as CaCO3)	µg/L	104000	108000	112000	104000	110000	106000	119000
pH, field	s.u.	-	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	E-5	E-6	E-6	E-7	E-7	E-7	E-8	E-8
Sample ID:	SP-07842-110602-JAS-042	SP-07842-110602-DMC-044	SP-07842-110702-DMC-048	SP-07842-110602-JAS-046	P-010998-MPT-006	P-011098-MPT-006	SP-07842-110602-DMC-045	P-011498-MPT-011
Sample Description:	Outgoing	Outgoing	Lower Low	Outgoing			Outgoing	
Sample Date:	11/6/2002	11/6/2002	11/7/2002	11/6/2002	1/9/1998	1/10/1998	11/6/2002	1/14/1998
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW	0	0	0	-2	0.9	0.9	-1	2
elev_NGVD	-6.3	-6.3	-6.3	-8.3	-5.4	-5.4	-7.3	-4.3

Parameters	Units							
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-
Ethylbenzene	µg/L	-	-	-	5.0 U	-	-	5.0 U
Methylene chloride	µg/L	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	-	-	-	5.0 U	-	-	5.9
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-
Trichloroethene	µg/L	-	-	-	4.5 J	-	-	5.0 U
Vinyl chloride	µg/L	-	-	-	-	-	-	-
Semi-volatile Organic Compounds								
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	10 U	-	10 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	10 U	-	10 U
Hexachlorobenzene	µg/L	-	-	-	-	10 U	-	10 U
Hexachlorobutadiene	µg/L	-	-	-	-	10 U	-	10 U
Pentachlorophenol	µg/L	-	-	-	-	4.8 U	-	4.8 U
Metals								
Antimony	µg/L	-	-	-	5 U	-	-	5 U
Arsenic	µg/L	-	-	-	5 U	-	-	5 U
Cadmium	µg/L	-	-	-	5 U	-	-	5 U
Chromium	µg/L	-	-	-	8.1	-	-	5 U
Copper	µg/L	-	-	-	10.2	-	-	7.9
Lead	µg/L	-	-	-	5 U	-	-	5 U

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	E-5	E-6	E-6	E-7	E-7	E-7	E-8	E-8
Sample ID:	SP-07842-110602-JAS-042	SP-07842-110602-DMC-044	SP-07842-110702-DMC-048	SP-07842-110602-JAS-046	P-010998-MPT-006	P-011098-MPT-006	SP-07842-110602-DMC-045	P-011498-MPT-011
Sample Description:	Outgoing	Outgoing	Lower Low	Outgoing			Outgoing	
Sample Date:	11/6/2002	11/6/2002	11/7/2002	11/6/2002	1/9/1998	1/10/1998	11/6/2002	1/14/1998
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW	0	0	0	-2	0.9	0.9	-1	2
elev_NGVD	-6.3	-6.3	-6.3	-8.3	-5.4	-5.4	-7.3	-4.3
Parameters		Units						
Mercury	µg/L	-	-	-	-	0.2 U	-	0.2 U
Nickel	µg/L	-	-	-	-	5 U	-	5 U
Silver	µg/L	-	-	-	-	1 U	-	1 U
Thallium	µg/L	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	50 U	-	50 U
PCBs								
Total PCBs	µg/L	-	-	-	-	0.13 U	-	0.13 U
Pesticides								
4,4'-DDD	µg/L	-	-	-	-	0.05 U	-	0.05 U
4,4'-DDE	µg/L	-	-	-	-	0.05 U	-	0.05 U
4,4'-DDT	µg/L	-	-	-	-	0.05 U	-	0.05 U
Field Parameters								
Conductivity, field	umhos/cm	44200	44000	43600	42800	-	-	43800
Oxidation reduction potential (ORP), field	millivolts	95.0	5.0	15.0	-29.0	-	-	28.0
pH, field	s.u.	7.5	7.5	7.5	7.5	-	-	7.4
Temperature, field	deg c	11.5	11.7	11.2	11.4	-	-	11.3
Turbidity, field	ntu	3.49	8.74	19	4.7	-	-	2.55
General Chemistry								
Alkalinity, bicarbonate	µg/L	111000	122000	123000	126000	-	-	120000
Alkalinity, carbonate	µg/L	2000 U	2000 U	2000 U	2000 U	-	-	2000 U
Alkalinity, hydroxide	µg/L	2000 U	2000 U	2000 U	2000 U	-	-	2000 U
Alkalinity, total (as CaCO3)	µg/L	111000	122000	123000	126000	-	-	120000
pH, field	s.u.	-	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	E-9	F-1	F-11	F-13	F-13	G-12	G-15	G-16	G-22	
Sample ID:	SP-07842-110702-JSV-070	SP-07842-110602-JSV-047	P-011098-MPT-009	P-011398-MPT-024	P-011398-MPT-025	P-011198-MPT-014	P-011198-MPT-016	P-011198-MPT-017	P-011198-MPT-018	
Sample Description:	Outgoing	Outgoing								
Sample Date:	11/7/2002	11/6/2002	1/10/1998	1/13/1998	1/13/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	
elev_MLLW	0	1	2.8	1.4	1.4	6.7	8.6	5.4	1.9	
elev_NGVD	-6.3	-5.3	-3.5	-4.9	-4.9	0.4	2.3	-0.9	-4.4	
					(Duplicate)					
Parameters	Units									
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	-	-	-	-	
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	
Carbon tetrachloride	µg/L	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	-	-	-	-	-	-	-	-	
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Methylene chloride	µg/L	-	-	-	-	-	-	-	-	
Tetrachloroethene	µg/L	-	-	5.0 U	5.0 U	5.0 U	4.0 J	5.3	3.2 J	14
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	
Trichloroethene	µg/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	2.6 J	5.0 U	5.0 U
Vinyl chloride	µg/L	-	-	-	-	-	-	-	-	
Semi-volatile Organic Compounds										
1,2,4-Trichlorobenzene	µg/L	-	-	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	µg/L	-	-	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	-	-	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	µg/L	-	-	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
Metals										
Antimony	µg/L	-	-	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Arsenic	µg/L	-	-	5 U	5.6	5.8	5 U	5 U	5 U	6.7
Cadmium	µg/L	-	-	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chromium	µg/L	-	-	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Copper	µg/L	-	-	6.6	5.2	5.2	22.4	17.1	95.8	8.3
Lead	µg/L	-	-	8.2	10.7	7.2	62.1	56.1	18.7	62.2

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	E-9	F-1	F-11	F-13	F-13	G-12	G-15	G-16	G-22
Sample ID:	SP-07842-110702-JSV-070	SP-07842-110602-JSV-047	P-011098-MPT-009	P-011398-MPT-024	P-011398-MPT-025	P-011198-MPT-014	P-011198-MPT-016	P-011198-MPT-017	P-011198-MPT-018
Sample Description:	Outgoing	Outgoing							
Sample Date:	11/7/2002	11/6/2002	1/10/1998	1/13/1998	1/13/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW	0	1	2.8	1.4	1.4	6.7	8.6	5.4	1.9
elev_NGVD	-6.3	-5.3	-3.5	-4.9	-4.9	0.4	2.3	-0.9	-4.4
					(Duplicate)				
Parameters	Units								
Mercury	µg/L	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	µg/L	-	-	5 U	5 U	5 U	13.0	6.1	114
Silver	µg/L	-	-	1 U	1 U	1 U	1 U	1 U	1 U
Thallium	µg/L	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	50 U	50 U	50 U	50 U	50 U	50 U
PCBs									
Total PCBs	µg/L	-	-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Pesticides									
4,4'-DDD	µg/L	-	-	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDE	µg/L	-	-	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDT	µg/L	-	-	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Field Parameters									
Conductivity, field	umhos/cm	44000	43200	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts	143.0	179.0	-	-	-	-	-	-
pH, field	s.u.	7.8	7.5	-	-	-	-	-	-
Temperature, field	deg c	11.3	11.1	-	-	-	-	-	-
Turbidity, field	ntu	2.54	1.03	-	-	-	-	-	-
General Chemistry									
Alkalinity, bicarbonate	µg/L	106000	176000	-	-	-	-	-	-
Alkalinity, carbonate	µg/L	2000 U	2000 U	-	-	-	-	-	-
Alkalinity, hydroxide	µg/L	2000 U	2000 U	-	-	-	-	-	-
Alkalinity, total (as CaCO3)	µg/L	106000	176000	-	-	-	-	-	-
pH, field	s.u.	-	-	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Milky-Seep 1	Milky-Seep 2	MS-10	MS-1	MS-2	MS-3	MS-4	MS-5	MS-6	MS-7	MS-8	MS-9
Sample ID:	PW-022798-STI-004	PW-030298-STI-011	MS-10	MS-1	MS-2	MS-3	MS-4	MS-5	MS-6	MS-7	MS-8	MS-9
Sample Description:												
Sample Date:	2/25/1998	2/26/1998	11/18/2002	11/14/2002	11/15/2002	11/15/2002	11/15/2002	11/15/2002	11/15/2002	11/15/2002	11/15/2002	11/18/2002
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW	0	-1	-1	0	-1	2	-2	1	3	2	1	1
elev_NGVD	-6.3	-7.3	-7.3	-6.3	-7.3	-4.3	-8.3	-5.3	-3.3	-4.3	-5.3	-5.3

Parameters	Units											
Volatile Organic Compounds												
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	5.0 U	5 U	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/L	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	200	9.1	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	110	15	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds												
1,2,4-Trichlorobenzene	µg/L	2.2 U	2.0 U	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	43	9.2	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	2.2 U	2.0 U	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	4.4 U	4.0 U	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	11 U	10 U	-	-	-	-	-	-	-	-	-
Metals												
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	Milky-Seep 1	Milky-Seep 2	MS-10	MS-1	MS-2	MS-3	MS-4	MS-5	MS-6	MS-7	MS-8	MS-9	
Sample ID:	PW-022798-STI-004	PW-030298-STI-011	MS-10	MS-1	MS-2	MS-3	MS-4	MS-5	MS-6	MS-7	MS-8	MS-9	
Sample Description:													
Sample Date:	2/25/1998	2/26/1998	11/18/2002	11/14/2002	11/15/2002	11/15/2002	11/15/2002	11/15/2002	11/15/2002	11/15/2002	11/15/2002	11/18/2002	
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	
elev_MLLW	0	-1	-1	0	-1	2	-2	1	3	2	1	1	
elev_NGVD	-6.3	-7.3	-7.3	-6.3	-7.3	-4.3	-8.3	-5.3	-3.3	-4.3	-5.3	-5.3	
Parameters		Units											
Mercury	μg/L	-	-	-	-	-	-	-	-	-	-	-	
Nickel	μg/L	-	-	-	-	-	-	-	-	-	-	-	
Silver	μg/L	-	-	-	-	-	-	-	-	-	-	-	
Thallium	μg/L	-	-	-	-	-	-	-	-	-	-	-	
Zinc	μg/L	-	-	-	-	-	-	-	-	-	-	-	
PCBs													
Total PCBs	μg/L	-	8.3 U	-	-	-	-	-	-	-	-	-	
Pesticides													
4,4'-DDD	μg/L	-	0.83 U	-	-	-	-	-	-	-	-	-	
4,4'-DDE	μg/L	-	0.83 U	-	-	-	-	-	-	-	-	-	
4,4'-DDT	μg/L	-	0.83 U	-	-	-	-	-	-	-	-	-	
Field Parameters													
Conductivity, field	umhos/cm	-	-	26500	16200	31800	28200	22800	21700	27900	25200	135000	14600
Oxidation reduction potential (ORP), field	millivolts	-	-	-216.8	-224.8	58.7	-38.6	-148.3	-237.6	-134.6	-259.5	-311.7	-270.0
pH, field	s.u.	-	-	9.8	11.2	8.0	11.0	11.2	11.1	9.8	10.2	11.2	11.2
Temperature, field	deg c	-	-	15.5	19.6	19.3	19.0	19.1	18.5	16.4	15.8	13.5	18.1
Turbidity, field	ntu	-	-	200	15	23	76	27	37	14	20	11	94
General Chemistry													
Alkalinity, bicarbonate	μg/L	-	-	142000	2000 U	292000	2000 U	2000 U	2000 U	193000	85300	2000 U	2000 U
Alkalinity, carbonate	μg/L	-	-	205000	1580000	2000 U	895000	1170000	1240000	289000	441000	885000	933000
Alkalinity, hydroxide	μg/L	-	-	2000 U	769000	2000 U	194000	344000	622000	2000 U	2000 U	568000	531000
Alkalinity, total (as CaCO3)	μg/L	-	-	347000	2350000	292000	1090000	1510000	1860000	482000	526000	1450000	1460000
pH, field	s.u.	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>	NAVY-1	NAVY-1	NAVY-1	NAVY-1	NAVY-1-04	NAVY-2	NAVY-2	NAVY-2	NAVY-2	NAVY-2	NAVY-2
<i>Sample ID:</i>	NAVY-1	SP-010403-JJW-087	NAVY-1	SP-010503-JJW-089	P-012004-JEC-001	NAVY-2	SP-010403-JJW-088	SP-010503-JJW-090	SP-010503-JJW-090	SP-010503-JJW-091	SP-010503-JJW-091
<i>Sample Description:</i>	Outgoing		Incoming			Outgoing		Incoming			
<i>Sample Date:</i>	1/4/2003	1/4/2003	1/5/2003	1/5/2003	1/20/2004	1/4/2003	1/4/2003	1/5/2003	1/5/2003	1/5/2003	1/5/2003
<i>Sample Depth:</i>	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
<i>elev_MLLW</i>	1.22	1.22	1.22	1.22	1.02	1.22	1.22	1.22	1.22	1.22	1.22
<i>elev_NGVD</i>	-5.1	-5.1	-5.1	-5.1	-5.3	-5.1	-5.1	-5.1	-5.1	-5.1	-5.1
<i>Parameters</i>	<i>Units</i>										
<i>Volatile Organic Compounds</i>											
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	5 U	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	-	-	-	-	5 U	-	-	-	-	-
1,1-Dichloroethene	µg/L	-	-	-	-	5 U	-	-	-	-	-
Carbon tetrachloride	µg/L	-	-	-	-	5 U	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	-	-	-	-	5 U	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	5 U	-	-	-	-	-
Ethylbenzene	µg/L	-	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/L	-	-	-	-	8.0	-	-	-	-	-
Tetrachloroethene	µg/L	-	-	-	-	5 U	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	5 U	-	-	-	-	-
Trichloroethene	µg/L	-	-	-	-	5 U	-	-	-	-	-
Vinyl chloride	µg/L	-	-	-	-	5 U	-	-	-	-	-
<i>Semi-volatile Organic Compounds</i>											
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
<i>Metals</i>											
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	-	-	-	-	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	NAVY-1	NAVY-1	NAVY-1	NAVY-1	NAVY-1-04	NAVY-2	NAVY-2	NAVY-2	NAVY-2	NAVY-2	NAVY-2
Sample ID:	NAVY-1	SP-010403-JJW-087	NAVY-1	SP-010503-JJW-089	P-012004-JEC-001	NAVY-2	SP-010403-JJW-088	SP-010503-JJW-090	SP-010503-JJW-090	SP-010503-JJW-091	SP-010503-JJW-091
Sample Description:	Outgoing		Incoming			Outgoing		Incoming			
Sample Date:	1/4/2003	1/4/2003	1/5/2003	1/5/2003	1/20/2004	1/4/2003	1/4/2003	1/5/2003	1/5/2003	1/5/2003	1/5/2003
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW	1.22	1.22	1.22	1.22	1.02	1.22	1.22	1.22	1.22	1.22	1.22
elev_NGVD	-5.1	-5.1	-5.1	-5.1	-5.3	-5.1	-5.1	-5.1	-5.1	-5.1	-5.1
										(Duplicate)	(Duplicate)
Parameters											
Mercury	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Total PCBs	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Field Parameters											
Conductivity, field	umhos/cm	36800	-	36600	-	35500	-	35200	-	35200	-
Oxidation reduction potential (ORP), field	millivolts	68.0	-	-30.0	-	-50.0	-	-74.0	-	-74.0	-
pH, field	s.u.	-	8.1	8.0	-	7.57	-	8.0	-	8.1	-
Temperature, field	deg c	8.7	-	-	8.1	-	-	8.7	-	8.1	-
Turbidity, field	ntu	0.70	-	0.60	-	2.33	-	1.30	-	1.30	-
General Chemistry											
Alkalinity, bicarbonate	µg/L	-	87600	-	87800	-	-	103000	-	104000	-
Alkalinity, carbonate	µg/L	-	2000 U	-	2000 U	-	-	2000 U	-	2000 U	-
Alkalinity, hydroxide	µg/L	-	2000 U	-	2000 U	-	-	2000 U	-	2000 U	-
Alkalinity, total (as CaCO3)	µg/L	-	87600	-	87800	-	-	103000	-	104000	-
pH, field	s.u.	-	-	-	-	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	NAVY-2-04	NAVY-3-04	Seep-1	Seep-1	Seep-1	Seep-1	Seep-2	Seep-2	Seep-2	Seep-2	Seep-2	Seep-3	Seep-3
Sample ID:	P-012004-BDM-002	P-012004-BDM-003	Seep No.1	Seep No.1	Seep 1-Incoming	Seep 1-Outgoing	Seep No.2	Seep No.2	Seep No.2	Seep 2-Incoming	Seep 2-Outgoing	Seep No.3	Seep No.3
Sample Description:													
Sample Date:	1/20/2004	1/20/2004	4/18/1984	1/18/1989	8/28/2004	8/28/2004	4/18/1984	4/18/1984	1/18/1989	8/28/2004	8/28/2004	4/18/1984	1/18/1989
Sample Depth:	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
elev_MLLW	-0.98	-1.98											
elev_NGVD	-7.3	-8.3											

(Duplicate)

Parameters	Units													
Volatile Organic Compounds														
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	400	5 U	-	-	1.0 U	1.0 U	8	-	-	1.0 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U	1.0 U	5 U	-	-	1.0 U	1.0 U	5 U	-	-	1.0 U	5 U
1,1-Dichloroethene	µg/L	5 U	5 U	1.0 U	5 U	-	-	1.0 U	1.0 U	5 U	-	-	1.0 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U	1.0 U	5 U	-	-	1.0 U	1.0 U	5 U	-	-	1.0 U	5 U
Chloroform (Trichloromethane)	µg/L	5 U	5 U	1.7 M	5 U	-	-	11	11	5 U	-	-	4.0 M	5 U
cis-1,2-Dichloroethene	µg/L	5 U	17	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	1.0 U	-
Methylene chloride	µg/L	8.8	8.6	1.0 U	5 U	-	-	1.0 U	1.0 U	5 U	-	-	1.0 U	5 U
Tetrachloroethene	µg/L	5 U	5 U	44	5 U	-	-	1.0 U	1.0 U	5 U	-	-	1.5 M	5 U
trans-1,2-Dichloroethene	µg/L	5 U	5 U	58	13	-	-	1.3 M	1.6 M	20	-	-	1.0 U	5 U
Trichloroethene	µg/L	5 U	5 U	39	5 U	-	-	3.0 M	3.2 M	36	-	-	1.6 M	5 U
Vinyl chloride	µg/L	5 U	5 U	10	10 U	-	-	1.0 U	1.0 U	10 U	-	-	1.0 U	10 U
Semi-volatile Organic Compounds														
1,2,4-Trichlorobenzene	µg/L	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	1.0 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	1.0 U	-
Hexachlorobenzene	µg/L	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	1.0 U	-
Hexachlorobutadiene	µg/L	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	1.0 U	-
Pentachlorophenol	µg/L	-	-	1.0 U	-	-	-	1.0 U	1.0 U	-	-	-	1.0 U	-
Metals														
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Seep-3</i>	<i>Seep-3</i>	<i>Seep-94</i>	<i>Seep-4</i>	<i>Seep-4</i>	<i>Seep-5</i>	<i>Seep-5</i>
<i>Sample ID:</i>		<i>Seep 3-Incoming</i>	<i>Seep 3-Outgoing</i>	<i>SEEP-94</i>	<i>Seep 4-Incoming</i>	<i>Seep 4-Outgoing</i>	<i>Seep 5-Incoming</i>	<i>Seep 5-Outgoing</i>
<i>Sample Description:</i>								
<i>Sample Date:</i>		8/28/2004	8/28/2004	1/12/1994	8/28/2004	8/28/2004	8/28/2004	8/28/2004
<i>Sample Depth:</i>		0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
<i>elev_MLLW</i>								
<i>elev_NGVD</i>								
<i>Parameters</i>	<i>Units</i>							
<i>Volatile Organic Compounds</i>								
1,1,2,2-Tetrachloroethane	µg/L	-	-	1 U	-	-	-	-
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	-	-	1 U	-	-	-	-
Carbon tetrachloride	µg/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	-	-	1	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-
Ethylbenzene	µg/L	-	-	1 U	-	-	-	-
Methylene chloride	µg/L	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	-	-	46	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-
Trichloroethene	µg/L	-	-	36	-	-	-	-
Vinyl chloride	µg/L	-	-	4	-	-	-	-
<i>Semi-volatile Organic Compounds</i>								
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-
<i>Metals</i>								
Antimony	µg/L	-	-	-	-	-	-	-
Arsenic	µg/L	-	-	10 U	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-
Chromium	µg/L	-	-	10 U	-	-	-	-
Copper	µg/L	-	-	10 U	-	-	-	-
Lead	µg/L	-	-	-	-	-	-	-

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>Sample Location:</i>		<i>Seep-3</i>	<i>Seep-3</i>	<i>Seep-94</i>	<i>Seep-4</i>	<i>Seep-4</i>	<i>Seep-5</i>	<i>Seep-5</i>
<i>Sample ID:</i>		<i>Seep 3-Incoming</i>	<i>Seep 3-Outgoing</i>	<i>SEEP-94</i>	<i>Seep 4-Incoming</i>	<i>Seep 4-Outgoing</i>	<i>Seep 5-Incoming</i>	<i>Seep 5-Outgoing</i>
<i>Sample Description:</i>								
<i>Sample Date:</i>		<i>8/28/2004</i>	<i>8/28/2004</i>	<i>1/12/1994</i>	<i>8/28/2004</i>	<i>8/28/2004</i>	<i>8/28/2004</i>	<i>8/28/2004</i>
<i>Sample Depth:</i>		<i>0 ft bml</i>	<i>0 ft bml</i>	<i>0 ft bml</i>	<i>0 ft bml</i>	<i>0 ft bml</i>	<i>0 ft bml</i>	<i>0 ft bml</i>
<i>elev_MLLW</i>								
<i>elev_NGVD</i>								
Parameters	Units							
Mercury	µg/L	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-
Zinc	µg/L	-	-	13	-	-	-	-
PCBs								
Total PCBs	µg/L	-	-	-	-	-	-	-
Pesticides								
4,4'-DDD	µg/L	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-
Field Parameters								
Conductivity, field	umhos/cm	-	-	-	-	-	-	-
Oxidation reduction potential (ORP), field	millivolts	-	-	-	-	-	-	-
pH, field	s.u.	-	-	-	-	-	-	-
Temperature, field	deg c	-	-	-	-	-	-	-
Turbidity, field	ntu	-	-	-	-	-	-	-
General Chemistry								
Alkalinity, bicarbonate	µg/L	-	-	-	-	-	-	-
Alkalinity, carbonate	µg/L	-	-	-	-	-	-	-
Alkalinity, hydroxide	µg/L	-	-	-	-	-	-	-
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-
pH, field	s.u.	8.07	8.07	7.8	7.89	8.36	8.14	8.14

TABLE 4.41

SEEP AND POREWATER ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Notes:

- (1) Site COCs per Tables 3.1 and 3.2 of the Statement of Work (January 2005). Additional non-COC analytical results are presented in the eDAT located in Appendix F.
- (2) Groundwater Cleanup Levels per Table 4.8.
- BML Below mudline.
- MLLW Mean lower low water.
- NGVD National geodetic vertical datum.
- COCs Constituents of concern.
- µg/L Microgram per liter.
- mS/cm Milliseimens per centimeter.
- s.u. Standard units.
- Deg C Degree Celsius.
- ntu Nepheletic turbidity units.
- NV No cleanup level has been established for this parameter.
- * Cleanup Level established at a concentration equal to the practical quantitation limit for that chemical in accordance the WAC 173-340-700 (6)(d). Value may decrease with improvements in analytical methods.
- 500** Concentration exceeds the Groundwater Cleanup Level.
- Not analyzed.
- U Not detected at associated concentration.
- J Estimated concentration.

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	A-1		A-2		A-3		A-4	
Sample ID:	SE-010698-MPT-100	SE-010698-MPT-101	SE-010698-MPT-102	SE-010698-MPT-103	SE-010698-MPT-104	SE-010698-MPT-105	SE-010698-MPT-106	SE-010698-MPT-107
Sample Date:	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/6/1998
Sample Depth:	0 to 1 ft bml	1 to 1.5 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml
Sample Elevation (ft. MLLW):	11.6 to 10.6	10.6 to 10.1	10.1 to 9.1	9.1 to 8.1	8.7 to 7.7	7.7 to 6.7	4.9 to 3.9	3.9 to 2.9
Sample Elevation (ft. NGVD):	5.3 to 4.3	4.3 to 3.8	3.8 to 2.8	2.8 to 1.8	2.4 to 1.4	1.4 to 0.4	-1.4 to -2.4	-2.4 to -3.4

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5.0 U	-	5.0 U	-	5.0 U	-	5.0 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	5.0 U	-	3.0 J	-	5.6	-	5.0 U
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	5.0 U	-	5.0 U	-	5.0 U	-	5.0 U
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	-	10 U	-	10 U	-	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	10 U	-	10 U	-	10 U	-	10 U
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	-	10 U	-	10 U	-	10 U
Hexachlorobutadiene	µg/L	0.013	10 U	-	10 U	-	10 U	-	10 U
Pentachlorophenol	µg/L	7.9	4.8 U	-	4.8 U	-	4.8 U	-	4.8 U
Polychlorinated Biphenyls (PCBs)									
Total PCBs	µg/L	0.2*/0.00017	0.13 U	-	0.13 U	-	0.13 U	-	0.13 U
Pesticides									
4,4'-DDD	µg/L	0.01*/0.00031	0.05 U	-	0.05 U	-	0.05 U	-	0.05 U
4,4'-DDE	µg/L	0.01*/0.00022	0.05 U	-	0.05 U	-	0.05 U	-	0.05 U
4,4'-DDT	µg/L	0.01*/0.00022	0.05 U	-	0.05 U	-	0.05 U	-	0.05 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	A-1		A-2		A-3		A-4	
Sample ID:	SE-010698-MPT-100	SE-010698-MPT-101	SE-010698-MPT-102	SE-010698-MPT-103	SE-010698-MPT-104	SE-010698-MPT-105	SE-010698-MPT-106	SE-010698-MPT-107
Sample Date:	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/6/1998
Sample Depth:	0 to 1 ft bml	1 to 1.5 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml
Sample Elevation (ft. MLLW):	11.6 to 10.6	10.6 to 10.1	10.1 to 9.1	9.1 to 8.1	8.7 to 7.7	7.7 to 6.7	4.9 to 3.9	3.9 to 2.9
Sample Elevation (ft. NGVD):	5.3 to 4.3	4.3 to 3.8	3.8 to 2.8	2.8 to 1.8	2.4 to 1.4	1.4 to 0.4	-1.4 to -2.4	-2.4 to -3.4

Chemical Parameters ⁽¹⁾

	Units	Groundwater Cleanup Level ⁽²⁾	A-1		A-2		A-3		A-4	
Metals										
Antimony	µg/L	3333	5 U	-	24.0 J	-	39.2 J	-	8.8 J	-
Arsenic	µg/L	0.14	6.7 J	-	13.6 J	-	5 U	-	32.1 J	-
Cadmium	µg/L	1.2	13.6	5 U	5 U	-	5 U	-	5 U	-
Chromium Total	µg/L	50	5 U	-	5 U	-	5 U	-	9.6	-
Copper	µg/L	2.4	30.4 J	4.0 JB	20.0 J	12.9 JB	5.9 J	7.4	20.0 J	13.1 JB
Lead	µg/L	8.1	5.7 J	-	127 J	380	1480 J	-	5 U	-
Mercury	µg/L	0.2*/0.025	0.2 U	-	0.2 U	-	0.2 U	-	0.2 U	-
Nickel	µg/L	8.2	5 U	-	5 U	-	7.6	-	5 U	-
Silver	µg/L	55	1 U	-	1 U	-	1 U	-	1 U	-
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	671	50 U	50 U	-	150	50 U	50 U	-

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	A-5		A-6		A-7	A-9	A-10	A-11
Sample ID:	SE-010698-MPT-108	SE-010698-MPT-109	SE-010698-MPT-110	SE-010898-MPT-111	A-010698-MPT-113	G-010698-MPT-112	G-010798-MPT-114	SE-010898-MPT-116
Sample Date:	1/6/1998	1/6/1998	1/6/1998	1/8/1998	1/6/1998	1/6/1998	1/7/1998	1/8/1998
Sample Depth:	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 ft bml	0 ft bml	0 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	4.7 to 3.7	3.7 to 2.7	5.4 to 4.4	4.4 to 3.4	7.4	15.9	15.3	6.2 to 5.2
Sample Elevation (ft. NGVD):	-1.6 to -2.6	-2.6 to -3.6	-0.9 to -1.9	-1.9 to -2.9	1.1	9.6	9	-0.1 to -1.1

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾								
		A-5	A-6	A-7	A-9	A-10	A-11	A-11	A-11	A-11
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5.0 U	-	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	5.0 U	-	2.6 JB	-	5.0 U	2.9 JB	5.0 U	3.9 J
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	5.0 U	-	5.0 U	-	5.0 U	8.5 B	5.0 U	5.2 B
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-	-
Semivolatile Organic Compounds										
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	-	10 U	-	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	10 U	-	10 U	-	10 U	10 U	10 U	10 U
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	-	10 U	-	10 U	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	0.013	10 U	-	10 U	-	10 U	10 U	10 U	10 U
Pentachlorophenol	µg/L	7.9	4.8 U	-	4.8 U	-	4.8 U	4.8 U	4.8 U	4.8 U
Polychlorinated Biphenyls (PCBs)										
Total PCBs	µg/L	0.2*/0.00017	0.13 U	-	0.13 U	-	0.13 U	0.13 U	0.13 U	1.3 U
Pesticides										
4,4'-DDD	µg/L	0.01*/0.00031	0.05 U	-	0.05 U	-	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDE	µg/L	0.01*/0.00022	0.05 U	-	0.05 U	-	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDT	µg/L	0.01*/0.00022	0.05 U	-	0.05 U	-	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	A-5		A-6		A-7	A-9	A-10	A-11
Sample ID:	SE-010698-MPT-108	SE-010698-MPT-109	SE-010698-MPT-110	SE-010898-MPT-111	A-010698-MPT-113	G-010698-MPT-112	G-010798-MPT-114	SE-010898-MPT-116
Sample Date:	1/6/1998	1/6/1998	1/6/1998	1/8/1998	1/6/1998	1/6/1998	1/7/1998	1/8/1998
Sample Depth:	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 ft bml	0 ft bml	0 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	4.7 to 3.7	3.7 to 2.7	5.4 to 4.4	4.4 to 3.4	7.4	15.9	15.3	6.2 to 5.2
Sample Elevation (ft. NGVD):	-1.6 to -2.6	-2.6 to -3.6	-0.9 to -1.9	-1.9 to -2.9	1.1	9.6	9	-0.1 to -1.1

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾								
			A-5		A-6		A-7	A-9	A-10	A-11
Metals										
Antimony	µg/L	3333	10.8 J	-	14.9 J	-	9.8	5 U	5 U	12.6 B
Arsenic	µg/L	0.14	15.7 J	-	27.4 J	-	5 U	13.2 J	5 U	5 U
Cadmium	µg/L	1.2	5 U	-	5 U	-	5 U	5 U	5 U	5 U
Chromium Total	µg/L	50	5 U	-	5 U	-	5 U	5 U	7.0	5 U
Copper	µg/L	2.4	10.9 J	30.1 J	8.3 J	12.7	10.3 B	14.2 J	5.4 B	11.5 B
Lead	µg/L	8.1	5.3 J	-	46.1 J	177	1290	5 U	5 U	516
Mercury	µg/L	0.2*/0.025	0.2 U	-	0.2 U	-	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	µg/L	8.2	8.9	5.0	5 U	-	5 U	5 U	12.6	8.6 J
Silver	µg/L	55	1 U	-	1 U	-	1 U	1 U	1 U	1 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	50 U	-	50 U	-	50 U	50 U	67.7	50 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	A-11 (cont)	A-12		A-13		A-14		A-14-5
Sample ID:	SE-010898-MPT-117	SE-010898-MPT-118	SE-010898-MPT-119	SE-010898-MPT-120	SE-010898-MPT-121	SE-010898-MPT-122	SE-010898-MPT-123	S-TRENCH-022598-MPT-009
Sample Date:	1/8/1998	1/8/1998	1/8/1998	1/8/1998	1/8/1998	1/8/1998	1/8/1998	2/25/1998
Sample Depth:	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	4 to 5 ft bml
Sample Elevation (ft. MLLW):	5.2 to 4.2	5.8 to 4.8	4.8 to 3.8	12 to 11	11 to 10	10.1 to 9.1	9.1 to 8.1	-0.9 to -1.9
Sample Elevation (ft. NGVD):	-1.1 to -2.1	-0.5 to -1.5	-1.5 to -2.5	5.7 to 4.7	4.7 to 3.7	3.8 to 2.8	2.8 to 1.8	-7.2 to -8.2

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾							
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	-	5.0 U	-	5.0 U	-	5.0 U	-
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	-	21	-	5.0 U	-	8.1	-
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	-	4.5 B	-	5.2 B	-	3.2 JB	-
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	1.92	-	10 U	-	10 U	-	10 U	-
bis(2-Ethylhexyl)phthalate	µg/L	0.73	-	10 U	-	10 U	-	10 U	-
Hexachlorobenzene	µg/L	0.01*/0.00077	-	10 U	-	10 U	-	10 U	-
Hexachlorobutadiene	µg/L	0.013	-	8.8 J	-	10 U	-	10 U	-
Pentachlorophenol	µg/L	7.9	-	4.8 U	-	4.8 U	-	4.8 U	-
Polychlorinated Biphenyls (PCBs)									
Total PCBs	µg/L	0.2*/0.00017	-	2.0 U	-	0.13 U	-	0.13 U	-
Pesticides									
4,4'-DDD	µg/L	0.01*/0.00031	-	0.05 U	-	0.05 U	-	0.05 U	-
4,4'-DDE	µg/L	0.01*/0.00022	-	0.05 U	-	0.05 U	-	0.05 U	-
4,4'-DDT	µg/L	0.01*/0.00022	-	0.05 U	-	0.05 U	-	0.05 U	-

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	A-11 (cont)	A-12		A-13		A-14		A-14-5
Sample ID:	SE-010898-MPT-117	SE-010898-MPT-118	SE-010898-MPT-119	SE-010898-MPT-120	SE-010898-MPT-121	SE-010898-MPT-122	SE-010898-MPT-123	S-TRENCH-022598-MPT-009
Sample Date:	1/8/1998	1/8/1998	1/8/1998	1/8/1998	1/8/1998	1/8/1998	1/8/1998	2/25/1998
Sample Depth:	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	4 to 5 ft bml
Sample Elevation (ft. MLLW):	5.2 to 4.2	5.8 to 4.8	4.8 to 3.8	12 to 11	11 to 10	10.1 to 9.1	9.1 to 8.1	-0.9 to -1.9
Sample Elevation (ft. NGVD):	-1.1 to -2.1	-0.5 to -1.5	-1.5 to -2.5	5.7 to 4.7	4.7 to 3.7	3.8 to 2.8	2.8 to 1.8	-7.2 to -8.2

Chemical Parameters ⁽¹⁾

Units Groundwater
 Cleanup Level ⁽²⁾

Metals

Chemical	Units	3333	-	5.7	-	5 U	-	83.5	-	26.0
Antimony	µg/L	3333	-	5.7	-	5 U	-	83.5	-	26.0
Arsenic	µg/L	0.14	-	8.7	-	8.7	-	21.9	-	8.5
Cadmium	µg/L	1.2	-	5 U	-	5 U	-	5 U	-	5 U
Chromium Total	µg/L	50	-	5 U	-	5 U	-	5 U	-	-
Copper	µg/L	2.4	9.9	6.6 B	13.2	12.9 B	11.6	8.6 B	14.2	3.4 B
Lead	µg/L	8.1	446	151	89.2	5 U	-	144	305	227
Mercury	µg/L	0.2*/0.025	-	0.2 U	-	0.2 U	-	0.2 U	-	0.2 U
Nickel	µg/L	8.2	5 U	5 U	-	5 U	-	5 U	-	34.9 J
Silver	µg/L	55	-	1 U	-	1 U	-	1 U	-	1 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	-	50 U	-	50 U	-	50 U	-	50 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

	<i>Sample Location:</i>					
	<u>A-14-8</u>	<u>A-15-5</u>	<u>A-15-8</u>	<u>A-15</u>	<u>A-16</u>	<u>A-17</u>
<i>Sample ID:</i>	S-TRENCH-022498-MPT-007	S-TRENCH-022498-MPT-014	S-TRENCH-022498-MPT-012	PSE-011298-JOS-128	PSE-011298-JOS-130	SE-011298-MPT-124
<i>Sample Date:</i>	2/24/1998	2/24/1998	2/24/1998	1/12/1998	1/12/1998	1/12/1998
<i>Sample Depth:</i>	4 to 5 ft bml	4 to 5 ft bml	4 to 5 ft bml	0 to 1 ft bml	0 to 1 ft bml	0 to 1 ft bml
<i>Sample Elevation (ft. MLLW):</i>	6.4 to 5.4	4.54 to 3.54	5.5 to 4.5	2.6 to 1.6	0 to -1	0.5 to -0.5
<i>Sample Elevation (ft. NGVD):</i>	0.1 to -0.9	-1.8 to -2.8	-0.8 to -1.8	-3.7 to -4.7	-6.3 to -7.3	-5.8 to -6.8
	<i>Groundwater</i>					
<i>Chemical Parameters</i> ⁽¹⁾	<i>Units</i>	<i>Cleanup Level</i> ⁽²⁾				
<i>Volatile Organic Compounds</i>						
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-
Ethylbenzene	µg/L	3.1	-	-	-	5 U
Methylene chloride	µg/L	1600	-	-	-	-
Tetrachloroethene	µg/L	8.85	-	-	-	3 JB
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-
Trichloroethene	µg/L	81	-	-	-	12 B
Vinyl chloride	µg/L	2.4	-	-	-	-
<i>Semivolatile Organic Compounds</i>						
1,2,4-Trichlorobenzene	µg/L	1.92	-	-	-	11 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	-	-	-	11 U
Hexachlorobenzene	µg/L	0.01*/0.00077	-	-	-	11 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	11 U
Pentachlorophenol	µg/L	7.9	-	-	-	5 U
<i>Polychlorinated Biphenyls (PCBs)</i>						
Total PCBs	µg/L	0.2*/0.00017	-	-	-	0.13 U
<i>Pesticides</i>						
4,4'-DDD	µg/L	0.01*/0.00031	-	-	-	0.050 U
4,4'-DDE	µg/L	0.01*/0.00022	-	-	-	0.050 U
4,4'-DDT	µg/L	0.01*/0.00022	-	-	-	0.050 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	A-14-8	A-15-5	A-15-8	A-15	A-16	A-17
Sample ID:	S-TRENCH-022498-MPT-007	S-TRENCH-022498-MPT-014	S-TRENCH-022498-MPT-012	PSE-011298-JOS-128	PSE-011298-JOS-130	SE-011298-MPT-124
Sample Date:	2/24/1998	2/24/1998	2/24/1998	1/12/1998	1/12/1998	1/12/1998
Sample Depth:	4 to 5 ft bml	4 to 5 ft bml	4 to 5 ft bml	0 to 1 ft bml	0 to 1 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	6.4 to 5.4	4.54 to 3.54	5.5 to 4.5	2.6 to 1.6	0 to -1	0.5 to -0.5
Sample Elevation (ft. NGVD):	0.1 to -0.9	-1.8 to -2.8	-0.8 to -1.8	-3.7 to -4.7	-6.3 to -7.3	-5.8 to -6.8

Chemical Parameters ⁽¹⁾

	Units	Groundwater Cleanup Level ⁽²⁾	A-14-8	A-15-5	A-15-8	A-15	A-16	A-17
Metals								
Antimony	µg/L	3333	13.2	39.1	13.7	-	-	12.0
Arsenic	µg/L	0.14	5 U	21.6	10.0	-	-	28.9 J
Cadmium	µg/L	1.2	5 U	5 U	5 U	-	-	5.0 U
Chromium Total	µg/L	50	-	-	-	-	-	1.4 J
Copper	µg/L	2.4	8.0 B	4.8 B	15.4	13.4	9.3	16.4 J
Lead	µg/L	8.1	2020	13.6	259	1480	360	6.7
Mercury	µg/L	0.2*/0.025	0.2 U	0.2 U	0.2 U	-	-	0.20 U
Nickel	µg/L	8.2	11.0 J	13.5 J	7.5 J	24.6 B	13.7 B	6.6 B
Silver	µg/L	55	1 U	1 U	1 U	-	-	1.0 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-
Zinc	µg/L	81	50 U	50 U	50 U	-	-	65

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	A-18			A-19		A-20	A-21	A-22
Sample ID:	PSE-011298-JOS-132	SE-011298-MPT-126	SE-011298-MPT-127	SE-011298-MPT-134	SE-011298-MPT-135	SE-011298-JOS-136	Y-011398-MPT-137	SE-011498-MPT-138
Sample Date:	1/12/1998	1/12/1998	1/12/1998	1/12/1998	1/12/1998	1/12/1998	1/13/1998	1/14/1998
Sample Depth:	0 to 1 ft bml	0 to 1 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 1.7 ft bml	0 to 1 ft bml	0 ft bml	0 to 0.25 ft bml
Sample Elevation (ft. MLLW):	1.2 to 0.2	1.2 to 0.2	1.2 to 0.2	1.6 to 0.6	0.6 to -0.1	1.5 to 0.5	13.3	2.4 to 2.15
Sample Elevation (ft. NGVD):	-5.1 to -6.1	-5.1 to -6.1	-5.1 to -6.1	-4.7 to -5.7	-5.7 to -6.4	-4.8 to -5.8	7	-3.9 to -4.2

(Duplicate)

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	-	5 U	3 J	5 U	-	5 U	5 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	-	5 B	5 B	6 B	-	8 B	5 U
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	-	18 B	17 B	16 B	-	13 B	5 U
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	1.92	-	10 U	10 U	10 U	-	11 U	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	-	10 U	10 U	1 J	-	1 J	10 U
Hexachlorobenzene	µg/L	0.01*/0.00077	-	10 U	10 U	10 U	-	11 U	10 U
Hexachlorobutadiene	µg/L	0.013	-	10 U	10 U	10 U	-	11 U	10 U
Pentachlorophenol	µg/L	7.9	-	5 U	5 U	5 U	-	5 U	5 U
Polychlorinated Biphenyls (PCBs)									
Total PCBs	µg/L	0.2*/0.00017	-	0.13 U	0.13 U	0.13 U	-	0.13 U	0.13 U
Pesticides									
4,4'-DDD	µg/L	0.01*/0.00031	-	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U
4,4'-DDE	µg/L	0.01*/0.00022	-	0.050 U	0.00278 JB	0.0103 J	-	0.0268 J	0.050 U
4,4'-DDT	µg/L	0.01*/0.00022	-	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	A-18			A-19		A-20	A-21	A-22
Sample ID:	PSE-011298-JOS-132	SE-011298-MPT-126	SE-011298-MPT-127	SE-011298-MPT-134	SE-011298-MPT-135	SE-011298-JOS-136	Y-011398-MPT-137	SE-011498-MPT-138
Sample Date:	1/12/1998	1/12/1998	1/12/1998	1/12/1998	1/12/1998	1/12/1998	1/13/1998	1/14/1998
Sample Depth:	0 to 1 ft bml	0 to 1 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 1.7 ft bml	0 to 1 ft bml	0 ft bml	0 to 0.25 ft bml
Sample Elevation (ft. MLLW):	1.2 to 0.2	1.2 to 0.2	1.2 to 0.2	1.6 to 0.6	0.6 to -0.1	1.5 to 0.5	13.3	2.4 to 2.15
Sample Elevation (ft. NGVD):	-5.1 to -6.1	-5.1 to -6.1	-5.1 to -6.1	-4.7 to -5.7	-5.7 to -6.4	-4.8 to -5.8	7	-3.9 to -4.2

(Duplicate)

Chemical Parameters ⁽¹⁾

Groundwater
 Units Cleanup Level ⁽²⁾

Metals

Parameter	Units	Value	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9
Antimony	µg/L	3333	-	36.5 J	18.8 J	5.0 U	-	32.1	5.0 U	13.7	
Arsenic	µg/L	0.14	-	41.6 J	17.4 J	5.0 U	-	5.0 U	5.0 U	5.0 U	
Cadmium	µg/L	1.2	-	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	
Chromium Total	µg/L	50	-	5.0 U	5.0 U	1.5 J	-	5.0 U	1.9 JB	5.0 U	
Copper	µg/L	2.4	19.3	10.0 JB	15.3 BJ	5.5 JB	11.9	5.2 JB	10.7	18.4	
Lead	µg/L	8.1	23.9	37.3 J	140 J	10.7	99.1	60.6	5.0 U	152	
Mercury	µg/L	0.2*/0.025	-	0.20 U	0.20 U	0.025 JB	-	0.20 U	0.20 U	0.20 U	
Nickel	µg/L	8.2	-	8.1 B	8.2 B	7.3 B	-	15.0 B	6.6 B	8.4 B	
Silver	µg/L	55	-	1.0 U	1.0 U	1.0 U	-	1.0 U	1.8	1.0 U	
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-	
Zinc	µg/L	81	-	50 U	50 U	50 U	-	291	197 JB	262	

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	B-1	B-2		B-4	B-5	B-6	B-7	
Sample ID:	SE-010698-JOS-200	SE-010698-JOS-202	SE-010698-JOS-203	SE-010698-JOS-206	SE-010698-JOS-208	SE-010698-JOS-210	R-010698-JOS-214	R-010698-JOS-218
Sample Date:	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/6/1998
Sample Depth:	0 to 1 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	0 to 0.6 ft bml	0 to 0.6 ft bml	0 ft bml	0 ft bml
Sample Elevation (ft. MLLW):	12 to 11	11.4 to 10.4	10.4 to 9.4	10.8 to 9.8	5.9 to 5.3	7.6 to 7	5.9	5.9
Sample Elevation (ft. NGVD):	5.7 to 4.7	5.1 to 4.1	4.1 to 3.1	4.5 to 3.5	-0.4 to -1	1.3 to 0.7	-0.4	-0.4

(Duplicate)

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾								
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	3.1 JB	3.3 JB
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	8.8 B	9.0 B
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-	-
Semivolatile Organic Compounds										
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	10 U	-	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	10 U	10 U	-	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	10 U	-	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	0.013	10 U	10 U	-	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	µg/L	7.9	4.8 U	4.8 U	-	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
Polychlorinated Biphenyls (PCBs)										
Total PCBs	µg/L	0.2*/0.00017	0.13 U	0.13 U	-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Pesticides										
4,4'-DDD	µg/L	0.01*/0.00031	0.05 U	0.05 U	-	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDE	µg/L	0.01*/0.00022	0.05 U	0.05 U	-	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDT	µg/L	0.01*/0.00022	0.05 U	0.05 U	-	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	B-1	B-2		B-4	B-5	B-6	B-7	
Sample ID:	SE-010698-JOS-200	SE-010698-JOS-202	SE-010698-JOS-203	SE-010698-JOS-206	SE-010698-JOS-208	SE-010698-JOS-210	R-010698-JOS-214	R-010698-JOS-218
Sample Date:	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/6/1998
Sample Depth:	0 to 1 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	0 to 0.6 ft bml	0 to 0.6 ft bml	0 ft bml	0 ft bml
Sample Elevation (ft. MLLW):	12 to 11	11.4 to 10.4	10.4 to 9.4	10.8 to 9.8	5.9 to 5.3	7.6 to 7	5.9	5.9
Sample Elevation (ft. NGVD):	5.7 to 4.7	5.1 to 4.1	4.1 to 3.1	4.5 to 3.5	-0.4 to -1	1.3 to 0.7	-0.4	-0.4

(Duplicate)

Chemical Parameters ⁽¹⁾

Units Groundwater Cleanup Level ⁽²⁾

Metals	Units	Groundwater Cleanup Level ⁽²⁾	B-1	B-2	B-4	B-5	B-6	B-7	B-7	
Antimony	µg/L	3333	5 U	5 U	-	19.4 J	11.5 J	8.6 J	5 U	5 U
Arsenic	µg/L	0.14	8.7 J	14.2 J	-	24.7 J	15.5 J	9.6 J	5 U	5 U
Cadmium	µg/L	1.2	5 U	5 U	-	5 U	5 U	5 U	5 U	5 U
Chromium Total	µg/L	50	5 U	5 U	-	5 U	5 U	5 U	5 U	5 U
Copper	µg/L	2.4	9.8 J	38.2 J	6.5 JB	38.0 J	14.0 J	5.8 J	23.4 J	30.6 J
Lead	µg/L	8.1	5 U	84.1 J	5 U	55.2 J	5 U	359 J	5 U	5 U
Mercury	µg/L	0.2*/0.025	0.2 U	0.2 U	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	µg/L	8.2	6.1	9.7	5 U	5 U	22.9	5 U	5 U	5.4
Silver	µg/L	55	1 U	1 U	-	1 U	1 U	1 U	1 U	1 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	50 U	69.1	-	50 U	50 U	50 U	50 U	50 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	B-7 (cont)		B-8	B-9	B-10	B-11	B-12	B-12 (cont)
Sample ID:	SE-010698-JOS-212	SE-010698-JOS-213	Y-010698-JOS-215	SE-010698-JOS-216	SE-010798-JOS-220	SE-010798-JOS-222	SE-010798-JOS-224	SE-010798-JOS-225
Sample Date:	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998
Sample Depth:	0 to 1 ft bml	1 to 2 ft bml	0 ft bml	0 to 1 ft bml	0 to 1 ft bml	0 to 0.5 ft bml	0 to 1 ft bml	1 to 2 ft bml
Sample Elevation (ft. MLLW):	5.9 to 4.9	4.9 to 3.9	12	10.2 to 9.2	14.6 to 13.6	9.6 to 9.1	11.2 to 10.2	10.2 to 9.2
Sample Elevation (ft. NGVD):	-0.4 to -1.4	-1.4 to -2.4	5.7	3.9 to 2.9	8.3 to 7.3	3.3 to 2.8	4.9 to 3.9	3.9 to 2.9

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾							
		B-7 (cont)	B-7 (cont)	B-8	B-9	B-10	B-11	B-12	B-12 (cont)
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	5.0 U	-	3.0 B	5.0 U	2.7 JB	2.4 JB	3.5 JB
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	5.0 U	-	8.7 B	5.0 U	7.7 B	7.6 B	12 B
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	-	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	10 U	-	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	-	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	0.013	10 U	-	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	µg/L	7.9	4.8 U	-	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
Polychlorinated Biphenyls (PCBs)									
Total PCBs	µg/L	0.2*/0.00017	0.13 U	-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Pesticides									
4,4'-DDD	µg/L	0.01*/0.00031	0.05 U	-	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDE	µg/L	0.01*/0.00022	0.05 U	-	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDT	µg/L	0.01*/0.00022	0.05 U	-	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	B-7 (cont)		B-8	B-9	B-10	B-11	B-12	B-12 (cont)	
Sample ID:	SE-010698-JOS-212	SE-010698-JOS-213	Y-010698-JOS-215	SE-010698-JOS-216	SE-010798-JOS-220	SE-010798-JOS-222	SE-010798-JOS-224	SE-010798-JOS-225	
Sample Date:	1/6/1998	1/6/1998	1/6/1998	1/6/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	
Sample Depth:	0 to 1 ft bml	1 to 2 ft bml	0 ft bml	0 to 1 ft bml	0 to 1 ft bml	0 to 0.5 ft bml	0 to 1 ft bml	1 to 2 ft bml	
Sample Elevation (ft. MLLW):	5.9 to 4.9	4.9 to 3.9	12	10.2 to 9.2	14.6 to 13.6	9.6 to 9.1	11.2 to 10.2	10.2 to 9.2	
Sample Elevation (ft. NGVD):	-0.4 to -1.4	-1.4 to -2.4	5.7	3.9 to 2.9	8.3 to 7.3	3.3 to 2.8	4.9 to 3.9	3.9 to 2.9	

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾								
			B-7 (cont)	B-7 (cont)	B-8	B-9	B-10	B-11	B-12	B-12 (cont)
Metals										
Antimony	µg/L	3333	5.6 J	-	5 U	10.8 J	5 U	5 U	10.7	-
Arsenic	µg/L	0.14	11.7 J	-	5 U	17.2 J	5 U	10.8	13.9	-
Cadmium	µg/L	1.2	5 U	-	5 U	5 U	5 U	5 U	5 U	-
Chromium Total	µg/L	50	5 U	-	5 U	5 U	5 U	5 U	5 U	-
Copper	µg/L	2.4	13.9 J	9.3 JB	22.1 J	12.7 J	16.9	18.0	11.5	6.3 JB
Lead	µg/L	8.1	5.8 J	-	5 U	155 J	5 U	5 U	373	28.6
Mercury	µg/L	0.2*/0.025	0.2 U	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-
Nickel	µg/L	8.2	21.0	5 U	5.6	5 U	5 U	5 U	7.8	-
Silver	µg/L	55	1 U	-	1.6	1 U	1 U	1 U	1 U	-
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	50 U	-	50 U	50 U	50 U	50 U	50 U	-

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	B-13		B-14			B-15	B-16	B-17
Sample ID:	SE-010798-JOS-226	SE-010798-JOS-227	SE-010798-JOS-228	SE-010798-JOS-230	SE-010798-JOS-231	SE-010798-JOS-232	SE-010798-JOS-234	C-011098-MPT-236
Sample Date:	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/10/1998
Sample Depth:	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 1.6 ft bml	0 to 1 ft bml	0 to 0.5 ft bml	0 ft bml
Sample Elevation (ft. MLLW):	4.7 to 3.7	3.7 to 2.7	5.1 to 4.1	5.1 to 4.1	4.1 to 3.5	4.8 to 3.8	6.6 to 6.1	10.2
Sample Elevation (ft. NGVD):	-1.6 to -2.6	-2.6 to -3.6	-1.2 to -2.2	-1.2 to -2.2	-2.2 to -2.8	-1.5 to -2.5	0.3 to -0.2	3.9

(Duplicate)

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾								
		B-13	B-13	B-14	B-14	B-14	B-15	B-16	B-16	B-17
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5.0 U	-	5.0 U	5.0 U	-	5.0 U	5.0 U	5 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	5.0	-	5.0 U	5.0 U	-	5.0 U	2.3 J	1 JB
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	5.3 B	-	4.2 JB	4.1 JB	-	4.2 JB	4.0 JB	4 JB
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-	-
Semivolatile Organic Compounds										
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	-	10 U	10 U	-	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	10 U	-	10 U	10 U	-	10 U	10 U	10 U
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	-	10 U	10 U	-	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	0.013	10 U	-	10 U	10 U	-	10 U	10 U	10 U
Pentachlorophenol	µg/L	7.9	4.8 U	-	4.8 U	4.8 U	-	4.8 U	4.8 U	5 U
Polychlorinated Biphenyls (PCBs)										
Total PCBs	µg/L	0.2*/0.00017	0.13 U	-	0.13 U	0.13 U	-	0.13 U	0.13 U	0.13 U
Pesticides										
4,4'-DDD	µg/L	0.01*/0.00031	0.05 U	-	0.05 U	0.05 U	-	0.05 U	0.05 U	0.050 U
4,4'-DDE	µg/L	0.01*/0.00022	0.05 U	-	0.05 U	0.05 U	-	0.05 U	0.05 U	0.050 U
4,4'-DDT	µg/L	0.01*/0.00022	0.05 U	-	0.05 U	0.05 U	-	0.05 U	0.05 U	0.050 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	B-13		B-14			B-15	B-16	B-17
Sample ID:	SE-010798-JOS-226	SE-010798-JOS-227	SE-010798-JOS-228	SE-010798-JOS-230	SE-010798-JOS-231	SE-010798-JOS-232	SE-010798-JOS-234	C-011098-MPT-236
Sample Date:	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/10/1998
Sample Depth:	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 1.6 ft bml	0 to 1 ft bml	0 to 0.5 ft bml	0 ft bml
Sample Elevation (ft. MLLW):	4.7 to 3.7	3.7 to 2.7	5.1 to 4.1	5.1 to 4.1	4.1 to 3.5	4.8 to 3.8	6.6 to 6.1	10.2
Sample Elevation (ft. NGVD):	-1.6 to -2.6	-2.6 to -3.6	-1.2 to -2.2	-1.2 to -2.2	-2.2 to -2.8	-1.5 to -2.5	0.3 to -0.2	3.9

(Duplicate)

Chemical Parameters ⁽¹⁾

Groundwater
 Cleanup Level ⁽²⁾

Chemical Parameters ⁽¹⁾	Units	3333	18.5	-	5.3	8.1	-	5 U	5 U	101 J
Antimony	µg/L	3333	18.5	-	5.3	8.1	-	5 U	5 U	101 J
Arsenic	µg/L	0.14	5 U	-	16.4	17.8	-	23.6	29.1	6.4
Cadmium	µg/L	1.2	5 U	-	5 U	5 U	-	5 U	5 U	5.0 U
Chromium Total	µg/L	50	5 U	-	5 U	5 U	-	5 U	5 U	19.2
Copper	µg/L	2.4	16.9	4.5 JB	12.8	18.4	4.3 JB	11.9	14.0	25.2 J
Lead	µg/L	8.1	179	59.6	66.0	77.6	30.3	26.0	27.5	R
Mercury	µg/L	0.2*/0.025	0.2 U	-	0.2 U	0.2 U	-	0.2 U	0.2 U	0.20 U
Nickel	µg/L	8.2	7.0	-	5.6	5 U	-	5.3	5 U	6.2 B
Silver	µg/L	55	1 U	-	1 U	1 U	-	1 U	1 U	1.0 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	50 U	-	50 U	50 U	-	50 U	50 U	77 JB

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	B-18	B-19	B-20	B-21-5	B-21-8	B-22	B-23
Sample ID:	Y-011098-MPT-237	R-011098-MPT-238	SE-011398-MPT-240	S-TRENCH-022598-MPT-019	S-TRENCH-022598-MPT-017	SE-011398-MPT-244	G-011398-MPT-256
Sample Date:	1/10/1998	1/10/1998	1/13/1998	2/25/1998	2/25/1998	1/13/1998	1/13/1998
Sample Depth:	0 ft bml	0 ft bml	0 to 1 ft bml	4 to 5 ft bml	4 to 5 ft bml	0 to 1 ft bml	0 ft bml
Sample Elevation (ft. MLLW):	7.4	3.7	0.8 to -0.2	-2.1 to -3.1	5.7 to 4.7	1.3 to 0.3	0.9
Sample Elevation (ft. NGVD):	1.1	-2.6	-5.5 to -6.5	-8.4 to -9.4	-0.6 to -1.6	-5 to -6	-5.4

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾						
		B-18	B-19	B-20	B-21-5	B-21-8	B-22	B-23
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5 U	5 U	5 U	-	5 U	5 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	2 JB	1 JB	1 JB	-	2 JB	3 J
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-
Trichloroethene	µg/L	81	4 JB	4 JB	4 JB	-	5 B	4 JB
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-
Semivolatile Organic Compounds								
1,2,4-Trichlorobenzene	µg/L	1.92	15 U	10 U	10 U	-	1 J	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	15 U	10 U	1 JB	-	1 JB	10 U
Hexachlorobenzene	µg/L	0.01*/0.00077	15 U	10 U	10 U	-	10 U	10 U
Hexachlorobutadiene	µg/L	0.013	15 U	10 U	10 U	-	10 U	10 U
Pentachlorophenol	µg/L	7.9	7 U	5 U	5 U	-	5 U	5 U
Polychlorinated Biphenyls (PCBs)								
Total PCBs	µg/L	0.2*/0.00017	0.13 U	0.13 U	0.13 U	-	0.13 U	0.13 U
Pesticides								
4,4'-DDD	µg/L	0.01*/0.00031	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U
4,4'-DDE	µg/L	0.01*/0.00022	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U
4,4'-DDT	µg/L	0.01*/0.00022	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	B-18	B-19	B-20	B-21-5	B-21-8	B-22	B-23
Sample ID:	Y-011098-MPT-237	R-011098-MPT-238	SE-011398-MPT-240	S-TRENCH-022598-MPT-019	S-TRENCH-022598-MPT-017	SE-011398-MPT-244	G-011398-MPT-256
Sample Date:	1/10/1998	1/10/1998	1/13/1998	2/25/1998	2/25/1998	1/13/1998	1/13/1998
Sample Depth:	0 ft bml	0 ft bml	0 to 1 ft bml	4 to 5 ft bml	4 to 5 ft bml	0 to 1 ft bml	0 ft bml
Sample Elevation (ft. MLLW):	7.4	3.7	0.8 to -0.2	-2.1 to -3.1	5.7 to 4.7	1.3 to 0.3	0.9
Sample Elevation (ft. NGVD):	1.1	-2.6	-5.5 to -6.5	-8.4 to -9.4	-0.6 to -1.6	-5 to -6	-5.4

Chemical Parameters ⁽¹⁾

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾							
			B-18	B-19	B-20	B-21-5	B-21-8	B-22	B-23
Metals									
Antimony	µg/L	3333	6.1 JB	5.0 U	26.7	9.2	5 U	15.1	5.0 U
Arsenic	µg/L	0.14	5.0 U	6.8	20.2	56.8	19.1	27.9	5.0 U
Cadmium	µg/L	1.2	5.0 U	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U
Chromium Total	µg/L	50	3.3 J	2.1 J	5.0 U	-	-	5.0 U	2.4 JB
Copper	µg/L	2.4	2.3 J	9.2 J	2.0 U	4.7 B	4.4 B	15.0	5.6 B
Lead	µg/L	8.1	R	R	5.0 U	5 U	14.3	5.6	9.8
Mercury	µg/L	0.2*/0.025	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.033 JB	0.20 U
Nickel	µg/L	8.2	7.9 B	6.4 B	8.3 B	6.1 J	5 U	8.0 B	6.6 B
Silver	µg/L	55	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U	1.0 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	125 JB	107 JB	164	50 U	50 U	125	104 JB

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	B-24	B-25	B-26	B-27	B-28	B-29	B-30
Sample ID:	SE-011398-MPT-246	PSE-011398-MPT-250	PSE-011398-MPT-248	SE-011398-MPT-254	SE-011398-MPT-252	SE-011498-MPT-258	SE-011498-MPT-256
Sample Date:	1/13/1998	1/13/1998	1/13/1998	1/13/1998	1/13/1998	1/14/1998	1/14/1998
Sample Depth:	0 to 1 ft bml	0 to 1 ft bml	0 to 1 ft bml	0 to 0.67 ft bml	0 to 0.6 ft bml	0 to 1 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	1.6 to 0.6	2 to 1	1.5 to 0.5	1.3 to 0.63	1.7 to 1.1	2.5 to 1.5	2.6 to 1.6
Sample Elevation (ft. NGVD):	-4.7 to -5.7	-4.3 to -5.3	-4.8 to -5.8	-5 to -5.7	-4.6 to -5.2	-3.8 to -4.8	-3.7 to -4.7

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5 U	-	5 U	5 U	5 U	5 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	12	-	1 JB	2 JB	5 U	1 J
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-
Trichloroethene	µg/L	81	7 B	-	4 JB	5 JB	5 U	5 U
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-
Semivolatile Organic Compounds								
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	-	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	10 U	-	10 U	10 U	10 U	10 U
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	-	10 U	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	0.013	1 J	-	10 U	10 U	10 U	10 U
Pentachlorophenol	µg/L	7.9	5 U	-	5 U	5 U	5 U	5 U
Polychlorinated Biphenyls (PCBs)								
Total PCBs	µg/L	0.2*/0.00017	0.13 U	-	0.13 U	0.13 U	0.13 U	0.13 U
Pesticides								
4,4'-DDD	µg/L	0.01*/0.00031	0.050 U	-	0.050 U	0.0031 J	0.050 U	0.050 U
4,4'-DDE	µg/L	0.01*/0.00022	0.0134 J	-	0.050 U	0.00585 J	0.050 U	0.050 U
4,4'-DDT	µg/L	0.01*/0.00022	0.050 U	-	0.050 U	0.050 U	0.050 U	0.050 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	B-24	B-25	B-26	B-27	B-28	B-29	B-30
Sample ID:	SE-011398-MPT-246	PSE-011398-MPT-250	PSE-011398-MPT-248	SE-011398-MPT-254	SE-011398-MPT-252	SE-011498-MPT-258	SE-011498-MPT-256
Sample Date:	1/13/1998	1/13/1998	1/13/1998	1/13/1998	1/13/1998	1/14/1998	1/14/1998
Sample Depth:	0 to 1 ft bml	0 to 1 ft bml	0 to 1 ft bml	0 to 0.67 ft bml	0 to 0.6 ft bml	0 to 1 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	1.6 to 0.6	2 to 1	1.5 to 0.5	1.3 to 0.63	1.7 to 1.1	2.5 to 1.5	2.6 to 1.6
Sample Elevation (ft. NGVD):	-4.7 to -5.7	-4.3 to -5.3	-4.8 to -5.8	-5 to -5.7	-4.6 to -5.2	-3.8 to -4.8	-3.7 to -4.7

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾							
		B-24	B-25	B-26	B-27	B-28	B-29	B-30	
Metals									
Antimony	µg/L	3333	14.5	-	-	5.0 U	12.0	5.0 U	9.6
Arsenic	µg/L	0.14	8.1	-	-	19.0	24.3	13.9	11.0
Cadmium	µg/L	1.2	5.0 U	-	-	5.0 U	5.0 U	5.0 U	5.0 U
Chromium Total	µg/L	50	1.6 J	-	-	2.2 J	1.6 J	1.5 J	5.0 U
Copper	µg/L	2.4	14.8	-	13.5	25.9	12.5	25.1	18.4
Lead	µg/L	8.1	33.4	25.5	-	5.0 U	6.4	12.3	40.6
Mercury	µg/L	0.2*/0.025	0.024 JB	-	-	0.20 U	0.20 U	0.027 JB	0.20 U
Nickel	µg/L	8.2	7.6 B	-	-	8.1 B	7.7 B	9.8 B	10.0 B
Silver	µg/L	55	1.0 U	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	164	-	-	160	171	210	76 B

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	C-1	C-2	C-3	C-4		C-5	C-6	C-6 (cont)
Sample ID:	S-010898-MPT-301	S-010898-MPT-312	G-010898-MPT-302	R-010898-MPT-303	Y-010898-MPT-304	G-010898-MPT-305	S-010898-MPT-306	S-010898-MPT-307
Sample Date:	1/8/1998	1/8/1998	1/8/1998	1/8/1998	1/8/1998	1/8/1998	1/8/1998	1/8/1998
Sample Depth:	0 to 0.5 ft bml	0 to 0.5 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 to 0.5 ft bml	0 to 0.5 ft bml
Sample Elevation (ft. MLLW):	8.7 to 8.2	12.9 to 12.4	14.6	10.6	10.6	15.6	11.5 to 11	11.5 to 11
Sample Elevation (ft. NGVD):	2.4 to 1.9	6.6 to 6.1	8.3	4.3	4.3	9.3	5.2 to 4.7	5.2 to 4.7

(Duplicate)

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	3.2 J	2.8	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	9.7 B	51	11	5.4 B	3.4 JB	4.4 JB	2.9 B	5.0 U
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-	-
Semivolatile Organic Compounds										
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	0.013	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	µg/L	7.9	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
Polychlorinated Biphenyls (PCBs)										
Total PCBs	µg/L	0.2*/0.00017	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Pesticides										
4,4'-DDD	µg/L	0.01*/0.00031	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDE	µg/L	0.01*/0.00022	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDT	µg/L	0.01*/0.00022	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	C-1	C-2	C-3	C-4		C-5	C-6	C-6 (cont)
Sample ID:	S-010898-MPT-301	S-010898-MPT-312	G-010898-MPT-302	R-010898-MPT-303	Y-010898-MPT-304	G-010898-MPT-305	S-010898-MPT-306	S-010898-MPT-307
Sample Date:	1/8/1998	1/8/1998	1/8/1998	1/8/1998	1/8/1998	1/8/1998	1/8/1998	1/8/1998
Sample Depth:	0 to 0.5 ft bml	0 to 0.5 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml	0 to 0.5 ft bml	0 to 0.5 ft bml
Sample Elevation (ft. MLLW):	8.7 to 8.2	12.9 to 12.4	14.6	10.6	10.6	15.6	11.5 to 11	11.5 to 11
Sample Elevation (ft. NGVD):	2.4 to 1.9	6.6 to 6.1	8.3	4.3	4.3	9.3	5.2 to 4.7	5.2 to 4.7 (Duplicate)

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾										
			C-1	C-2	C-3	C-4	C-4	C-5	C-6	C-6 (cont)		
Metals												
Antimony	µg/L	3333	5 U	5.6	5 U	5 U	5 U	5 U	7.7	20.3 J	11.6 J	
Arsenic	µg/L	0.14	5 U	5 U	5 U	6.2	6.2	5 U	5 U	11.0	8.5	
Cadmium	µg/L	1.2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Chromium Total	µg/L	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Copper	µg/L	2.4	20.7	34.0	12.6 B	11.2 B	16.5	19.0	19.0	7.7 BJ	32.2 J	
Lead	µg/L	8.1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Mercury	µg/L	0.2*/0.025	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
Nickel	µg/L	8.2	35.2	34.9	5 U	5 U	5.1	5 U	5 U	28.5 J	15.4 J	
Silver	µg/L	55	13.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	81	65.2	83.1	50 U	50 U	50 U	50 U	50 U	50 U	50 U	

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	C-7	C-8	C-9	C-10		C-11		C-12
Sample ID:	SE-010898-MPT-308	S-010698-MPT-300	SE-010898-MPT-310	SE-010998-MPT-314	SE-010998-MPT-315	S-010998-MPT-312	S-010998-MPT-313	SE-010998-MPT-316
Sample Date:	1/8/1998	1/6/1998	1/8/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998
Sample Depth:	0 to 1 ft bml	0 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 1.5 ft bml	0 to 0.67 ft bml	0 to 0.67 ft bml	0 to 0.5 ft bml
Sample Elevation (ft. MLLW):	2.3 to 1.3	20.1	2.7 to 1.7	1.9 to 0.9	0.9 to 0.4	12.2 to 11.53	12.2 to 11.53	2 to 1.5
Sample Elevation (ft. NGVD):	-4 to -5	13.8	-3.6 to -4.6	-4.4 to -5.4	-5.4 to -5.9	5.9 to 5.2	5.9 to 5.2	-4.3 to -4.8
							(Duplicate)	

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	5.0 U	12 B	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	7.1 B	130	5.7 B	2.7 B	-	7.8 B	7.4 B	5.0 U
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-	-
Semivolatile Organic Compounds										
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	10 U	10 U	10 U	-	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	10 U	10 U	10 U	10 U	-	10 U	10 U	10 U
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	10 U	10 U	10 U	-	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	0.013	10 U	10 U	10 U	10 U	-	10 U	10 U	10 U
Pentachlorophenol	µg/L	7.9	4.8 U	4.8 U	4.8 U	4.8 U	-	4.8 U	4.8 U	4.8 U
Polychlorinated Biphenyls (PCBs)										
Total PCBs	µg/L	0.2*/0.00017	0.13 U	0.13 U	1.3 U	0.65 U	-	0.13 U	0.13 U	0.65 U
Pesticides										
4,4'-DDD	µg/L	0.01*/0.00031	0.05 U	0.05 U	0.05 U	0.05 U	-	0.05 U	0.05 U	0.05 U
4,4'-DDE	µg/L	0.01*/0.00022	0.05 U	0.05 U	0.05 U	0.05 U	-	0.05 U	0.05 U	0.05 U
4,4'-DDT	µg/L	0.01*/0.00022	0.05 U	0.05 U	0.05 U	0.05 U	-	0.05 U	0.05 U	0.05 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	C-7	C-8	C-9	C-10		C-11		C-12
Sample ID:	SE-010898-MPT-308	S-010698-MPT-300	SE-010898-MPT-310	SE-010998-MPT-314	SE-010998-MPT-315	S-010998-MPT-312	S-010998-MPT-313	SE-010998-MPT-316
Sample Date:	1/8/1998	1/6/1998	1/8/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998
Sample Depth:	0 to 1 ft bml	0 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 1.5 ft bml	0 to 0.67 ft bml	0 to 0.67 ft bml	0 to 0.5 ft bml
Sample Elevation (ft. MLLW):	2.3 to 1.3	20.1	2.7 to 1.7	1.9 to 0.9	0.9 to 0.4	12.2 to 11.53	12.2 to 11.53	2 to 1.5
Sample Elevation (ft. NGVD):	-4 to -5	13.8	-3.6 to -4.6	-4.4 to -5.4	-5.4 to -5.9	5.9 to 5.2	5.9 to 5.2	-4.3 to -4.8
							(Duplicate)	

Chemical Parameters ⁽¹⁾

Groundwater
 Units Cleanup Level ⁽²⁾

Metals

Chemical Parameters	Units	Cleanup Level	C-7	C-8	C-9	C-10	C-11	C-12		
Antimony	µg/L	3333	7.9	8.9	36.2	24.2	-	5 U	5 U	6.4
Arsenic	µg/L	0.14	20.5	6.3	28.9	52.5	51.1	5 U	5 U	19.7
Cadmium	µg/L	1.2	5 U	5 U	5 U	5 U	-	5 U	5 U	5 U
Chromium Total	µg/L	50	5 U	5 U	5 U	5 U	-	5 U	5 U	5 U
Copper	µg/L	2.4	6.6 B	17.5	5.6 B	5.2 B	2.8	3.2 B	2.5 B	27.2 B
Lead	µg/L	8.1	6.0	9.2	5 U	5 U	-	5 U	5 U	42.6
Mercury	µg/L	0.2*/0.025	0.2 U	0.2 U	0.2 U	0.2 U	-	0.2 U	0.2 U	0.2 U
Nickel	µg/L	8.2	6.2 J	21.5	8.0 J	6.7 J	-	56.6 J	34.1 J	5.6 J
Silver	µg/L	55	1 U	1 U	1 U	1 U	-	1 U	1 U	1 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	50 U	50 U	50 U	50 U	-	50 U	50 U	50 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	C-13	C-14	C-15			C-16	C-17	C-18
Sample ID:	SE-010998-MPT-318	SE-011098-MPT-320	SE-011098-MPT-322	SE-011098-MPT-324	SE-011098-MPT-323	SE-011098-MPT-326	SE-011098-MPT-328	SE-011098-MPT-330
Sample Date:	1/9/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998
Sample Depth:	0 to 1 ft bml	0 to 0.9 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 1.5 ft bml	0 to 0.6 ft bml	0 to 0.4 ft bml	0 to 0.6 ft bml
Sample Elevation (ft. MLLW):	1.5 to 0.5	1.6 to 0.7	2.9 to 1.9	2.9 to 1.9	1.9 to 1.4	1 to 0.4	0.8 to 0.4	1.5 to 0.9
Sample Elevation (ft. NGVD):	-4.8 to -5.8	-4.7 to -5.6	-3.4 to -4.4	-3.4 to -4.4	-4.4 to -4.9	-5.3 to -5.9	-5.5 to -5.9	-4.8 to -5.4

(Duplicate)

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾	C-13	C-14	C-15	C-15	C-16	C-17	C-18
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5.0 U	5 U	5 U	5 U	-	5 U	5 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	3.1 B	5 B	6 B	5 B	23 B	18 B	8 B
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	5.0 U	19 B	17 B	14 B	31 B	19 B	16 B
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	10 U	10 U	10 U	-	10 U	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	10 U	10 U	10 U	10 U	-	10 U	10 U
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	10 U	10 U	10 U	-	10 U	10 U
Hexachlorobutadiene	µg/L	0.013	10 U	10 U	10 U	10 U	1 J	10 U	10 U
Pentachlorophenol	µg/L	7.9	4.8 U	7	5 U	5 U	-	5 U	5 U
Polychlorinated Biphenyls (PCBs)									
Total PCBs	µg/L	0.2*/0.00017	0.65 U	0.69	0.023	0.13 U	-	0.0344	0.13 U
Pesticides									
4,4'-DDD	µg/L	0.01*/0.00031	0.05 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U
4,4'-DDE	µg/L	0.01*/0.00022	0.05 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U
4,4'-DDT	µg/L	0.01*/0.00022	0.05 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	C-13	C-14	C-15			C-16	C-17	C-18
Sample ID:	SE-010998-MPT-318	SE-011098-MPT-320	SE-011098-MPT-322	SE-011098-MPT-324	SE-011098-MPT-323	SE-011098-MPT-326	SE-011098-MPT-328	SE-011098-MPT-330
Sample Date:	1/9/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998
Sample Depth:	0 to 1 ft bml	0 to 0.9 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 1.5 ft bml	0 to 0.6 ft bml	0 to 0.4 ft bml	0 to 0.6 ft bml
Sample Elevation (ft. MLLW):	1.5 to 0.5	1.6 to 0.7	2.9 to 1.9	2.9 to 1.9	1.9 to 1.4	1 to 0.4	0.8 to 0.4	1.5 to 0.9
Sample Elevation (ft. NGVD):	-4.8 to -5.8	-4.7 to -5.6	-3.4 to -4.4	-3.4 to -4.4	-4.4 to -4.9	-5.3 to -5.9	-5.5 to -5.9	-4.8 to -5.4

(Duplicate)

Chemical Parameters ⁽¹⁾

Groundwater
 Units Cleanup Level ⁽²⁾

Metals

Chemical	Units	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	
Antimony	µg/L	3333	13.1	22.7	52.5 J	35.0 J	-	27.8	23.3	5.0 U
Arsenic	µg/L	0.14	23.0	5.0 U	23.4	23.9	-	5.0 U	13.6 J	16.2 J
Cadmium	µg/L	1.2	5 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U
Chromium Total	µg/L	50	7.7	5.0 U	5.0 U	1.8 J	-	5.0 U	5.0 U	2.4 J
Copper	µg/L	2.4	13.9 B	4.9	5.6	8.2	15.6	17.2 J	6.8 JB	9.1 JB
Lead	µg/L	8.1	23.7	7.3	5.0 U	5.0 U	-	5.0 U	5.0 U	6.7
Mercury	µg/L	0.2*/0.025	0.2 U	0.061 JB	0.046 JB	0.049 JB	-	0.20 U	0.20 U	0.026 JB
Nickel	µg/L	8.2	5 U	49.8	37.4	31.4	22.6 B	37.4	8.2 B	4.8 JB
Silver	µg/L	55	1 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	50 U	130 B	57 B	81 B	-	351	332	639

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:		C-19		C-22		C-23		C-24		C-27		D-1	
Sample ID:	PSE-011298-MPT-332	S-TRENCH-022598-MPT-027	SE-011298-MPT-334	SE-011298-MPT-336	SE-011298-MPT-338	S-011498-MPT-339	G-010798-MPT-400						
Sample Date:	1/12/1998	2/25/1998	1/12/1998	1/12/1998	1/12/1998	1/14/1998	1/7/1998						
Sample Depth:	0 to 1 ft bml	10 ft bml	0 to 1 ft bml	0 to 1 ft bml	0 to 0.75 ft bml	0 ft bml	0 ft bml						
Sample Elevation (ft. MLLW):	10 to 9	0	-2.5 to -3.5	-2.6 to -3.6	1.4 to 0.65	12.4	16.5						
Sample Elevation (ft. NGVD):	3.7 to 2.7	-6.3	-8.8 to -9.8	-8.9 to -9.9	-4.9 to -5.7	6.1	10.2						
Chemical Parameters ⁽¹⁾	Units	Groundwater											
		Cleanup Level ⁽²⁾											
Volatile Organic Compounds													
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	-	-	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.0 U	
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	-	-	61	7 B	4 JB	3 J	5.0 U				
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-	-	-	-	
Trichloroethene	µg/L	81	-	-	23 B	17 B	14 B	17	2.7 B				
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-	-	-	-	
Semivolatile Organic Compounds													
1,2,4-Trichlorobenzene	µg/L	1.92	-	-	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	
bis(2-Ethylhexyl)phthalate	µg/L	0.73	-	-	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	
Hexachlorobenzene	µg/L	0.01*/0.00077	-	-	1 J	11 U	10 U	10 U	10 U	10 U	10 U	10 U	
Hexachlorobutadiene	µg/L	0.013	-	-	17	1 J	10 U	10 U	10 U	10 U	10 U	10 U	
Pentachlorophenol	µg/L	7.9	-	-	23	5 U	5 U	5 U	5 U	5 U	5 U	4.8 U	
Polychlorinated Biphenyls (PCBs)													
Total PCBs	µg/L	0.2*/0.00017	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	
Pesticides													
4,4'-DDD	µg/L	0.01*/0.00031	-	-	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.05 U	
4,4'-DDE	µg/L	0.01*/0.00022	-	-	0.00948 J	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.05 U	
4,4'-DDT	µg/L	0.01*/0.00022	-	-	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.05 U	

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	C-19		C-22	C-23	C-24	C-27	D-1
Sample ID:	PSE-011298-MPT-332	S-TRENCH-022598-MPT-027	SE-011298-MPT-334	SE-011298-MPT-336	SE-011298-MPT-338	S-011498-MPT-339	G-010798-MPT-400
Sample Date:	1/12/1998	2/25/1998	1/12/1998	1/12/1998	1/12/1998	1/14/1998	1/7/1998
Sample Depth:	0 to 1 ft bml	10 ft bml	0 to 1 ft bml	0 to 1 ft bml	0 to 0.75 ft bml	0 ft bml	0 ft bml
Sample Elevation (ft. MLLW):	10 to 9	0	-2.5 to -3.5	-2.6 to -3.6	1.4 to 0.65	12.4	16.5
Sample Elevation (ft.NGVD):	3.7 to 2.7	-6.3	-8.8 to -9.8	-8.9 to -9.9	-4.9 to -5.7	6.1	10.2

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾							
			C-19	C-22	C-23	C-24	C-27	D-1	
Metals									
Antimony	µg/L	3333	-	13.0	5.0 U	4.5 J	5.0 U	8.8 J	5 U
Arsenic	µg/L	0.14	-	22.0	15.4 J	28.8 J	24.9 J	5.0 U	11.5
Cadmium	µg/L	1.2	-	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U
Chromium Total	µg/L	50	-	-	1.9 J	16.4	1.9 J	1.8 JB	5 U
Copper	µg/L	2.4	69.4 J	24.9	26.5 J	17.3 J	24.4 J	10.2	5.4 B
Lead	µg/L	8.1	-	5 U	5.0 U	4.2 J	4.5 J	22.9	5 U
Mercury	µg/L	0.2*/0.025	-	0.2 U	0.023 JB	0.20 U	0.20 U	0.033 J	0.2 U
Nickel	µg/L	8.2	15.7 B	17.8 J	8.6 B	9.3 B	7.4 B	43.6	38.2
Silver	µg/L	55	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	128 JB	50 U	50 U	18.9 J	50 U	281 JB	50 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	D-2			D-3	D-4		D-5	D-6
Sample ID:	SE-010798-MPT-402	SE-010798-MPT-401	SE-010798-MPT-403	G-010798-MPT-404	SE-010798-MPT-406	SE-010798-MPT-407	SE-010798-MPT-408	SE-010798-MPT-410
Sample Date:	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998
Sample Depth:	0 to 1 ft bml	0 to 1 ft bml	1 to 1.8 ft bml	0 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	11.3 to 10.3	11.3 to 10.3	10.3 to 9.5	17	11.6 to 10.6	10.6 to 9.6	9.7 to 8.7	3.2 to 2.2
Sample Elevation (ft. NGVD):	5 to 4	5 to 4	4 to 3.2	10.7	5.3 to 4.3	4.3 to 3.3	3.4 to 2.4	-3.1 to -4.1

(Duplicate)

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾							
		D-2	D-2	D-2	D-3	D-4	D-4	D-5	D-6
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5.0 U	5.0 U	-	5.0 U	5.0 U	-	5.0 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	3.0 JB	2.6 JB	-	5.0 U	5.0 U	-	6.3 B
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	5.0 B	5.2 B	-	2.6 B	4.4 JB	-	3.9 JB
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	10 U	-	10 U	10 U	-	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	10 U	10 U	-	10 U	10 U	-	10 U
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	10 U	-	10 U	10 U	-	10 U
Hexachlorobutadiene	µg/L	0.013	10 U	10 U	-	10 U	10 U	-	10 U
Pentachlorophenol	µg/L	7.9	4.8 U	4.8 U	-	4.8 U	4.8 U	-	4.8 U
Polychlorinated Biphenyls (PCBs)									
Total PCBs	µg/L	0.2*/0.00017	0.13 U	0.13 U	-	0.13 U	0.13 U	-	0.13 U
Pesticides									
4,4'-DDD	µg/L	0.01*/0.00031	0.05 U	0.05 U	-	0.05 U	0.05 U	-	0.05 U
4,4'-DDE	µg/L	0.01*/0.00022	0.05 U	0.05 U	-	0.05 U	0.05 U	-	0.05 U
4,4'-DDT	µg/L	0.01*/0.00022	0.05 U	0.05 U	-	0.05 U	0.05 U	-	0.05 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	D-2			D-3	D-4		D-5	D-6
Sample ID:	SE-010798-MPT-402	SE-010798-MPT-401	SE-010798-MPT-403	G-010798-MPT-404	SE-010798-MPT-406	SE-010798-MPT-407	SE-010798-MPT-408	SE-010798-MPT-410
Sample Date:	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998
Sample Depth:	0 to 1 ft bml	0 to 1 ft bml	1 to 1.8 ft bml	0 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	11.3 to 10.3	11.3 to 10.3	10.3 to 9.5	17	11.6 to 10.6	10.6 to 9.6	9.7 to 8.7	3.2 to 2.2
Sample Elevation (ft.NGVD):	5 to 4	5 to 4	4 to 3.2	10.7	5.3 to 4.3	4.3 to 3.3	3.4 to 2.4	-3.1 to -4.1

(Duplicate)

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾									
			D-2			D-3	D-4		D-5	D-6	
Metals											
Antimony	µg/L	3333	14.7	14.2	-	6.2	11.9	-	66.7	5.3	
Arsenic	µg/L	0.14	14.0	15.0	-	8.8	8.0	-	22.2	7.0	
Cadmium	µg/L	1.2	5 U	5 U	-	5 U	5 U	-	5 U	5 U	
Chromium Total	µg/L	50	5 U	5 U	-	5 U	5 U	-	5 U	5 U	
Copper	µg/L	2.4	9.2	10.1	16.5 JB	7.1 B	12.4	24.2 J	6.5	9.8	
Lead	µg/L	8.1	305	258	131	5 U	385	102	87.9	249	
Mercury	µg/L	0.2*/0.025	0.2 U	0.2 U	-	0.2 U	0.2 U	-	0.2 U	0.2 U	
Nickel	µg/L	8.2	5.0	5.1	-	8.6	6.9	-	5 U	5 U	
Silver	µg/L	55	1 U	1 U	-	1 U	1 U	-	1 U	1 U	
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-	
Zinc	µg/L	81	50 U	50 U	-	50 U	50 U	-	50 U	50 U	

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	D-6 (cont)	D-7		D-8	D-9		D-10	D-11
Sample ID:	SE-010798-MPT-411	SE-010798-MPT-412	SE-010798-MPT-413	SE-010798-MPT-414	SE-010798-MPT-416	SE-010798-MPT-417	A-010798-MPT-405	C-010898-MPT-418
Sample Date:	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/8/1998
Sample Depth:	1 to 2 ft bml	0 to 1 ft bml	1 to 1.7 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 ft bml	0 ft bml
Sample Elevation (ft. MLLW):	2.2 to 1.2	5 to 4	4 to 3.3	6.1 to 5.1	6.1 to 5.1	5.1 to 4.1	12.8	11.5
Sample Elevation (ft. NGVD):	-4.1 to -5.1	-1.3 to -2.3	-2.3 to -3	-0.2 to -1.2	-0.2 to -1.2	-1.2 to -2.2	6.5	5.2

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾								
		D-6 (cont)	D-7	D-8	D-9	D-10	D-11			
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	-	5.0 U	-	5.0 U	5.0 U	-	5.0 U	5.0 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	-	2.6 JB	-	5.0 U	5.0 U	-	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	-	5.8 B	-	3.4 JB	4.3 JB	-	5.0 U	3.6 JB
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-	-
Semivolatile Organic Compounds										
1,2,4-Trichlorobenzene	µg/L	1.92	-	10 U	-	10 U	10 U	-	10 U	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	-	10 U	-	10 U	10 U	-	10 U	10 U
Hexachlorobenzene	µg/L	0.01*/0.00077	-	10 U	-	10 U	10 U	-	10 U	10 U
Hexachlorobutadiene	µg/L	0.013	-	10 U	-	10 U	10 U	-	10 U	10 U
Pentachlorophenol	µg/L	7.9	-	4.8 U	-	4.8 U	4.8 U	-	4.8 U	4.8 U
Polychlorinated Biphenyls (PCBs)										
Total PCBs	µg/L	0.2*/0.00017	-	0.13 U	-	0.13 U	0.13 U	-	0.13 U	0.13 U
Pesticides										
4,4'-DDD	µg/L	0.01*/0.00031	-	0.05 U	-	0.05 U	0.05 U	-	0.05 U	0.05 U
4,4'-DDE	µg/L	0.01*/0.00022	-	0.05 U	-	0.05 U	0.05 U	-	0.05 U	0.02 J
4,4'-DDT	µg/L	0.01*/0.00022	-	0.05 U	-	0.05 U	0.05 U	-	0.05 U	0.05 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	D-6 (cont)	D-7		D-8	D-9		D-10	D-11
Sample ID:	SE-010798-MPT-411	SE-010798-MPT-412	SE-010798-MPT-413	SE-010798-MPT-414	SE-010798-MPT-416	SE-010798-MPT-417	A-010798-MPT-405	C-010898-MPT-418
Sample Date:	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/7/1998	1/8/1998
Sample Depth:	1 to 2 ft bml	0 to 1 ft bml	1 to 1.7 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 ft bml	0 ft bml
Sample Elevation (ft. MLLW):	2.2 to 1.2	5 to 4	4 to 3.3	6.1 to 5.1	6.1 to 5.1	5.1 to 4.1	12.8	11.5
Sample Elevation (ft. NGVD):	-4.1 to -5.1	-1.3 to -2.3	-2.3 to -3	-0.2 to -1.2	-0.2 to -1.2	-1.2 to -2.2	6.5	5.2

Chemical Parameters ⁽¹⁾

Units Groundwater
Cleanup Level ⁽²⁾

Metals

Antimony	µg/L	3333	-	37.2	-	5 U	5 U	-	14.1	28.2
Arsenic	µg/L	0.14	-	30.6	-	18.5	18.2	-	5 U	6.2
Cadmium	µg/L	1.2	-	5 U	-	5 U	5 U	-	5 U	5 U
Chromium Total	µg/L	50	-	5 U	-	5 U	5 U	-	5 U	34.1
Copper	µg/L	2.4	17.2 JB	17.6	15.1 JB	12.2	5.8	5.1 JB	6.9 B	36.0
Lead	µg/L	8.1	119	46.1	35.4	45.4	5 U	-	1150	5 U
Mercury	µg/L	0.2*/0.025	-	0.2 U	-	0.2 U	0.2 U	-	0.2 U	0.2 U
Nickel	µg/L	8.2	-	13.3	5.7	5 U	5 U	-	5.4	5 U
Silver	µg/L	55	-	1 U	-	1 U	1 U	-	1 U	1 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	-	50 U	-	50 U	50 U	-	50 U	50 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	D-12		E-1	E-2	E-3		E-4	E-4 (cont)
Sample ID:	SE-010898-MPT-420	SE-010898-MPT-421	G-010998-MPT-500	G-010998-MPT-501	SE-010998-MPT-502	SE-010998-MPT-503	SE-010998-MPT-504	SE-010998-MPT-505
Sample Date:	1/8/1998	1/8/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998
Sample Depth:	0 to 1 ft bml	1 to 1.5 ft bml		0 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml
Sample Elevation (ft. MLLW):	1.4 to 0.4	0.4 to -0.1		15.7	12.3 to 11.3	11.3 to 10.3	9.4 to 8.4	8.4 to 7.4
Sample Elevation (ft. NGVD):	-4.9 to -5.9	-5.9 to -6.4		9.4	6 to 5	5 to 4	3.1 to 2.1	2.1 to 1.1

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾								
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5.0 U	-	5.0 U	5.0 U	5.0 U	-	5.0 U	-
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	2.6 J	-	5.0 U	5.0 U	4.1 J	-	7.1	-
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	6.5 B	-	4.0 JB	6.7 B	14 B	-	6.3 B	-
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-	-
Semivolatile Organic Compounds										
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	-	10 U	10 U	10 U	-	10 U	-
bis(2-Ethylhexyl)phthalate	µg/L	0.73	10 U	-	10 U	10 U	10 U	-	10 U	-
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	-	10 U	10 U	10 U	-	10 U	-
Hexachlorobutadiene	µg/L	0.013	10 U	-	10 U	10 U	10 U	-	10 U	-
Pentachlorophenol	µg/L	7.9	4.8 U	-	4.8 U	4.8 U	4.8 U	-	4.8 U	-
Polychlorinated Biphenyls (PCBs)										
Total PCBs	µg/L	0.2*/0.00017	0.13 U	-	1.3 U	0.13 U	1.3 U	-	0.13 U	-
Pesticides										
4,4'-DDD	µg/L	0.01*/0.00031	0.05 U	-	0.05 U	0.05 U	0.05 U	-	0.05 U	-
4,4'-DDE	µg/L	0.01*/0.00022	0.05 U	-	0.05 U	0.05 U	0.05 U	-	0.05 U	-
4,4'-DDT	µg/L	0.01*/0.00022	0.05 U	-	0.05 U	0.05 U	0.05 U	-	0.05 U	-

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	D-12		E-1	E-2	E-3		E-4	E-4 (cont)
Sample ID:	SE-010898-MPT-420	SE-010898-MPT-421	G-010998-MPT-500	G-010998-MPT-501	SE-010998-MPT-502	SE-010998-MPT-503	SE-010998-MPT-504	SE-010998-MPT-505
Sample Date:	1/8/1998	1/8/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998
Sample Depth:	0 to 1 ft bml	1 to 1.5 ft bml		0 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml
Sample Elevation (ft. MLLW):	1.4 to 0.4	0.4 to -0.1		15.7	12.3 to 11.3	11.3 to 10.3	9.4 to 8.4	8.4 to 7.4
Sample Elevation (ft. NGVD):	-4.9 to -5.9	-5.9 to -6.4		9.4	6 to 5	5 to 4	3.1 to 2.1	2.1 to 1.1

Chemical Parameters ⁽¹⁾

Units Groundwater Cleanup Level ⁽²⁾

Metals

Chemical	Units	Groundwater Cleanup Level ⁽²⁾	D-12	E-1	E-2	E-3	E-4	E-4 (cont)		
Antimony	µg/L	3333	8.6	-	5 U	5 U	5 U	-	511	10.7
Arsenic	µg/L	0.14	7.3	-	5 U	5.0	5 U	-	5 U	-
Cadmium	µg/L	1.2	5 U	-	5 U	5 U	5 U	-	5 U	-
Chromium Total	µg/L	50	5 U	-	7.1	5 U	5 U	-	5 U	-
Copper	µg/L	2.4	10.0 B	5.1	7.0 B	9.2 B	6.9 B	4.8	14.4 B	4.1
Lead	µg/L	8.1	64.5	15.5	5.8	5 U	5 U	-	174	5 U
Mercury	µg/L	0.2*/0.025	0.2 U	-	0.2 U	0.2 U	0.2 U	-	0.2 U	-
Nickel	µg/L	8.2	6.8 J	-	5 U	5 U	5 U	-	33.5 J	13.2 J
Silver	µg/L	55	1 U	-	1 U	1 U	1 U	-	1 U	-
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	50 U	-	64.6	50 U	50 U	-	52.9	-

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	E-5		E-6	E-8		E-9		E-
Sample ID:	SE-010998-MPT-506	SE-010998-MPT-507	G-010998-MPT-508	SE-010998-MPT-512	SE-010998-MPT-513	SE-010998-MPT-510	SE-010998-MPT-511	SE-010998-MPT-514
Sample Date:	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998
Sample Depth:	0 to 1 ft bml	1 to 2 ft bml	0 ft bml	0 to 1 ft bml	1 to 1.5 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	6.7 to 5.7	5.7 to 4.7	12.8	2 to 1	1 to 0.5	1 to 0	0 to -1	2.1 to 1.1
Sample Elevation (ft. NGVD):	0.4 to -0.6	-0.6 to -1.6	6.5	-4.3 to -5.3	-5.3 to -5.8	-5.3 to -6.3	-6.3 to -7.3	-4.2 to -5.2

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5.0 U	-	5.0 U	-	-	5.0 U	-
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	3.6 J	-	5.0 U	-	-	12	-
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	32	-	4.1 B	-	-	5.5 B	-
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	-	10 U	-	-	10 U	-
bis(2-Ethylhexyl)phthalate	µg/L	0.73	10 U	-	10 U	-	-	10 U	-
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	-	10 U	-	-	10 U	-
Hexachlorobutadiene	µg/L	0.013	10 U	-	10 U	-	-	10 U	-
Pentachlorophenol	µg/L	7.9	4.8 U	-	4.8 U	-	-	4.8 U	-
Polychlorinated Biphenyls (PCBs)									
Total PCBs	µg/L	0.2*/0.00017	0.13 U	-	0.13 U	-	-	0.13 U	-
Pesticides									
4,4'-DDD	µg/L	0.01*/0.00031	0.05 U	-	0.05 U	-	-	0.05 U	-
4,4'-DDE	µg/L	0.01*/0.00022	0.05 U	-	0.05 U	-	-	0.05 U	-
4,4'-DDT	µg/L	0.01*/0.00022	0.05 U	-	0.05 U	-	-	0.05 U	-

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	E-5		E-6	E-8		E-9		E-
Sample ID:	SE-010998-MPT-506	SE-010998-MPT-507	G-010998-MPT-508	SE-010998-MPT-512	SE-010998-MPT-513	SE-010998-MPT-510	SE-010998-MPT-511	SE-010998-MPT-514
Sample Date:	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998
Sample Depth:	0 to 1 ft bml	1 to 2 ft bml	0 ft bml	0 to 1 ft bml	1 to 1.5 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	6.7 to 5.7	5.7 to 4.7	12.8	2 to 1	1 to 0.5	1 to 0	0 to -1	2.1 to 1.1
Sample Elevation (ft.NGVD):	0.4 to -0.6	-0.6 to -1.6	6.5	-4.3 to -5.3	-5.3 to -5.8	-5.3 to -6.3	-6.3 to -7.3	-4.2 to -5.2

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾									
			E-5		E-6	E-8		E-9		E-	
Metals											
Antimony	µg/L	3333	5 U	-	5 U	-	-	12.0	-	5 U	
Arsenic	µg/L	0.14	5 U	-	5 U	-	-	6.3	-	17.4	
Cadmium	µg/L	1.2	5 U	-	5 U	-	-	5 U	-	5 U	
Chromium Total	µg/L	50	5 U	-	5 U	-	-	5 U	-	5 U	
Copper	µg/L	2.4	3.3 B	6.2	8.4 B	2.6 B	2 U	20.6 B	2 U	9.0 B	
Lead	µg/L	8.1	5 U	-	5 U	-	-	5 U	-	5 U	
Mercury	µg/L	0.2*/0.025	0.2 U	-	0.2 U	-	-	0.2 U	-	0.2 U	
Nickel	µg/L	8.2	33.7 J	52.2 J	5.1	-	11.1 J	16.2 J	15.2 J	7.1 J	
Silver	µg/L	55	1 U	-	1 U	-	-	1 U	-	1 U	
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-	
Zinc	µg/L	81	110	50 U	50 U	-	-	50 U	-	50 U	

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	<u>I0</u>	<u>E-11</u>		<u>E-12</u>		<u>E-13</u>		<u>E-</u>
Sample ID:	SE-010998-MPT-515	SE-010998-MPT-516	SE-010998-MPT-517	SE-010998-MPT-518	SE-010998-MPT-519	SE-011098-MPT-520	SE-011098-MPT-521	SE-011098-MPT-522
Sample Date:	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/10/1998	1/10/1998	1/10/1998
Sample Depth:	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	1.1 to 0.1	2.6 to 1.6	1.6 to 0.6	2.2 to 1.2	1.2 to 0.2	0.6 to -0.4	-0.4 to -1.4	0.9 to -0.1
Sample Elevation (ft. NGVD):	-5.2 to -6.2	-3.7 to -4.7	-4.7 to -5.7	-4.1 to -5.1	-5.1 to -6.1	-5.7 to -6.7	-6.7 to -7.7	-5.4 to -6.4

Chemical Parameters ⁽¹⁾	Units	Groundwater							
		Cleanup Level ⁽²⁾							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	-	5.0 U	-	5.0 U	-	5 U	-
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	-	6.6 B	-	5.0 U	-	9 JB	-
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	-	8.4 B	-	3.9 B	-	18 JB	-
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	1.92	-	10 U	-	10 U	-	10 U	-
bis(2-Ethylhexyl)phthalate	µg/L	0.73	-	10 U	-	10 U	-	1 J	-
Hexachlorobenzene	µg/L	0.01*/0.00077	-	10 U	-	10 U	-	10 U	-
Hexachlorobutadiene	µg/L	0.013	-	10 U	-	10 U	-	10 U	-
Pentachlorophenol	µg/L	7.9	-	4.8 U	-	4.8 U	-	5 U	-
Polychlorinated Biphenyls (PCBs)									
Total PCBs	µg/L	0.2*/0.00017	-	0.13 U	-	0.13 U	-	0.13 U	-
Pesticides									
4,4'-DDD	µg/L	0.01*/0.00031	-	0.05 U	-	0.05 U	-	0.050 U	-
4,4'-DDE	µg/L	0.01*/0.00022	-	0.05 U	-	0.05 U	-	0.050 U	-
4,4'-DDT	µg/L	0.01*/0.00022	-	0.05 U	-	0.05 U	-	0.050 U	-

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	<u>I0</u>	<u>E-11</u>		<u>E-12</u>		<u>E-13</u>		<u>E-</u>
Sample ID:	SE-010998-MPT-515	SE-010998-MPT-516	SE-010998-MPT-517	SE-010998-MPT-518	SE-010998-MPT-519	SE-011098-MPT-520	SE-011098-MPT-521	SE-011098-MPT-522
Sample Date:	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/9/1998	1/10/1998	1/10/1998	1/10/1998
Sample Depth:	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	1.1 to 0.1	2.6 to 1.6	1.6 to 0.6	2.2 to 1.2	1.2 to 0.2	0.6 to -0.4	-0.4 to -1.4	0.9 to -0.1
Sample Elevation (ft. NGVD):	-5.2 to -6.2	-3.7 to -4.7	-4.7 to -5.7	-4.1 to -5.1	-5.1 to -6.1	-5.7 to -6.7	-6.7 to -7.7	-5.4 to -6.4

Chemical Parameters ⁽¹⁾

Units Groundwater
Cleanup Level ⁽²⁾

Metals

Chemical	Units	I0	E-11	E-11	E-12	E-12	E-13	E-13	E-	
Antimony	µg/L	3333	-	5 U	-	7.7	-	9.0	-	17.0
Arsenic	µg/L	0.14	-	5.3	-	19.3	-	11.9	-	12.2
Cadmium	µg/L	1.2	-	5 U	-	5 U	-	5.0 U	-	5.0 U
Chromium Total	µg/L	50	-	5 U	-	5 U	-	2.2 J	-	1.6 J
Copper	µg/L	2.4	5.9	4.3 B	2 U	7.6 B	22.8	2.0 U	-	2.0 U
Lead	µg/L	8.1	-	5 U	-	5 U	-	5.0 U	-	5.0 U
Mercury	µg/L	0.2*/0.025	-	0.2 U	-	0.2 U	-	0.100 JB	-	0.062 JB
Nickel	µg/L	8.2	-	7.1 J	-	5 U	-	9.4 B	9.8	9.2 B
Silver	µg/L	55	-	1 U	-	1 U	-	1.0 U	-	1.0 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	-	50 U	-	50 U	-	16.5 JB	-	440 B

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	14	E-15	E-16		E-17		E-18	E-18 (cont)
Sample ID:	SE-011098-MPT-523	SE-011098-MPT-524	SE-011098-MPT-526	SE-011098-MPT-527	SE-011098-MPT-528	SE-011098-MPT-529	G-011098-MPT-530	G-011098-MPT-531
Sample Date:	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998
Sample Depth:	1 to 2 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 ft bml	0 ft bml
Sample Elevation (ft. MLLW):	-0.1 to -1.1	2.1 to 1.1	0.9 to -0.1	-0.1 to -1.1	2 to 1	1 to 0	8	8
Sample Elevation (ft. NGVD):	-6.4 to -7.4	-4.2 to -5.2	-5.4 to -6.4	-6.4 to -7.4	-4.3 to -5.3	-5.3 to -6.3	1.7	1.7

(Duplicate)

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	-	5 U	5 U	-	5 U	-	5 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	-	8 B	5 B	-	160	-	2 JB
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	-	16 B	17 B	-	19 B	-	4 JB
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	1.92	-	9 U	10 U	-	10 U	-	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	-	9 U	1 J	-	1 J	-	10 U
Hexachlorobenzene	µg/L	0.01*/0.00077	-	9 U	10 U	-	10 U	-	10 U
Hexachlorobutadiene	µg/L	0.013	-	9 U	10 U	-	7 J	-	10 U
Pentachlorophenol	µg/L	7.9	-	5 U	5 U	-	5 U	-	5 U
Polychlorinated Biphenyls (PCBs)									
Total PCBs	µg/L	0.2*/0.00017	-	0.13 U	0.13 U	-	0.13 U	-	0.13 U
Pesticides									
4,4'-DDD	µg/L	0.01*/0.00031	-	0.050 U	0.0059 J	-	0.050 U	-	0.050 U
4,4'-DDE	µg/L	0.01*/0.00022	-	0.050 U	0.050 U	-	0.050 U	-	0.050 U
4,4'-DDT	µg/L	0.01*/0.00022	-	0.050 U	0.050 U	-	0.050 U	-	0.050 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	14	E-15	E-16		E-17		E-18	E-18 (cont)
Sample ID:	SE-011098-MPT-523	SE-011098-MPT-524	SE-011098-MPT-526	SE-011098-MPT-527	SE-011098-MPT-528	SE-011098-MPT-529	G-011098-MPT-530	G-011098-MPT-531
Sample Date:	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998
Sample Depth:	1 to 2 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 ft bml	0 ft bml
Sample Elevation (ft. MLLW):	-0.1 to -1.1	2.1 to 1.1	0.9 to -0.1	-0.1 to -1.1	2 to 1	1 to 0	8	8
Sample Elevation (ft. NGVD):	-6.4 to -7.4	-4.2 to -5.2	-5.4 to -6.4	-6.4 to -7.4	-4.3 to -5.3	-5.3 to -6.3	1.7	1.7

(Duplicate)

Chemical Parameters ⁽¹⁾

Groundwater
 Units Cleanup Level ⁽²⁾

Metals

Antimony	µg/L	3333	-	5.0 U	6.2	-	5.0 U	-	5.0 U	4.2 JB
Arsenic	µg/L	0.14	-	11.7	9.7	-	7.9	-	5.0 U	5.0 U
Cadmium	µg/L	1.2	-	5.0 U	5.0 U	-	5.0 U	-	5.0 U	5.0 U
Chromium Total	µg/L	50	-	1.9 J	5.0 U	-	2.8 J	-	6.3	5.1
Copper	µg/L	2.4	-	2.0 J	2.0 U	-	2.0 J	-	R	R
Lead	µg/L	8.1	-	5.0 U	5.0 U	-	5.0 U	-	3.9 J	R
Mercury	µg/L	0.2*/0.025	-	0.057 JB	0.075 JB	-	0.066 JB	-	0.20 U	0.20 U
Nickel	µg/L	8.2	10.9 B	10.0 B	12.3 B	26.3 B	5.9 B	-	6.7 B	6.0 B
Silver	µg/L	55	-	1.0 U	1.0 U	-	1.0 U	-	1.0 U	1.0 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	174 B	375 B	805	152 B	266 B	201 B	13.6 JB	89 JB

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	E-19		F-1		F-2		F-3	F-
Sample ID:	G-011198-MPT-532	SE-011398-MPT-534	SE-011098-MPT-600	SE-011098-MPT-601	SE-011098-MPT-602	SE-011098-MPT-603	SE-011098-MPT-604	SE-011098-MPT-606
Sample Date:	1/11/1998	1/13/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998
Sample Depth:	0 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 1.4 ft bml	0 to 1 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	1.8	1.8 to 0.8	1 to 0	0 to -1	13 to 12	12 to 11.6	13.3 to 12.3	12.5 to 11.5
Sample Elevation (ft. NGVD):	-4.5	-4.5 to -5.5	-5.3 to -6.3	-6.3 to -7.3	6.7 to 5.7	5.7 to 5.3	7 to 6	6.2 to 5.2

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5 U	5 U	5 U	-	5 U	-	5 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	5 U	6	4 JB	-	3 JB	-	2 JB
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	1 J	4 JB	16 B	-	15 B	-	13 B
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	10 U	10 U	-	10 U	-	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	10 U	10 U	10 U	-	1 J	-	10 U
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	10 U	10 U	-	10 U	-	10 U
Hexachlorobutadiene	µg/L	0.013	1 J	10 U	10 U	-	10 U	-	10 U
Pentachlorophenol	µg/L	7.9	5 U	5 U	5 U	-	5 U	-	5 U
Polychlorinated Biphenyls (PCBs)									
Total PCBs	µg/L	0.2*/0.00017	0.13 U	0.13 U	0.13 U	-	0.13 U	-	0.13 U
Pesticides									
4,4'-DDD	µg/L	0.01*/0.00031	0.050 U	0.050 U	0.050 U	-	0.050 U	-	0.050 U
4,4'-DDE	µg/L	0.01*/0.00022	0.050 U	0.050 U	0.0127 J	-	0.00906 J	-	0.00084 JB
4,4'-DDT	µg/L	0.01*/0.00022	0.050 U	0.050 U	0.050 U	-	0.050 U	-	0.050 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	E-19		F-1		F-2		F-3	F-
Sample ID:	G-011198-MPT-532	SE-011398-MPT-534	SE-011098-MPT-600	SE-011098-MPT-601	SE-011098-MPT-602	SE-011098-MPT-603	SE-011098-MPT-604	SE-011098-MPT-606
Sample Date:	1/11/1998	1/13/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998
Sample Depth:	0 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 1.4 ft bml	0 to 1 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	1.8	1.8 to 0.8	1 to 0	0 to -1	13 to 12	12 to 11.6	13.3 to 12.3	12.5 to 11.5
Sample Elevation (ft. NGVD):	-4.5	-4.5 to -5.5	-5.3 to -6.3	-6.3 to -7.3	6.7 to 5.7	5.7 to 5.3	7 to 6	6.2 to 5.2

Chemical Parameters ⁽¹⁾

Units Groundwater
Cleanup Level ⁽²⁾

Metals

Antimony	µg/L	3333	5.0 U	5.0 U	6.0	-	5.4	-	13.7	5.0 U
Arsenic	µg/L	0.14	5.0 U	20.4	21.5 J	-	14.6 J	-	20.4 J	5.0 U
Cadmium	µg/L	1.2	5.0 U	5.0 U	5.0 U	-	5.0 U	-	5.0 U	5.0 U
Chromium Total	µg/L	50	2.7 JB	1.8 J	1.7 J	-	1.9 J	-	1.5 J	8.6
Copper	µg/L	2.4	3.3 B	12.5	14.5 JB	R	16.4 J	12.9 J	9.1 JB	7.2 JB
Lead	µg/L	8.1	10.2	5.0 U	5.0 U	-	5.0 U	-	6.3	5.0 U
Mercury	µg/L	0.2*/0.025	0.20 U	0.024 JB	0.057 JB	-	0.20 U	-	0.024 JB	0.029 JB
Nickel	µg/L	8.2	4.4 JB	6.9 B	16.7 B	15.7 B	5.2 B	-	4.4 JB	4.0 JB
Silver	µg/L	55	1.1	1.0 U	1.0 U	-	1.0 U	-	1.0 U	1.0 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	127 JB	128	501	64 JB	50 U	-	49.9 J	50 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	4	F-5	F-6		F-7		F-8	F-8 (cont)
Sample ID:	SE-011098-MPT-607	C-011098-MPT-608	SE-011098-MPT-610	SE-011098-MPT-611	SE-011098-MPT-612	SE-011098-MPT-613	SE-011098-MPT-614	SE-011098-MPT-609
Sample Date:	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998
Sample Depth:	1 to 2 ft bml	0 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	11.5 to 10.5	11.6	5.1 to 4.1	4.1 to 3.1	5.2 to 4.2	4.2 to 3.2	5.2 to 4.2	5.2 to 4.2
Sample Elevation (ft. NGVD):	5.2 to 4.2	5.3	-1.2 to -2.2	-2.2 to -3.2	-1.1 to -2.1	-2.1 to -3.1	-1.1 to -2.1	-1.1 to -2.1 (Duplicate)

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	-	4 J	7	-	5 U	5 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	-	1 JB	6 B	-	5 B	6 B
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-
Trichloroethene	µg/L	81	-	4 JB	14 B	-	17 B	17 B
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-
Semivolatile Organic Compounds								
1,2,4-Trichlorobenzene	µg/L	1.92	-	10 U	9 U	-	10 U	11 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	-	10 U	1 J	-	10 U	1 J
Hexachlorobenzene	µg/L	0.01*/0.00077	-	10 U	9 U	-	10 U	11 U
Hexachlorobutadiene	µg/L	0.013	-	10 U	9 U	-	10 U	11 U
Pentachlorophenol	µg/L	7.9	-	5 U	5 U	-	5 U	5 U
Polychlorinated Biphenyls (PCBs)								
Total PCBs	µg/L	0.2*/0.00017	-	1 U	0.13 U	-	0.13 U	0.13 U
Pesticides								
4,4'-DDD	µg/L	0.01*/0.00031	-	0.010 U	0.050 U	-	0.050 U	0.0030 J
4,4'-DDE	µg/L	0.01*/0.00022	-	0.010 U	0.050 U	-	0.0146 J	0.0233 J
4,4'-DDT	µg/L	0.01*/0.00022	-	0.010 U	0.050 U	-	0.0101 J	0.0127 J

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	4	F-5	F-6		F-7		F-8	F-8 (cont)
Sample ID:	SE-011098-MPT-607	C-011098-MPT-608	SE-011098-MPT-610	SE-011098-MPT-611	SE-011098-MPT-612	SE-011098-MPT-613	SE-011098-MPT-614	SE-011098-MPT-609
Sample Date:	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998	1/10/1998
Sample Depth:	1 to 2 ft bml	0 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	11.5 to 10.5	11.6	5.1 to 4.1	4.1 to 3.1	5.2 to 4.2	4.2 to 3.2	5.2 to 4.2	5.2 to 4.2
Sample Elevation (ft. NGVD):	5.2 to 4.2	5.3	-1.2 to -2.2	-2.2 to -3.2	-1.1 to -2.1	-2.1 to -3.1	-1.1 to -2.1	-1.1 to -2.1 (Duplicate)

Chemical Parameters ⁽¹⁾

Units Groundwater Cleanup Level ⁽²⁾

Metals

Chemical	Units	Sample 4	F-5	F-6	F-7	F-8	F-8 (cont)			
Antimony	µg/L	3333	-	75.9 J	13.8	-	15.3	-	12.0 J	21.8 J
Arsenic	µg/L	0.14	-	5.0 U	13.0 J	-	28.3 J	-	5.0 U	5.0 U
Cadmium	µg/L	1.2	-	5.0 U	5.0 U	-	5.0 U	-	5.0 U	5.0 U
Chromium Total	µg/L	50	-	29.2	5.0 U	-	5.0 U	-	5.0 U	5.0 U
Copper	µg/L	2.4	14.4	5.6 J	10.3 JB	7.9	6.6 JB	24.7	16.0 J	10.7 B
Lead	µg/L	8.1	-	R	353	105	5.0 U	-	2120 J	939 J
Mercury	µg/L	0.2*/0.025	-	0.028 JB	0.055 JB	-	0.20 U	-	0.20 U	0.20 U
Nickel	µg/L	8.2	-	4.7 JB	5.3 B	-	5.1 B	-	49.6 J	30.1 J
Silver	µg/L	55	-	1.0 U	1.0 U	-	1.0 U	-	1.0 U	1.0 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	-	85 JB	50 U	-	50 U	-	381 J	168 J

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	F-8-5	F-8-8		F-11	F-12	F-13	F-14
Sample ID:	S-TRENCH-022698-MLP-025	S-TRENCH-022698-MLP-021	S-TRENCH-022698-MLP-022	PSE-011398-MPT-620	R-011398-MPT-616	PSE-011398-MPT-622	SE-011398-MPT-618
Sample Date:	2/26/1998	2/26/1998	2/26/1998	1/13/1998	1/13/1998	1/13/1998	1/13/1998
Sample Depth:	4 to 5 ft bml	4 to 5 ft bml	4 to 5 ft bml	0 to 1 ft bml	0 ft bml	0 to 1 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	4.3 to 3.3	4.3 to 3.3	4.3 to 3.3	2.8 to 1.8	7.8	1.4 to 0.4	1.5 to 0.5
Sample Elevation (ft. NGVD):	-2 to -3	-2 to -3	-2 to -3	-3.5 to -4.5	1.5	-4.9 to -5.9	-4.8 to -5.8

(Duplicate)

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾						
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	-	-	-	5 U	-	5 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	-	-	-	5 U	-	1 JB
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-
Trichloroethene	µg/L	81	-	-	-	5 U	-	4 JB
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-
Semivolatile Organic Compounds								
1,2,4-Trichlorobenzene	µg/L	1.92	-	-	-	10 U	-	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	-	-	-	10 U	-	1 JB
Hexachlorobenzene	µg/L	0.01*/0.00077	-	-	-	10 U	-	10 U
Hexachlorobutadiene	µg/L	0.013	-	-	-	10 U	-	10 U
Pentachlorophenol	µg/L	7.9	-	-	-	5 U	-	5 U
Polychlorinated Biphenyls (PCBs)								
Total PCBs	µg/L	0.2*/0.00017	-	-	-	0.13 U	-	0.13 U
Pesticides								
4,4'-DDD	µg/L	0.01*/0.00031	-	-	-	0.050 U	-	0.050 U
4,4'-DDE	µg/L	0.01*/0.00022	-	-	-	0.050 U	-	0.050 U
4,4'-DDT	µg/L	0.01*/0.00022	-	-	-	0.050 U	-	0.050 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	F-8-5	F-8-8		F-11	F-12	F-13	F-14
Sample ID:	S-TRENCH-022698-MLP-025	S-TRENCH-022698-MLP-021	S-TRENCH-022698-MLP-022	PSE-011398-MPT-620	R-011398-MPT-616	PSE-011398-MPT-622	SE-011398-MPT-618
Sample Date:	2/26/1998	2/26/1998	2/26/1998	1/13/1998	1/13/1998	1/13/1998	1/13/1998
Sample Depth:	4 to 5 ft bml	4 to 5 ft bml	4 to 5 ft bml	0 to 1 ft bml	0 ft bml	0 to 1 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	4.3 to 3.3	4.3 to 3.3	4.3 to 3.3	2.8 to 1.8	7.8	1.4 to 0.4	1.5 to 0.5
Sample Elevation (ft. NGVD):	-2 to -3	-2 to -3	-2 to -3	-3.5 to -4.5	1.5	-4.9 to -5.9	-4.8 to -5.8
			(Duplicate)				

Chemical Parameters ⁽¹⁾

Units Groundwater Cleanup Level ⁽²⁾

Metals

Chemical	Units	Groundwater Cleanup Level ⁽²⁾	F-8-5	F-8-8	F-11	F-12	F-13	F-14	
Antimony	µg/L	3333	33.2	6.0	5 U	-	5.0 U	-	18.9
Arsenic	µg/L	0.14	8.4	16.7	17.0	-	5.0 U	-	19.4
Cadmium	µg/L	1.2	5 U	5 U	5 U	-	5.0 U	-	5.0 U
Chromium Total	µg/L	50	-	-	-	-	2.4 JB	-	5.0 U
Copper	µg/L	2.4	5.0 JB	16.9 J	14.5 J	12.8	8.6	17.5	15.3
Lead	µg/L	8.1	30.8 J	10.3 J	38.3 J	59.0	4.9 J	34.8	9.4
Mercury	µg/L	0.2*/0.025	0.2 U	0.2 U	0.2 U	-	0.20 U	-	0.20 U
Nickel	µg/L	8.2	297 J	12.3 J	15.2 J	-	6.9 B	-	17.8
Silver	µg/L	55	1 U	1 U	1 U	-	1.0 U	-	1.0 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-
Zinc	µg/L	81	50 U	50 U	50 U	-	287 JB	-	201

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	F-15	F-16	F-17	F-18	G-1	G-1 (cont)	G-2	
Sample ID:	SE-011398-MPT-624	SE-011398-MPT-626	SE-011398-MPT-628	SE-011498-MPT-630	SE-011198-MPT-700	SE-011198-MPT-701	SE-011198-MPT-702	SE-011198-MPT-703
Sample Date:	1/13/1998	1/13/1998	1/13/1998	1/14/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998
Sample Depth:	0 to 0.8 ft bml	0 to 1 ft bml	0 to 0.5 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml
Sample Elevation (ft. MLLW):	1.7 to 0.9	0.9 to -0.1	10.24 to 9.74	4.3 to 3.3	11.6 to 10.6	10.6 to 9.6	11.4 to 10.4	10.4 to 9.4
Sample Elevation (ft. NGVD):	-4.6 to -5.4	-5.4 to -6.4	3.9 to 3.4	-2 to -3	5.3 to 4.3	4.3 to 3.3	5.1 to 4.1	4.1 to 3.1

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5 U	5 U	5 U	5 U	5 U	-	5 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	2 JB	2 JB	2 JB	1 J	2 JB	-	2 JB
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	4 JB	5 B	4 JB	5 U	13 B	-	3 JB
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	10 U	10 U	10 U	10 U	-	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	10 U	10 U	10 U	10 U	10 U	-	1 J
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	10 U	10 U	10 U	10 U	-	10 U
Hexachlorobutadiene	µg/L	0.013	10 U	10 U	10 U	10 U	10 U	-	10 U
Pentachlorophenol	µg/L	7.9	5 U	5 U	5 U	5 U	5 U	-	5 U
Polychlorinated Biphenyls (PCBs)									
Total PCBs	µg/L	0.2*/0.00017	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	-	0.13 U
Pesticides									
4,4'-DDD	µg/L	0.01*/0.00031	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	-	0.050 U
4,4'-DDE	µg/L	0.01*/0.00022	0.00882 J	0.050 U	0.00500 J	0.050 U	0.050 U	-	0.050 U
4,4'-DDT	µg/L	0.01*/0.00022	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	-	0.050 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	F-15	F-16	F-17	F-18	G-1	G-1 (cont)	G-2	
Sample ID:	SE-011398-MPT-624	SE-011398-MPT-626	SE-011398-MPT-628	SE-011498-MPT-630	SE-011198-MPT-700	SE-011198-MPT-701	SE-011198-MPT-702	SE-011198-MPT-703
Sample Date:	1/13/1998	1/13/1998	1/13/1998	1/14/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998
Sample Depth:	0 to 0.8 ft bml	0 to 1 ft bml	0 to 0.5 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml	1 to 2 ft bml
Sample Elevation (ft. MLLW):	1.7 to 0.9	0.9 to -0.1	10.24 to 9.74	4.3 to 3.3	11.6 to 10.6	10.6 to 9.6	11.4 to 10.4	10.4 to 9.4
Sample Elevation (ft. NGVD):	-4.6 to -5.4	-5.4 to -6.4	3.9 to 3.4	-2 to -3	5.3 to 4.3	4.3 to 3.3	5.1 to 4.1	4.1 to 3.1

Chemical Parameters ⁽¹⁾

	Units	Groundwater Cleanup Level ⁽²⁾	F-15	F-16	F-17	F-18	G-1	G-1 (cont)	G-2	G-2
Metals										
Antimony	µg/L	3333	10.3	9.6	15.3	5.0 U	5.0 U	-	5.3	-
Arsenic	µg/L	0.14	21.5	19.0	5.0 U	12.5	12.8 J	-	19.6	-
Cadmium	µg/L	1.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	-
Chromium Total	µg/L	50	5.0 U	1.6 J	1.4 J	5.0 U	5.0 U	-	5.0 U	-
Copper	µg/L	2.4	18.5	2.0 U	13.1	12.7	8.7 JB	17.2	1.9 J	-
Lead	µg/L	8.1	3.6 J	5.0 U	107	11.9	5.0 U	-	133	304
Mercury	µg/L	0.2*/0.025	0.20 U	0.20 U	0.20 U	0.20 U	0.84	0.20 U	0.051 JB	-
Nickel	µg/L	8.2	13.1	10.3 B	7.6 B	8.7 B	12.6 B	23.5	6.3 B	-
Silver	µg/L	55	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	-
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	132	20.0 JB	129	206	352	9.0 JB	32.9 JB	-

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	G-3		G-4		G-5		G-6		G
Sample ID:	SE-011198-MPT-704	SE-011198-MPT-705	SE-011198-MPT-710	SE-011198-MPT-706	SE-011198-MPT-707	G-011198-MPT-708	G-011198-MPT-709	SE-011198-MPT-712	
Sample Date:	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	
Sample Depth:	0 to 1 ft bml	1 to 1.9 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 1.7 ft bml	0 ft bml	0 ft bml	0 to 1 ft bml	
Sample Elevation (ft. MLLW):	10.5 to 9.5	9.5 to 8.6	12 to 11	11.3 to 10.3	10.3 to 9.6	12.6	12.6	5.4 to 4.4	
Sample Elevation (ft.NGVD):	4.2 to 3.2	3.2 to 2.3	5.7 to 4.7	5 to 4	4 to 3.3	6.3	6.3	-0.9 to -1.9	

(Duplicate)

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾								
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5 U	-	5 U	5 U	-	5 U	5 U	5 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	5 B	-	1 JB	10 B	-	5 U	5 U	22
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	2 JB	-	2 JB	5 B	-	5 U	5 U	7 B
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-	-
Semivolatile Organic Compounds										
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	-	10 U	10 U	-	10 U	10 U	9 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	1 J	-	1 J	10 U	-	1 J	10 U	1 J
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	-	10 U	10 U	-	10 U	10 U	9 U
Hexachlorobutadiene	µg/L	0.013	10 U	-	10 U	10 U	-	10 U	10 U	9 U
Pentachlorophenol	µg/L	7.9	5 U	-	5 U	5 U	-	5 U	5 U	5 U
Polychlorinated Biphenyls (PCBs)										
Total PCBs	µg/L	0.2*/0.00017	0.13 U	-	0.13 U	0.13 U	-	0.13 U	0.13 U	0.13 U
Pesticides										
4,4'-DDD	µg/L	0.01*/0.00031	0.050 U	-	0.050 U	0.050 U	-	0.050 U	0.050 U	0.050 U
4,4'-DDE	µg/L	0.01*/0.00022	0.00793 J	-	0.00126 J	0.050 U	-	0.050 U	0.050 U	0.0152 J
4,4'-DDT	µg/L	0.01*/0.00022	0.050 U	-	0.050 U	0.050 U	-	0.050 U	0.050 U	0.050 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	G-3		G-4	G-5		G-6		G
Sample ID:	SE-011198-MPT-704	SE-011198-MPT-705	SE-011198-MPT-710	SE-011198-MPT-706	SE-011198-MPT-707	G-011198-MPT-708	G-011198-MPT-709	SE-011198-MPT-712
Sample Date:	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998
Sample Depth:	0 to 1 ft bml	1 to 1.9 ft bml	0 to 1 ft bml	0 to 1 ft bml	1 to 1.7 ft bml	0 ft bml	0 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	10.5 to 9.5	9.5 to 8.6	12 to 11	11.3 to 10.3	10.3 to 9.6	12.6	12.6	5.4 to 4.4
Sample Elevation (ft.NGVD):	4.2 to 3.2	3.2 to 2.3	5.7 to 4.7	5 to 4	4 to 3.3	6.3	6.3	-0.9 to -1.9

(Duplicate)

Chemical Parameters ⁽¹⁾

Units Groundwater
 Cleanup Level ⁽²⁾

Metals

Chemical	Units	3333	G-3	G-4	G-5	G-6	G			
Antimony	µg/L	3333	22.2	-	12.5	11.6	-	10.0 J	8.3 J	29.8 J
Arsenic	µg/L	0.14	8.2	-	13.2	5.0 U	-	5.0 U	5.0 U	12.4
Cadmium	µg/L	1.2	5.0 U	-	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U
Chromium Total	µg/L	50	5.0 U	-	5.0 U	5.0 U	-	2.5 JB	1.7 JB	1.3 J
Copper	µg/L	2.4	5.5	8.7	4.1	2.3	-	7.0	5.4 B	7.8
Lead	µg/L	8.1	206	7.1	238	214	10.9	32.5 J	253 J	67.3 J
Mercury	µg/L	0.2*/0.025	0.050 JB	-	0.058 JB	0.042 JB	-	0.035 J	0.20 U	0.044 JB
Nickel	µg/L	8.2	5.1 B	-	6.5 B	9.0 B	10.2 B	6.5 B	5.4 B	7.4 B
Silver	µg/L	55	1.0 U	-	1.0 U	1.0 U	-	1.0 U	1.7	1.0 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	107 B	83 J	174 B	209 B	287 B	344 JB	15.3 JB	224 B

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	-7		G-8			G-10		G-10-5	G-10-8
	Sample ID:	SE-011198-MPT-721	SE-011198-MPT-714	SE-011198-MPT-715	SE-011198-MPT-718	SE-011198-MPT-719	S-TRENCH-022398-MPT-004	S-TRENCH-022398-MPT-002	
Sample Date:	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	2/23/1998	2/23/1998	
Sample Depth:	0 to 1 ft bml	0 to 1 ft bml	1 to 1.7 ft bml	0 to 1 ft bml	1 to 1.7 ft bml	4 to 5 ft bml	4 to 5 ft bml		
Sample Elevation (ft. MLLW):	5.4 to 4.4	4.6 to 3.6	3.6 to 2.9	5 to 4	4 to 3.3	0.2 to -0.8	7.5 to 6.5		
Sample Elevation (ft. NGVD):	-0.9 to -1.9	-1.7 to -2.7	-2.7 to -3.4	-1.3 to -2.3	-2.3 to -3	-6.1 to -7.1	1.2 to 0.2		
		(Duplicate)							
Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5 U	5 U	-	5 U	-	-	-
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	16	12	-	2 JB	-	-	-
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	5 B	5 B	-	5 B	-	-	-
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	10 U	-	4 J	-	-	-
bis(2-Ethylhexyl)phthalate	µg/L	0.73	10 U	1 J	-	1 J	-	-	-
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	10 U	-	10 U	-	-	-
Hexachlorobutadiene	µg/L	0.013	10 U	10 U	-	10 U	-	-	-
Pentachlorophenol	µg/L	7.9	5 U	5 U	-	5 U	-	-	-
Polychlorinated Biphenyls (PCBs)									
Total PCBs	µg/L	0.2*/0.00017	0.13 U	0.13 U	-	0.13 U	-	-	-
Pesticides									
4,4'-DDD	µg/L	0.01*/0.00031	0.050 U	0.050 U	-	0.050 U	-	-	-
4,4'-DDE	µg/L	0.01*/0.00022	0.050 U	0.00204 J	-	0.050 U	-	-	-
4,4'-DDT	µg/L	0.01*/0.00022	0.050 U	0.050 U	-	0.050 U	-	-	-

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	<u>-7</u>	<u>G-8</u>			<u>G-10</u>		<u>G-10-5</u>	<u>G-10-8</u>
Sample ID:	SE-011198-MPT-721	SE-011198-MPT-714	SE-011198-MPT-715	SE-011198-MPT-718	SE-011198-MPT-719	S-TRENCH-022398-MPT-004	S-TRENCH-022398-MPT-002	
Sample Date:	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	2/23/1998	2/23/1998	
Sample Depth:	0 to 1 ft bml	0 to 1 ft bml	1 to 1.7 ft bml	0 to 1 ft bml	1 to 1.7 ft bml	4 to 5 ft bml	4 to 5 ft bml	
Sample Elevation (ft. MLLW):	5.4 to 4.4	4.6 to 3.6	3.6 to 2.9	5 to 4	4 to 3.3	0.2 to -0.8	7.5 to 6.5	
Sample Elevation (ft. NGVD):	-0.9 to -1.9 (Duplicate)	-1.7 to -2.7	-2.7 to -3.4	-1.3 to -2.3	-2.3 to -3	-6.1 to -7.1	1.2 to 0.2	

Chemical Parameters ⁽¹⁾

	Units	Groundwater Cleanup Level ⁽²⁾								
Metals										
Antimony	µg/L	3333	19.0 J	6.6	-	32.3	-	7.4	6.8	
Arsenic	µg/L	0.14	11.3	21.8	-	21.8	-	6.8	13.0	
Cadmium	µg/L	1.2	5.0 U	5.0 U	-	5.0 U	-	5 U	5 U	
Chromium Total	µg/L	50	5.0 U	5.0 U	-	5.0 U	-	-	-	
Copper	µg/L	2.4	10.8	7.7	13.2	10.0	8.6	77.1	7.3 B	
Lead	µg/L	8.1	199 J	39.6	31.5	72.0	201	735	181	
Mercury	µg/L	0.2*/0.025	0.047 JB	0.068 JB	-	0.053 JB	-	0.2 U	0.2 U	
Nickel	µg/L	8.2	8.1 B	5.7 B	-	4.7 JB	-	7.2 J	5.0 J	
Silver	µg/L	55	1.0 U	1.0 U	-	1.0 U	-	1 U	1 U	
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	
Zinc	µg/L	81	139 B	77 B	-	30.8 JB	-	186	50 U	

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	G-11	G-12	G-13	G-14		G-15	G-16	G-17
Sample ID:	C-011198-MPT-720	PSE-011198-MPT-726	SE-011198-MPT-728	SE-011198-MPT-722	SE-011198-MPT-723	PSE-011198-MPT-730	PSE-011198-MPT-732	SE-011198-MPT-734
Sample Date:	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998
Sample Depth:	0 ft bml	0 to 1 ft bml	0 to 1 ft bml	0 to 1 ft bml	0 to 1.3 ft bml	0 to 1 ft bml	0 to 1 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	12.6	6.7 to 5.7	0.5 to -0.5	0.4 to -0.6	0.4 to -0.9	8.6 to 7.6	5.4 to 4.4	1.1 to 0.1
Sample Elevation (ft.NGVVD):	6.3	0.4 to -0.6	-5.8 to -6.8	-5.9 to -6.9	-5.9 to -7.2	2.3 to 1.3	-0.9 to -1.9	-5.2 to -6.2

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾								
		G-11	G-12	G-13	G-14	G-15	G-16	G-17		
Volatile Organic Compounds										
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5 U	-	5 U	5 U	-	-	-	5 U
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	5 U	-	9 B	6 B	-	-	-	2 JB
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	3 JB	-	9 B	260	-	-	-	5 B
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-	-
Semivolatile Organic Compounds										
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	-	3 J	10 U	-	-	-	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	10 U	-	10 U	1 J	-	-	-	1 JB
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	-	10 U	10 U	-	-	-	10 U
Hexachlorobutadiene	µg/L	0.013	10 U	-	10 U	10 U	-	-	-	10 U
Pentachlorophenol	µg/L	7.9	5 U	-	5 U	5 U	-	-	-	5 U
Polychlorinated Biphenyls (PCBs)										
Total PCBs	µg/L	0.2*/0.00017	0.13 U	-	0.13 U	0.13 U	-	-	-	0.13 U
Pesticides										
4,4'-DDD	µg/L	0.01*/0.00031	0.050 U	-	0.050 U	0.050 U	-	-	-	0.050 U
4,4'-DDE	µg/L	0.01*/0.00022	0.050 U	-	0.050 U	0.050 U	-	-	-	0.050 U
4,4'-DDT	µg/L	0.01*/0.00022	0.050 U	-	0.050 U	0.050 U	-	-	-	0.050 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	G-11	G-12	G-13	G-14		G-15	G-16	G-17
Sample ID:	C-011198-MPT-720	PSE-011198-MPT-726	SE-011198-MPT-728	SE-011198-MPT-722	SE-011198-MPT-723	PSE-011198-MPT-730	PSE-011198-MPT-732	SE-011198-MPT-734
Sample Date:	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998
Sample Depth:	0 ft bml	0 to 1 ft bml	0 to 1 ft bml	0 to 1 ft bml	0 to 1.3 ft bml	0 to 1 ft bml	0 to 1 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	12.6	6.7 to 5.7	0.5 to -0.5	0.4 to -0.6	0.4 to -0.9	8.6 to 7.6	5.4 to 4.4	1.1 to 0.1
Sample Elevation (ft. NGVD):	6.3	0.4 to -0.6	-5.8 to -6.8	-5.9 to -6.9	-5.9 to -7.2	2.3 to 1.3	-0.9 to -1.9	-5.2 to -6.2

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾								
		G-11	G-12	G-13	G-14	G-14	G-15	G-16	G-17	
Metals										
Antimony	µg/L	3333	103 J	-	28.4	23.7	-	-	-	34.3
Arsenic	µg/L	0.14	5.0 U	-	5.0 U	7.5	-	-	-	16.6
Cadmium	µg/L	1.2	5.0 U	-	5.0 U	5.0 U	-	-	-	5.0 U
Chromium Total	µg/L	50	43.2	-	1.3 J	5.0 U	-	-	-	1.9 J
Copper	µg/L	2.4	6.1 J	20.6	4.2	11.8	24.8	117	29.0	6.3
Lead	µg/L	8.1	R	467	156	251	42.3	70.2	115	20.1
Mercury	µg/L	0.2*/0.025	0.20 U	-	0.071 JB	0.051 JB	-	-	-	0.24 J
Nickel	µg/L	8.2	15.8 B	27.0 B	8.6 B	5.8 B	-	-	143	12.6
Silver	µg/L	55	1.0 U	-	1.0 U	1.0 U	-	-	-	1.0 U
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	72 BJ	-	136 B	170 B	311 B	-	-	142

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	G-18		G-19		G-20	G-21		G-22
Sample ID:	SE-011198-MPT-724	SE-011198-MPT-725	A-011098-MPT-731	A-011198-MPT-731	A-011198-MPT-733	SE-011198-MPT-738	SE-011198-MPT-739	PSE-011198-MPT-735
Sample Date:	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998
Sample Depth:	0 to 1 ft bml	1 to 2 ft bml	0 ft bml	0 ft bml	0 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	0.2 to -0.8	-0.8 to -1.8	3.8	3.8	1.2	1 to 0	0 to -1	1.9 to 0.9
Sample Elevation (ft. NGVD):	-6.1 to -7.1	-7.1 to -8.1	-2.5	-2.5	-5.1	-5.3 to -6.3	-6.3 to -7.3	-4.4 to -5.4

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾							
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5 U	-	-	5 U	5 U	5 U	-
Methylene chloride	µg/L	1600	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	3 JB	-	-	4 JB	9 J	3 JB	-
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-	-	-
Trichloroethene	µg/L	81	6 B	-	-	3 JB	4 JB	4 JB	-
Vinyl chloride	µg/L	2.4	-	-	-	-	-	-	-
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	-	10 U	-	10 U	10 U	-
bis(2-Ethylhexyl)phthalate	µg/L	0.73	1 J	-	10 U	-	10 U	1 J	-
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	-	10 U	-	10 U	10 U	-
Hexachlorobutadiene	µg/L	0.013	10 U	-	10 U	-	10 U	10 U	-
Pentachlorophenol	µg/L	7.9	5 U	-	5 U	-	5 U	5 U	-
Polychlorinated Biphenyls (PCBs)									
Total PCBs	µg/L	0.2*/0.00017	0.13 U	-	0.13 U	-	0.13 U	0.13 U	-
Pesticides									
4,4'-DDD	µg/L	0.01*/0.00031	0.050 U	-	0.050 U	-	0.050 U	0.050 U	-
4,4'-DDE	µg/L	0.01*/0.00022	0.050 U	-	0.050 U	-	0.00281 J	0.050 U	-
4,4'-DDT	µg/L	0.01*/0.00022	0.050 U	-	0.050 U	-	0.050 U	0.050 U	-

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	G-18		G-19		G-20	G-21		G-22
Sample ID:	SE-011198-MPT-724	SE-011198-MPT-725	A-011098-MPT-731	A-011198-MPT-731	A-011198-MPT-733	SE-011198-MPT-738	SE-011198-MPT-739	PSE-011198-MPT-735
Sample Date:	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998	1/11/1998
Sample Depth:	0 to 1 ft bml	1 to 2 ft bml	0 ft bml	0 ft bml	0 ft bml	0 to 1 ft bml	1 to 2 ft bml	0 to 1 ft bml
Sample Elevation (ft. MLLW):	0.2 to -0.8	-0.8 to -1.8	3.8	3.8	1.2	1 to 0	0 to -1	1.9 to 0.9
Sample Elevation (ft. NGVD):	-6.1 to -7.1	-7.1 to -8.1	-2.5	-2.5	-5.1	-5.3 to -6.3	-6.3 to -7.3	-4.4 to -5.4

Chemical Parameters ⁽¹⁾

Units Groundwater
 Cleanup Level ⁽²⁾

Metals

Chemical	Units	3333	11.1	-	9.5 JB	-	5.0 U	35.8	-	-
Antimony	µg/L	3333	11.1	-	9.5 JB	-	5.0 U	35.8	-	-
Arsenic	µg/L	0.14	15.6	-	5.0 U	-	5.0 U	10.8	-	-
Cadmium	µg/L	1.2	5.0 U	-	5.0 U	-	5.0 U	5.0 U	-	-
Chromium Total	µg/L	50	1.7 J	-	2.6 J	-	5.0 U	5.0 U	-	-
Copper	µg/L	2.4	13.7	14.4	1.7 J	-	1.9 J	7.6	162	19.7
Lead	µg/L	8.1	30.5	52.8 J	1030 J	-	186 J	27.8	94.9 J	98.0
Mercury	µg/L	0.2*/0.025	0.111 JB	0.032 JB	0.20 U	-	0.20 U	0.112 JB	0.20 U	-
Nickel	µg/L	8.2	7.9 B	-	9.5 B	-	10.9 B	24.9	9.4 B	-
Silver	µg/L	55	1.0 U	-	1.0 U	-	1.0 U	1.0 U	-	-
Thallium	µg/L	1*/0.47	-	-	-	-	-	-	-	-
Zinc	µg/L	81	231 B	723	42.2 JB	-	9.2 JB	148 B	432 B	-

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	G-23	G-24	G-25	G-26	MS-1	MS-2
Sample ID:	G-011198-MPT-740	SE-011198-MPT-742	G-011398-MPT-743	G-011398-MPT-744	MS-022598-JJW-001	MS-022598-JJW-002
Sample Date:	1/11/1998	1/11/1998	1/13/1998	1/13/1998	2/25/1998	2/25/1998
Sample Depth:	0 ft bml	0 to 0.5 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
Sample Elevation (ft. MLLW):	8.5	7.3 to 6.8	14.6	14.2	0	-1
Sample Elevation (ft. NGVD):	2.2	1 to 0.5	8.3	7.9	-6.3	-7.3

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾					
		G-23	G-24	G-25	G-26	MS-1	MS-2
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	µg/L	11	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	42	-	-	-	-	-
1,1-Dichloroethene	µg/L	3.2	-	-	-	-	-
Carbon tetrachloride	µg/L	4.4	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	470	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	16	-	-	-	-	-
Ethylbenzene	µg/L	3.1	5 U	5 U	5 U	5.0 U	5.0 U
Methylene chloride	µg/L	1600	-	-	-	-	-
Tetrachloroethene	µg/L	8.85	2 JB	3 JB	5 U	3.9 J	5.0 U
trans-1,2-Dichloroethene	µg/L	10,000	-	-	-	-	-
Trichloroethene	µg/L	81	4 JB	5 B	5 U	5.7	5.0 U
Vinyl chloride	µg/L	2.4	-	-	-	-	-
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	µg/L	1.92	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	µg/L	0.73	1 J	1 JB	10 U	1 J	10 U
Hexachlorobenzene	µg/L	0.01*/0.00077	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	0.013	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	µg/L	7.9	5 U	5 U	5 U	4.8 U	4.8 U
Polychlorinated Biphenyls (PCBs)							
Total PCBs	µg/L	0.2*/0.00017	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Pesticides							
4,4'-DDD	µg/L	0.01*/0.00031	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4'-DDE	µg/L	0.01*/0.00022	0.00294 J	0.00479 J	0.050 U	0.050 U	0.050 U
4,4'-DDT	µg/L	0.01*/0.00022	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

Sample Location:	G-23	G-24	G-25	G-26	MS-1	MS-2
Sample ID:	G-011198-MPT-740	SE-011198-MPT-742	G-011398-MPT-743	G-011398-MPT-744	MS-022598-JJW-001	MS-022598-JJW-002
Sample Date:	1/11/1998	1/11/1998	1/13/1998	1/13/1998	2/25/1998	2/25/1998
Sample Depth:	0 ft bml	0 to 0.5 ft bml	0 ft bml	0 ft bml	0 ft bml	0 ft bml
Sample Elevation (ft. MLLW):	8.5	7.3 to 6.8	14.6	14.2	0	-1
Sample Elevation (ft. NGVD):	2.2	1 to 0.5	8.3	7.9	-6.3	-7.3

Chemical Parameters ⁽¹⁾	Units	Groundwater Cleanup Level ⁽²⁾	Sample Results					
			G-23	G-24	G-25	G-26		
Metals								
Antimony	µg/L	3333	56.8 J	6.2	5.0 U	7.6 J	-	-
Arsenic	µg/L	0.14	19.6	7.8	7.2	7.7	-	-
Cadmium	µg/L	1.2	5.0 U	5.0 U	5.0 U	5.0 U	-	-
Chromium Total	µg/L	50	5.0 U	1.6 J	4.3 JB	2.4 JB	-	-
Copper	µg/L	2.4	R	27.9	4.7 B	8.8	-	-
Lead	µg/L	8.1	R	20.1	11.0	3.5 J	-	-
Mercury	µg/L	0.2*/0.025	0.20 U	0.20 U	0.20 U	0.074 J	-	-
Nickel	µg/L	8.2	4.1 JB	10.3 B	6.9 B	6.8 B	-	-
Silver	µg/L	55	1.0 U	1.0 U	1.0 U	1.0 U	-	-
Thallium	µg/L	1*/0.47	-	-	-	-	-	-
Zinc	µg/L	81	14.8 JB	180	16.5 JB	54 JB	-	-

TABLE 4.42

LEACHATE ANALYTICAL RESULTS - SITE CONSTITUENTS OF CONCERN
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Notes:

- ⁽¹⁾ Site COCs per Tables 3.1 and 3.2 of the Statement of Work (January 2005). Additional non-COC analytical results are presented in the eDAT located in Appendix F.
- ⁽²⁾ Groundwater Cleanup Levels per Table 4.8.
- BML Below mudline.
- MLLW Mean lower low water.
- NGVD National geodetic vertical datum.
- COCs Constituents of concern.
- ug/L Microgram per liter.
- NV No cleanup level has been established for this parameter.
- * Cleanup Level established at a concentration equal to the practical quantitation limit for that chemical in accordance the WAC 173-340-700 (6)(d). Value may decrease with improvements in analytical methods.
- 500 Concentration exceeds the Groundwater Cleanup Level.
- Not analyzed.
- U Not detected at associated concentration.
- J Estimated concentration.

TABLE 4.43

NATURE AND EXTENT OF CONTAMINATION IN SEEPS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

	Groundwater Cleanup Level ⁽¹⁾	Maximum Concentration			Summary of Exceedance Factors ⁽²⁾				Total Number of Samples Analyzed
		Conc. (µg/L)	EF	Location	>1 to 10	>10 to 100	>100	Total	
Volatiles									
1,1,1,2,2-Tetrachloroethane	11	400	36	Seep-1	0	1	0	1	197
1,1,2-Trichloroethane	42	U	--	various	0	0	0	0	196
1,1-Dichloroethene	3.2	0.6	<1	SM1	0	0	0	0	197
Carbon tetrachloride	4.4	2.7	<1	D2-28	0	0	0	0	196
Chloroform	470	11	<1	Seep-2	0	0	0	0	200
Ethylbenzene	3.1	U	--	various	0	0	0	0	22
Methylene chloride	1600	19	<1	E-10	0	0	0	0	196
Tetrachloroethene	8.85	205	23	ECOLOGY 2	7	3	0	10	217
cis-1,2-Dichloroethene	16	210	13	ECOLOGY 2	4	2	0	6	192
trans-1,2-Dichloroethene	10000	58	<1	Seep-1	0	0	0	0	196
Trichloroethene	81	110	1.4	Milky Seep 1	2	0	0	2	217
Vinyl chloride	2.4	10	4.2	Seep-1	10	0	0	10	200
	Summary of VOCs		100	Seep-1	23	6	0	29	2,226
Semi-Volatiles									
1,2,4-Trichlorobenzene	1.92	U	--	various	0	0	0	0	20
bis(2-Ethylhexyl) phthalate	0.73	43	59	Milky Seep 1	0	2	0	2	20
Hexachlorobenzene	0.00077	U	--	various	0	0	0	0	59
Hexachlorobutadiene	0.13	U	--	various	0	0	0	0	27
Pentachlorophenol	8	U	--	various	0	0	0	0	59
	Summary of SVOCs				0	2	0	2	185
Pesticides									
4,4'-DDD	0.00031	0.1	323	Seep-1	0	0	1	1	18
4,4'-DDE	0.00022	U	--	various	0	0	0	0	18
4,4'-DDT	0.00022	0.1	455	Seep-1	0	0	1	1	18
	Summary of Pesticides		455	Seep-1	0	0	2	2	54
PCBs									
Total PCBs	0.00017	1.2	7,059	D2-9	0	0	2	2	50
Dioxins/ Furans									
Dioxin-Furan (TEC of 2,3,7,8 tcdd)	5.10E-09	18.518 U	--	P-A18	0	0	0	0	1

TABLE 4.43

NATURE AND EXTENT OF CONTAMINATION IN SEEPS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

	Groundwater Cleanup Level ⁽¹⁾	Maximum Concentration			Summary of Exceedance Factors ⁽²⁾				Total Number of Samples Analyzed
		Conc. (µg/L)	EF	Location	>1 to 10	>10 to 100	>100	Total	
Metals									
Antimony	3333	U	--	various	0	0	0	0	16
Arsenic	0.14	827	165	SM3	4	19	12	35	70
Cadmium	1.2	5 U	--	various	0	0	0	0	16
Chromium, total ⁽⁶⁾	50	19.3	<1	SM26	0	0	0	0	70
Copper	2.4	881	367	D2-28	40	28	1	69	70
Lead	8.1	2480	306	D2-28	29	13	2	44	69
Mercury	0.025	0.89	36	SM2	1	3	0	4	69
Nickel	8.2	218	27	D2-4	54	4	0	58	69
Silver	55	1.7	<1	C-19	0	0	0	0	32
Thallium	0.47	9	19	D2-15	1	1	0	2	53
Zinc	81	232	2.9	C-19	4	0	0	4	70
Summary of Metals			367	D2-28	133	68	15	216	604
General					8.5 - 10	>10 to 12	>12		
pH	7 - 8.5	11.2	--	MS-1, -4, -8, -9	15	14	0	29	235

Notes:

(1) GCLS per Table 4.8.

(2) Exceedance factor calculated as the concentration divided by the GCLS for parameter.

µg/L Microgram per liter.

sf Square feet.

NGVD National Geodetic Vertical Datum.

EVE Exceedance factor.

NV No established GCLS.

PCB Polychlorinated Biphenyl.

U Not detected.

TABLE 4.44

NATURE AND EXTENT OF CONTAMINATION IN SPLP LEACHATE
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

	Groundwater Cleanup Level ⁽¹⁾ (µg/L)	Maximum Concentration			Summary of Exceedance Factors ⁽²⁾					Total Number of Samples Analyzed
		Conc.	EF	Location	>1 to 10	>10 to 100	>100 to 1000	> 1000	Total	
		(µg/L)								
Volatiles										
1,1,2,2-Tetrachloroethane	11	--	--	--	--	--	--	--	--	0
1,1,2-Trichloroethane	42	--	--	--	--	--	--	--	--	0
1,1-Dichloroethene	3.2	--	--	--	--	--	--	--	--	0
Carbon tetrachloride	4.4	--	--	--	--	--	--	--	--	0
Chloroform	470	--	--	--	--	--	--	--	--	0
Ethylbenzene	3.1	7	2.3	F-6	2	0	0	0	2	148
Methylene chloride	1600	--	--	--	--	--	--	--	--	0
Tetrachloroethene	8.85	160	18	E-17	13	1	0	0	14	148
cis-1,2-Dichloroethene	16	--	--	--	--	--	--	--	--	0
trans-1,2-Dichloroethene	10000	--	--	--	--	--	--	--	--	0
Trichloroethene	81	260	3.2	G-14	2	0	0	0	2	148
Vinyl chloride	2	--	--	--	--	--	--	--	--	0
Summary of VOCs			48	E-17	17	1	0	0	18	444
Semi-Volatiles										
1,2,4-Trichlorobenzene	1.92	4 J	2	G-10	2	0	0	0	2	148
bis(2-Ethylhexyl) phthalate	0.73	1 J	1	various	25	0	0	0	25	148
Hexachlorobenzene	0.00077	1 J	1298	C-22	0	0	0	1	1	148
Hexachlorobutadiene	0.13	17	131	C-22	3	2	1	0	6	148
Pentachlorophenol	8	23	2.9	C-22	1	0	0	0	1	148
Summary of SVOCs			3448	C-22	31	2	1	1	35	740
Pesticides										
4,4'-DDD	0.00037	0.0059 J	7	E-16	1	4	0	0	5	148
4,4'-DDE	0.00022	0.0268 J	45	A-20	3	17	2	0	22	148
4,4'-DDT	0.00022	0.0101 J	17	F-7	0	1	0	0	1	148
Summary of Pesticides			122	A-20	4	22	2	0	28	444
PCBs										
Total PCBs	0.00017	0.69	4,058	C-14	--	--	2	1	3	150
Dioxins/ Furans										
Dioxin-Furan (TEC of 2,3,7,8 tcdd)	5.10E-09	--	--	--	--	--	--	--	--	0
Metals										
Antimony	3333	511	<1	E-4	0	0	0	0	0	159
Arsenic	0.14	56.8	406.0	B-21-5	0	52	58	0	110	159
Cadmium	1.2	13.6	11.0	A-1	0	1	0	0	1	159
Chromium, total ⁽⁶⁾	50	43.2	<1	G-11	0	0	0	0	0	146
Copper	2.4	162	68	G-21	171	24	0	0	195	214
Lead	8.1	2120 J	262	F-8	52	49	8	0	109	193
Mercury	0.025	0.84	34	G-1	33	1	0	0	34	161
Nickel	8.2	297 J	36	F-8-5	76	2	0	0	78	180
Silver	55	13.2	<1	C-1	--	--	--	--	0	318
Thallium	0.47	--	--	--	--	--	--	--	0	0
Zinc	81	805	10	E-16	62	0	0	0	62	172
Summary of Metals			262	F-8	394	129	66	0	589	1,861

Notes:

(1) GCL per Table 4.8.

(2) Exceedance factor calculated as the concentration divided by the GCL for parameter.

µg/L Microgram per liter.

sf Square feet.

NGVD National Geodetic Vertical Datum.

EF Exceedance factor.

NV No established GCL.

PCB Polychlorinated Biphenyl.

J Estimated concentration.

TABLE 5.1

**SUMMARY OF CHEMICAL TRANSPORT PARAMETERS
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

	<i>Parameter</i>	<i>Partitioning</i>	<i>Henry's Law</i>	<i>Solubility</i>	<i>Generic Kd (2)</i> <i>TOC = 0.0057 g/g</i>
		<i>Coefficient</i> <i>K_{oc}⁽¹⁾</i> <i>L/kg</i>	<i>Constant</i> <i>H[*]</i> <i>(1)</i>		
Volatiles	1,1,2,2-Tetrachloroethane	94.94	0.015004	2,830	0.54
	1,1,2-Trichloroethane	60.7	0.033688	4,590	0.35
	1,1-Dichloroethene	31.82	1.067048	2,420	0.18
	Benzene	145.8	0.226901	1,790	0.83
	Carbon tetrachloride	43.89	1.128373	793	0.25
	Chloroform (Trichloromethane)	31.82	0.150041	7,950	0.18
	Ethylbenzene	446.1	0.322159	169	2.5
	Methylene chloride	21.73	0.132870	13,000	0.12
	Tetrachloroethene	94.94	0.723630	206	0.54
	cis-1,2-Dichloroethene	39.6	0.166803	6,410	0.23
	trans-1,2-Dichloroethene	39.6	0.166803	4,520	0.23
	Trichloroethene	60.7	0.402698	1,280	0.35
	Vinyl chloride	21.73	1.136550	8,800	0.12
	Semi-Volatiles	1,2,4-Trichlorobenzene	1,383	0.0511038	18
bis(2-Ethylhexyl) phthalate		119,600	0.000011	0.27	682
Hexachlorobenzene		6,195	0.0695012	0.0062	35
Hexachlorobutadiene		845.2	0.4210957	3.2	4.8
Pentachlorophenol		4959	0.0000010	14	28
Pesticides, PCBs, Dioxin-Furans	4,4'-DDD	117,500	0.0002698	0.090	670
	4,4'-DDE	117,500	0.0017007	0.040	670
	4,4'-DDT	168,600	0.0003401	0.0055	961
	Aroclor 1221	8,397	0.0300899	15	48
	Aroclor 1248	76,530	0.0179886	0.1	436
	Aroclor 1254	130,500	0.0115699	0.043	744
	Aroclor 1260	349,700	0.0137367	0.0144	1993
	2,3,7,8-TCDD (dioxin)	249,100	0.0020442	0.0002	1420
	Hexachlorodibenzo-p-dioxin, Mixture	695,200	0.000233	0.000004	3963
	dibenzofuran	9,161	0.0087081	3.1	52
Metals	Antimony		--		
	Arsenic		--		
	Cadmium		--		
	Chromium		--		
	Copper		--		
	Lead		--		
	Mercury		0.47		
	Nickel		--		
	Silver		--		
	Thallium		--		
	Zinc		--		

Notes:

- (1) Partitioning coefficient, Henry's Law Constant and Solubility values are taken from USEPA Region 9 Regional Screening Levels (November 2013)
- (2) The generic Kd is based upon using a site-specific TOC value of 0.0057 g/g, which is based upon the mean of TOC data obtained from soil samples collected at the Site. A discussion of pH-dependent, Site-specific Kd values is presented in the University of Washington's report, included in Appendix W
- H^{*} Henry's Law Constant, unitless form
- K_{oc} Organic Carbon Partitioning Coefficient
- K_d Partitioning Coefficient
- PCB Polychlorinated Biphenyl
- TOC Total Organic Carbon
- L/kg liters per kilogram
- mg/kg milligrams per kilogram
- µg/L micrograms per liter
- µg/kg micrograms per kilogram

Appendix A

Historical Aerial Photographs

Appendix B

Summary of Information Regarding Occidental Site Chemistry Resulting from Past Shipyard Activities

Appendix C

Sample Collection and Analysis Tables

Appendix D

Bathymetric Plots

Appendix E

Regional Stratigraphic Logs

Appendix F

Site Stratigraphic Logs

Appendix G

Analytical Database e:Dat™

Appendix H

MVS/EVS Detailed and Simplified 3-D Stratigraphic Models

Appendix I

Simplified Stratigraphic Model Approach

Appendix J

Naturally Occurring Fresh Groundwater/Salt Water Distribution Evaluation

Appendix K

Groundwater Density Distribution

Appendix L

Evaluation of Site-Wide Hydraulic Data

Appendix M

Evaluation of 709-721 Alexander Avenue Hydraulic Data

Appendix N

Single-Well Response Tests Technical Memorandum

Appendix O

3-D Chemistry Visualization Models

Appendix P

List of Data Validation Reports

Appendix Q

Dioxin, Furan, and PCB Congener Data

Appendix R

Vapor Investigation Report (May 2014)

Appendix S

DNAPL Assessment

Appendix T

Weston Cross-Sections Drawings

Appendix U

Natural Attenuation Evaluation

Appendix V

Exposure Pathway Assessment Report

Appendix W

University of Washington Report on Site-Specific Partition Coefficients of Heavy Metals