

A topographic map background with blue contour lines of varying thickness and a dashed blue line winding through the terrain. The map shows several peaks and valleys, with the dashed line following a path through the lower elevations.

Note: See separate electronic file for body of report.

APPENDIX A
Response to Ecology Comments on the
Draft Supplemental Upland Data Collection
Technical Memorandum, dated August 2, 2011

APPENDIX A

Response to Washington State Department of Ecology Comments (dated August 2, 2011) on the Draft Supplemental Upland Data Collection Technical Memorandum for the Upland Portion of the Study Area (dated June 15, 2011)

General comment: For the most part, the data and conclusions presented in the Draft Supplemental Upland Data Collection Technical Memo appear to summarize and draw conclusions based on just the sampling and work done in this investigation. Since these samples were designed to fill data gaps, the conclusions in Volume I will be expected to draw conclusions based on all the available upland data.

Response to general comment: The conclusions in Volume I are based on all the available representative upland data. Section 6.1 provides a summary of the data that are included in the chemical analytical data evaluation presented in Volume I.

Comment 1: Section 2.2.2.2., page 6, second full paragraph: A boring log for GWG-7A is included in Appendix B, but no explanation for the additional boring is included here. The log shows two soil samples collected, but no results are included. Were these samples discarded? Why? The location of GWG-7A is not shown on Figure 2. Please include an explanation of boring 7A in the Volume I report.

Response to Comment 1: Boring GWG-7A was the initial attempt to complete boring GWG-7; it was drilled at the location proposed in the July 20, 2010 work plan (GeoEngineers, 2010). At a depth of approximately 10 feet below ground surface in the GWG-7A boring, the augers punctured an unmarked, 2- to 3-foot diameter fiberglass pipe, and silty/sandy water temporarily flowed up through the augers. The water was odorless. It was determined that the pipe was most likely a treated water effluent pipe associated with the mill's former wastewater treatment system, and the water that flowed into the augers was most likely rainwater or groundwater that had become trapped in the pipe under hydrostatic head. Boring GWG-7A was abandoned and backfilled with bentonite chips, and boring GWG-7 was then drilled. Soil samples and a groundwater grab sample were collected from the GWG-7 boring. No samples were submitted for analysis from GWG-7A.

Comment 2: Section 2.2.3.1, page 8, first full paragraph and Section 2.2.3.2, page 8, first paragraph: In section 2.2.3.1 it is stated that soil with apparent petroleum hydrocarbon staining was encountered in test pits TP-18 and TP-19. In section 2.2.3.2, which discusses contaminated soil removal, TP-19 is not included in the list of test pits with apparent petroleum staining. Please correct or explain this contradiction in the Volume I report.

Response to Comment 2: The text in Section 2.2.3.1 is correct – soil with apparent petroleum hydrocarbon staining was encountered in test pit TP-19. However, no visibly impacted soil was removed from TP-19 for off-site disposal because the soil staining in this test pit was less significant than in the other test pits identified in Section 2.2.3.2, and excavation of TP-19 was discontinued when stained soil was encountered.

Comment 3: Section 3.0, page 13, last sentence: This sentence states that method reporting limits (MRLs) exceeded screening levels in a small number of samples due to various reasons. Please include in the upcoming Volume I report, a table that lists these samples and the specific reason for each sample.

Response to Comment 3: The requested table is included in Appendix A of the Volume I report.

Comment 4: Section 3.1.2, page 14, third bullet: This bullet says that dioxins/furans were detected at concentrations slightly above the MRLs. In the Volume I, please also include what the specific MRLs were for these samples.

Response to Comment 4: A table listing the laboratory results and MRLs for the individual dioxin/furan congeners analyzed in the surface water samples collected from Ennis Creek and White Creek is included in Appendix A of the Volume I report. It should be noted that the original statement in the Technical Memorandum (that detections were slightly above MRLs) was correct for sample SW-1, but was incorrect for the other four samples (SW-2 through SW-5). The single congener (OCDD) detections in these samples were estimated concentrations (i.e., J-flagged data) between the method detection limit (MDL) and the MRL.

Comment 5: Section 3.1.2, page 15, last paragraph: This paragraph states that the surface water sample results “are considered to be representative of background concentrations in surface water in the Port Angeles area.” Ecology disagrees with this statement, at least when considering dioxins. We know that the historical mill operations (air emissions from the hog fuel boiler) did impact soils off-property in the area drained by Ennis and White Creeks. It is quite likely that at least some of the dioxins in the surface water samples are from the mill, and not general urban sources. Additional evaluation of congener profiles would be necessary to determine how much of the dioxin is from mill emissions versus urban sources.

Response to Comment 5: Comment noted. The referenced statement/conclusion has been omitted from the Volume I report.

Comment 6: Section 3.1.3, page 15, last bullet and Section 3.2.1.7, page 21, end of first partial paragraph: As Ecology does not agree that the surface water dioxin concentrations are representative of background conditions, then it would not be appropriate to assume that the similar concentrations in groundwater are also representative of background concentrations. See above comment.

Response to Comment 6: Comment noted. The referenced statement/conclusion has been omitted from the Volume I report.

Comment 7: Section 3.2.1.2, page 17, first paragraph: The last sentence refers to a “regulatory criterion protective of groundwater” of 350 ug/kg TEC. In the Volume I report, please include a discussion of how this value was derived.

Response to Comment 7: The “regulatory criterion protective of groundwater” refers to the soil concentration protective of groundwater as marine surface water, calculated using the MTCA fixed parameter three-phase partitioning model as described in Section 5.1.1 of the July 20, 2010 work plan (GeoEngineers, 2010). A discussion of the derivation of screening levels, including soil screening levels based on protection of groundwater, is included in Section 6.2 of the Volume I report.

Comment 8: Section 3.2.1.3, page 17, second paragraph: The discussion of MW-60 does not mention that the screen for this well was submerged based on measurements in November 2010 and February and May 2011. Wells that monitor for TPH should have screens that straddle the water table. This could have the potential to affect the representativeness of the results from this well. A discussion of this should be included in the Volume I report.

Response to Comment 8: Comment noted. The Volume I report does not include a discussion specific to TPH analytical results for well MW-60. Therefore, a discussion of well screen depth vs. water table depth also is not included in the Volume I report.

Comment 9: Section 3.2.1.4, page 18, next to last sentence: The statement is made that elevated PCB concentration in soil may act as localized sources of contamination to groundwater but not surface water. Please explain the logic here more fully. Surface water downgradient of GWG-4 and MW-66 had not been tested for PCBs.

Response to Comment 9: Comment noted. The last part of the referenced sentence (“...but not surface water.”) should not have been included in this sentence.

Comment 10: Section 3.2.1.6, page 19, paragraphs 2 and 3: The discussion concludes that certain results from MW-64 reflect a “site-specific background” for some metals. A site-specific background cannot be calculated from only one location (three samples). A conclusion is made, that with limited exceptions, these metals from MW-64 are “similar” to those in the majority of borings in the former mill operations areas. How was this calculation done? Was the average of three samples from MW-64 used? The highest result? How close is “similar”? Additional proof will have to be included in the Volume I report to establish “site-specific background” values.

Response to Comment 10: Comment noted. Well MW-64 is the southernmost exploration location in the Upland Study Area and is located in an area where no known pulp mill operations occurred. No field evidence of contamination was observed while drilling MW-64. No COPCs, other than metals, were detected in soil samples submitted for analysis from this location. Well MW-64 is hydraulically upgradient of the former mill operations. Based on these facts, it is our opinion that soil and groundwater samples from well MW-64 represent the best available “site-specific background” data for the Upland Study Area. Nevertheless, references to “site-specific background” have been omitted from the Volume I report.

The text comparing metals concentrations detected in soil at location MW-64 to the concentrations detected at boring locations in the former mill operations areas was intended to be a qualitative observation only, not a rigorous quantitative/statistical comparison. Similar qualitative comparisons of soil metals concentrations in former mill operations areas to concentrations at upgradient location MW-64 are included in the Volume I report.

Comment 11: Section 3.4.2, page 33: Please also include in the Volume I report a discussion of the vertical groundwater gradient.

Response to Comment 11: Estimates of vertical groundwater gradients are included in the Volume I report (Section 5.5).

Comment 12: Section 3.4.3, page 34, bullet 3, last sentence: It is presumptuous to make conclusions about groundwater background concentration in the Port Angeles area based on samples from within the Rayonier Study Area. Suggestions like this should not be made without some evidence from outside the study area.

Response to Comment 12: Comment noted. No such conclusions appear in the Volume I report.

Comment 13: Section 4.0, page 40, third bullet from end: This bullet says that further evaluation and discussion of the groundwater to surface water pathway for metals will be presented in Volume I. Please include in the Volume I report a discussion of groundwater chemistry and the potential for selected parameters (for example reducing conditions) to enhance metals mobility at the Site.

Response to Comment 13: A discussion of groundwater chemistry and the potential for selected parameters to enhance metals mobility is included in Section 8.0 (Fate and Transport of Constituents of Potential Concern) of the Volume I report.

Comment 14: Figures 3 – 6: For the Volume I report, please add the general tide measurement to the figures.

Response to Comment 14: The general tidal range is shown on the groundwater potentiometric maps in the Volume I report.

Groundwater Samples

Groundwater Samples with MRLs Exceeding Screening Levels

Port Angeles Rayonier Mill 2010-2011 Supplemental Upland Investigation

Sample ID	chemical_name	Result	Screening Level	target_unit	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	Comment
DUP-082610	gamma-Chlordane	0.011	0.00083	UG/L	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
MW-23_100825	Total PCBs (sum of Aroclors)	0.025	0.01	UG/L	UV	UI	UIV	Matrix interference observed in at least one of the Aroclors in the summation
MW-28_100825	gamma-Chlordane	0.027	0.00083	UG/L	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
MW-29_100825	gamma-Chlordane	0.018	0.00083	UG/L	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
MW-51_100826	gamma-Chlordane	0.048	0.00083	UG/L	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
MW-52_100825	gamma-Chlordane	0.0037	0.00083	UG/L	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
MW-53_100826	gamma-Chlordane	0.0069	0.00083	UG/L	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
MW-54_100826	Arsenic	0.01	0.005	mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-54_100826	Lead	0.02	0.0081	mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-54_100826	Silver	0.004	0.0019	mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-54_100826	Thallium	0.004	0.00047	mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-55_100826	Arsenic	0.01	0.005	mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-55_100826	Lead	0.02	0.0081	mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-55_100826	Silver	0.004	0.0019	mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-55_100826	Thallium	0.004	0.00047	mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-56_100826	Lead	0.02	0.0081	mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-56_100826	Silver	0.004	0.0019	mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-56_100826	Thallium	0.004	0.00047	mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-56_100826	Aldrin	0.019	0.00083	UG/L	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
MW-56_100826	Heptachlor	0.024	0.00083	UG/L	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
MW-56_100826	Total PCBs (sum of Aroclors)	0.025	0.01	UG/L	UV	UI	UIV	Matrix interference observed in at least one of the Aroclors in the summation
MW-57_100826	gamma-Chlordane	0.0076	0.00083	UG/L	Y	UIJ	UIJ	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
MW-58_100827	gamma-Chlordane	0.016	0.00083	UG/L	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
MW-59_100827	gamma-Chlordane	0.0053	0.00083	UG/L	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
PZ-10_100826	gamma-Chlordane	0.017	0.00083	UG/L	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
PZ-2_100825	Heptachlor Epoxide	0.0013	0.00083	UG/L	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
PZ-3_100826	gamma-Chlordane	0.016	0.00083	UG/L	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
PZ-9_100826	gamma-Chlordane	0.012	0.00083	UG/L	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
GWG-1-W	Mercury	0.0004	2.5E-05	mg/l	U	UI	UI	Dilution required prior to extraction/analysis
GWG-1-W	4,4'-DDT	0.0024	0.0017	UG/L	Y	UIJ	UIJ	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
GWG-1-W	Aldrin	0.0028	0.00083	UG/L	Y	UIJ	UIJ	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
GWG-1-W	Heptachlor	0.0014	0.00083	UG/L	Y	UIJ	UIJ	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
GWG-1-W	Heptachlor Epoxide	0.0012	0.00083	UG/L	Y	UIJ	UIJ	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
GWG-1-W	Acrylonitrile	5	1	UG/L	U	UI	UI	Dilution required prior to extraction/analysis
GWG-1-W	Tetrachloroethylene	1	0.39	UG/L	U	UI	UI	Dilution required prior to extraction/analysis
MW-60_101111	Copper	0.0074	0.0024	mg/l	U	U	U	MRL elevated due to blank contamination
PIPE-1-SR23	Mercury	0.0002	2.5E-05	mg/l	U	UI	UI	Dilution required prior to extraction/analysis
PIPE-1-SR23	Acrylonitrile	20	1	UG/L	U	UI	UI	Dilution required prior to extraction/analysis
PIPE-1-SR23	Tetrachloroethylene	4	0.39	UG/L	U	UI	UI	Dilution required prior to extraction/analysis
PIPE-1-SR23	Vinyl chloride	4	2.4	UG/L	U	UI	UI	Dilution required prior to extraction/analysis
MW-66-110311-W	Mercury	0.00008	2.5E-05	mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-54_110210	Lead	0.01	0.0081	mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-55_110210	Lead	0.01	0.0081	mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-56_110211	Heptachlor	0.011	0.00083	UG/L	Y	UIJ	UIJ	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
PA-19_110209	alpha-Chlordane	0.0029	0.00083	UG/L	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph

Groundwater Samples

PA-19_110209D	alpha-Chlordane	0.0021	0.00083 UG/L	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
MW-54-110518	Copper	0.005	0.0024 mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-54_101111	Lead	0.01	0.0081 mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-55_101108	Copper	0.008	0.0024 mg/l		U	U	MRL elevated due to blank contamination
MW-55_101108	Lead	0.01	0.0081 mg/l	U	UI	UI	Dilution required prior to extraction/analysis
MW-55_101108	Manganese	0.18	0.100000005 mg/l		U	U	MRL elevated due to blank contamination
MW-57_101108	Copper	0.0061	0.0024 mg/l		U	U	MRL elevated due to blank contamination
MW-58_101111	Copper	0.0033	0.0024 mg/l		U	U	MRL elevated due to blank contamination
PA-15_101109	Copper	0.005	0.0024 mg/l		U	U	MRL elevated due to blank contamination
PA-19_101111	Copper	0.0059	0.0024 mg/l		U	U	MRL elevated due to blank contamination
PZ-9_101110	Mercury	0.0004	2.5E-05 mg/l	U	UI	UI	Dilution required prior to extraction/analysis

Soil Samples

Soil Samples with MRLs Exceeding Screening Levels

Port Angeles Rayonier Mill 2010-2011 Supplemental Upland Investigation

Sample ID	chemical_name	Result	Screening Level	target_unit	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	Comment
DUPE1-102110	4,4'-DDD	0.0096	0.002	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	4,4'-DDE	0.0096	0.002	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	4,4'-DDT	0.0096	0.003	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	Aldrin	0.0048	0.001	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	alpha-BHC	0.0048	0.001	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	alpha-Chlordane	0.0048	0.001	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	beta-BHC	0.0048	0.001	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	Dieldrin	0.0096	0.002	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	Endosulfan I	0.0048	0.0012	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	Endosulfan II	0.0096	0.002	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	Endosulfan Sulfate	0.0096	0.002	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	Endrin	0.0096	0.002	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	Endrin Aldehyde	0.0096	0.002	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	Endrin Ketone	0.0096	0.002	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	gamma-BHC (Lindane)	0.0048	0.0012	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	Heptachlor	0.0048	0.001	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	Heptachlor Epoxide	0.0048	0.001	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	Hexachlorobenzene	0.0048	0.001	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	Toxaphene	0.48	0.1	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	2,4-Dinitrotoluene	320	100	ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	2,4-Dinitrotoluene	290	100	ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	3,3'-Dichlorobenzidine	320	100	ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	3,3'-Dichlorobenzidine	290	100	ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	bis(2-Chloroethyl)ether	64	20	ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE1-102110	bis(2-Chloroethyl)ether	58	20	ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE2-102510	1,4-Dichlorobenzene	91	80	ug/kg	B	U	U	MRL elevated due to blank contamination
DUPE2-102510	1,4-Dichlorobenzene	91	80	ug/kg	B	U	U	MRL elevated due to blank contamination
DUPE2-102510	2,4-Dinitrotoluene	220	100	ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE2-102510	3,3'-Dichlorobenzidine	220	100	ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
DUPE2-102510	bis(2-Chloroethyl)ether	43	20	ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-4-8-9.5	Dieldrin	0.0048	0.002	mg/kg	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
GWG-4-8-9.5	Heptachlor Epoxide	0.0031	0.001	mg/kg	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
GWG-4-8-9.5	Toxaphene	0.16	0.1	mg/kg	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
GWG-5-2-3.5	4,4'-DDD	0.0097	0.002	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-2-3.5	4,4'-DDE	0.0097	0.002	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-2-3.5	4,4'-DDT	0.0097	0.003	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-2-3.5	Aldrin	0.0048	0.001	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-2-3.5	alpha-BHC	0.0048	0.001	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-2-3.5	alpha-Chlordane	0.0069	0.001	mg/kg	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
GWG-5-2-3.5	beta-BHC	0.0048	0.001	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-2-3.5	Dieldrin	0.0097	0.002	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-2-3.5	Endosulfan I	0.0048	0.0012	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-2-3.5	Endosulfan II	0.0097	0.002	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-2-3.5	Endosulfan Sulfate	0.0097	0.002	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-2-3.5	Endrin	0.0097	0.002	mg/kg	U	UI	UI	Dilution required prior to extraction/analysis

Soil Samples

GWG-5-2-3.5	Endrin Aldehyde	0.0097	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-2-3.5	Endrin Ketone	0.0097	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-2-3.5	gamma-BHC (Lindane)	0.0048	0.0012 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-2-3.5	Heptachlor	0.0048	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-2-3.5	Heptachlor Epoxide	0.0048	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-2-3.5	Hexachlorobenzene	0.0048	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-2-3.5	Toxaphene	0.48	0.1 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	4,4'-DDD	0.0098	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	4,4'-DDE	0.0098	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	4,4'-DDT	0.0098	0.003 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	Aldrin	0.0049	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	alpha-BHC	0.0049	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	alpha-Chlordane	0.0049	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	beta-BHC	0.0049	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	Dieldrin	0.0098	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	Endosulfan I	0.0049	0.0012 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	Endosulfan II	0.0098	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	Endosulfan Sulfate	0.0098	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	Endrin	0.0098	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	Endrin Aldehyde	0.0098	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	Endrin Ketone	0.0098	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	gamma-BHC (Lindane)	0.0049	0.0012 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	Heptachlor	0.0049	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	Heptachlor Epoxide	0.0049	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	Hexachlorobenzene	0.0049	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	Methoxychlor	0.049	0.048 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	Toxaphene	0.49	0.1 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	2,4-Dinitrotoluene	300	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	3,3'-Dichlorobenzidine	300	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5-5-6.5	bis(2-Chloroethyl)ether	59	20 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5A-5-6.5	Cadmium	4	1.2 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5A-5-6.5	Silver	1	0.61 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5A-5-6.5	Thallium	1	0.66928 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
GWG-5A-5-6.5	Selenium	1	0.78 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
MW-60-10-11.5	Total PCBs (sum of Aroclors)	0.025	0.004 mg/kg	UV	UI	UIV	Matrix interference observed in at least one of the Aroclors in the summation
MW-60-10-11.5	1,4-Dichlorobenzene	570	80 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
MW-60-10-11.5	1,4-Dichlorobenzene	570	80 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
MW-60-10-11.5	2,4-Dinitrotoluene	2800	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
MW-60-10-11.5	3,3'-Dichlorobenzidine	2800	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
MW-60-10-11.5	Bis(2-chloro-1-methylethyl) ether	570	209.540324 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
MW-60-10-11.5	bis(2-Chloroethyl)ether	570	20 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
MW-60-10-11.5	Hexachloroethane	570	130 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
MW-60-10-11.5	N-Nitroso-di-n-propylamine	570	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
MW-60-10-11.5	N-Nitrosodiphenylamine	570	180 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
MW-60-15-16.5	2,4-Dinitrotoluene	290	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
MW-60-15-16.5	3,3'-Dichlorobenzidine	290	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
MW-60-15-16.5	bis(2-Chloroethyl)ether	59	20 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
MW-60-2-3.5	2,4-Dinitrotoluene	300	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
MW-60-2-3.5	3,3'-Dichlorobenzidine	300	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis

Soil Samples

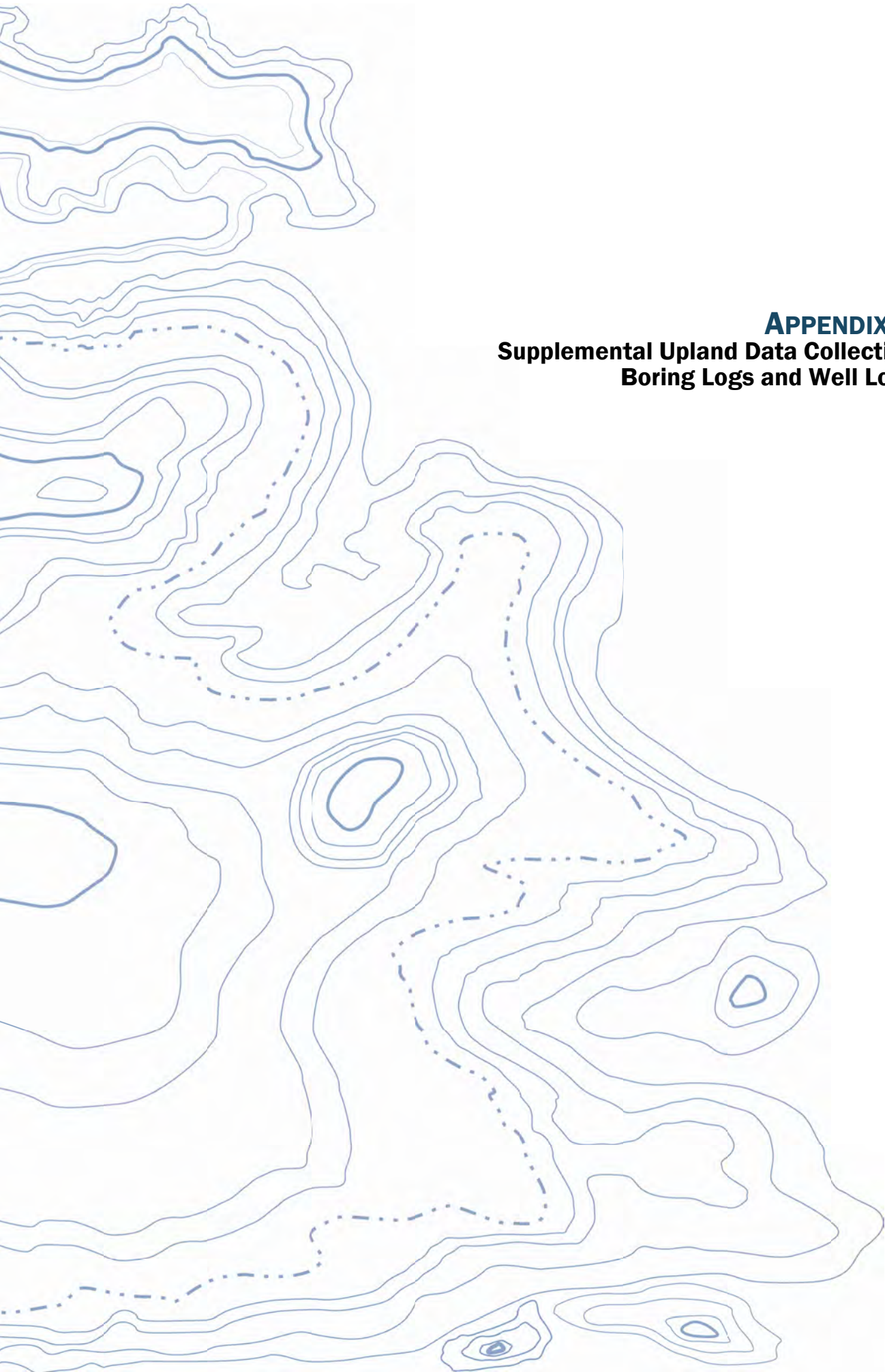
MW-60-2-3.5	bis(2-Chloroethyl)ether	59	20 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-10-11.5	2,4-Dinitrotoluene	130	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-10-11.5	3,3'-Dichlorobenzidine	130	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-10-11.5	bis(2-Chloroethyl)ether	27	20 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	4,4'-DDD	0.0096	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	4,4'-DDE	0.0096	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	4,4'-DDT	0.0096	0.003 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	Aldrin	0.0048	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	alpha-BHC	0.0048	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	alpha-Chlordane	0.0048	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	beta-BHC	0.0048	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	Dieldrin	0.0096	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	Endosulfan I	0.0048	0.0012 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	Endosulfan II	0.0096	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	Endosulfan Sulfate	0.0096	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	Endrin	0.0096	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	Endrin Aldehyde	0.0096	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	Endrin Ketone	0.0096	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	gamma-BHC (Lindane)	0.0048	0.0012 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	Heptachlor	0.0048	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	Heptachlor Epoxide	0.0048	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	Hexachlorobenzene	0.0048	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	Toxaphene	0.48	0.1 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	2,4-Dinitrotoluene	330	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	3,3'-Dichlorobenzidine	330	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-1-7-8.5	bis(2-Chloroethyl)ether	66	20 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	4,4'-DDD	0.0099	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	4,4'-DDE	0.0099	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	4,4'-DDT	0.0099	0.003 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	Aldrin	0.005	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	alpha-BHC	0.005	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	alpha-Chlordane	0.005	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	beta-BHC	0.005	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	Dieldrin	0.0099	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	Endosulfan I	0.005	0.0012 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	Endosulfan II	0.0099	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	Endosulfan Sulfate	0.0099	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	Endrin	0.0099	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	Endrin Aldehyde	0.0099	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	Endrin Ketone	0.0099	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	gamma-BHC (Lindane)	0.005	0.0012 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	Heptachlor	0.005	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	Heptachlor Epoxide	0.005	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	Hexachlorobenzene	0.005	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	Methoxychlor	0.05	0.048 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	Toxaphene	0.5	0.1 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	2,4-Dinitrotoluene	320	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	2,4-Dinitrotoluene	300	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	3,3'-Dichlorobenzidine	320	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis

Soil Samples

SSB-2-2-3.5	3,3'-Dichlorobenzidine	300	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	bis(2-Chloroethyl)ether	60	20 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-2-3.5	bis(2-Chloroethyl)ether	63	20 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-5-6.5	Cadmium	2	1.2 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-2-5-6.5	Selenium	0.8	0.78 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-3-2-3.5	2,4-Dinitrotoluene	300	100 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
SSB-3-2-3.5	3,3'-Dichlorobenzidine	300	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-3-2-3.5	bis(2-Chloroethyl)ether	59	20 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-6-10-11.5	Hexachlorobenzene	0.0022	0.001 mg/kg	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
SSB-6-5-6.5	4,4'-DDE	0.0034	0.002 mg/kg	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
SSB-6-5-6.5	Heptachlor Epoxide	0.0038	0.001 mg/kg	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
SSB-7-2-3.5	4,4'-DDD	0.0098	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	4,4'-DDE	0.0098	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	4,4'-DDT	0.0098	0.003 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	Aldrin	0.0049	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	alpha-BHC	0.0049	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	alpha-Chlordane	0.0049	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	beta-BHC	0.0049	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	Dieldrin	0.0098	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	Endosulfan I	0.0049	0.0012 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	Endosulfan II	0.0098	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	Endosulfan Sulfate	0.0098	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	Endrin	0.0098	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	Endrin Aldehyde	0.0098	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	Endrin Ketone	0.0098	0.002 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	gamma-BHC (Lindane)	0.0049	0.0012 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	Heptachlor	0.0049	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	Heptachlor Epoxide	0.0049	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	Hexachlorobenzene	0.0049	0.001 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	Methoxychlor	0.049	0.048 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-7-2-3.5	Toxaphene	0.49	0.1 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
SSB-8-5-6.5	Cadmium	2	1.2 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-02-8'	1,4-Dichlorobenzene	180	80 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
TP-02-8'	1,4-Dichlorobenzene	180	80 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
TP-02-8'	2,4-Dinitrotoluene	910	100 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
TP-02-8'	3,3'-Dichlorobenzidine	910	100 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
TP-02-8'	bis(2-Chloroethyl)ether	180	20 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
TP-02-8'	Hexachloroethane	180	130 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
TP-02-8'	N-Nitroso-di-n-propylamine	180	100 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
TP-03-7'	2,4-Dinitrotoluene	190	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-03-7'	3,3'-Dichlorobenzidine	190	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-03-7'	bis(2-Chloroethyl)ether	38	20 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-07-6'	Cadmium	2	1.2 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-07-6'	Total PCBs (sum of Aroclors)	0.012	0.004 mg/kg	UV	UI	UIV	Matrix interference observed in at least one of the Aroclors in the summation
TP-07-6'	Selenium	0.8	0.78 mg/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-11-5'	2,4-Dinitrotoluene	360	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-11-5'	3,3'-Dichlorobenzidine	360	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-11-5'	bis(2-Chloroethyl)ether	72	20 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-12-2'	2,4-Dinitrotoluene	340	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis

Soil Samples

TP-12-2'	3,3'-Dichlorobenzidine	340	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-12-2'	bis(2-Chloroethyl)ether	67	20 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-12-2'	Pentachlorophenol	53	48 ug/kg	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
TP-12-4'	2,4-Dinitrotoluene	310	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-12-4'	3,3'-Dichlorobenzidine	310	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-12-4'	bis(2-Chloroethyl)ether	62	20 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-14-3'	2,4-Dinitrotoluene	320	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-14-3'	3,3'-Dichlorobenzidine	320	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-14-3'	bis(2-Chloroethyl)ether	65	20 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-15-2'	1,4-Dichlorobenzene	85	80 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-15-2'	1,4-Dichlorobenzene	85	80 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-15-2'	2,4-Dinitrotoluene	420	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-15-2'	3,3'-Dichlorobenzidine	420	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-15-2'	bis(2-Chloroethyl)ether	85	20 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-15-2'	Pentachlorophenol	52	48 ug/kg	Y	UI	UI	Matrix interference observed, MRL was elevated to avoid ambiguous chromatograph
TP-DUPE-1	1,4-Dichlorobenzene	550	80 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
TP-DUPE-1	1,4-Dichlorobenzene	550	80 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
TP-DUPE-1	2,4-Dinitrotoluene	2800	100 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
TP-DUPE-1	3,3'-Dichlorobenzidine	2800	100 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
TP-DUPE-1	Bis(2-chloro-1-methylethyl) ether	550	209.540324 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
TP-DUPE-1	bis(2-Chloroethyl)ether	550	20 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
TP-DUPE-1	Hexachloroethane	550	130 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
TP-DUPE-1	N-Nitroso-di-n-propylamine	550	100 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
TP-DUPE-1	N-Nitrosodiphenylamine	550	180 ug/kg	U	UIJ	UIJ	Dilution required prior to extraction/analysis
TP-DUPE-3	2,4-Dinitrotoluene	330	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-DUPE-3	3,3'-Dichlorobenzidine	330	100 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis
TP-DUPE-3	bis(2-Chloroethyl)ether	67	20 ug/kg	U	UI	UI	Dilution required prior to extraction/analysis



APPENDIX B
Supplemental Upland Data Collection
Boring Logs and Well Logs

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS <small>(LITTLE OR NO FINES)</small>		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		SAND AND SANDY SOILS		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		SW	WELL-GRADED SANDS, GRAVELLY SANDS
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SP	POORLY-GRADED SANDS, GRAVELLY SAND
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SM	SILTY SANDS, SAND - SILT MIXTURES
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
		LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		LIQUID LIMIT LESS THAN 50		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
		LIQUID LIMIT GREATER THAN 50		CH	INORGANIC CLAYS OF HIGH PLASTICITY
		LIQUID LIMIT GREATER THAN 50		OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

Sampler Symbol Descriptions

	2.4-inch I.D. split barrel
	Standard Penetration Test (SPT)
	Shelby tube
	Piston
	Direct-Push
	Bulk or grab

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

A "P" indicates sampler pushed using the weight of the drill rig.

ADDITIONAL MATERIAL SYMBOLS

SYMBOLS		TYPICAL DESCRIPTIONS
GRAPH	LETTER	
	CC	Cement Concrete
	AC	Asphalt Concrete
	CR	Crushed Rock/Quarry Spalls
	TS	Topsoil/Forest Duff/Sod



Measured groundwater level in exploration, well, or piezometer



Groundwater observed at time of exploration



Perched water observed at time of exploration



Measured free product in well or piezometer

Graphic Log Contact



Distinct contact between soil strata or geologic units



Approximate location of soil strata change within a geologic soil unit

Material Description Contact



Distinct contact between soil strata or geologic units



Approximate location of soil strata change within a geologic soil unit

Laboratory / Field Tests

%F	Percent fines
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
OC	Organic content
PM	Permeability or hydraulic conductivity
PP	Pocket penetrometer
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

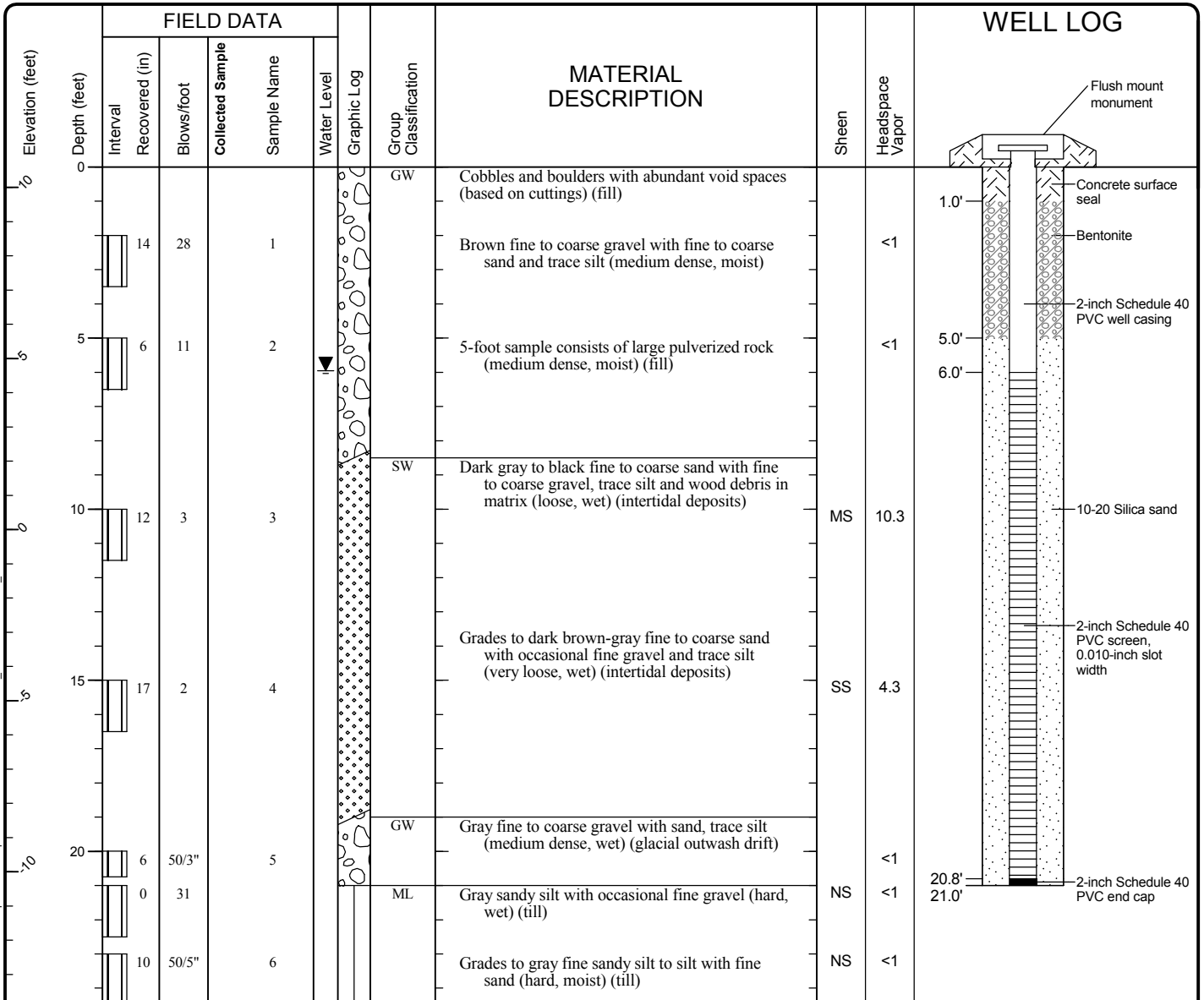
Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen
NT	Not Tested

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

KEY TO EXPLORATION LOGS

Drilled	Start 10/19/2010	End 10/19/2010	Total Depth (ft)	24.4	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger	
Hammer Data	Wireline 300 (lbs) / 30 (in) Drop		Drilling Equipment		Mobile B59		Licensing agency well number: BAM 433 A 2 (in) well was installed on 10/19/2010 to a depth of 21 (ft).				
Surface Elevation (ft)		10.6		Top of Casing Elevation (ft)		10.1		<u>Groundwater</u>			
Vertical Datum		NGVD29		<u>Date Measured</u>			11/12/2010		Depth to Water (ft)		Elevation (ft)
Easting (X)		1011053		Horizontal Datum		NAD83		5.96		4.15	
Northing (Y)		417636									
Notes: Auger Data: 4¼-inch I.D.											



Note: Please see Figure B-1 for explanation of symbols

Log of Monitoring Well MW-60

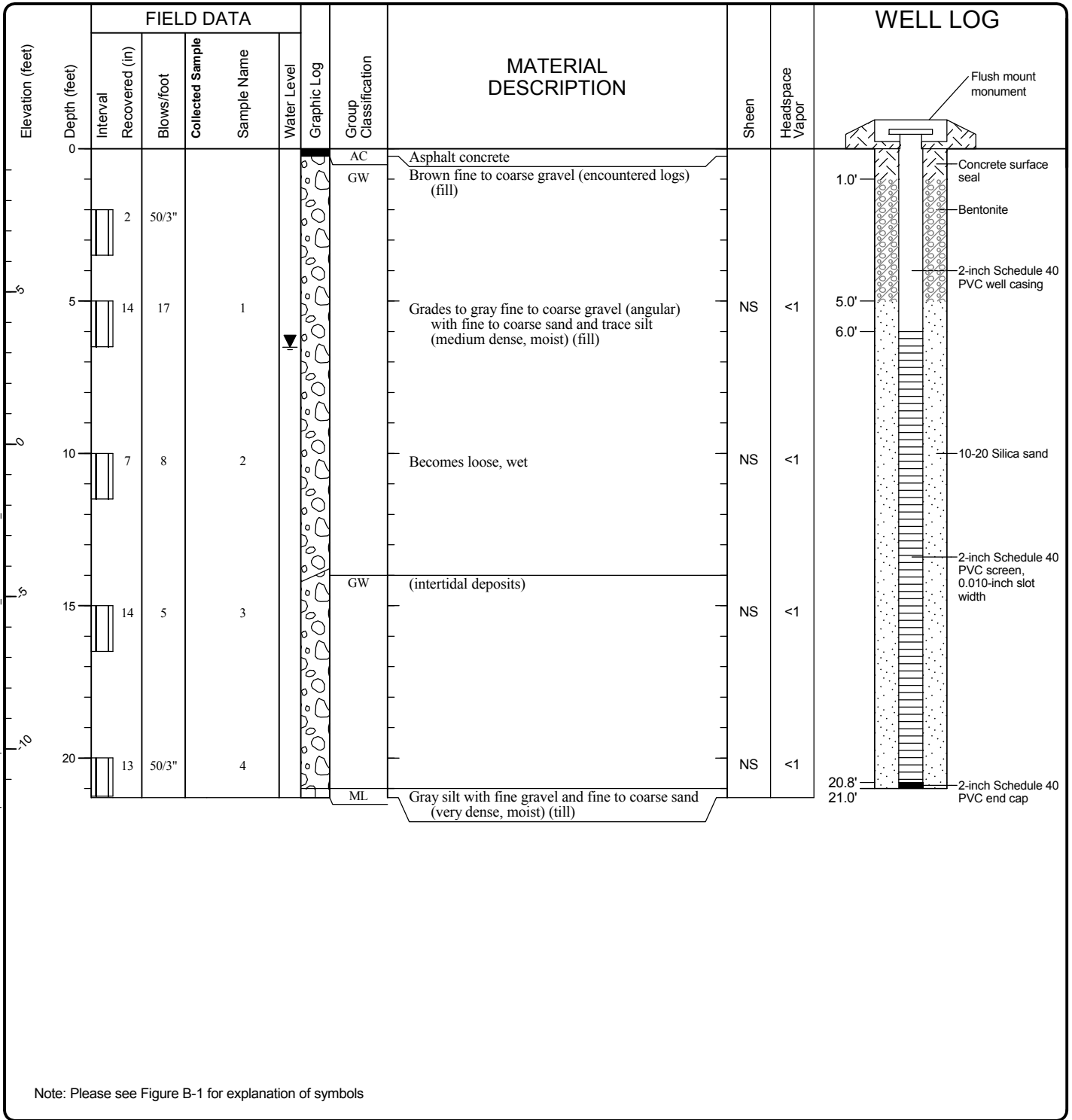


Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-2
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 ALL.GPJ DBT Template\lib\template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_WELL

Drilled	Start 10/19/2010	End 10/19/2010	Total Depth (ft)	21.3	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger
Hammer Data	Wireline 300 (lbs) / 30 (in) Drop		Drilling Equipment		Mobile B59		Licensing agency well number: BAM 432 A 2 (in) well was installed on 10/19/2010 to a depth of 21 (ft).			
Surface Elevation (ft)		9.7		Top of Casing Elevation (ft)		9.5		<u>Groundwater</u>		
Vertical Datum		NGVD29		Horizontal Datum		NAD83		<u>Date Measured</u>	<u>Depth to Water (ft)</u>	<u>Elevation (ft)</u>
Easting (X)		1010873		Horizontal Datum		NAD83		11/12/2010	6.52	2.98
Northing (Y)		417720		Horizontal Datum		NAD83				
Notes: Auger Data: 4¼-inch I.D.										



Note: Please see Figure B-1 for explanation of symbols

Log of Monitoring Well MW-61

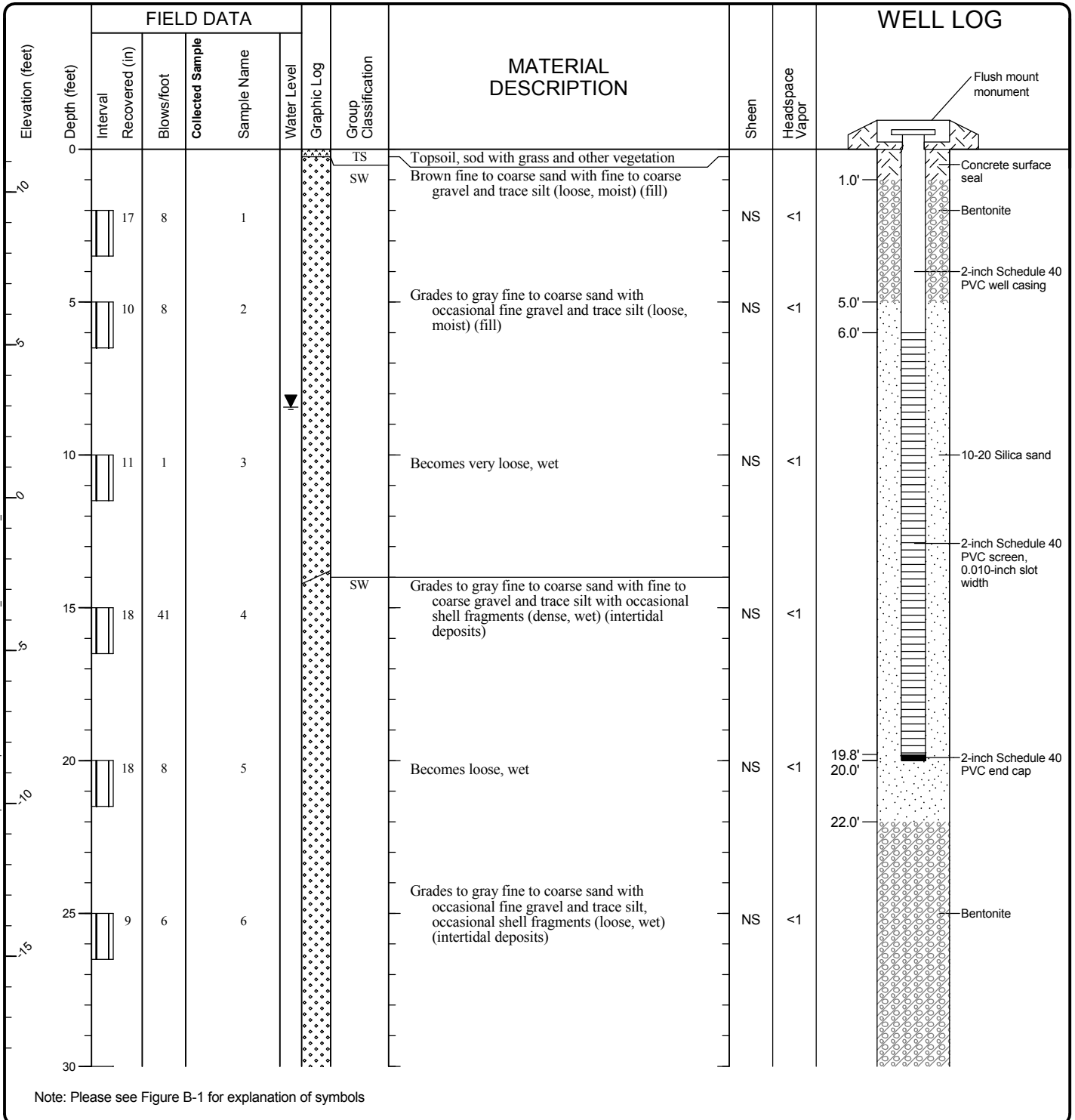


Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-3
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 ALL.GPJ DBT Template: \lib\template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_WELL

Drilled	Start 10/20/2010	End 10/20/2010	Total Depth (ft)	51	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger
Hammer Data	Wireline 300 (lbs) / 30 (in) Drop		Drilling Equipment		Mobile B59		Licensing agency well number: BAM 434 A 2 (in) well was installed on 10/20/2010 to a depth of 20 (ft).			
Surface Elevation (ft)		11.4		Top of Casing Elevation (ft)		10.9		Groundwater		
Vertical Datum		NGVD29		Horizontal Datum		NAD83		Date Measured	Depth to Water (ft)	Elevation (ft)
Easting (X)		1012203		Horizontal Datum		NAD83		11/12/2010	8.44	2.46
Northing (Y)		418060		Horizontal Datum		NAD83				
Notes: Auger Data: 4¼-inch I.D.										



Log of Monitoring Well MW-62



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-4
 Sheet 1 of 2

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 ALL.GPJ DBTTemplate\lib\Template:GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_WELL

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Elevation (feet)	FIELD DATA						Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	WELL LOG
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name	Water Level					
30	18	36		7		GW-GM	Gray fine to coarse gravel with fine to coarse sand with silt, trace shell fragments (dense, wet) (intertidal deposits)	NS	<1		
35	18	75		8			Becomes very dense, wet	NS	<1		
40	6	50/6"		9			Shell fragments no longer present	NS	<1		
45	10	19		10			Becomes medium dense, wet	NS	<1		
50	0	50/3"									

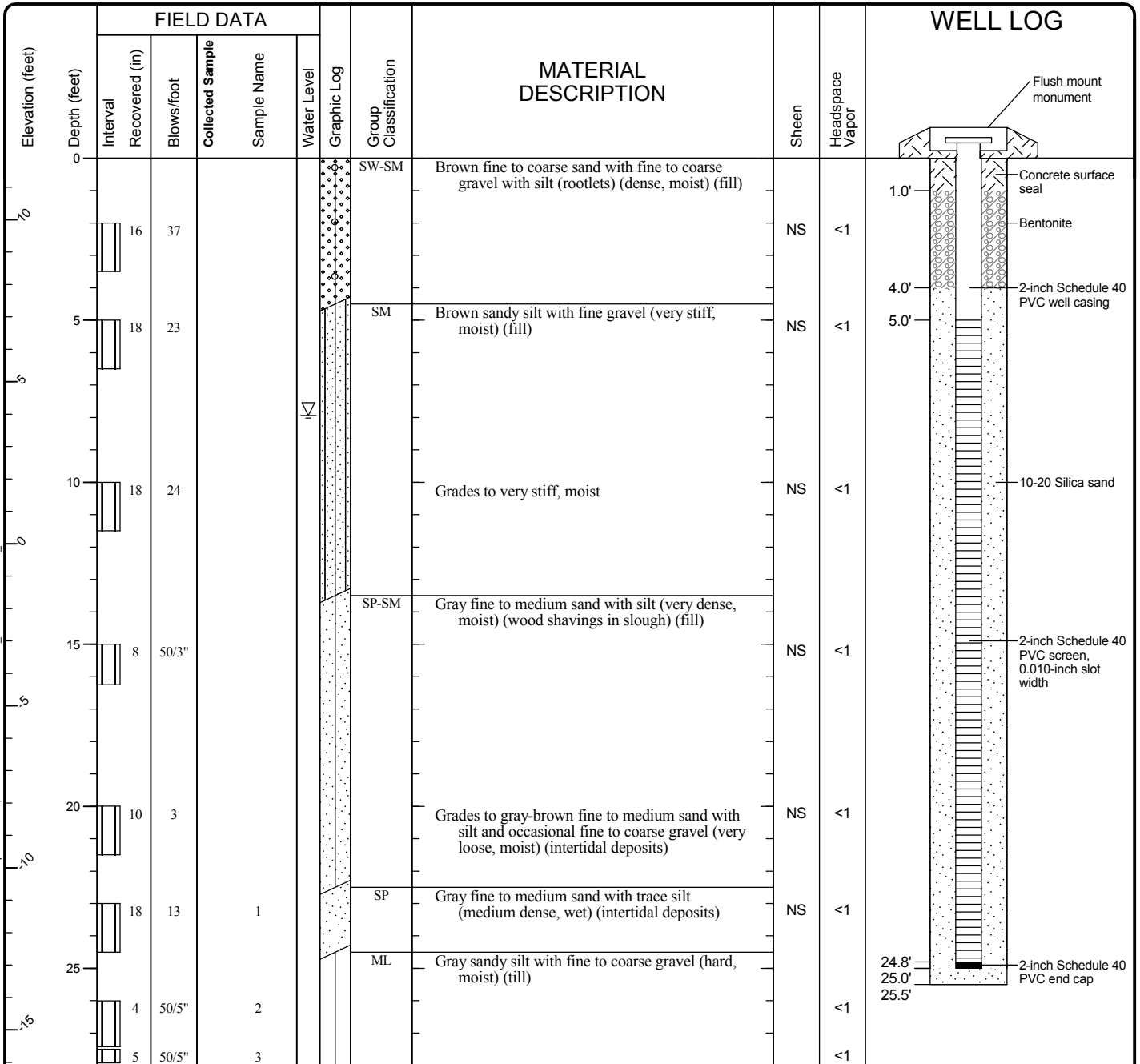
Note: Please see Figure B-1 for explanation of symbols

Log of Monitoring Well MW-62 (continued)



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Drilled	Start 10/21/2010	End 10/21/2010	Total Depth (ft)	28	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger
Hammer Data	Wireline 300 (lbs) / 30 (in) Drop		Drilling Equipment		Mobile B59		Licensing agency well number: BAM 435 A 2 (in) well was installed on 10/21/2010 to a depth of 25 (ft).			
Surface Elevation (ft)		11.9		Top of Casing Elevation (ft)		11.5		Groundwater Date Measured		
Vertical Datum		NGVD29		Horizontal Datum		NAD83		Depth to Water (ft)		
Easting (X)		1011165		Horizontal Datum		NAD83		Elevation (ft)		
Northing (Y)		417728						11/12/2010		
								7.94		
								3.60		
Notes: Auger Data: 4¼-inch I.D.										



Note: Please see Figure B-1 for explanation of symbols

Log of Monitoring Well MW-63

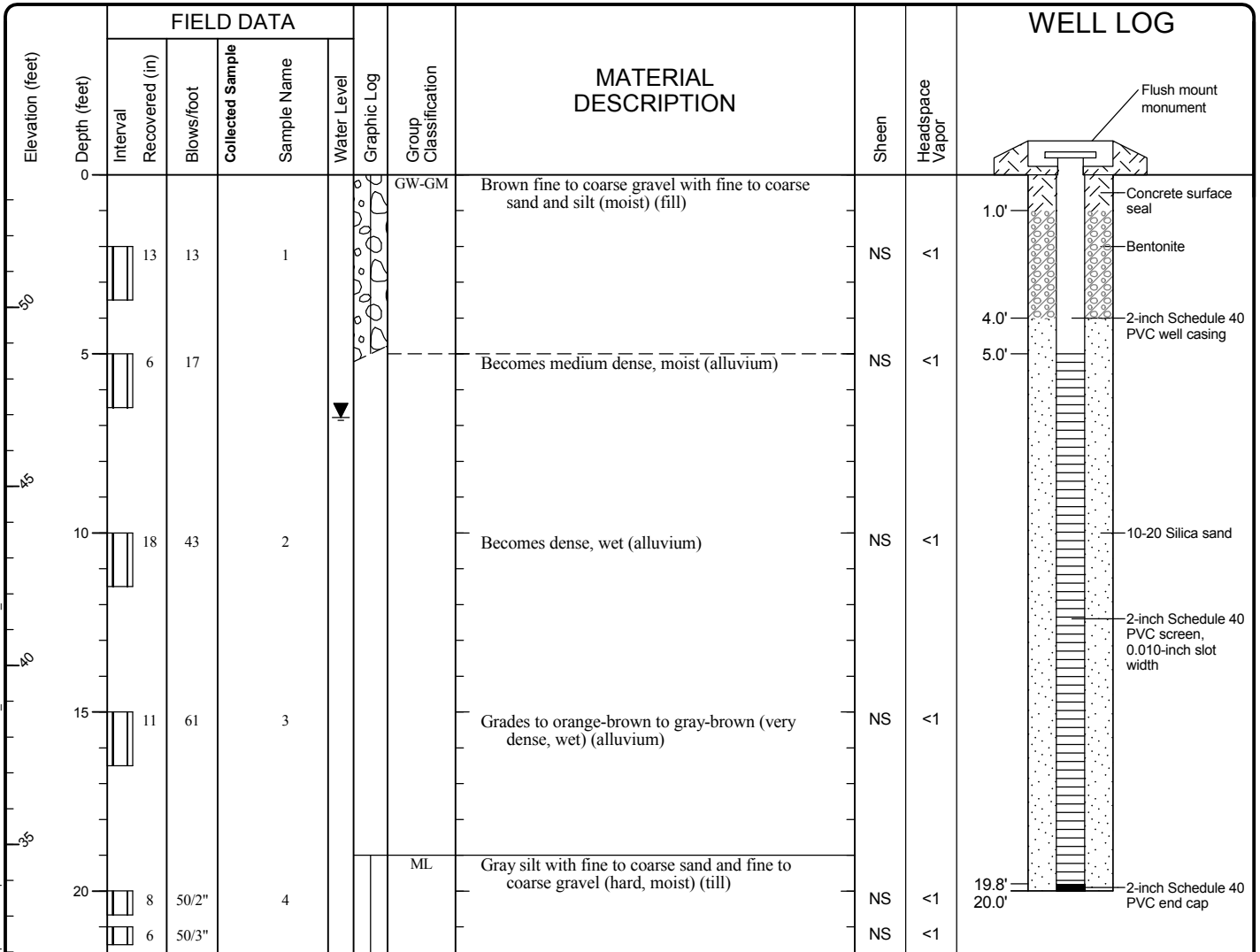


Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-5
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 ALL.GPJ DBT Template\lib\template\GEOENGINEERS\GDT\GEIG_ENVIRONMENTAL_WELL

Drilled	<u>Start</u> 10/18/2010	<u>End</u> 10/18/2010	Total Depth (ft)	21.75	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger
Hammer Data	Wireline 300 (lbs) / 30 (in) Drop		Drilling Equipment		Mobile B59		Licensing agency well number: BAM 431 A 2 (in) well was installed on 10/18/2010 to a depth of 20 (ft).			
Surface Elevation (ft)	53.7		Top of Casing Elevation (ft)		53.0		<u>Groundwater</u>			
Vertical Datum	NGVD29						<u>Date Measured</u>	<u>Depth to Water (ft)</u>	<u>Elevation (ft)</u>	
Easting (X)	1012869		Horizontal Datum		NAD83		11/12/2010	6.78	46.18	
Northing (Y)	415231									
Notes: Auger Data: 4¼-inch I.D.										



Note: Please see Figure B-1 for explanation of symbols

Log of Monitoring Well MW-64

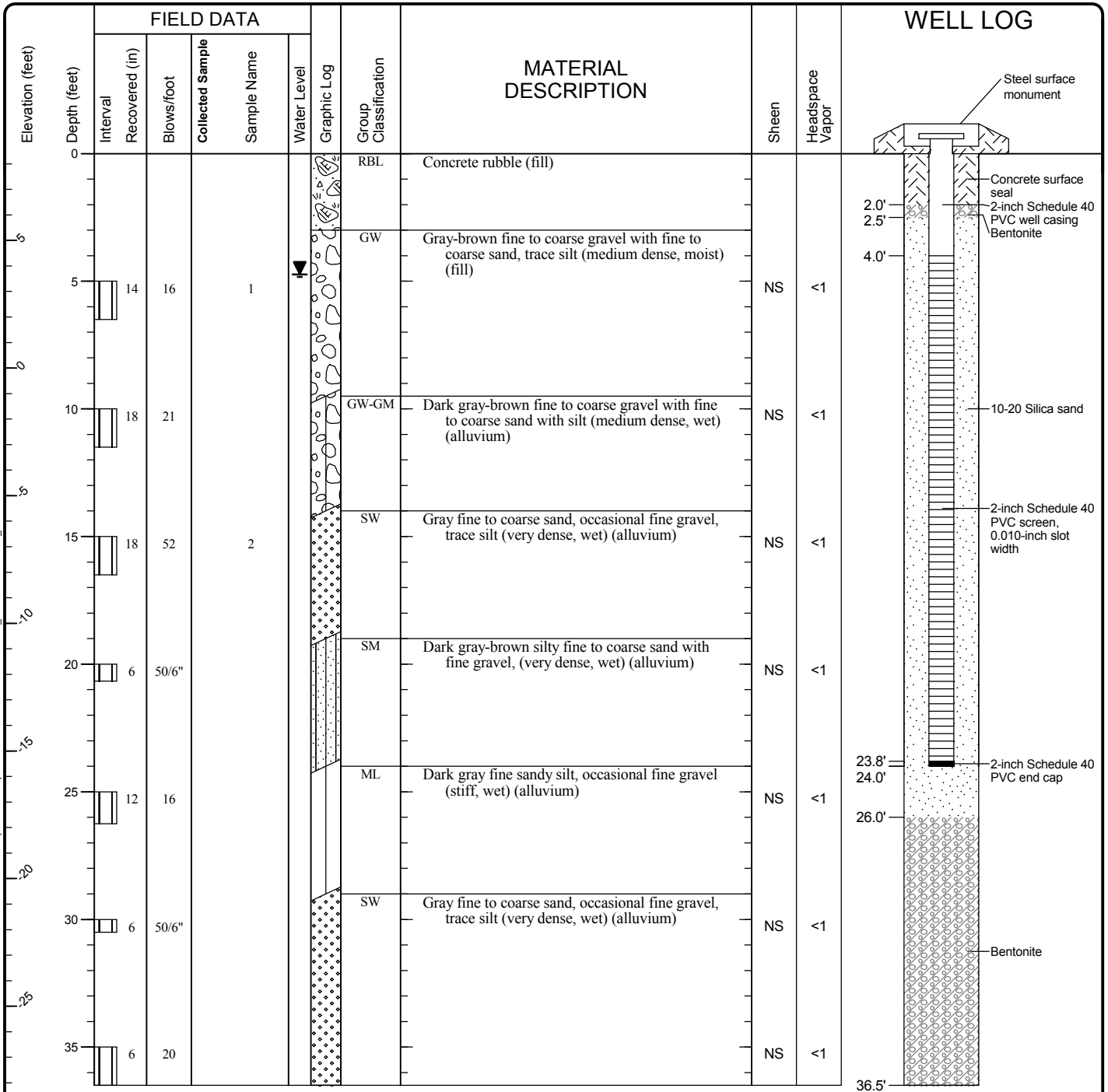


Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-6
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\0137015003\GINT\013701503 ALL.GPJ DBT Template\lib\TEMPLATE\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_WELL

Drilled	<u>Start</u> 3/10/2011	<u>End</u> 3/10/2011	Total Depth (ft)	36.5	Logged By Checked By	AMW RCL	Driller	Cascade Drilling	Drilling Method	Hollow Stem Auger
Hammer Data	Wireline 300 (lbs) / 30 (in) Drop		Drilling Equipment		CME 75		Licensing agency well number: BHB 103 A 2 (in) well was installed on 3/10/2011 to a depth of 24 (ft).			
Surface Elevation (ft)		8.4		Top of Casing Elevation (ft)		7.9		<u>Groundwater</u>		
Vertical Datum		NGVD29		Horizontal Datum		NAD83		<u>Date Measured</u>	<u>Depth to Water (ft)</u>	<u>Elevation (ft)</u>
Easting (X)		1012154		Horizontal Datum		NAD83		3/11/2011	4.71	3.23
Northing (Y)		417791		Horizontal Datum		NAD83				
Notes:										



Note: Please see Figure B-1 for explanation of symbols

Log of Monitoring Well MW-65

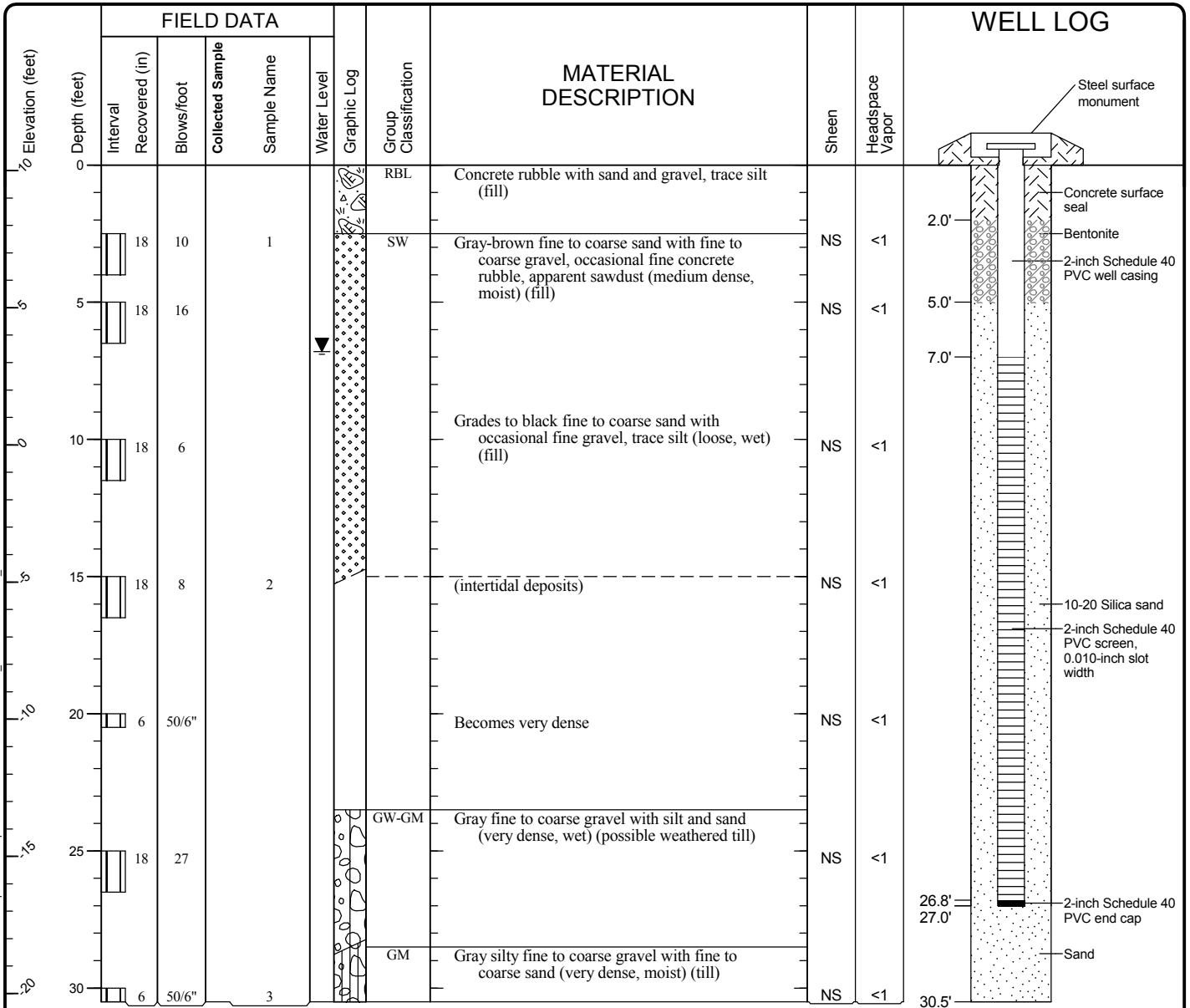


Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-7
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 ALL.GPJ DBT Template\lib\TEMPLATE\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_WELL

Drilled	Start 3/9/2011	End 3/9/2011	Total Depth (ft)	30.5	Logged By Checked By	AMW RCL	Driller	Cascade Drilling	Drilling Method	Hollow Stem Auger
Hammer Data	Wireline 300 (lbs) / 30 (in) Drop		Drilling Equipment		CME 75		Licensing agency well number: BHB 102 A 2 (in) well was installed on 3/11/2011 to a depth of 27 (ft).			
Surface Elevation (ft)		10.2		Top of Casing Elevation (ft)		9.9		<u>Groundwater</u>		
Vertical Datum		NGVD29		Horizontal Datum		NAD83		<u>Date Measured</u>	<u>Depth to Water (ft)</u>	<u>Elevation (ft)</u>
Easting (X)		1011805		Horizontal Datum		NAD83		3/11/2011	6.80	3.10
Northing (Y)		418101								
Notes:										



Note: Please see Figure B-1 for explanation of symbols

Log of Monitoring Well MW-66

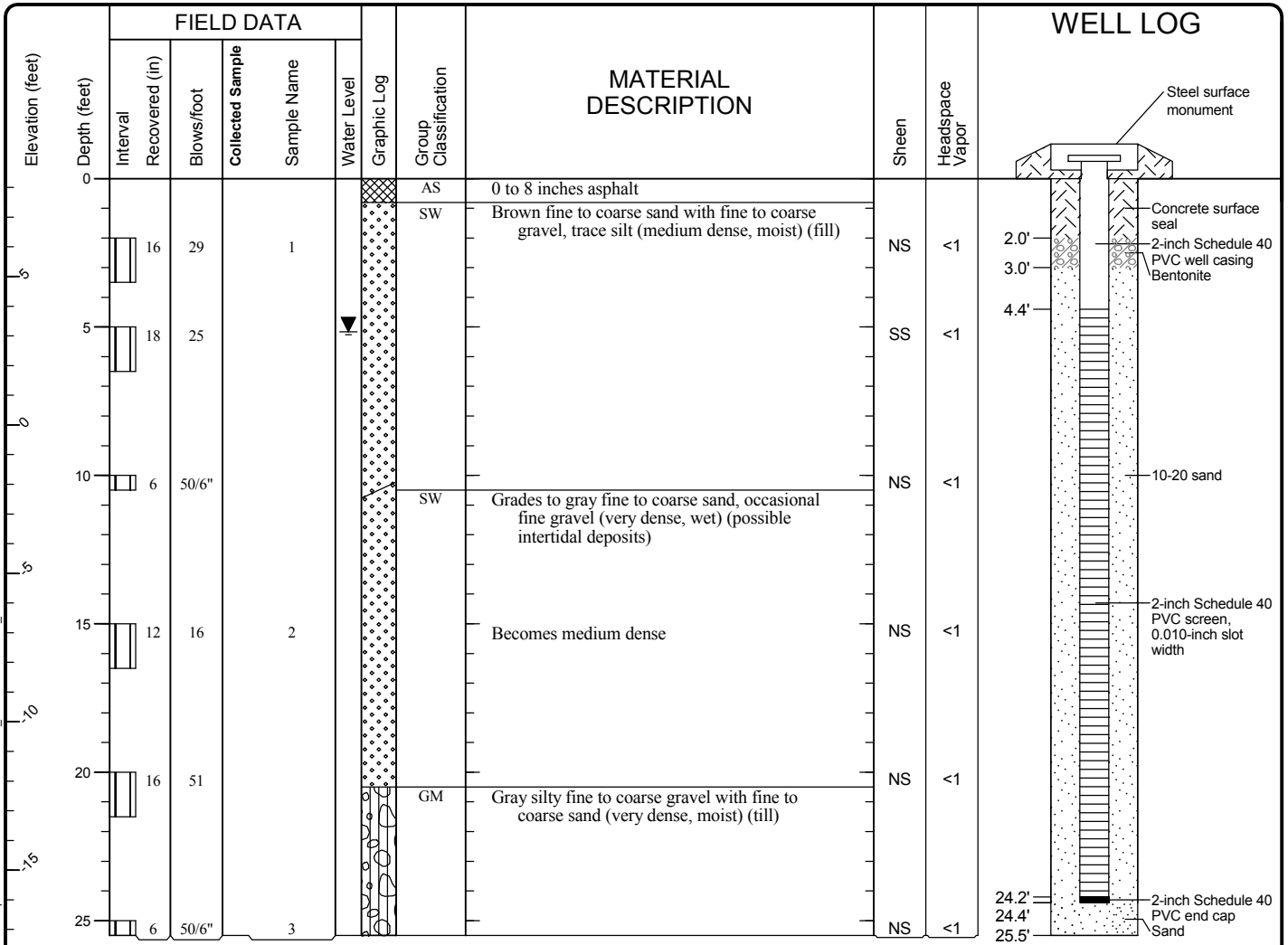


Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-8
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503\GEOENGINEERS\GDT\GEB_ENVIRONMENTAL_WELL

Drilled	Start 3/9/2011	End 3/9/2011	Total Depth (ft)	25.5	Logged By Checked By	AMW RCL	Driller	Cascade Drilling	Drilling Method	Hollow Stem Auger
Hammer Data	Wireline 300 (lbs) / 30 (in) Drop		Drilling Equipment		CME 75		Licensing agency well number: BHB 101 A 2 (in) well was installed on 3/9/2011 to a depth of 24.4 (ft).			
Surface Elevation (ft)		8.3		Top of Casing Elevation (ft)		8.0		Groundwater		
Vertical Datum		NGVD29		Horizontal Datum		NAD83		Date Measured	Depth to Water (ft)	Elevation (ft)
Easting (X)		1011067		Horizontal Datum		NAD83		3/11/2011	5.16	2.83
Northing (Y)		417834								
Notes:										



Note: Please see Figure B-1 for explanation of symbols

Log of Monitoring Well MW-67



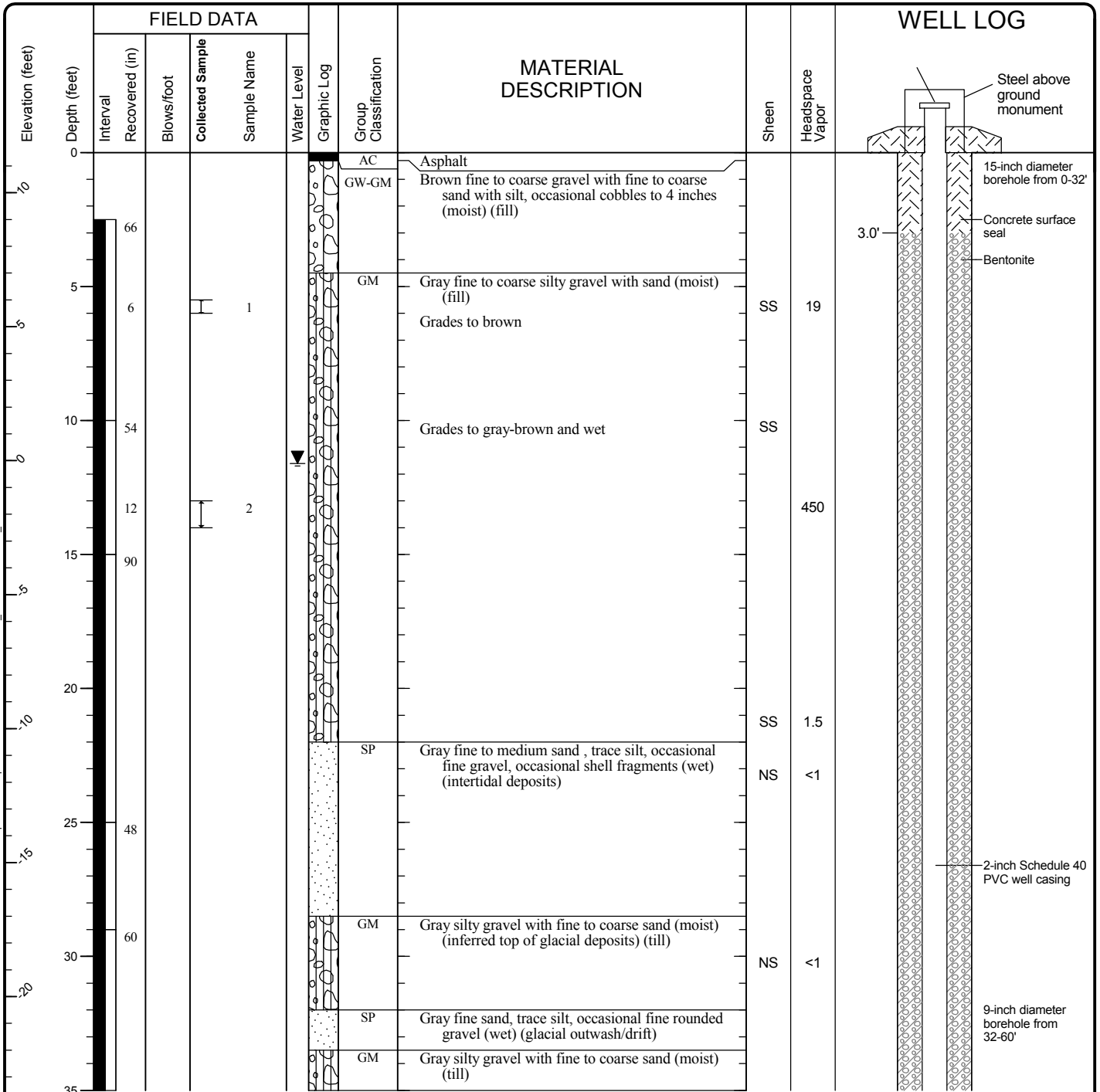
Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-9
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 ALL.GPJ DBTTemplate\lib\template\GEOENGINEERS\GDT\GEB_ENVIRONMENTAL_WELL

Start Drilled 5/17/2011	End 5/18/2011	Total Depth (ft) 60.5	Logged By Checked By AMW RCL	Driller Cascade Drilling	Drilling Method Rotosonic Hollow Stem Auger
Hammer Data	Wireline 300 (lbs) / 30 (in) Drop	Drilling Equipment	Sonic Drill Corp/CME 75		Licensing agency well number: BHB 011 A 2 (in) well was installed on 5/18/2011 to a depth of 58.5 (ft).
Surface Elevation (ft) Vertical Datum	11.5 NGVD29	Top of Casing Elevation (ft)	14.3		<u>Groundwater</u> Date Measured
Easting (X) Northing (Y)	1011128 417714	Horizontal Datum	NAD83		Depth to Water (ft) 11.61 Elevation (ft) 2.70

Notes: Soil samples obtained from 0 to 55 feet bgs are from abandoned boring MW-68a, completed 7.5 feet northeast of well MW-68 on 5/4/11 and 5/5/11



Note: Please see Figure B-1 for explanation of symbols

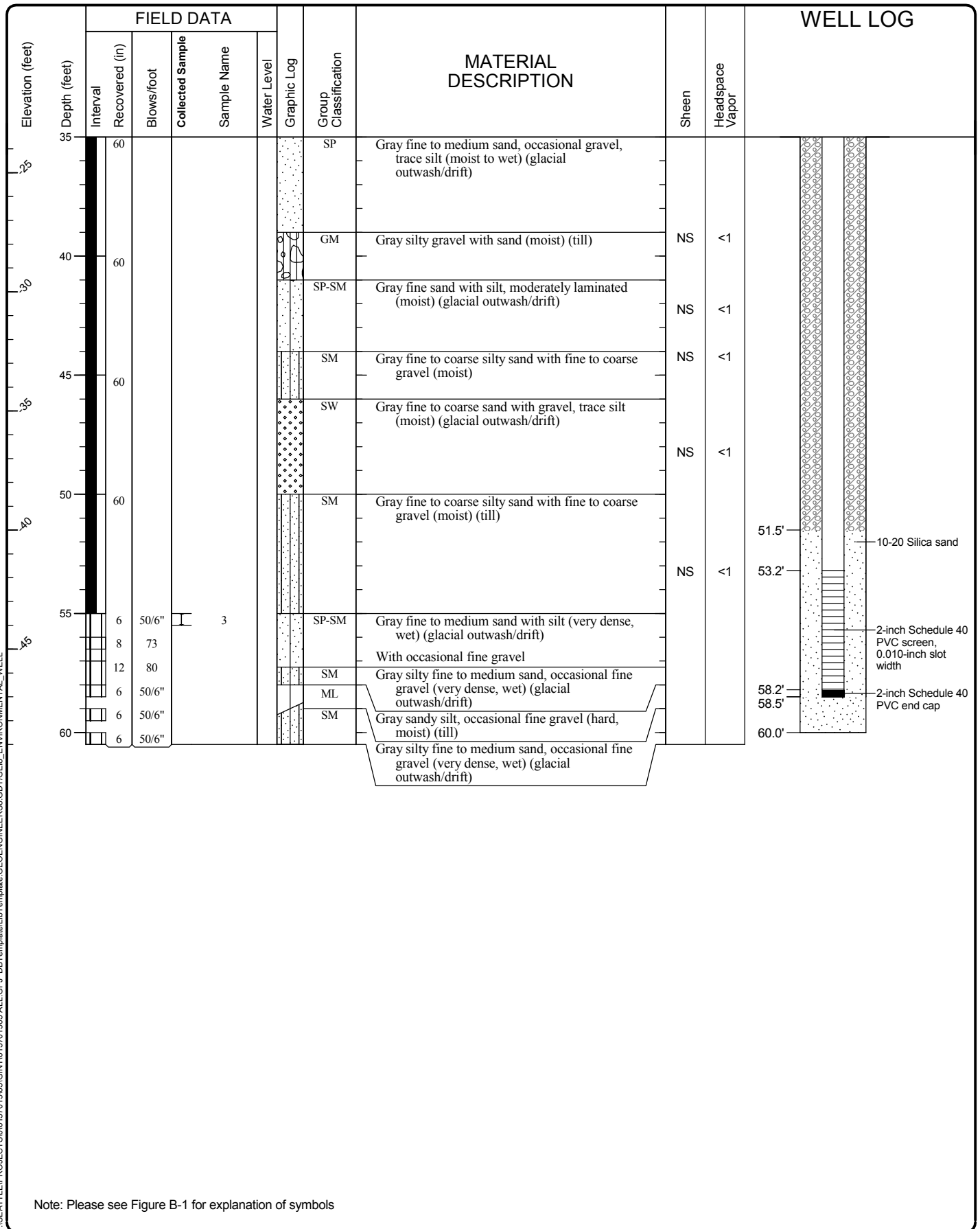
Log of Monitoring Well MW-68



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-10
 Sheet 1 of 2

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\0137015003\GINT\013701503 ALL.GPJ DBT Template\lib\template:GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_WELL



Note: Please see Figure B-1 for explanation of symbols

Log of Monitoring Well MW-68 (continued)

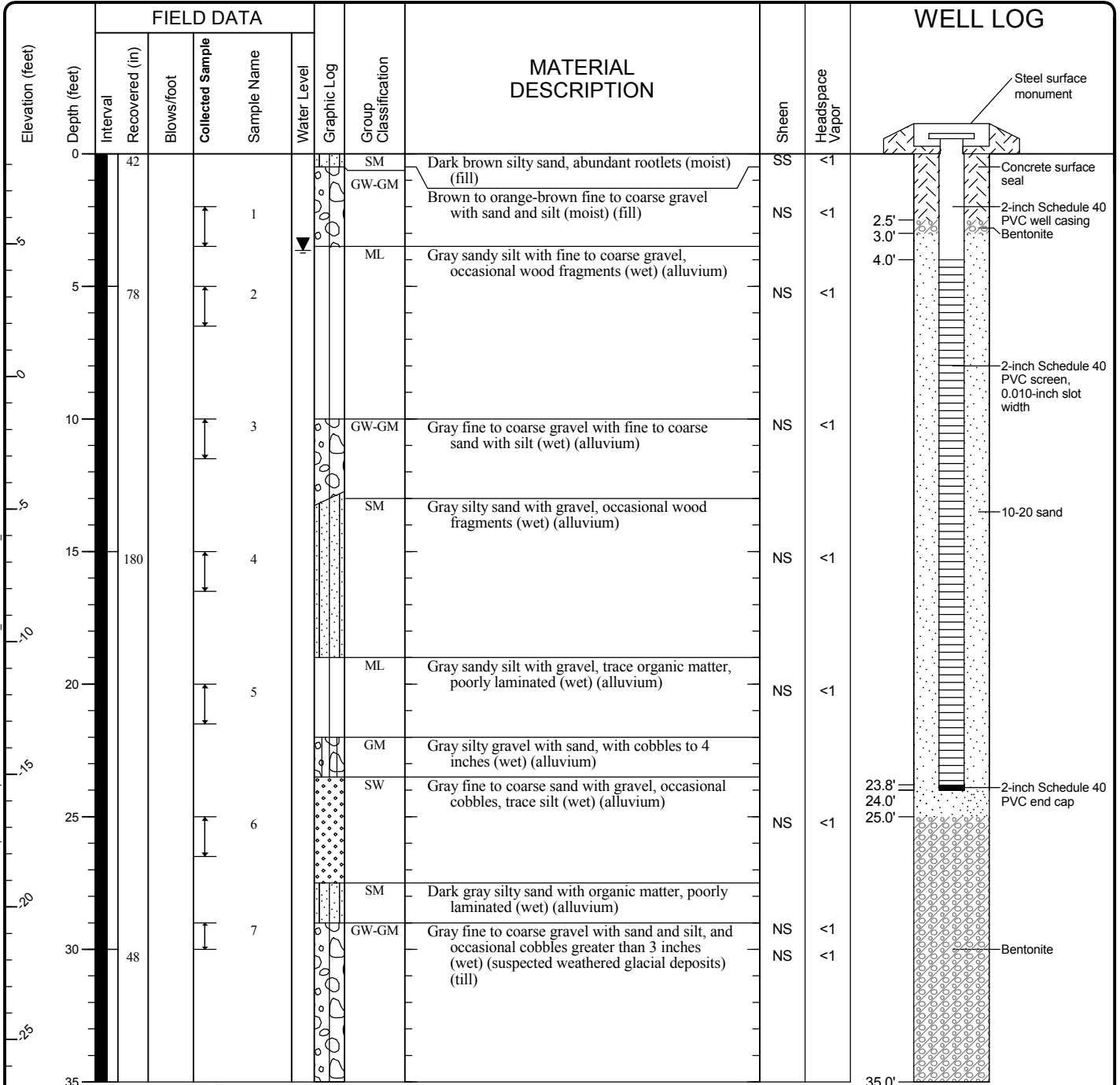


Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-10
 Sheet 2 of 2

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\0137015003\GINT\013701503 ALL.GPJ DBT Template\lib Template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_WELL

Drilled	Start 5/6/2011	End 5/7/2011	Total Depth (ft)	35	Logged By Checked By	AMW RCL	Driller	Cascade Drilling	Drilling Method	Rotosonic
Hammer Data	Continuous coring				Drilling Equipment	Sonic Drill Corp		Licensing agency well number: BCN 066 A 2 (in) well was installed on 5/7/2011 to a depth of 24 (ft).		
Surface Elevation (ft)	8.4				Top of Casing Elevation (ft)	8.2		<u>Groundwater</u>	<u>Depth to Water (ft)</u>	<u>Elevation (ft)</u>
Vertical Datum	NGVD29							5/7/2011	3.65	4.75
Easting (X)	1012063				Horizontal Datum	NAD83				
Northing (Y)	417454									
Notes:										



Note: Please see Figure B-1 for explanation of symbols

Log of Monitoring Well MW-69

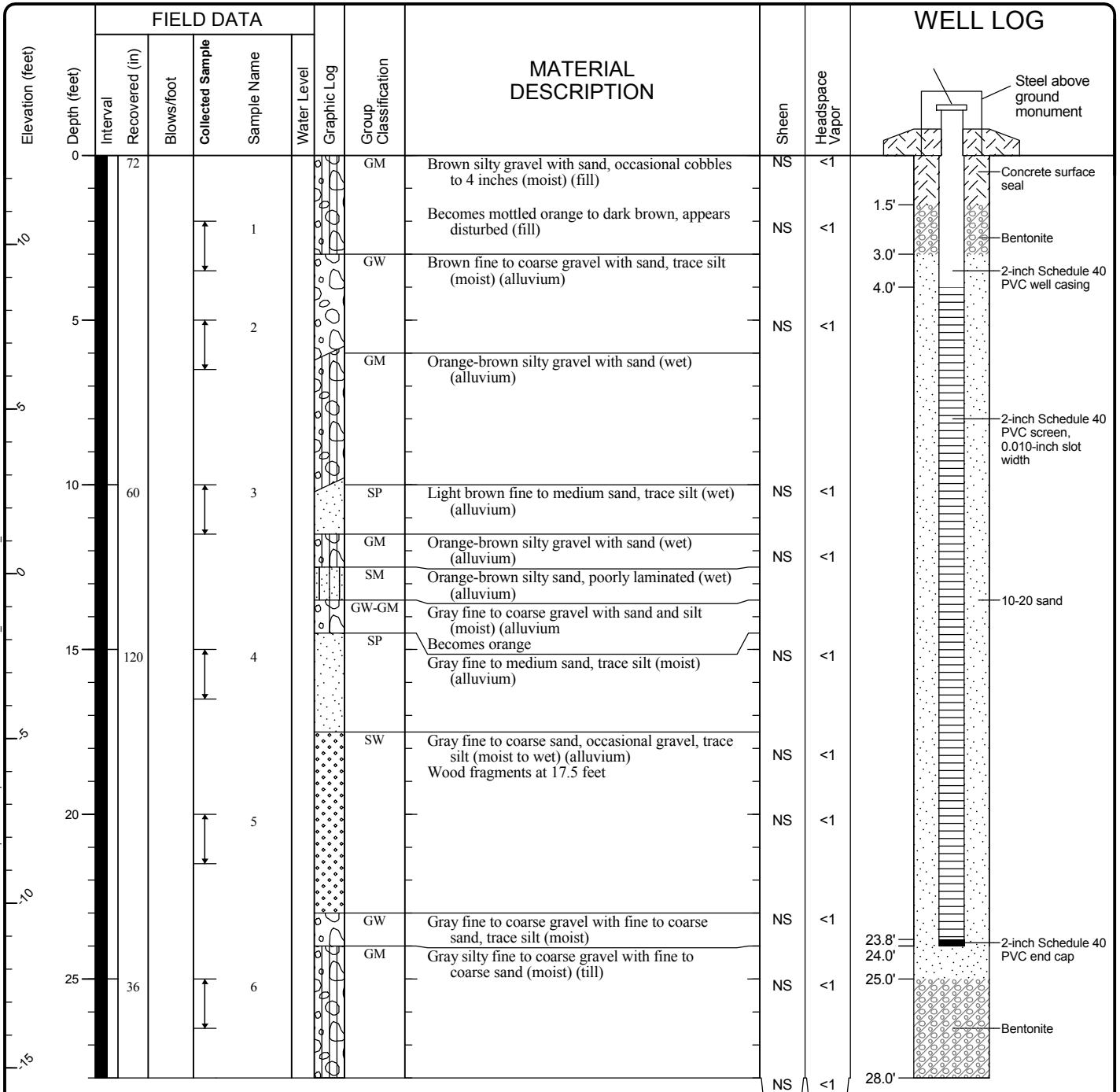


Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-11
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 ALL.GPJ DBT Template: \\dbt\template\lib\template\GEOENGINEERS.GDT\GEIB_ENVIRONMENTAL_WELL

Drilled	Start 5/6/2011	End 5/6/2011	Total Depth (ft)	28	Logged By Checked By	AMW RCL	Driller	Cascade Drilling	Drilling Method	Rotosonic
Hammer Data	Continuous coring				Drilling Equipment	Sonic Drill Corp			Licensing agency well number: BCN 065 A 2 (in) well was installed on 5/6/2011 to a depth of 24 (ft).	
Surface Elevation (ft)	12.7				Top of Casing Elevation (ft)	15.0			Groundwater Date Measured	5/7/2011
Vertical Datum	NGVD29				Horizontal Datum	NAD83			Depth to Water (ft)	8.69
Easting (X)	1012249								Elevation (ft)	4.01
Northing (Y)	417324									
Notes:										



Note: Please see Figure B-1 for explanation of symbols

Log of Monitoring Well MW-70



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-12
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 ALL.GPJ DBTTemplate\lib\template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_WELL

Drilled	Start 10/25/2010	End 10/25/2010	Total Depth (ft)	26.5	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger
Surface Elevation (ft) Vertical Datum	11.9 NGVD29			Hammer Data	Wireline 300 (lbs) / 30 (in) Drop			Drilling Equipment	Mobile B59	
Easting (X) Northing (Y)	1011585 417794			System Datum	NAD83			<u>Groundwater</u>	Depth to Water (ft)	Elevation (ft)
Notes: Auger Data: 4 1/4-inch I.D.								10/25/2010	10.00	1.90

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0							Rubble	Broken concrete rubble to 5 feet below grade surface (fill)				
5		8	2		1		GW	Light brown fine to coarse gravel with fine to coarse sand with trace silt (very loose, moist) (occasional concrete fragments) (fill)	SS	<1		
10		14	2		2		SP-SM	Black fine to medium sand with trace silt (very loose, moist) (intertidal deposits)	MS	<1		
15		18	7		3		GW-GM	Grades to dark gray fine to medium sand with silt (very loose, wet)	SS	<1		
20		2	26		4		SM	Dark gray fine to coarse gravel with fine to coarse sand with silt (loose, wet) (alluvium)	NS	<1		
25		14	50/5.5"		5		SW-SM	Gray-brown silty sand with occasional fine gravel (medium dense, wet) (alluvium)		<1		
								Gray fine to coarse sand with fine to coarse gravel with silt (very dense, moist) (till)				

Note: Please see Figure B-1 for explanation of symbols

Log of Boring SSB-1



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-13
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\0137015003\GINT\013701503 ALL.GPJ DBT Template\lib\template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_STANDARD

Drilled	Start 10/21/2010	End 10/21/2010	Total Depth (ft)	21.5	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger	
Surface Elevation (ft) Vertical Datum	10.9 NGVD29			Hammer Data	Wireline 300 (lbs) / 30 (in) Drop			Drilling Equipment	Mobile B59		
Easting (X) Northing (Y)	1011263 417785			System Datum	NAD83			<u>Groundwater</u>	Depth to Water (ft)	Elevation (ft)	
Notes: Auger Data: 4 1/4-inch I.D.								10/21/2010	8.00	2.90	

Elevation (feet)	FIELD DATA						Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing								
0								SW-SM	Brown fine to coarse sand with fine to coarse gravel and silt (medium dense, moist) (rootlets, concrete debris) (fill)	NS	<1		
5	16	11		1				SW	Dark gray to brown fine to coarse sand with coarse gravel, trace silt, and shell fragments (medium dense, moist) (intertidal deposits)	NS	<1		
10	18	14		2					Grades to gray fine to coarse sand with occasional fine to coarse gravel with trace silt and shell fragments (loose, wet)	NS	<1		
15	17	7		3						NS	<1		
20	17	5		4					Becomes very dense	NS	<1		
	5	50/5.5"		5				ML	Gray sandy silt with fine to coarse gravel (hard, moist) (till)	NS	<1		
	5	50/3"		6						NS	<1		

Note: Please see Figure B-1 for explanation of symbols

Log of Boring SSB-2



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-14
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: \\SEA\AT\LE\PROJECTS\0137015003\GINT\013701503 ALL.GPJ DBT Template\lib Template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_STANDARD

Drilled	Start 10/22/2010	End 10/22/2010	Total Depth (ft)	31	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger	
Surface Elevation (ft) Vertical Datum	8.8 NGVD29			Hammer Data	Wireline 300 (lbs) / 30 (in) Drop			Drilling Equipment	Mobile B59		
Easting (X) Northing (Y)	1011615 417718			System Datum	NAD83			<u>Groundwater</u>	Depth to Water (ft)	Elevation (ft)	
Notes: Auger Data: 4 1/4-inch I.D.								Date Measured	10/22/2010	5.00	3.80

Elevation (feet)	FIELD DATA						Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level					
0							GW	Brown fine to coarse gravel with fine to coarse sand, trace silt and occasional rootlets (medium dense, moist) (fill)	NS	<1	
5	0	7					SW	Becomes loose, wet			
10	12	15		2				Gray fine to coarse sand with fine to coarse gravel and trace silt (medium dense, wet) (alluvium)	NS	<1	
15	6	2		3				Becomes very loose	NS	<1	
20	6	14		4				Grades to dark gray fine to coarse sand with fine to coarse gravel (medium dense, wet) (alluvium)	NS	<1	
25	18	50/5"		5				Becomes dense	NS	<1	
30	2	21		6			ML	Gray fine to coarse sandy silt with fine to coarse gravel (hard, moist) (till)	NS	<1	
	3	50/5"		7							

Note: Please see Figure B-1 for explanation of symbols

Log of Boring SSB-3



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-15
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: \\SEA\AT\LE\PROJ\ECT\500137015003\GINT\0137015003\ALL\GPJ_DB\Template\lib\Template\GEOENGINEERS\GDT\GEB_ENVIRONMENTAL_STANDARD

Drilled	Start 10/22/2010	End 10/22/2010	Total Depth (ft)	24.5	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger
Surface Elevation (ft) Vertical Datum	7.4 NGVD29			Hammer Data	Wireline 300 (lbs) / 30 (in) Drop			Drilling Equipment	Mobile B59	
Easting (X) Northing (Y)	1011603 417586			System Datum	NAD83			<u>Groundwater</u> Date Measured	Depth to Water (ft)	Elevation (ft)
Notes: Auger Data: 4 1/4-inch I.D.								10/22/2010	5.50	1.90

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing								
0							GW	Brown fine to coarse gravel with fine to coarse sand with trace silt and concrete rubble (loose, moist) (fill)	NS	<1		
5	2	5					Wood	Wood fragments (fill)	NS	<1		
	13	8		1			GP	Brown fine rounded gravel and trace sand and silt (loose, wet) (alluvium)				
10				2			GW-GM	Brown fine to coarse gravel with fine to coarse sand and silt (medium dense, wet) (alluvium)	NS	<1		
15	12	18		3				Becomes very dense	NS	<1		
	17	50/5"		4			ML	Gray sandy silt with fine to coarse gravel (hard, moist) (till)	NS	<1		
20	1	50/6"		5			SW	Gray fine to coarse sand with fine rounded gravel and trace silt (very dense, wet) (glacial outwash and drift)	NS	<1		
	5	200/4"		4								
	16	50/5"		5					NS	<1		

Note: Please see Figure B-1 for explanation of symbols

Log of Boring SSB-4



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-16
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 ALL.GPJ DBT Template\lib\template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_STANDARD

Drilled	Start 10/26/2010	End 10/27/2010	Total Depth (ft)	31.5	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger
Surface Elevation (ft) Vertical Datum	6.9 NGVD29			Hammer Data	Wireline 300 (lbs) / 30 (in) Drop			Drilling Equipment	Mobile B59	
Easting (X) Northing (Y)	1012186 417770			System Datum	NAD83			<u>Groundwater</u>	Depth to Water (ft)	Elevation (ft)
Notes: Auger Data: 4¼-inch I.D.								10/26/2010	5.00	1.90

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0							Rubble	Concrete rubble (fill)				
3		6	5		1		GW	Brown fine to coarse gravel with fine to coarse sand and trace silt (loose, moist) (fill)	NS	<1		
5		10	15		2		SW	Gray fine to coarse sand with fine to coarse gravel and trace silt (medium dense, wet) (alluvium)	NS	<1		
10		12	42		3		GW-GM	Gray-brown fine to coarse gravel with fine to coarse sand with silt (dense, wet) (alluvium)	NS	<1		
15		13	20		4		SW-SM	Gray-brown fine to coarse sand with gravel with silt (medium dense, wet) (alluvium)	NS	<1		
20		9	29		5		SM	Gray silty fine sand with occasional fine gravel (medium dense, wet) (alluvium)	NS	<1		
25		3	27		6		GW-GM	Gray fine to coarse gravel with fine to coarse sand with silt (medium dense, wet) (alluvium)	NS	<1		
30		18	113		7			Becomes very dense	NS	<1		

Note: Please see Figure B-1 for explanation of symbols

Log of Boring SSB-5



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-17
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503\GEOENGINEERS\GDT\GEB_ENVIRONMENTAL_STANDARD

Drilled	Start 10/26/2010	End 10/26/2010	Total Depth (ft)	29	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger	
Surface Elevation (ft) Vertical Datum	9.8 NGVD29			Hammer Data	Wireline 300 (lbs) / 30 (in) Drop			Drilling Equipment	Mobile B59		
Easting (X) Northing (Y)	1011953 417947			System Datum	NAD83			<u>Groundwater</u>	Depth to Water (ft)	Elevation (ft)	
Notes: Auger Data: 4 1/4-inch I.D.								Date Measured	10/26/2010	8.00	1.80

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level					Graphic Log	Group Classification
0							Rubble	Concrete rubble (fill)		
5	16	16	1				GW	Brown fine to coarse gravel with fine to coarse sand and trace silt (medium dense, moist) (fill)	NS	<1
							Shells	Brown clam shells in matrix of brown fine to coarse sand and trace silt with occasional fine gravel (medium dense, moist) (intertidal deposits) Gray fine to medium sand with shell fragments and occasional fine gravel (medium dense, wet) (intertidal deposits)		
10	16	27	2				SP			NS
15	2	19	3				GW	Gray fine to coarse gravel with fine to coarse sand and trace silt (medium dense, wet) (alluvium)	NS	<1
20	15	16	4						NS	<1
25	4	50/3"	5				SW-SM	Gray fine to coarse sand with fine gravel with silt (very dense, wet) (till)	NS	<1
	12	50/3"	6				ML	Gray sandy silt with fine gravel (very hard, moist) (till)	NS	<1

Note: Please see Figure B-1 for explanation of symbols

Log of Boring SSB-6



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-18
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\0137015003\GINT\0137015003\ALL.GPJ DBT Template: \lib\template\GEOENGINEERS\GDT\GEB_ENVIRONMENTAL_STANDARD

Drilled	Start 10/26/2010	End 10/26/2010	Total Depth (ft)	30.8	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger
Surface Elevation (ft) Vertical Datum	11.1 NGVD29			Hammer Data	Wireline 300 (lbs) / 30 (in) Drop			Drilling Equipment	Mobile B59	
Easting (X) Northing (Y)	1011458 418071			System Datum	NAD83			<u>Groundwater</u>	Depth to Water (ft)	Elevation (ft)
Notes: Auger Data: 4 1/4-inch I.D.								10/26/2010	13.00	-1.90

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							Water Level
0							SW	Brown fine to coarse sand with fine to coarse gravel and trace silt, occasional rootlets, concrete rubble, brick fragments and fiberglass pieces (medium dense, moist) (fill)	SS	<1	
5	3	50/2"					Debris	Brick fragments and cemented debris (very dense, moist) (fill)	NS	<1	
10	8		23	2			GW-GM	Gray-brown fine to coarse gravel with fine to coarse sand with silt (medium dense, moist) (fill)	SS	<1	
15	0		6				SP-SM	Gray fine to medium sand with silt and occasional shell fragments (loose, wet) (fill)	NS	<1	
20	18		11	3			SW	Gray fine to coarse sand with shell fragments and trace silt (medium dense, wet) (intertidal deposits)	NS	<1	
							SW-SM	Gray fine to coarse sand with fine gravel and silt (medium dense, wet)			
25	18		3	4			SP	Gray fine to medium sand, occasional shell fragments and trace silt (very loose, wet) (intertidal deposits)	NS	<1	
30	10	107/4"		5			SW	Gray fine to coarse sand with fine to coarse gravel and trace silt (very dense, moist) (glacial outwash/drift)	NS	<1	

Note: Please see Figure B-1 for explanation of symbols

Log of Boring SSB-7



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-19
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\0137015003\GINT\013701503 ALL.GPJ DBT Template\lib\template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_STANDARD

Drilled	Start 10/25/2010	End 10/25/2010	Total Depth (ft)	31	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger	
Surface Elevation (ft) Vertical Datum	10.9 NGVD29			Hammer Data	Wireline 300 (lbs) / 30 (in) Drop			Drilling Equipment	Mobile B59		
Easting (X) Northing (Y)	1010709 417602			System Datum	NAD83			<u>Groundwater</u>	Depth to Water (ft)	Elevation (ft)	
Notes: Auger Data: 4 1/4-inch I.D.								10/25/2010	8.00	2.90	

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0								TS	Topsoil			
0	0	10	24		1			GW	Brown coarse gravel with fine to coarse sand with trace silt and occasional cobbles (medium dense, moist) (fill)	NS	<1	
5	5	5	10		2					NS	<1	
10	10	16	7		3			SP	Gray medium to coarse sand with occasional fine subrounded gravel and trace silt (loose, wet) (fill) 1-inch apparent sawdust layer observed at 11 feet bgs	NS	<1	
15	15	18	7		4					NS	<1	
20	20	15	15		5			GW-GM	Dark gray fine gravel with fine to coarse sand with silt (loose, wet) (intertidal deposits)			
25	25	16	50/4"		6			SP	Light brown fine to medium sand, grading to very fine sand with trace silt, poorly laminated (medium dense, wet) (intertidal deposits) Becomes very dense	NS	<1	
30	30	6	376/9"		7			SM	Gray silty fine to coarse sand with fine gravel (very dense, moist) (till)			

Note: Please see Figure B-1 for explanation of symbols

Log of Boring SSB-8



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-20
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 ALL.GPJ DBT Template\lbt Template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_STANDARD

Drilled	Start 10/27/2010	End 10/27/2010	Total Depth (ft)	31.5	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger
Surface Elevation (ft) Vertical Datum	20.9 NGVD29			Hammer Data	Wireline 300 (lbs) / 30 (in) Drop			Drilling Equipment	Mobile B59	
Easting (X) Northing (Y)	1012169 417111			System Datum	NAD83			<u>Groundwater</u>	Depth to Water (ft)	Elevation (ft)
Notes: Auger Data: 4 1/4-inch I.D.								10/27/2010	20.0	0.9

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0							GW	Dark brown fine gravel with fine to coarse sand and trace silt (moist) (fill)				
	18	7		1			ML	Brown sandy silt, occasional fine rounded gravel and trace clay (medium stiff, moist) (alluvium)	NS	<1		
5	18	5		2					NS	<1		
10	18	8		3					NS	<1		
15	18	3		4			SW-SM	Orange-brown fine to coarse sand with silt and occasional fine gravel (loose, moist) (alluvium)				
							SM	Becomes very loose Gray fine sand with silt (very loose, moist) (alluvium)	NS	<1		
20	16	50		5			GW	Gray fine to coarse gravel with fine to coarse sand and trace silt (very dense, wet) (alluvium)	NS	<1		
25	12	53/1"		6					NS	<1		
30	16	40		7			GW-GM	Gray fine to coarse gravel with fine to coarse sand with silt (dense, wet) (till)	NS	<1		

Note: Please see Figure B-1 for explanation of symbols

Log of Boring SSB-9



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-21
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 ALL.GPJ DBT Template\lib\template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_STANDARD

Start Drilled 10/28/2010	End 10/28/2010	Total Depth (ft) 26.5	Logged By Checked By AMW RCL	Driller Boart Longyear	Drilling Method Hollow Stem Auger
Surface Elevation (ft) Vertical Datum 29.0 NGVD29	Hammer Data	Wireline 300 (lbs) / 30 (in) Drop	Drilling Equipment Mobile B59		
Easting (X) Northing (Y) 1012622 416781	System Datum NAD83	Groundwater Date Measured 10/28/2010		Depth to Water (ft) 13.00	Elevation (ft) 16.00
Notes: Auger Data: 4 1/4-inch I.D.					

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0							GP-GM	Gray coarse gravel with sand and trace silt (moist) (fill)				
1.5	1.5	18	17		1		SW	Black fine to coarse sand with coarse gravels/ rubble and trace silt (medium dense, moist) (fill)	SS	0.6		
3	3	18	3		2		SP	Black coarse sand with trace silt (medium dense, moist) (fill)				
4.5	4.5	18	3		2		SM	Gray to black silty sand (loose, moist) (fill)	NS	0.9		
6	6	18	3		2		ML	Black sandy silt with occasional fine gravel and trace clay (soft, moist) (alluvium)				
10	10	18	4		3				NS	1.0		
14	14	17	16		4		GW-GM	Brown fine to coarse gravel with fine to coarse sand with silt (medium dense, wet) (alluvium)	NS	<1		
15.5	15.5	17	16		4		SW-SM	Brown-gray fine to coarse sand with fine gravel and trace silt (medium dense, wet) (alluvium)				
17	17	12	9		5		GW	Gray fine gravel with fine to coarse sand and trace silt (medium dense, wet) (alluvium)				
19	19	6	82		6			Becomes loose	NS	<1		
21	21	6	82		6		ML	Gray sandy silt with fine to coarse gravel and trace clay (stiff, moist) (till)				
25	25	6	82		6			Becomes hard	NS	<1		

Note: Please see Figure B-1 for explanation of symbols

Log of Boring SSB-10



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-22
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\0137015003\GINT\013701503 ALL.GPJ DBT Template\lib\template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_STANDARD

Drilled	Start 11/3/2010	End 11/4/2010	Total Depth (ft) 21.5	Logged By Checked By AMW RCL	Driller Boart Longyear	Drilling Method Hollow Stem Auger
Surface Elevation (ft) Vertical Datum	7.9 NGVD29		Hammer Data	Wireline 300 (lbs) / 30 (in) Drop		Drilling Equipment Mobile B59
Easting (X) Northing (Y)	1011712 417715		System Datum	NAD83		<u>Groundwater</u> Date Measured 11/3/2010
Notes: Auger Data: 4 1/4-inch I.D.					Depth to Water (ft) 4.00	Elevation (ft) 3.90

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level					Graphic Log	Group Classification
0							AC			
							sp			
5	12	5	1					NS	1.6	Sweet odor
5	14	6	2					NS	1.1	Sweet odor
6	15	4	3				GW	NS	<1	
10	12	21	4					NS	<1	
15	14	17	5					NS	<1	
20	10	50/3"	6				SW-SM	NS	<1	

Set temporary screen from 4 to 7.5 feet below ground surface

Note: Please see Figure B-1 for explanation of symbols

Log of Boring GWG-1



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-23
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\0137015003\GINT\013701503 ALL.GPJ DBT Template: \lib\template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_STANDARD

Drilled	Start 11/1/2010	End 11/2/2010	Total Depth (ft)	31.5	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger
Surface Elevation (ft) Vertical Datum	9.1 NGVD29			Hammer Data	Wireline 300 (lbs) / 30 (in) Drop			Drilling Equipment	Mobile B59	
Easting (X) Northing (Y)	1012143 417992			System Datum	NAD83			<u>Groundwater</u>	Depth to Water (ft)	Elevation (ft)
Notes: Auger Data: 4 1/4-inch I.D.								Date Measured	7.00	2.10

Elevation (feet)	FIELD DATA						Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level					
0							Rubble	Concrete rubble (fill)			
5							GP	Gray fine gravel with coarse sand, trace silt (wet) (fill)			
6	12	1	1				SP	Gray fine sand with trace silt and occasional fine gravel (very loose, wet) (intertidal deposits)	NS	<1	
10	16	15	2				ML	Gray fine sandy silt (very soft, wet) (intertidal deposits)	NS	<1	
							SW	Gray fine to coarse sand with trace silt (medium dense, wet) (intertidal deposits)			
							ML	Gray fine sandy silt (very soft, wet) (intertidal deposits)			
15	6	10	3				GW-GM	Gray fine gravel with fine to coarse sand with occasional silt (medium dense, wet) (alluvium)	NS	<1	
20	12	6	4				SW	Gray fine to coarse sand with fine to coarse gravel and trace silt (loose, wet) (alluvium)	NS	<1	
25	6	51	5				GW	Gray fine to coarse gravel with fine to coarse sand with silt (very dense, wet) (till)	NS	<1	
30	0	22						Becomes medium dense	NS	<1	
	12	112	6				ML	Gray fine to coarse gravelly silt with fine to coarse sand (very hard, moist) (till)	NS	<1	
Set temporary screen from 8.5 to 11 feet below ground surface											

Note: Please see Figure B-1 for explanation of symbols

Log of Boring GWG-4



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-24
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503\ALL\GPJ_DBT\template\lbt\template\GEOENGINEERS\GDT\GEIG_ENVIRONMENTAL_STANDARD

Drilled	Start 11/3/2010	End 11/3/2010	Total Depth (ft)	10.25	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger	
Surface Elevation (ft) Vertical Datum	7.9 NGVD29			Hammer Data	Wireline 300 (lbs) / 30 (in) Drop			Drilling Equipment	Mobile B59		
Easting (X) Northing (Y)	1012095 417757			System Datum	NAD83			<u>Groundwater</u>	Depth to Water (ft)	Elevation (ft)	
Notes: Auger Data: 4 1/4-inch I.D.								Date Measured	11/3/2010	4.00	3.90

Elevation (feet)	FIELD DATA						Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level					
0							SW	Brown fine to coarse sand with fine to coarse gravel and trace silt (loose, moist) (fill)			
5		9	7		1				NS	<1	
5		14	9		2		SW-SM	Red-brown fine to coarse sand with fine to coarse gravel with silt (loose, wet) (fill)	NS	<1	
10		1	35/3"					Concrete slab in shoe			

Set temporary screen from 3.5 to 7 feet below ground surface

Note: Please see Figure B-1 for explanation of symbols

Log of Boring GWG-5



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\0137015003\GINT\013701503 ALL.GPJ DBTTemplate\lib\template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_STANDARD

Drilled	Start 11/4/2010	End 11/5/2010	Total Depth (ft)	27.5	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger
Surface Elevation (ft) Vertical Datum	8.8 NGVD29			Hammer Data	Wireline 300 (lbs) / 30 (in) Drop			Drilling Equipment	Mobile B59	
Easting (X) Northing (Y)	1012142 417823			System Datum	NAD83			<u>Groundwater</u> <u>Date Measured</u>	<u>Depth to Water (ft)</u>	<u>Elevation (ft)</u>
Notes: Auger Data: 4 1/4-inch I.D.								11/4/2010	4.00	4.80

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0							Rubble	Concrete rubble (fill)				
5	9	9		1			SW	Brown fine to coarse sand with fine to coarse gravel and trace silt (loose, moist) (fill)	NS	<1		
							GP	Brown fine rounded gravel with coarse sand and trace silt (loose, wet) (alluvium)				
10	13	10		2			GW	Gray fine to coarse gravel with fine to coarse sand and trace silt (medium dense, wet) (alluvium)	NS	<1		
15	10	30		3					NS	<1		
20	9	38		4			SW	Gray fine to coarse sand with fine to coarse gravel and trace silt (dense, wet) (alluvium)	NS	<1		
25	12	74		5			GW-GM	Gray fine to coarse gravel with silt intermixed with fine to coarse sand (very dense, wet) (alluvium)	NS	<1		
	2	82							NS	<1		

Note: Please see Figure B-1 for explanation of symbols

Log of Boring GWG-5A



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-26
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 ALL.GPJ DBT Template\lib\template\GEOENGINEERS\GDT\GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 11/2/2010	End 11/2/2010	Total Depth (ft)	11.5	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger	
Surface Elevation (ft) Vertical Datum	14.4 NGVD29			Hammer Data	Wireline 300 (lbs) / 30 (in) Drop			Drilling Equipment	Mobile B59		
Easting (X) Northing (Y)	1012321 417284			System Datum	NAD83			<u>Groundwater</u>	Depth to Water (ft)	Elevation (ft)	
Notes: Auger Data: 4 1/4-inch I.D.								Date Measured	11/2/2010	10.00	4.40

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0								GW	Brown fine to coarse gravel with fine to coarse sand and trace silt (medium dense, moist) (fill)			
		15	21		1					SS	<1	
								ML	Brown sandy silt with fine gravel (medium stiff, moist) (alluvium)			
5		18	9		2			SP	Orange-brown fine to medium sand with trace silt (loose, moist) (alluvium)			
								SW-SM	Brown fine to coarse sand with fine to coarse gravel with silt (loose) (alluvium)			
10		16	7		3			SP-SM	Gray fine to medium sand with silt (loose, wet) (alluvium)			
										NS	<1	
												Set temporary screen from 10 to 13 feet below ground surface

Note: Please see Figure B-1 for explanation of symbols

Log of Boring GWG-6



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-27
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\0137015003\GINT\013701503 ALL.GPJ DBT Template\lib Template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_STANDARD

Drilled	Start 11/2/2010	End 11/2/2010	Total Depth (ft)	8.5	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger
Surface Elevation (ft) Vertical Datum	11.7 NGVD29			Hammer Data	Wireline 300 (lbs) / 30 (in) Drop			Drilling Equipment	Mobile B59	
Easting (X) Northing (Y)	1012393 417308			System Datum	NAD83			<u>Groundwater</u> <u>Date Measured</u>	<u>Depth to Water (ft)</u>	<u>Elevation (ft)</u>
Notes: Auger Data: 4 1/4-inch I.D.								11/2/2010	6.00	5.70

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0							AC	Asphalt concrete				
							ML	Brown sandy silt with occasional gravel (stiff, moist) (fill)				
10		6	9		1				NS	<1		
5		14	9		2				NS	<1		
0							SP	Brown fine to medium sand with trace silt (loose, wet) (alluvium)				
		16	8		3		ML	Dark brown to dark gray sandy silt with occasional gravel (medium stiff, wet) (alluvium)				

Set temporary screen from 6 to 8.5 feet below ground surface

Note: Please see Figure B-1 for explanation of symbols

Log of Boring GWG-7



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-28
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\0137015003\GINT\013701503 ALL.GPJ DBT Template\lib Template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_STANDARD

Drilled	Start 11/1/2010	End 11/1/2010	Total Depth (ft)	10	Logged By Checked By	AMW RCL	Driller	Boart Longyear	Drilling Method	Hollow Stem Auger
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Wireline 300 (lbs) / 30 (in) Drop		Drilling Equipment Mobile B59	
Easting (X) Northing (Y)			System Datum		NA		Groundwater Date Measured		Depth to Water (ft) Elevation (ft)	
Notes: Auger Data: 4 1/4-inch I.D.										

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0							AC	Asphalt pavement				
							Wood	Wood debris (possible railroad tie) (fill)				
							SW	Brown fine to coarse sand with fine to coarse gravel with silt (dense, moist) (fill)				
	16	44							SS	<1		
5							GW	Brown fine to coarse gravel with fine to coarse sand and trace silt (medium dense, moist) (alluvium)				
	14	20							SS	<1		
10												

Drilling encountered 36-inch diameter fiberglass pipe at 10 feet bgs.

Note: Please see Figure B-1 for explanation of symbols

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\0137015003\GINT\013701503 ALL.GPJ DBT Template\lib\template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_STANDARD

Log of Boring GWG-7A



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Start Drilled 10/28/2010	End 10/28/2010	Total Depth (ft) 16.5	Logged By Checked By AMW RCL	Driller Boart Longyear	Drilling Method Hollow Stem Auger
Surface Elevation (ft) Vertical Datum	21.5 NGVD29	Hammer Data	Wireline 300 (lbs) / 30 (in) Drop	Drilling Equipment	Mobile B59
Easting (X) Northing (Y)	1012411 417147	System Datum	NAD83	Groundwater Date Measured	Depth to Water (ft) Elevation (ft)
Notes: Auger Data: 4 1/4-inch I.D.				10/28/2010	13.00 8.50

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0							AC	Asphalt concrete				
2.5	18	45		1			SW	Dark gray fine to coarse sand with gravel, trace silt (dense, moist) (fil)	SS	1.2		
5	0	8					SM	Gray-brown silty sand with occasional fine gravel (loose, moist) (alluvium)				
10	18	7		2					NS	<1		
15	18	10		3			GW	Orange fine to coarse gravel with fine to coarse sand and trace silt (medium dense, wet) (alluvium)	NS	<1		

Set temporary screen from 13 to 16.5 feet below ground surface

Note: Please see Figure B-1 for explanation of symbols

Log of Boring GWG-8



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-30
 Sheet 1 of 1

Seattle: Date: 10/17/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503\ALL.GPJ DBT Template\lib\template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_STANDARD

Date Excavated: 1/4/2011
 Equipment: CAT 321LCR Trackhoe

Logged By: AMW
 Total Depth (ft) 10.5

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	Encountered Water	MATERIAL DESCRIPTION	Shreen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing							
1	1		1		GW		Brown fine to coarse gravel with fine to coarse sand trace silt (moist) (fill)	NS		No odor
2	2				SW		Gray-brown fine to coarse sand with fine to coarse gravel and trace silt (moist) (fill)			
3	3									
4	4									
5	5									
6	6							NS		No odor
7	7									
8	8		2					NS		No odor
9	9				SP		Gray medium to coarse sand with occasional coarse gravel and trace silt (wet) (fill)		<1	
10	10		3							

Test pit completed at 10.5 feet bgs.
 Moderate groundwater seepage observed at 9 feet bgs.
 No caving observed.

Concrete footers along west and north sidewalls.
 Concrete structure at ~7 feet bgs in northeast corner of test pit.
 East sidewall has apparent backfill material against the north footer down to the concrete structure at ~7 feet bgs.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-01



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-31
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 TEST PITS.GPJ DBT\templates\lib\template:GEOENGINEERS.GDT\GELB_TESTPIT_IP_ENV

Date Excavated: 1/4/2011

Logged By: AMW

Equipment: CAT 321LCR Trackhoe

Total Depth (ft) 9.5

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing							
1	1		1		GW		Brown fine to coarse gravel with fine to coarse sand and trace silt (moist) (fill)	NS		No odor
2	2				SW		Gray-brown fine to coarse sand with fine gravel and trace silt (moist) (fill)	NS		No odor
3	3							NS		No odor
4	4							NS		No odor
5	5							NS		No odor
6	6							NS		No odor
7	7							NS		No odor
8	8		2					HS	1.3	HC odor
9	9		3		SP		Dark gray medium to coarse sand with fine to coarse gravel (moist) (fill)	SS		Becomes wet

Test pit completed at 9.5 feet bgs.
 Slow to moderate groundwater seepage observed at 9 feet bgs.
 No caving observed.

Concrete structures in south and east sidewalls, wood piling in center of test pit.
 Dimensional lumber (apparent beam) and iron pipe crossing excavation at approximately 2 feet bgs.
 Concrete slab at approximately 9.5 feet to 10 feet bgs, north of piling.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-02



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-32
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 TEST PITS.GPJ DBT\template\lib\template:GEOENGINEERS.GDT\GELB_TESTPIT_IP_ENV

Date Excavated: 1/4/2011
 Equipment: CAT 321LCR Trackhoe

Logged By: AMW
 Total Depth (ft) 9.5

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
1	1			Concrete Rubble		Concrete rubble with sand and gravel matrix (fill)	NS	<1	No odor
2	2			GM		Grayish-green to gray-brown silty gravel with sand (moist) (fill)			
3	3								
4	4		2	Woodwaste		Dark brown to black apparent charred woodwaste with dimensional lumber (moist) (fill)	SS	<1	Slight odor
5	5								
6	6								
7	7		3	SW-SM		Two >12-inch boulders in south and west sidewalls Dark brown to black fine to coarse sand with fine to coarse gravel with silt (moist) (fill)	MS	<1	HC odor
8	8								
9	9								

Test pit completed at 9.5 feet bgs.
 Slow to moderate groundwater seepage observed at 8.5 feet bgs.
 No caving observed.

6-inch-diameter fiberglass pipe with 90° elbow in SW corner of test pit.
 Three pilings exposed at SE corner, SW corner, and north sidewall.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-03



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-33
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 TEST PITS.GPJ DBT\template\lib\template\GEOENGINEERS.GDT\GELB_TESTPIT_IP_ENV

Date Excavated: 1/5/2011
 Equipment: CAT 321LCR Trackhoe

Logged By: AMW
 Total Depth (ft) 7.0

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
1	1		1	Concrete Rubble		Concrete rubble with sand and gravel matrix (fill)			
2	2			GM		Brown fine to coarse silty gravel with fine to coarse sand (moist) (includes concrete rubble, weathered lime rock, apparent clinker and iron scrap) (fill)	NS	<1	No odor
7	7		2		▽	Apparent sawdust in northeast corner of test pit; becomes wet at 7 feet bgs	NS	<1	No odor

Test pit completed at 7 feet bgs.
 Slow groundwater seepage observed at 7 feet bgs.
 No caving observed.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-04




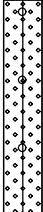


Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-34
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 TEST PITS.GPJ DBTemplateLib\Template:GEOENGINEERS.GDT\GEIS_TESTPIT_IP_ENV

Date Excavated: 1/5/2011
 Equipment: CAT 321LCR Trackhoe

Logged By: AMW
 Total Depth (ft) 8.0

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing							
1	1		1		GW		Brown fine to coarse gravel with fine to coarse sand, occasional cobbles (up to 6 inches) and trace silt (moist) (fill)	NS	<1	No odor
2	2									
3	3									
4	4									
5	5									
6	6		2		SW-SM		Dark brown fine to coarse sand with fine to coarse gravel with silt, bricks, concrete, clinker and minor amounts of wood debris (moist) (fill)	NS	<1	No odor
7	7									
8	8		3		SW		Gray fine to coarse sand with fine to coarse gravel, trace silt, and abundant shell fragments (wet) (intertidal deposits)	NS	<1	No odor

Test pit completed at 8 feet bgs.
 Fast groundwater seepage observed at 6 feet bgs.
 No caving observed.
 Plastic 4-inch-diameter pipe observed in south sidewall at approximately 1.5 feet bgs.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-05



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-35
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 TEST PITS.GPJ DBT\template\lib\template:GEOENGINEERS.GDT\GELB_TESTPIT_IP_ENV

Date Excavated: 1/5/2011
 Equipment: CAT 321LCR Trackhoe

Logged By: AMW
 Total Depth (ft) 8.0

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
	1			Concrete Rubble		Concrete rubble in sand and gravel matrix (fill)			
	2			Concrete Slab		Concrete slab with brick and stone base			
	3	1		SW-SM		Brown fine to coarse sand with fine to coarse gravel with silt, bricks, concrete and wood debris (fill)	NS	<1	No odor
	5						NS	<1	No odor
	7	2		SW		Gray fine to coarse sand with fine to coarse gravel and trace silt (moist) (fill)	NS	<1	No odor
	8				▽	Becomes wet at 8 feet bgs.			

Test pit completed at 8 feet bgs.
 Slow groundwater seepage observed at 8 feet bgs.
 No caving observed.
 Wood pilings in center of test pit at approximately 1-foot bgs and in NW corner of test pit.
 Wire wrapped 12-inch-diameter wood pipe at approximately 45° angle along south sidewall, angled from east down to the west.
 2-inch-diameter gray PVC pipe encased in red concrete running along south side of test pit.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-06



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-36
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 TEST PITS.GPJ DBT\template\lib\template:GEOENGINEERS.GDT\GEI6_TESTPIT_IP_ENV

Date Excavated: 1/5/2011

Logged By: AMW

Equipment: CAT 321LCR Trackhoe

Total Depth (ft) 8.0

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing							
1	1		1		GW-GM		Brown fine to coarse gravel with fine to coarse sand with silt, bricks, concrete and apparent clinker (moist) (fill)	NS	<1	No odor
2	2						2-inch-diameter polyethylene pipe coming out of east sidewall extending to the west at 2 feet bgs			
3							12-inch-diameter x 2-foot-long iron pipe in southeast corner of test pit			
4										
5					Sawdust		12-inch-thick dark brown to black apparent sawdust layer (moist) (fill)	NS	<1	No odor
6			2		SW	▽	Orange-brown fine to coarse sand with fine to coarse gravel, bricks and concrete rubble intermixed (moist to wet) (fill)			
7					SP		Gray-brown medium to coarse sand with fine to coarse gravel and trace silt (wet) (fill)			
8			3					NS	<1	HC odor

Test pit completed at 8 feet bgs.
 Fast groundwater seepage observed at 6 feet bgs.
 No caving observed.
 Concrete rubble observed from surface to 6 feet bgs.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-07



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-37
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 TEST PITS.GPJ DBT\template\lib\template\GEOENGINEERS.GDT\GEL_TESTPIT_IP_ENV

Date Excavated: 1/5/2011
 Equipment: CAT 321LCR Trackhoe

Logged By: AMW
 Total Depth (ft) 7.5

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing							
1	1				GM		Brown fine to coarse silty gravel with fine to coarse sand (moist) (fill)			
2	2		1		GW-GM		Dark brown fine to coarse gravel with fine to coarse sand with silt, occasional cobbles, steel and iron debris (fill)	NS	<1	No odor
5	5		2		GW		Black stained gravel with sand (fill)	NS	<1	No odor
6	6				SM	▽	Gray-brown silty fine to coarse sand with fine to coarse gravel (moist) (fill)	HS	5.7	HC odor
6	6							NS	<1	No odor
7	7				SP		Gray medium to coarse sand with occasional gravel and trace silt (moist) (fill)	NS	<1	No odor

Test pit completed at 7.5 feet bgs.
 Slow to moderate groundwater seepage observed at 6 feet bgs.
 No caving observed.
 Removed Bunker C oil located near base of utility pole at southeast corner of the tank #1 excavation.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-08



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-38
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 TEST PITS.GPJ DB\template\lib\template\GEOENGINEERS.GDT\GEL_TESTPIT_IP_ENV

Date Excavated: 1/6/2011

Logged By: AMW

Equipment: CAT 321LCR Trackhoe

Total Depth (ft) 5.0

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
	1			SW		Light brown fine to coarse sand with fine to coarse gravel and trace silt (moist) (fill)	NS	<1	No odor
				GW-GM		Gray-brown fine to coarse gravel with fine to coarse sand with silt, bricks and concrete rubble (moist) (fill)			
	2	1		Charred Wood		Dark brown to black apparent charred wood with scrap iron, bricks, glass and one railroad tie (moist) (fill)	NS	<1	No odor
		2					NS	<1	No odor
	3				▽				
	4			SW		Gray fine to coarse sand with fine to coarse gravel and trace silt (wet) (alluvium)			
	5		3				NS	<1	No odor

Test pit completed at 5 feet bgs.
 Slow groundwater seepage observed at 3 feet bgs.
 No caving observed.
 4-foot long railroad iron running across south end of test pit; possible scrap iron pile.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-09



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-39
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJ\ECT\S00\013701503\GINT\013701503 TEST PITS.GPJ DBT\template\lib\template\GEOENGINEERS.GDT\GEI6_TESTPIT_IP_ENV

Date Excavated: 1/6/2011

Logged By: AMW

Equipment: CAT 321LCR Trackhoe

Total Depth (ft) 4.0

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
	1			SW		Gray-brown fine to coarse sand with fine to coarse gravel and trace silt (moist) (fill)	NS	<1	No odor
	2	1		GM		Brown fine to coarse silty gravel with fine to coarse sand, bricks and clay tile (moist) (fill)	NS	<1	No odor
	3	2		Waste Material		Apparent charred wood, trash, broken glass, and steel and iron scrap (fill)	NS	<1	No odor
	4			SP	▽	Gray medium to coarse sand with fine to coarse gravel and trace silt (wet) (fill)	NS	<1	No odor

Test pit completed at 4 feet bgs.
 Moderate groundwater seepage observed at 3.5 feet bgs.
 No caving observed.
 2-foot-wide concrete structure along north sidewall.
 Clay tile pipe immediately south of concrete structure at 1-foot bgs.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-10



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-40
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 TEST PITS.GPJ DBT\template\lib\template\GEOENGINEERS.GDT\GELE_TESTPIT_IP_ENV

Date Excavated: 1/7/2011
 Equipment: CAT 321LCR Trackhoe

Logged By: AMW
 Total Depth (ft) 7.0

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
1	1			Concrete Rubble		Concrete rubble with bricks and rebar (moist) (fill)	NS	<1	No odor
2	2			SW-SM		Brown fine to coarse sand with fine to coarse gravel with silt, bricks, wood debris, and steel wire (moist) (fill)			
5	2			GM/SM		Dark gray silty fine to coarse gravel with fine to coarse sand with bricks, concrete with reinforcing wire, and wood debris (moist) (fill)	HS	18	Moderate HC odor
7	3						HS	2.3	Moderate HC odor

Test pit completed at 7 feet bgs.
 Fast groundwater seepage observed at 6 feet bgs.
 No caving observed.
 Very compacted subsurface. Dug with difficulty without subsurface structures or pilings.
 Diesel-like odor with sheen in silty gravel horizon.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-11



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-41
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 TEST PITS.GPJ DBT\template\lib\template\GEOENGINEERS.GDT\GEI8_TESTPIT_IP_ENV

Date Excavated: 1/4/2011
 Equipment: CAT 321LCR Trackhoe

Logged By: AMW
 Total Depth (ft) 5.0

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sneen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
	1			Concrete Rubble		Concrete rubble in sand and gravel matrix (fill)			
	2		1	GW		Brown fine to coarse gravel with fine to coarse sand and trace silt (moist) (fill)	NS	<1	No odor
	4		2				NS	<1	No odor

Test pit completed at 5 feet bgs.
 Fast groundwater seepage observed at 4.5 feet bgs.
 No caving observed.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-12



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-42
 Sheet 1 of 1

Date Excavated: 1/7/2011

Logged By: AMW

Equipment: CAT 321LCR Trackhoe

Total Depth (ft) 4.5

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sneen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
	1			Concrete Rubble		Concrete rubble to below water table with rebar, PVC pipe and stainless steel pipe pieces, bricks, and sections of broken electrical conduit and wire (fill)	NS		No odor
	2								
	3								
	4								

Test pit completed at 4.5 feet bgs.
 Fast groundwater seepage observed at 4 feet bgs.
 No caving observed.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-13



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-43
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\0137015003\GINT\013701503 TEST PITS.GPJ DB\Templates\Lib\Template:GEOENGINEERS.GDT\GEL_TESTPIT_IP_ENV

Date Excavated: 1/6/2011
 Equipment: CAT 321LCR Trackhoe

Logged By: AMW
 Total Depth (ft) 5.5

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
	1			GW		Brown-gray fine to coarse gravel with fine to coarse sand and trace silt with bricks, concrete and scrap iron (fill)	NS	<1	No odor
	2	1		Woodwaste		Black to dark brown wood chips (fill)	HS	3.2	H ₂ S odor, HC odor
	3		2				NS	<1	No odor
	4			SP-SM		Gray-brown fine to medium sand with silt and occasional fine gravel (moist) (fill)			
	5		3	SW	▽	Gray fine to coarse sand with fine to coarse gravel and trace silt (wet) (fill)	NS	<1	No odor

Test pit completed at 5.5 feet bgs.
 Slow groundwater seepage observed at 5 to 5.5 feet bgs.
 No caving observed.
 Apparent wood layer with hydrocarbon staining and odor (2 to 3.5 feet bgs).

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-14



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-44
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 TEST PITS.GPJ DBT\template\lib\template\GEOENGINEERS.GDT\GEI6_TESTPIT_IP_ENV

Date Excavated: 1/6/2011
 Equipment: CAT 321LCR Trackhoe

Logged By: AMW
 Total Depth (ft) 5.0

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
1	1			Concrete Rubble		Concrete rubble in sand and gravel matrix (moist) (fill)	NS	<1	No odor
2	2			Woodwaste		Scraps of lumber (fill)			
3	3			Lime Rock Debris		Brown 4- to 12-inch cobbles (angular) with fine to coarse gravel, trace sand and trace silt (fill)			
4	4			Sawdust		Dark brown apparent sawdust (fill)			
5	5			SW	▽	Gray fine to coarse sand with occasional fine gravel and trace silt (moist) (fill)	SS	<1	No odor
							NS	<1	No odor

Test pit completed at 5 feet bgs.
 Slow to moderate groundwater seepage observed at 4.5 feet bgs.
 No caving observed.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-15



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-45
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 TEST PITS.GPJ DB\Templates\Lib\Template:GEOENGINEERS.GDT\GEL_TESTPIT_IP_ENV

Date Excavated: 1/6/2011
 Equipment: CAT 321LCR Trackhoe

Logged By: AMW
 Total Depth (ft) 5.0

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
	1		1	Concrete Rubble		Concrete rubble with bricks, pieces of rebar and pipe intermixed (moist) (fill)	NS	<1	No odor
	2			SW-SM		Gray fine to coarse sand with fine to coarse gravel with silt and occasional cobbles (up to 4-inch diameter); partially cemented at upper contact (moist) (fill)	NS	<1	No odor
	5		2	SW	▽	Gray fine to coarse sand with fine to coarse gravel with trace silt (wet) (fill)	NS	<1	No odor

Test pit completed at 5 feet bgs.
 Fast groundwater seepage observed at 4.5 feet bgs.
 No caving observed.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-16



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-46
 Sheet 1 of 1

Date Excavated: 1/6/2011

Logged By: AMW

Equipment: CAT 321LCR Trackhoe

Total Depth (ft) 5.0

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sneen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
	1			Concrete Rubble		Concrete rubble with bricks and occasional scrap iron (fill)			
	2								
	3								
	4				▽			NS	No odor
	5								

Test pit completed at 5 feet bgs.
 Fast groundwater seepage observed at 4 feet bgs.
 No caving observed.
 Assumed concrete rubble backfill from hog fuel interim action area excavation.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-17



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-47
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 TEST PITS.GPJ DB\Templates\Lib\Template:GEOENGINEERS.GDT\GEL_TESTPIT_IP_ENV

Date Excavated: 1/7/2011

Logged By: AMW

Equipment: CAT 321LCR Trackhoe

Total Depth (ft) 5.0

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
				Concrete Rubble		Concrete rubble with debris (fill)			
	1			SW-SM		Brown fine to coarse sand with fine to coarse gravel with silt, occasional bricks and concrete debris (moist) (fill)	NS	<1	No odor
	2								
	3								
	4						NS	<1	No odor
	5					Becomes dark gray; wood debris	HS	23	HC odor

Test pit completed at 5 feet bgs.
 No groundwater seepage observed.
 No caving observed.
 Stainless steel pipe, approximately 8-inch-diameter x 10-feet long, crossing the test pit north to south.
 No samples collected.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-18



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-48
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJ\ECT\S0013701503\GINT\013701503 TEST PITS.GPJ DBT\template\lib\template\GEOENGINEERS.GDT\GEIS_TESTPIT_IP_ENV

Date Excavated: 1/7/2011

Logged By: AMW

Equipment: CAT 321LCR Trackhoe

Total Depth (ft) 7.0

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
				Concrete Rubble		Concrete rubble with rebar and bricks (fill)			
	1			SW-SM		Brown fine to coarse sand with fine to coarse gravel with silt, occasional bricks and concrete rubble (fill)	NS	<1	No odor
	2								
	3								
	4						NS	<1	No odor
	5								
	6			SP		Gray medium to coarse sand with fine gravel and trace silt with shell fragments, broken glass and a section of chainlink fence (fill)	HS	<1	HC odor
	7				▽				

Test pit completed at 7 feet bgs.
 Slow groundwater seepage observed at 7 feet bgs.
 No caving observed.
 Concrete footer in northeast corner of test pit.
 No samples collected.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-19



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-49
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJ\ECTS\00137015003\GINT\013701503 TEST PITS.GPJ DB\Templates\Lib\Template:GEOENGINEERS.GDT\GEI8_TESTPIT_IP_ENV

Date Excavated: 1/7/2011

Logged By: AMW

Equipment: CAT 321LCR Trackhoe

Total Depth (ft) 3.5

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
	1			Concrete Rubble		Concrete rubble with bricks and rebar (fill)	NS	<1	No odor
	2			GW-GM		Brown fine to coarse gravel with fine to coarse sand with silt, wood debris (apparent sawdust, wood chips, and wood beams set vertically in subsurface) (fill)	NS	<1	No odor
	3						NS	<1	No odor

Test pit completed at 3.5 feet bgs.
 No groundwater seepage observed.
 No caving observed.
 Step-out exploration approximately 50 feet east of TP-02.

Three attempts yielded no information below 4 feet bgs due to abundant concrete structures. First attempt was 50 feet east of TP-02, second attempt was 45 feet east of TP-02, and third attempt was 30 feet east of TP-02.
 Square grid pattern of concrete footer walls, approximately 4 feet square, backfilled to grade with debris.
 No samples collected.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-20



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-50
 Sheet 1 of 1

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\0137015003\GINT\013701503 TEST PITS.GPJ DBT\template\lib\template\GEOENGINEERS.GDT\GEI6_TESTPIT_IP_ENV

Date Excavated: 1/7/2011
 Equipment: CAT 321LCR Trackhoe

Logged By: AMW
 Total Depth (ft) 3.0

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sheen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
	1			Concrete Rubble	▽	Concrete rubble (fill)	NS	<1	No odor
	2			GW	▽	Dark brown fine to coarse gravel with fine to coarse sand and trace silt, abundant bricks, lime rock, and apparent charred wood (fill)	NS	<1	No odor
	3			ML	▽	Dark brown to black sandy silt with abundant wood debris (apparent sawdust and wood chips) (moist) (fill)	NS	<1	No odor

Test pit completed at 3 feet bgs.
 Fast groundwater seepage observed at 1 and 3 feet bgs.
 No caving observed.
 Perched water in concrete rubble and standing water at ground surface approximately 5 feet south of test pit.

Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit TP-21



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Figure B-51
 Sheet 1 of 1

Date Excavated: 1/7/2011
 Equipment: CAT 321LCR Trackhoe

Logged By: AMW
 Total Depth (ft) 8.0

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	Encountered Water	MATERIAL DESCRIPTION	Sneen	Headspace Vapor	Notes
		Testing Sample	Sample Name Testing						
	1			Concrete Rubble		Concrete rubble with rebar, bricks and other debris (fill)	NS	<1	Sweet odor
	2			SM		Dark gray silty fine to medium sand with gravel and fill debris (including bricks, concrete rubble, lime rock, wood debris, wire and occasional scrap iron) (fill)			
	4				▽		NS	<1	Sweet odor
	5						NS	<1	Sweet odor
	8				▽		NS	<1	Sweet odor

Test pit completed at 8 feet bgs.
 Moderately slow groundwater seepage observed at 1, 4 and 8 feet bgs.
 No caving observed.
 Excavated at location of survey stake down to 8 feet bgs; did not encounter a green pipe (the pipe that was expected based on prior RI sampling). Continued west at same depth and eventually exposed an iron pipe (approximately 10-inch-diameter) running parallel to excavation along the north sidewall, at approximately 6 feet bgs; pipe had belled joints. Trench was approximately 30 feet long east to west, 7 feet wide, and approximately 8 feet deep.
 Collected grab groundwater sample.

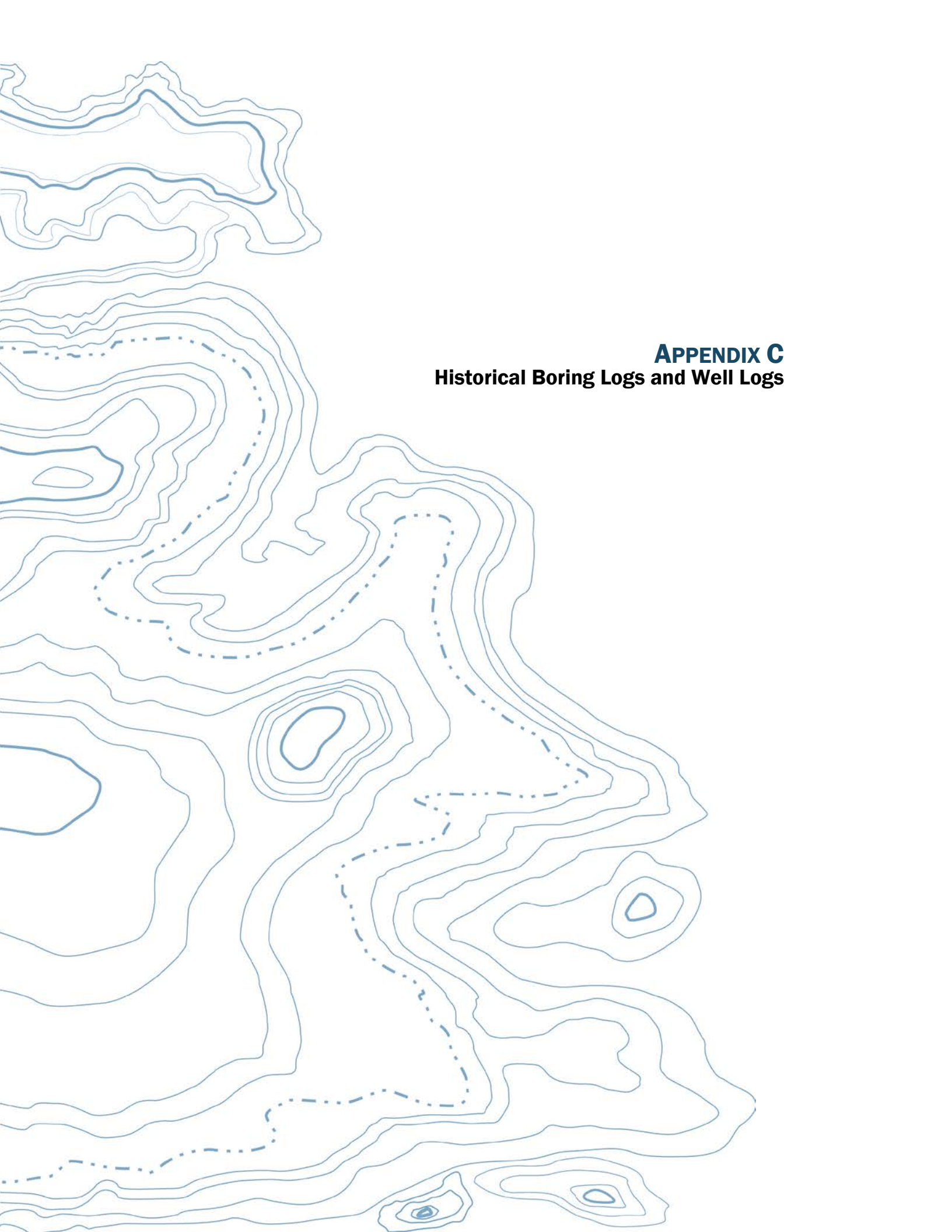
Notes: Please see Figure B-1 for explanation of symbols.
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 feet.

Log of Test Pit PIPE-1-SR23



Project: Rayonier Mill
 Project Location: Port Angeles, Washington
 Project Number: 0137-015-03

Seattle: Date: 10/28/11 Path: W:\SEATTLE\PROJECTS\013701503\GINT\013701503 TEST PITS.GPJ DBT\template\lib\template\GEOENGINEERS.GDT\GELB_TESTPIT_IP_ENV












APPENDIX C
Historical Boring Logs and Well Logs

TETRA TECH FW

PROJECT NAME: Uplands Remedial Investigation
BORING NUMBER: SSL22
AREA: Spent Sulfite Liquor Lagoon
CLIENT: Rayonier
SITE MANAGER: Jack Anderson



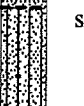


DRILLING METHOD: 4-inch HSA
DRILLING CONTRACTOR: Cascade Drilling
DATE COMPLETED: 5/14/03
TOTAL DEPTH: 8 ft
WATER DEPTH: 7.5 ft

Depth	Sample Recovery	Blow Counts	Sample ID	Moisture	% Crs. Gravel	% Fine Gravel	% Crs. Sand	% Med. Sand	% Fine Sand	% Silt	% Clay	Graphic Log	USCS Symbol	Soil Description
0			R Y03-79											Ground Surface
			ISU: 98	Dry	25	25	20	20	10				SP	Gravelly Sand 0.0 - 0.3 ft. Brown, dry, loose, gravelly SAND 0.3 - 1.5 ft. No recovery
1		48												
		34												
2		50											SP	1.5 - 3.5 ft. Same as above
		50												
3		25											SP	
		50												
4		22	R Y03-80	Dry									SP	3.5 - 4.0 ft. No recovery
		22	ISU: 99										SP	4.0 - 5.0 ft. Same as above
		18												
5		15											SP	5.0 - 5.5 ft. No recovery
		16			30	25	25	15	5				GP	Sandy Gravel 5.5 - 6.5 ft. Grey, dry, sandy GRAVEL
		15												
6		28				10	40	30	15	5			SP	Sand 6.5 - 8.0 ft. Grey/black/white, damp to wet, medium dense, SAND
		34												
7		21		Wet									SP	
8														
9														
10														End of Borehole

TETRA TECH FW

PROJECT NAME: Uplands Remedial Investigation
BORING NUMBER: SR24
AREA: Screen Room
CLIENT: Rayonier
SITE MANAGER: Jack Anderson

DRILLING METHOD: Back Hoe
DRILLING CONTRACTOR: Bruch and Bruch
DATE COMPLETED: 5/20/03
TOTAL DEPTH: 16 ft
WATER DEPTH: 16 ft

Depth	Sample Recovery	Blow Counts	Sample ID	Moisture	% Crs. Gravel	% Fine Gravel	% Crs. Sand	% Med. Sand	% Fine Sand	% Silt	% Clay	Graphic Log	USCS Symbol	Soil Description									
0			RY03-73 ISU: 92	Dry	25	30	20	15	10				GP	Ground Surface <i>Sandy Gravel</i> 0.0 - 2.0 ft. Brown, dry, sandy GRAVEL, plastic, metal, assorted debris, fill material ?, surface sample from 0 to 3 inches below grade									
1																							
2			RY03-74 ISU: 93	Dry	10	20	20	30	20				SP	<i>Sand</i> 2.0 - 6.0 ft. Brown, dry, SAND, minor gravel, medium to coarse grained, steel pipe on south side of excavation									
3																							
4																							
5																							
6														<i>Sulfur Debris</i> 6.0 - 7.0 ft. Yellow, medium to loose, sulfur cake									
7													SP	<i>Sand</i> 7.0 - 9.0 ft. Grey, damp, SAND, some silt and gravel									
8						15	30	25	20	10													
9													SM	<i>Silty Sand</i> 9.0 - 16.0 ft. Grey to black, silty SAND, pulp liquor odor, perched water in gravel lenses at a depth of 9 ft, subsurface sample from 3 inches to 16 feet below grade									
10				Dry		10	30	30	30														
11																							
12																							
13																							
14																							
15																							
16				Wet										16 ft. Groundwater percolating from bottom of trench									
17														End of Borehole									

TETRA TECH FW

PROJECT NAME: Uplands Remedial Investigation
BORING NUMBER: RS21
AREA: Recovery Boiler
CLIENT: Rayonier
SITE MANAGER: Jack Anderson


DRILLING METHOD: Back Hoe
DRILLING CONTRACTOR: Bruch and Bruch
DATE COMPLETED: 5/16/03
TOTAL DEPTH: 9.5 ft
WATER DEPTH: 9.5 ft

Depth	Sample Recovery	Blow Counts	Sample ID	Moisture	% Crs. Gravel	% Fine Gravel	% Crs. Sand	% Med. Sand	% Fine Sand	% Silt	% Clay	Graphic Log	USCS Symbol	Soil Description
0														Ground Surface
0.0 - 3.5			RY03-59 ISU: 78 RY03-95 ISU: 114	Dry									GP	Railroad Bedding 0.0 - 3.5 ft. Railroad bedding, coarse gravel, duplicate sample collected
3.5 - 4.0													SM	Silty Sand 3.5 - 4.0 ft. Grey, dry, medium dense, silty SAND, some wood debris.
4.0 - 9.5			RY03-60 ISU: 79	Dry	10	35	35	30	45	20	25		SP	Sand 4.0 - 9.5 ft. Brown to grey, dry, medium dense, coarse to medium grained, SAND, some shells, metal, oxidized orange layers, two big pillings on either side of trench
9.5				Wet	10	20	35	15	15	5	5			9.5 ft. Color change to grey, more gravel
10														End of Borehole

TETRA TECH FW

PROJECT NAME: Uplands Remedial Investigation
BORING NUMBER: RB22
AREA: Recovery Boiler
CLIENT: Rayonier
SITE MANAGER: Jack Anderson

DRILLING METHOD: 4-inch HSA
DRILLING CONTRACTOR: Cascade Drilling
DATE COMPLETED: 5/13/03
TOTAL DEPTH: 8 ft
WATER DEPTH: 7.5 ft

Depth	Sample Recovery	Blow Counts	Sample ID	Moisture	% Crs. Gravel	% Fine Gravel	% Crs. Sand	% Med. Sand	% Fine Sand	% Silt	% Clay	Graphic Log	USCS Symbol	Soil Description
0			RY03-86 ISU: 105	Dry	25	20	25	20	10				SP	Ground Surface
		23												0.0 - 0.3 ft. Brown, dry, loose, gravelly SAND, glass, plastic, fill material? 0.3 - 1.0 ft. No recovery
1		50	RY03-58 ISU: 77	Dry								SP	1.0 - 3.0 ft. Same as above, color change at 2.5 ft.	
2		18												
		12												
		13												
3		7	RY03-58 ISU: 77	Wet								SP	3.0 - 3.5 ft. No recovery	
		7												
		9												
4		11												
		13												
		13												
5		16	RY03-58 ISU: 77	Wet	30	30	25	15	10			SP	4.5 - 5.0 ft. No recovery	
		40												
		50												
6			RY03-58 ISU: 77	Wet	25	20	15	15	15			SP	5.0 - 6.0 ft. Black, dry, loose, gravelly SAND, angular gravel	
7			RY03-58 ISU: 77	Wet	25	20	15	15	15			SP	6.5 - 7.0 ft. No recovery	
8			RY03-58 ISU: 77	Wet	25	20	15	15	15			SP	7.5 - 7.5 ft. Same as above	
			RY03-58 ISU: 77	Wet	25	20	15	15	15			SP	7.5 - 8.0 ft. No recovery	
9														
10														
End of Borehole														

TETRA TECH FW

PROJECT NAME: Uplands Remedial Investigation

BORING NUMBER: LY25

AREA: Log Yard

CLIENT: Rayonier

SITE MANAGER: Jack Anderson

DRILLING METHOD: 4-inch HSA

DRILLING CONTRACTOR: Cascade Drilling

DATE COMPLETED: 5/12/03

TOTAL DEPTH: 8 ft

WATER DEPTH: 8 ft

Depth	Sample Recovery	Blow Counts	Sample ID	Moisture	% Crs. Gravel	% Fine Gravel	% Crs. Sand	% Med. Sand	% Fine Sand	% Silt	% Clay	Graphic Log	USCS Symbol	Soil Description
0			RY03-36											Ground Surface
			ISU: 55	Dry	30	25	30	10	5				SP	<i>Gravelly Sand</i> 0.0 - 0.3 ft. Brown, dry, loose, gravelly SAND 0.3 - 1.5 ft. Traces of gravelly sand but no significant recovery
1		38												
		50												
2		45												<i>Sand</i> 1.5 - 2.5 ft. Brown, moist, SAND, minor gravel, coarse grained
		50				25	45	25	5					
3		50			15	30	40	10	5					2.5 - 3.0 ft. Gravel percentage increases 3.0 - 5.0 ft. Gravel percentage decreases
		50												
4		50	RY03-37	Dry										
		32	ISU: 56											
		50												
5		31			15	25	40	10	10				SP	5.0 - 5.5 ft. No recovery 5.5 - 8.0 ft. Same as above
6		50												
		26												
7		25												
		19												
8		16		Wet										
9														
10														End of Borehole

TETRA TECH FW

PROJECT NAME: Uplands Remedial Investigation
BORING NUMBER: DK20
AREA: Wood Breakdown Mill
CLIENT: Rayonier
SITE MANAGER: Jack Anderson


DRILLING METHOD: 4-inch HSA
DRILLING CONTRACTOR: Cascade Drilling
DATE COMPLETED: 5/15/03
TOTAL DEPTH: 8.5 ft
WATER DEPTH: 7 ft

Depth	Sample Recovery	Blow Counts	Sample ID	Moisture	% Crs. Gravel	% Fine Gravel	% Crs. Sand	% Med. Sand	% Fine Sand	% Silt	% Clay	Graphic Log	USCS Symbol	Soil Description
0														Ground Surface
														Asphalt 0.0 - 0.75 ft. Asphalt
1		7	RY03-19 RY03-92 ISU: 38	Dry	30	25	25	15	5				GP	Sandy Gravel 0.75 - 1.0 ft. Brown to grey, dry to moist, sandy GRAVEL, angular fill material. duplicate sample collected
		9			15	10	20	15	25	15			SM	Silty Sand 1.0 - 3.5 ft. Black to grey, dry, silty SAND, minor gravel, wood chips, fill material ?, slight odor
2		12												
3		4												
		4		Dry										
		5											SP	Gravelly Sand 3.5 - 4.0 ft. Brown, dry, gravelly SAND 4.0 - 5.0 ft. No recovery
4		2												
		2												
5		2	RY03-20 ISU: 39		20	15	25	25	15				GP	Sandy Gravel 5.0 - 5.5 ft. Brown, moist, sandy GRAVEL, Fill material?, plastic woven fabric debris 5.5 - 8.5 ft. No recovery
6		2												
		2												
		2												
7		3		Wet	25	30	25	25	5					7.0 ft. Very little gravel in sampler, wet
		4												
8		2												
9														End of Borehole
10														

TETRA TECH FW

PROJECT NAME: Uplands Remedial Investigation
BORING NUMBER: FR02
AREA: Finishing Room
CLIENT: Rayonier
SITE MANAGER: Jack Anderson

DRILLING METHOD: Backhoe
DRILLING CONTRACTOR: Bruch and Bruch
DATE COMPLETED: 5/16/03
TOTAL DEPTH: 5.5 ft
WATER DEPTH: 5.5 ft

Depth	Sample Recovery	Blow Counts	Sample ID	Moisture	% Crs. Gravel	% Fine Gravel	% Crs. Sand	% Med. Sand	% Fine Sand	% Silt	% Clay	Graphic Log	USCS Symbol	Soil Description
0														Ground Surface
0 - 5.5			RY03-21 ISU: 40	Dry									SP	Gravelly Sand 0 - 5.5 ft. Grey to brown, damp, gravelly SAND, rounded to subangular gravel, some debris, concrete footing on south side of excavation. Same material throughout excavation.
3		NA	RY03-22 ISU: 41		20	25	25	20	10					
5.5				Wet										End of Borehole

TETRA TECH FW

PROJECT NAME: Uplands Remedial Investigation

BORING NUMBER: BY20

AREA: Bone Yard

CLIENT: Rayonier

SITE MANAGER: Jack Anderson

DRILLING METHOD: Backhoe

DRILLING CONTRACTOR: Bruch and Bruch

DATE COMPLETED: 5/15/03

TOTAL DEPTH: 8.5 ft

WATER DEPTH: 8.5 ft

Depth	Sample Recovery	Blow Counts	Sample ID	Moisture	% Crs. Gravel	% Fine Gravel	% Crs. Sand	% Med. Sand	% Fine Sand	% Silt	% Clay	Graphic Log	USCS Symbol	Soil Description
0														Ground Surface
0 - 3.0			RY03-11 ISU: 30	Dry	20	25	25	15	10				SP	Gravelly Sand 0 - 3.0 ft. Brown, dry, loose, gravelly SAND, organics, subrounded to angular gravel, fill material ?
3.0 - 4.5														Gravelly Sand 3.0 - 4.5 ft. Black, dry, medium dense, gravelly SAND, metals shavings, wood debris, brick, fill material ?
4.5 - 8.5			RY03-12 ISU: 31	Dry			10	20	30	40			SM	Silty Sand 4.5 - 8.5 ft. Grey to black, dry, medium dense, silty SAND
8.5				Wet			10	20	50	20				End of Borehole

TETRA TECH FW

PROJECT NAME: Uplands Remedial Investigation
BORING NUMBER: CS20
AREA: Chip Storage
CLIENT: Rayonier
SITE MANAGER: Jack Anderson

DRILLING METHOD: Backhoe
DRILLING CONTRACTOR: Bruch and Bruch
DATE COMPLETED: 5/19/03
TOTAL DEPTH: 9 ft
WATER DEPTH: 9 ft

Depth	Sample Recovery	Blow Counts	Sample ID	Moisture	% Crs. Gravel	% Fine Gravel	% Crs. Sand	% Med. Sand	% Fine Sand	% Silt	% Clay	Graphic Log	USCS Symbol	Soil Description
0														Ground Surface
0 - 1				Dry								GP		Wood Chips 0 - 1.0 ft. Wood Chips
1 - 2			RY03-13 ISU: 32		5	15	30	30				SP		Gravelly Sand 1.0 - 2.0 ft. Brown, dry, gravelly SAND, medium to coarse sand, surface sample collected from this interval beneath overlying wood chip layer
2 - 4				Dry								SP		
4 - 5			RY03-14 ISU: 33				30	40				SP		Gravelly Sand 2.0 - 9.0 ft. Grey to black, damp to wet, medium to coarse grained, gravelly SAND, siltier layers, gravel lenses with water, strong petroleum/liquor odor
5 - 6									40	60		SP		
6 - 7							30	40				SP		
7 - 8												SP		
8 - 9				Wet								SP		
9												SP		9.0 ft. Groundwater with yellow surfactant on water, possible pulp liquor impacts. Split sample collected by Tribe.
9 - 10												SP		End of Borehole

TETRA TECH FW

PROJECT NAME: Uplands Remedial Investigation

BORING NUMBER: AP20

AREA: Main Process Area

CLIENT: Rayonier

SITE MANAGER: Jack Anderson

DRILLING METHOD: 4-inch HSA

DRILLING CONTRACTOR: Cascade Drilling

DATE COMPLETED: 5/16/03

TOTAL DEPTH: 11 ft

WATER DEPTH: 9 ft

Depth	Sample Recovery	Blow Counts	Sample ID	Moisture	% Crs. Gravel	% Fine Gravel	% Crs. Sand	% Med. Sand	% Fine Sand	% Silt	% Clay	Graphic Log	USCS Symbol	Soil Description
0														Ground Surface
0 - 3.5			RY03-94	Dry	70	30	T						GP	Concrete Rubble 0.0 - 3.5 ft. Concrete rubble from demolition of site structures, graphic log inferred based on drill cuttings and feedback from the driller, split spoon samples were not collected.
3.5 - 5.0	40	13											GP	Sandy Gravel 3.5 - 5.0 ft. Brown to grey, dry, sandy GRAVEL, gravelly fill material ?, poorly sorted
5.0 - 5.5	13	19												5.0 - 5.5 ft. No recovery
5.5 - 6.5	30	21	RY03-01 ISU: 20	Dry	15	30	25	20	10				SP	Sand 5.5 - 6.5 ft. Brown, dry, medium dense, gravelly SAND, sample RY03-01 collected from 9 inch composite due to low sample recovery
6.5 - 7.0	12													6.5 - 7.0 ft. No recovery
7.0 - 8.0	12		RY03-02 ISU: 21										SP	7.0 - 8.0 ft. Same as above
8.0 - 10.5	8	4												8.0 - 10.5 ft. No recovery
10.5 - 11.0	5	5		Wet	5	15	35	30	15					
11.0 - 11.5	5	11												
11.5 - 12.0	9	9												
12.0 - 12.5	12												SP	10.5 - 11.0 ft. Same as above
12.5 - 13.0														End of Borehole

TETRA TECH FW

PROJECT NAME: Uplands Remedial Investigation
 BORING NUMBER: DB02
 AREA: Main Process Area
 CLIENT: Rayonier
 SITE MANAGER: Jack Anderson



DRILLING METHOD: 4-inch HISA
 DRILLING CONTRACTOR: Cascade Drilling
 DATE COMPLETED: 5/16/03
 TOTAL DEPTH: 4 ft
 WATER DEPTH: -2.5 ft during drilling

Depth	Sample Recovery Flow Counts	Sample ID	Molature	% Crs. Gravel	% Fine Gravel	% Crs. Sand	% Med. Sand	% Fine Sand	% Silt	% Clay	Graphic Log	USCS Symbol	Soil Description
0		RY03-15 ISU: 34	Dry	10	20	30	25	15				SP	Ground Surface
0.0 - 0.3 ft.	Gravelly Sand												0.0 - 0.3 ft. Grey, damp, gravelly SAND, wood chips
0.3 - 2.5 ft.													0.3 - 2.5 ft. Auger spinning and do not recover material, auger may be bouncing off wood does
2.5 - 4.0 ft.	7 8 5		Wet	5	15	30	35	15				SP	Gravelly Sand
2.5 - 4.0 ft.	Gravelly Sand	2.5 - 4.0 ft. Black, wet, gravelly SAND, wood, fill material?, possible pulp liquor impacted soil, subsurface sample was not collected due to poor recovery											
4.0 - 4.4 ft.													Notes Drill rig was stationed on an elevated building slab. The distance from the slab to ground surface is 4.4 ft. Water fills boring to within 0.5 ft of ground surface, possible perched water based on trenching observations in nearby SR03 and SR23, no sheen on water, water does not react with bentonite
4.4													End of Borehole

TETRA TECH FW

PROJECT NAME: Uplands Remedial Investigation
BORING NUMBER: DB21
AREA: Main Process Area
CLIENT: Rayonier
SITE MANAGER: Jack Anderson

DRILLING METHOD: Backhoe
DRILLING CONTRACTOR: Bruch and Bruch
DATE COMPLETED: 5/19/03
TOTAL DEPTH: 11.5 ft
WATER DEPTH: 11 ft

Depth	Sample Recovery	Blow Counts	Sample ID	Moisture	% Ck. Gravel	% Fine Gravel	% Ck. Sand	% Med. Sand	% Fine Sand	% Silt	% Clay	Graphic Log	USCS Symbol	Soil Description
0			RY03-17 ISU: 36											Ground Surface
0 - 7.0				Dry	15	20	25	20	20				SP	<i>Gravelly Sand</i> 0 - 7.0 ft. Brown, dry, gravelly SAND, subrounded to angular gravel, debris (brick, metal), vertical piling on north side of excavation, horizontal wood beam on either side of trench
6			RY03-18 ISU: 37											
6 - 7.0	NA			Dry			10	60	30				SM	<i>Silty Sand</i> 7.0 - 11.3 ft. Grey, moist, silty fine SAND, gravelly layers with minor water
11.3				Wet	5	25	30	30	10				SP	<i>Sand</i> 11.3 ft. Black, wet, coarse to medium SAND, oily water in excavation, petroleum odor and sheen on water
11.5														End of Borehole

TETRA TECH FW

PROJECT NAME: Uplands Remedial Investigation
 BORING NUMBER: GB08
 AREA: Log Yard
 CLIENT: Rayonier
 SITE MANAGER: Jack Anderson



DRILLING METHOD: 4-inch HSA
 DRILLING CONTRACTOR: Cascade Drilling
 DATE COMPLETED: 5/12/03
 TOTAL DEPTH: 7.5 ft
 WATER DEPTH: 7 ft

Depth	Sample Recovery	Blow Counts	Sample ID	Moisture	% Co. Gravel	% Fine Gravel	% Co. Sand	% Med. Sand	% Fine Sand	% Silt	% Clay	Graphic Log	UNCS Symbol	Soil Description
0			RY03-85											Ground Surface
0			ISU: 104	Dry									GP	Gravelly Sand 0.0 - 0.3 ft. Brown, dry, loose, gravelly SAND, organics
1		14			30	20	25	15	10				GP	0.3 - 2.0 ft. Grey to black, dry, gravelly SAND, wood, fill material?, subrounded to angular gravel
2		15											GP	2.0 - 2.5 ft. No recovery
3		30			10	25	25	25	15				GP	2.5 - 3.0 ft. Gravel content increases
3		50		Dry									GP	3.0 - 4.5 ft. Approximately 2 inches of recovery
4		9	RY03-25										GP	
4		9	ISU: 44		30	30	15	20	5				GP	4.5 - 6.0 ft. <u>Chunk</u> of limestone in sampler spoon, fill material?
5		37											GP	chunk
6		19											GP	6.0 - 7.5 ft. No recovery
7		10											GP	
7		14		Wet									GP	
8		8											GP	
8		8											GP	
8		8											GP	End of Borehole

TETRA TECH FW

PROJECT NAME: Uplands Remedial Investigation
 BORING NUMBER: SSL21
 AREA: Spent Sulfur Liquor Lagoon
 CLIENT: Rayonier
 SITE MANAGER: Jack Anderson

DRILLING METHOD: 4-inch HSA
 DRILLING CONTRACTOR: Cascade Drilling
 DATE COMPLETED: 5/14/03
 TOTAL DEPTH: 8 ft
 WATER DEPTH: 6.5 ft

Depth	Sample Recovery Blow Counts	Sample ID	Moisture	% Crs. Gravel	% Fine Gravel	% Crs. Sand	% Med. Sand	% Fine Sand	% Silt	% Clay	Graphic Log	USCS Symbol	Soil Description
0													Ground Surface
0.0 - 0.5	43	RY03-77 ISU: 96 RY03-91 ISU: 110	Dry	25	20	25	15	15				SP	Gravelly Sand 0.0 - 0.5 ft. Brown, dry, loose, gravelly SAND 0.5 - 2.3 ft. Brown to black, dry, loose, gravelly SAND, some orange oxidized layers, shells
0.5 - 2.3	26												
2.3 - 2.5	26												2.3 - 2.5 ft. Black, dry, Gravelly SAND, SSL impacts ?
2.5 - 3.5	50												2.5 - 3.5 ft. Color change to brown, dry, gravelly SAND, no SSL impacts, chunk of yellow sulfur in sampler
3.5 - 4.0	15	RY03-78 ISU: 97	Dry			45	30	25				SP	Sand 3.5 - 4.0 ft. Black/grey/white, dry to damp, coarse grained, SAND, minor gravel, oxidized layers at 5 ft
4.0 - 5.0	20												
5.0 - 5.5	17			10		40	30	20					5.0 ft. Color change to brown, oxidized layers increase, gravel increases
5.5 - 6.0	30		Wt										
6.0 - 6.5	23												
6.5 - 7.0	20												
7.0 - 7.5	20												
7.5 - 8.0	22												
8.0													End of Borehole

MAJOR DIVISIONS				TYPICAL NAMES
COARSE-GRAINED SOILS MORE THAN HALF IS LARGER THAN No. 200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN No. 4 SIEVE SIZE	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES
			GP	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES
		GRAVELS WITH OVER 12% FINES	GM	SILTY GRAVELS, POORLY GRADED GRAVEL-SAND-SILT MIXTURES
			GC	CLAYEY GRAVELS, POORLY GRADED GRAVEL-SAND-CLAY MIXTURES
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN No. 4 SIEVE SIZE	CLEAN SANDS WITH LITTLE OR NO FINES	SW	WELL-GRADED SANDS, GRAVELLY SANDS
			SP	POORLY GRADED SANDS, GRAVELLY SANDS
		SANDS WITH OVER 12% FINES	SM	SILTY SANDS, POORLY GRADED SAND-SILT MIXTURES
			SC	CLAYEY SANDS, POORLY GRADED SAND-CLAY MIXTURES
FINE-GRAINED SOILS MORE THAN HALF IS SMALLER THAN No. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50% OR LESS		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS, OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
			OL	ORGANIC CLAYS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS		Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS	

DRAFT

Blows/ft - Blows required to drive sampler 12 inches with a 140-pound hammer falling 30 inches. Blow counts for S&H samplers are converted to approximate "equivalent" SPT N values (N = 0.5 X S&H blows per foot)

- "Undisturbed" S&H or Shelby tube sample
- Bulk or classification sample
- Standard Penetration Test sample
- No sample recovered
- Core sample

KEY TO BORING LOG



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Engineering and
Environmental Services

SOIL CLASSIFICATION CHART
& KEY TO BORING LOG
ITT Rayonier Pulp Division
Port Angeles, Washington

PLATE

B1

DRAWN
HK

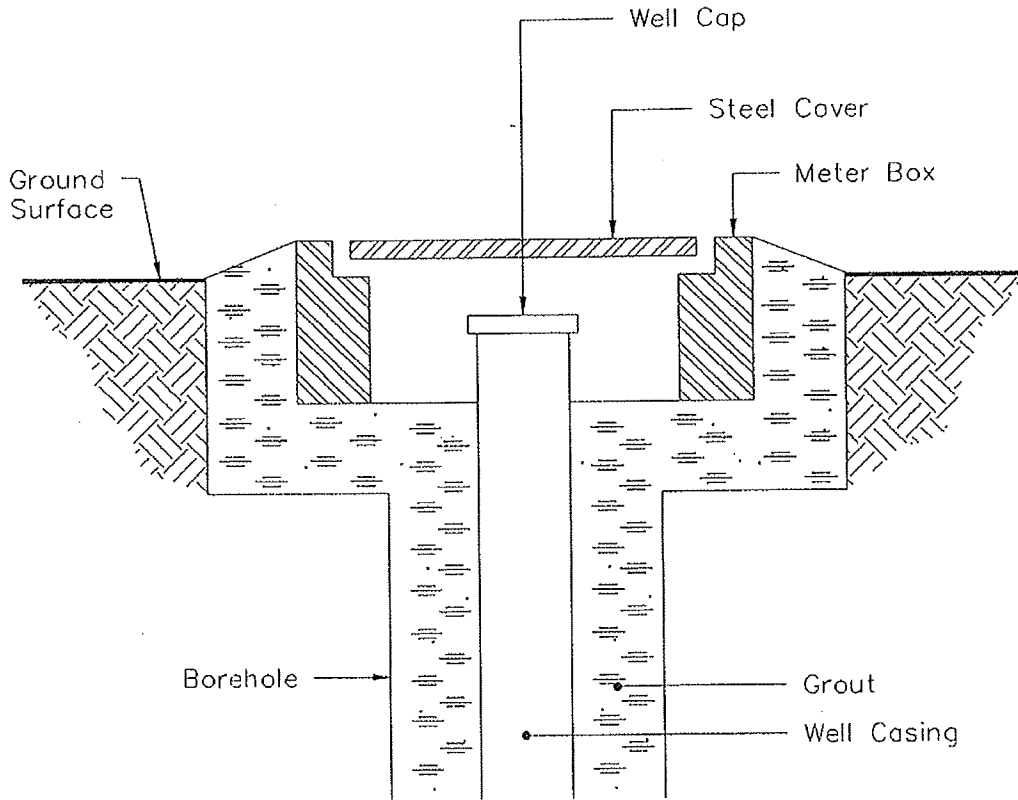
PROJECT NUMBER
22271-3

APPROVED

DATE
9/93

REVISED

DATE



WELLHEAD DETAIL

DRAFT

	Concrete/Gravel
	Blank PVC Casing
	Bentonite Seal
	Filter Sand
	Slotted PVC Casing
	Slough

KEY TO WELL DETAIL (ON LOGS OF BORINGS)

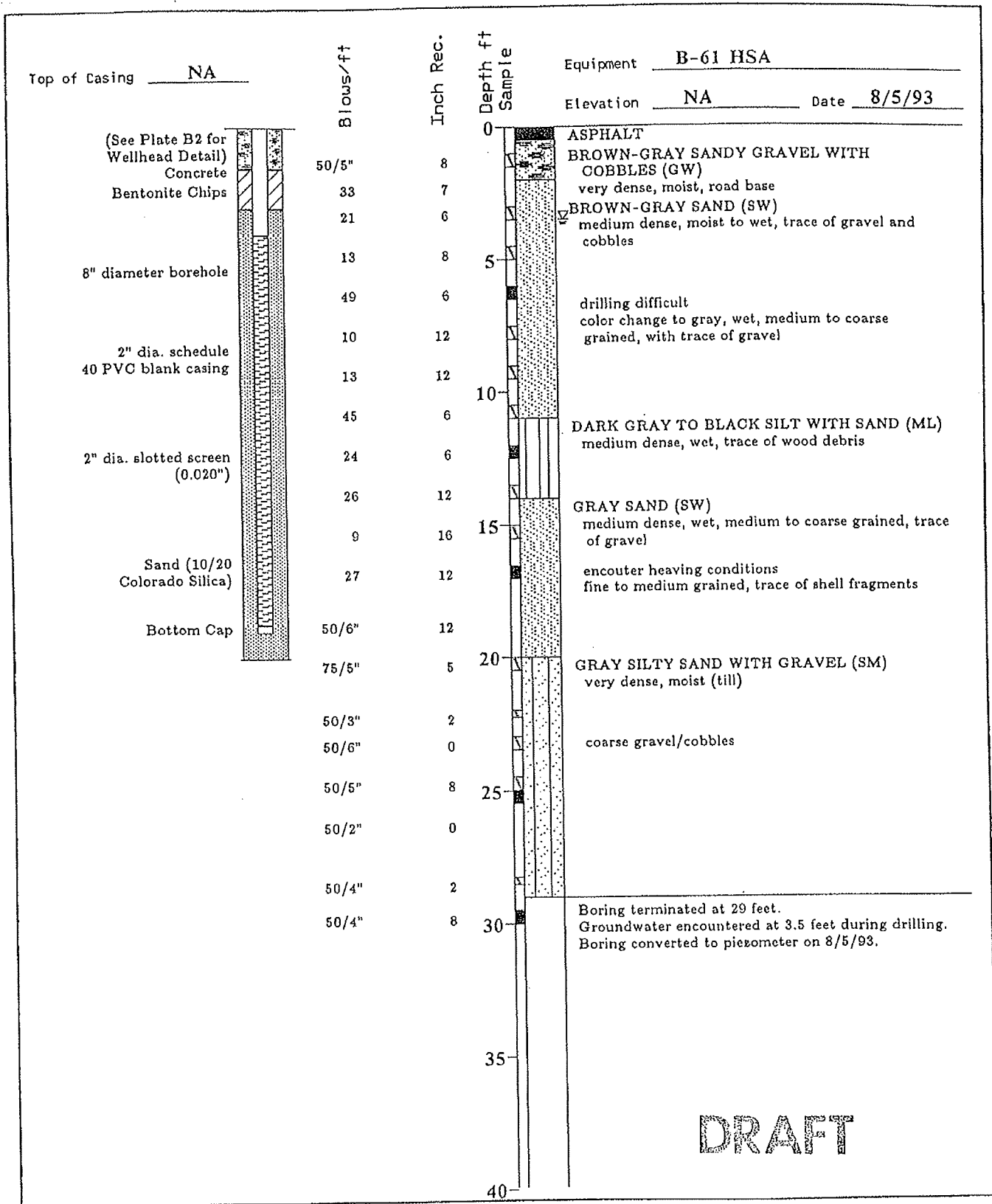
PLATE



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WELLHEAD DETAIL
ITT Rayonier Pulp Division
Port Angeles, California

B2



DRAFT



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Log of Boring PZ- 1
ITT Rayonier Pulp Division
Port Angeles, Washington

(sheet 1 of 1)

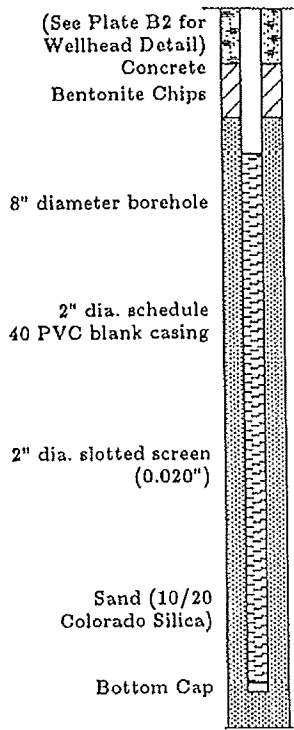
PLATE
B3

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED	DATE
HK	22271-3		10/93		

Top of Casing 10.70 ft

Equipment B-61 HSA

Elevation 11.13 ft Date 8/4/93



Blows/ft	Inch Rec.	Depth ft	Sample
32/6	0	0	
		5	
22	6	6	
26	2	10	
		18	
40	18		
32	12		
37	6	15	
34	6		
45	2		
20	0	20	
39	18		
70	2		

ASPHALT

GRAY-BROWN SANDY GRAVEL WITH COBBLES (GW)
dense, moist, road base
no drive sample attempted due to gravel and cobbles

attempted drive at 5 feet, but on coarse gravel/cobbles

color change to gray, wet

DARK GRAY SAND (SW)
dense, wet, medium to coarse grained, trace of subrounded gravel

approximately 1-foot of heave

drilling difficult

trace of shell fragments

GRAY SILTY SAND WITH GRAVEL (SM)
very dense, wet (till)

Boring terminated at 24 feet.
Groundwater encountered at 7.5 feet during drilling.
Boring converted to piezometer on 8/5/93.

DRAFT



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Log of Boring PZ- 2
ITT Rayonier Pulp Division
Port Angeles, Washington

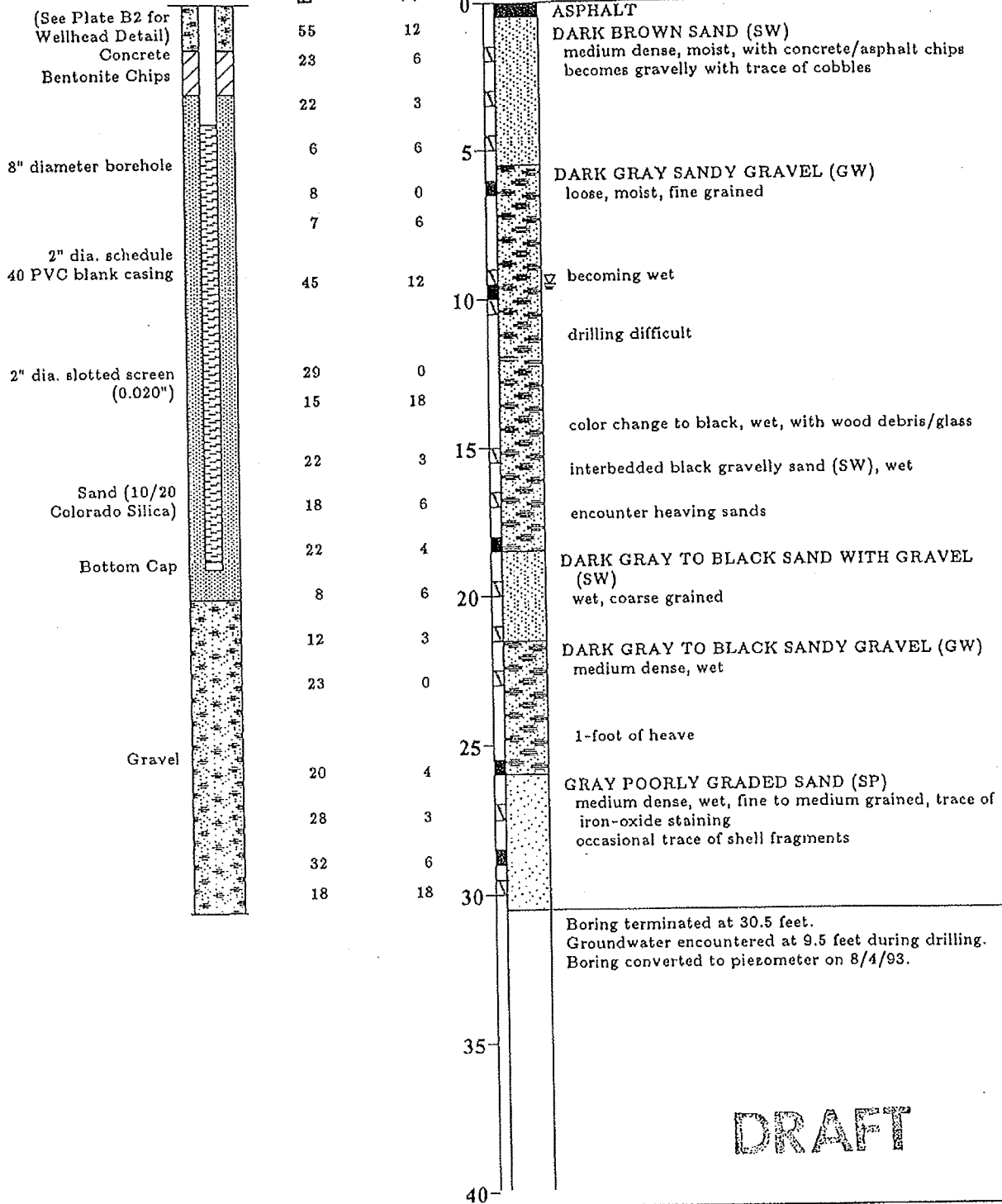
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PLATE
B4

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED	DATE
HK	22271-3		10/93		

Top of Casing 10.58 ft

Equipment B-61 HSA
 Elevation 10.77 ft Date 8/4/93



DRAFT

PLATE



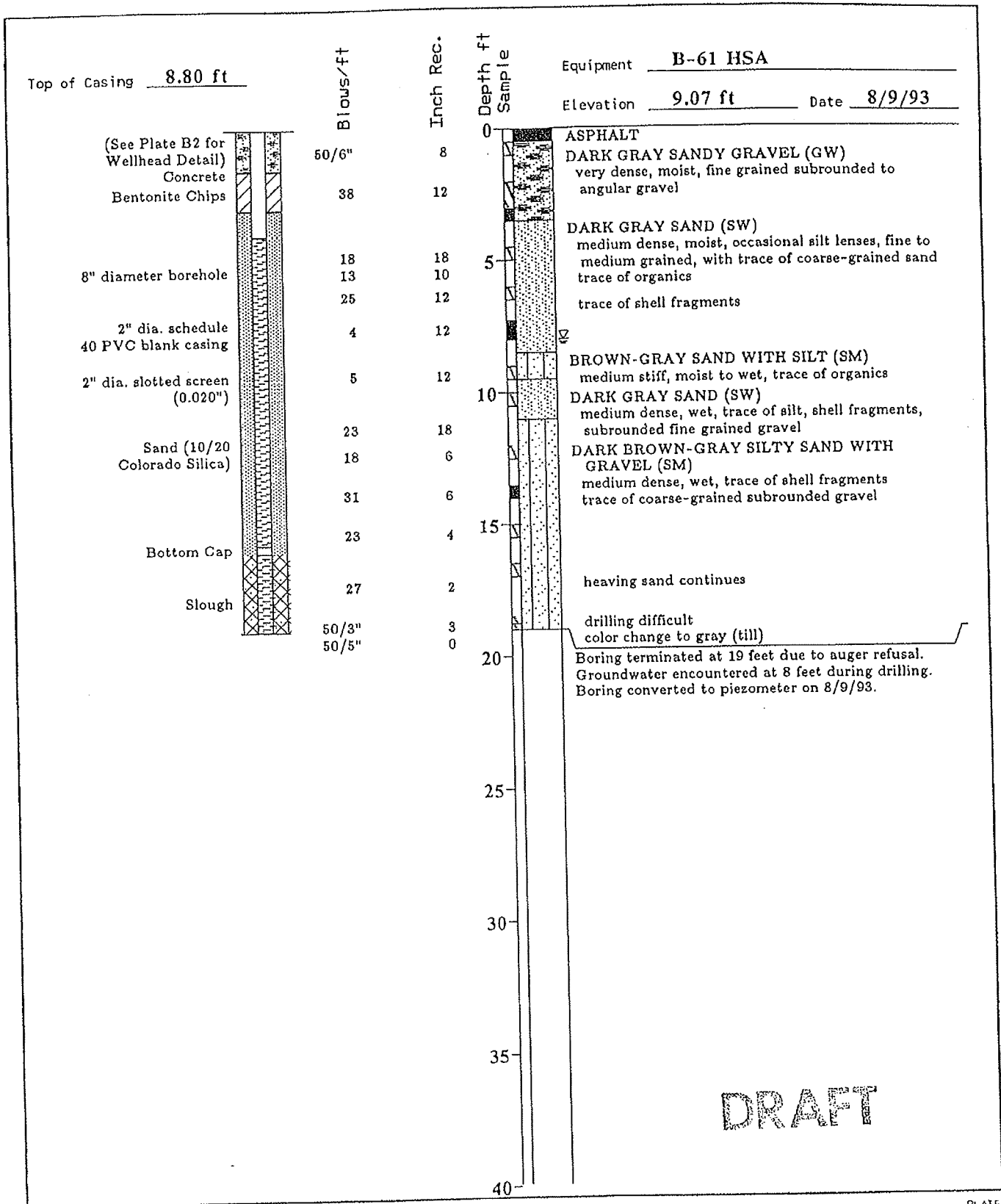
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Log of Boring PZ- 3
 ITT Rayonier Pulp Division
 Port Angeles, Washington

(sheet 1 of 1)

B5

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED	DATE
HK	22271-3		10/93		



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Log of Boring PZ- 4
ITT Rayonier Pulp Division
Port Angeles, Washington

(sheet 1 of 1)

PLATE

B6

DRAWN

PROJECT NUMBER

APPROVED

DATE

REVISED

DATE

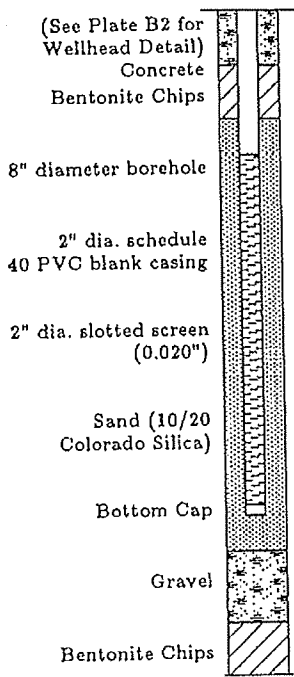
HK

22271-3

10/93

Top of Casing 9.76 ft

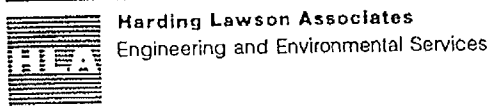
Equipment B-61 HSA
 Elevation 10.13 ft Date 8/10/93



Blows/ft	Inch Rec.	Depth ft	Sample
		0	
39	12		
21	10		
20	8		
	5		
29	6		
19	8		
9	4		
19	6		
	10		
47	5		
54	6		
	15		
93/9"	4		
67	10		
58	12	20	
		25	
		30	
		35	
		40	

ASPHALT
 DARK GRAY-BROWN SANDY GRAVEL (GW)
 dense, moist, fine grained subrounded to subangular gravel
 DARK GRAY INTERBEDDED SAND (SW) AND SANDY GRAVEL (SW-GW)
 occasional shell fragments, medium dense, moist trace of subangular coarse gravel, wet
 GRAY WELL GRADED SAND WITH GRAVEL (SW)
 medium dense, wet, heaving conditions
 drilling becoming difficult
 GRAY SILTY SAND WITH GRAVEL (SM)
 very dense, wet (till)
 very difficult drilling
 DARK GRAY SAND (SW)
 very dense, wet, with trace of fine-grained gravel
 Boring terminated at 18.5 feet due to auger refusal. Groundwater encountered at 4.5 during drilling. Boring converted to piezometer on 8/10/93.

DRAFT



Log of Boring PZ- 5
 ITT Rayonier Pulp Division
 Port Angeles, Washington

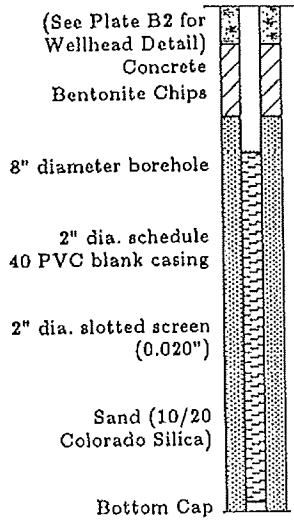
(sheet 1 of 1)

PLATE
B7

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED	DATE
HK	22271-3		10/93		

Top of Casing 15.23 ft

Equipment B-61 HSA
 Elevation 15.43 ft Date 8/2/93



Blows/ft	Inch Rec.	Depth ft Sample
		0
19	4	
6	3	
43	3	
19	0	5
16	12	
65	8	10
132/11"	12	
66/6"	6	
79/8"	6	15
82/11"	12	
50/5"	6	
50/5"	12	
80/11"	18	20
50/5"	12	
85/10"	6	
87	12	25
75/4"	4	
75/4"	6	
50/4"	6	30
		35
		40

ASPHALT

GRAY-BROWN SAND WITH GRAVEL (SW)
 medium dense, moist
 becoming silty

color change to brown-gray, moist to wet, trace of silt

RED-BROWN GRAVELLY SAND (SW)
 wet, trace of silt, fine to coarse grained subrounded gravel
 becoming gray

GRAY SILTY SAND (SM)
 very dense, wet, with trace of gravel (till)

GRAY SAND WITH GRAVEL (SW)
 very dense, wet
 interbedded gray silty sand (SM)

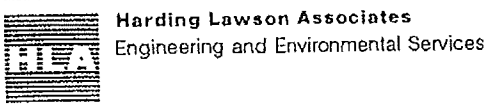
approximately 1 foot of heaving conditions

trace of coarse gravel

trace of silt

Boring terminated at 29 feet.
 Groundwater encountered at 4.5 feet during drilling.
 Boring converted to piezometer on 8/2/93.

DRAFT



Log of Boring PZ- 6
 ITT Rayonier Pulp Division
 Port Angeles, Washington

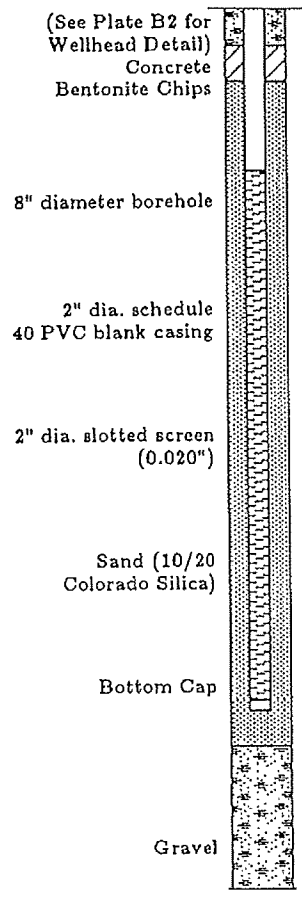
(sheet 1 of 1)

PLATE
B8

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED	DATE
HK	22271-3		10/93		

Top of Casing 20.41 ft

Equipment B-61 HSA
 Elevation 20.73 ft Date 8/3/93



Blows/ft	Inch Rec.	Depth ft	Sample
		0	
36	12		
15	6		
12	18		
13	18	5	
14	18		
12	18		
16	18	10	
66	10		
74	12		
84	12	15	
50/5"	6		
50/3"	0		
59/6"	6		
50/5"	12	20	
59/6"	6		
50/5"	5		
50/6"	6	25	
		30	
		35	
		40	

BROWN-GRAY SANDY GRAVEL (GW)
dense, moist, trace of wood debris

DARK GRAY-BROWN SILT WITH SAND (ML)
stiff, moist, trace of organics becoming red-brown

MOTTLED RED-BROWN AND GRAY SILTY SAND (SM)
medium dense, moist, fine to medium grained, trace of organics

RED-BROWN WELL GRADED SAND (SW)
medium dense, moist becoming silty

RED-BROWN GRAVELLY SAND (SW)
medium dense, moist to wet, trace of silt

GRAY-BROWN SANDY GRAVEL WITH SILT (GW)
very dense, wet

1.5 feet heaving conditions

BROWN-GRAY WELL GRADED SAND (SW)
very dense, wet some gravel

Boring terminated at 24.5 feet.
Groundwater encountered at 11.5 feet during drilling.
Boring converted to piezometer on 8/3/93.

DRAFT



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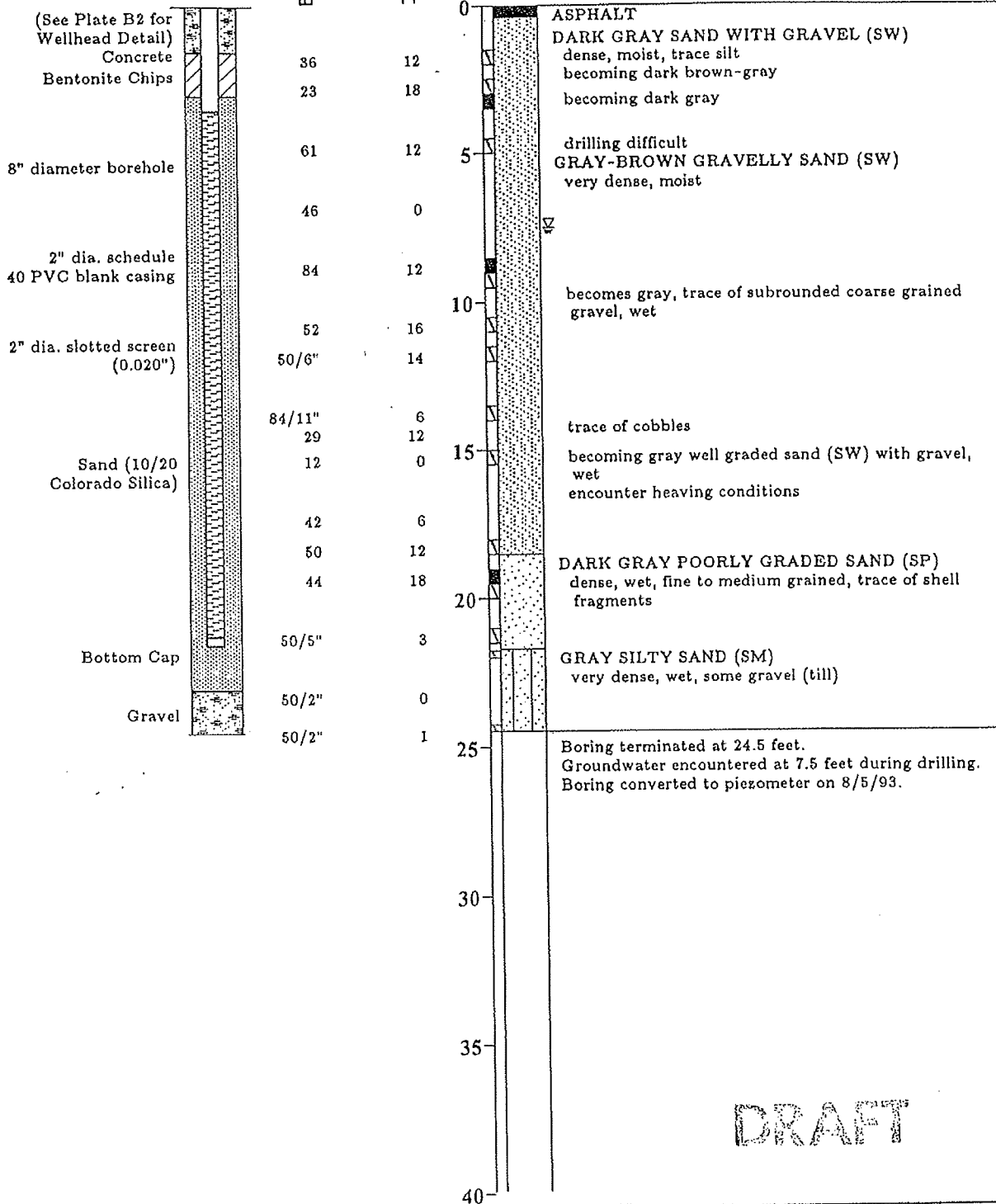
Log of Boring PZ- 7
ITT Rayonier Pulp Division
Port Angeles, Washington

(sheet 1 of 1)

PLATE
B9

Top of Casing 9.16 ft

Equipment B-61 HSA
 Elevation 9.58 ft Date 8/5/93



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Log of Boring PZ- 9
 ITT Rayonier Pulp Division
 Port Angeles, Washington

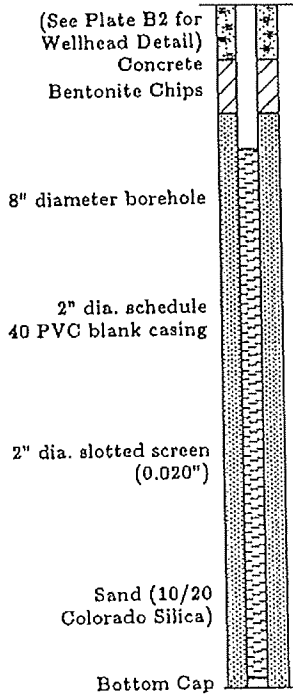
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PLATE
B10

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED	DATE
HK	22271-3		10/93		

Top of Casing 10.26 ft

Equipment B-61 HSA
 Elevation 10.60 ft Date 8/9/93



Blows/ft	Inch Rec.	Depth ft Sample
	0	0
57	18	
12	12	
14	13	
35	12	5
52	0	
31	12	10
43	10	
41	18	
76	4	
48	8	
80	8	15
50/6"	3	
50/5"	4	
50/4"	4	20
50/5"	5	
50/6"	6	
50/6"	3	25
35	14	
50/5"	4	
50/3"	0	30
		35
		40

ASPHALT
 DARK BROWN-GRAY SAND WITH GRAVEL (SW)
 very dense, moist, trace of wood debris
 DARK GRAY SAND (SW)
 medium dense, moist, trace of fine-grained gravel and occasional shell fragments
 DARK GRAY SAND WITH GRAVEL (SW)
 very dense, moist, broken glass
 GRAY-BROWN WELL GRADED SAND WITH GRAVEL (SW)
 dense, wet
 trace of rounded cobbles
 encountered heaving conditions
 becoming a gray sandy gravel (GW), wet
 GRAY WELL GRADED SILTY SAND WITH GRAVEL (SM)
 very dense, wet (till)
 GRAY SANDY GRAVEL (GW)
 wet, subrounded fine grained
 Boring terminated at 29.75 feet.
 Groundwater encountered at 7.5 feet during drilling.
 Boring converted to piezometer on 8/10/93.

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Log of Boring PZ-10
 ITT Rayonier Pulp Division
 Port Angeles, Washington

(sheet 1 of 1)

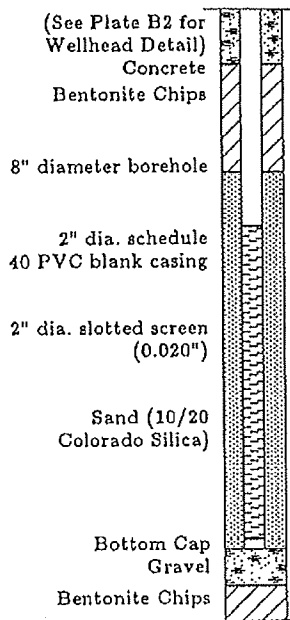
PLATE
B11

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED	DATE
HK	22271-3		10/93		

Top of Casing 27.83 ft

Equipment B-61 HSA

Elevation 28.20 ft Date 8/3/93



Blows/ft	Inch Rec.	Depth ft
		0
49	6	
15	6	
	11	18
	10	18
	6	18
	6	18
	8	18
		10
27	18	
65	18	
		15
71	18	
55	18	
52	12	

GRAY-BROWN SANDY GRAVEL (GW)
dense, moist

BLACK SILTY SAND (SM)
stiff, moist, hydrocarbon odor

MOTTLED DARK GRAY AND GRAY-BROWN SILT (ML)
stiff, frequent trace of organics (grass and roots)

becomes interbedded gray and brown silty sand (SM) and sandy silt (ML), medium stiff, moist to wet (perched water)

trace of organics

becoming interbedded dark gray sandy silt (ML), with trace of fine-grained gravel, moist to wet

GRAY SAND (SP)
very dense, moist, fine to medium grained

Boring terminated at 18.5 feet.
Groundwater encountered at 12.5 feet during drilling.
Boring converted to piezometer on 8/3/93.

DRAFT

PLATE

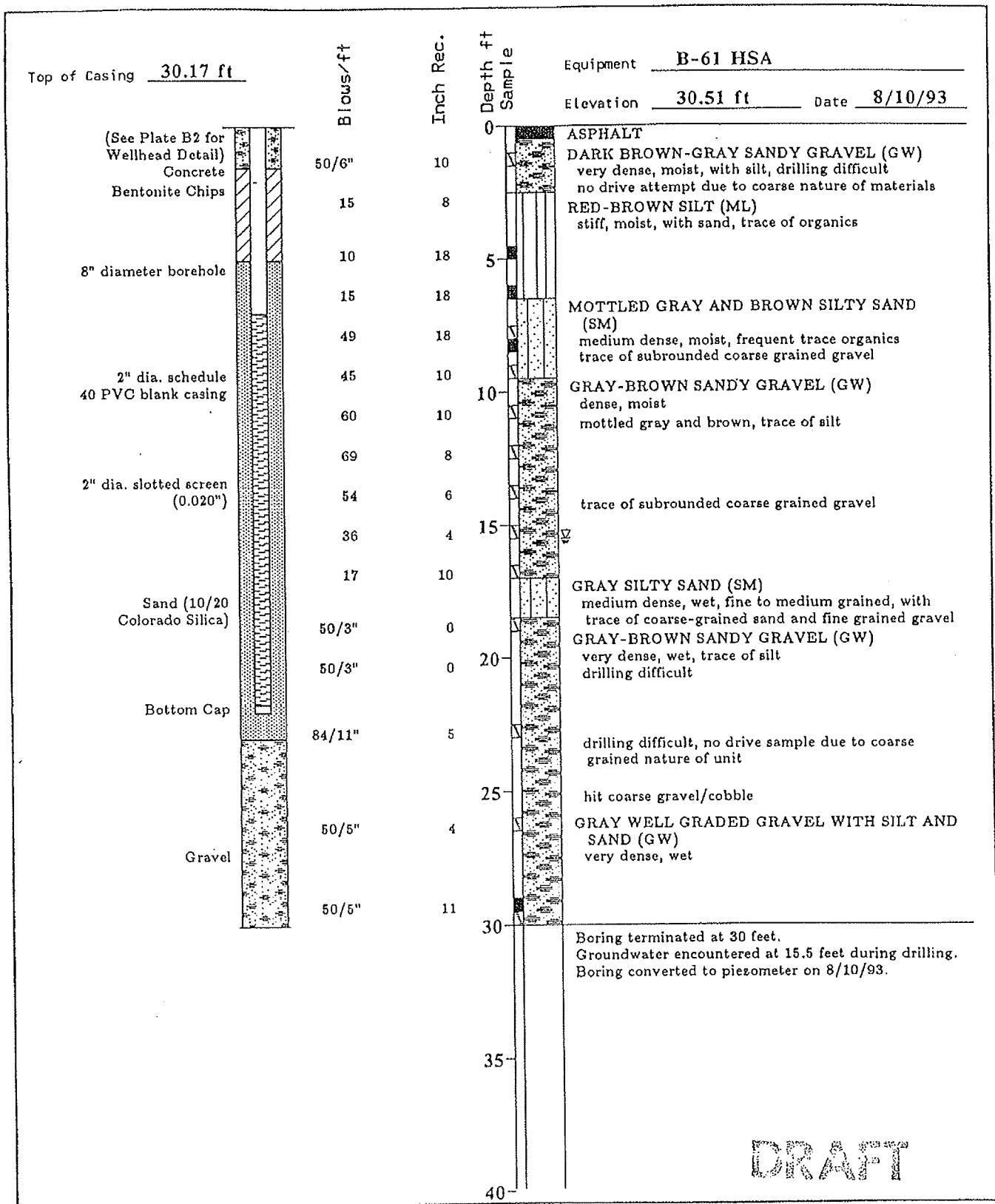
B12

Harding Lawson Associates
Engineering and Environmental Services

Log of Boring PZ-11
ITT Rayonier Pulp Division
Port Angeles, Washington

(sheet 1 of 1)

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED	DATE
HK	22271-3		10/93		



DRAFT



Harding Lawson Associates
Engineering and Environmental Services

Log of Boring PZ-12
ITT Rayonier Pulp Division
Port Angeles, Washington

(sheet 1 of 1)

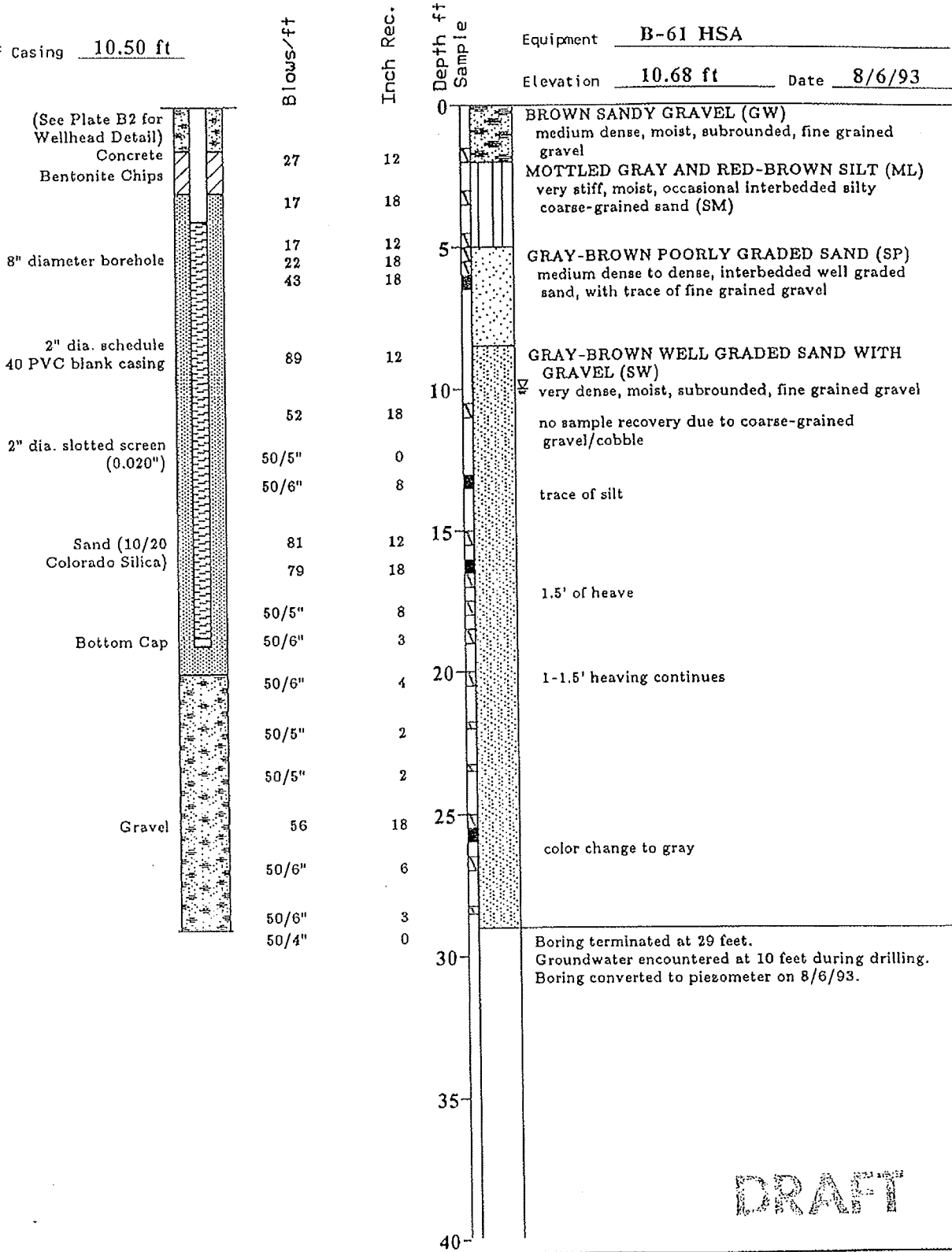
PLATE

B13

Top of Casing 10.50 ft

Equipment B-61 HSA

Elevation 10.68 ft Date 8/6/93



DRAFT

PLATE



Harding Lawson Associates
Engineering and Environmental Services

Log of Boring PZ-13

(sheet 1 of 1)

ITT Rayonier Pulp Division
Port Angeles, Washington

B14

DRAWN
HK

PROJECT NUMBER
22271-3

APPROVED

DATE
10/93

REVISED

DATE

Shannon & Wilson, Inc. (S&W), uses a soil classification system modified from the Unified Soil Classification System (USCS). Elements of the USCS and other definitions are provided on this and the following page. Soil descriptions are based on visual-manual procedures (ASTM D 2488-93) unless otherwise noted.

S&W CLASSIFICATION OF SOIL CONSTITUENTS

- MAJOR constituents compose more than 50 percent, by weight, of the soil. Major constituents are capitalized (i.e., SAND).
- Minor constituents compose 12 to 50 percent of the soil and precede the major constituents (i.e., silty SAND). Minor constituents preceded by "slightly" compose 5 to 12 percent of the soil (i.e., slightly silty SAND).
- Trace constituents compose 0 to 5 percent of the soil (i.e., slightly silty SAND, trace of gravel).

MOISTURE CONTENT DEFINITIONS

Dry	Absence of moisture, dusty, dry to the touch
Moist	Damp but no visible water
Wet	Visible free water, from below water table

ABBREVIATIONS

ATD	At Time of Drilling
Elev.	Elevation
ft	feet
FeO	Iron Oxide
MgO	Magnesium Oxide
HSA	Hollow Stem Auger
ID	Inside Diameter
in	inches
lbs	pounds
Mon.	Monument cover
N	Blows for last two 6-inch increments
NA	Not applicable or not available
NP	Non plastic
OD	Outside diameter
OVA	Organic vapor analyzer
PID	Photo-ionization detector
ppm	parts per million
PVC	Polyvinyl Chloride
SS	Split spoon sampler
SPT	Standard penetration test
USC	Unified soil classification
WLI	Water level indicator

GRAIN SIZE DEFINITION

DESCRIPTION	SIEVE NUMBER AND/OR SIZE
FINES	< #200 (0.08 mm)
SAND* - Fine - Medium - Coarse	#200 to #40 (0.08 to 0.4 mm) #40 to #10 (0.4 to 2 mm) #10 to #4 (2 to 5 mm)
GRAVEL* - Fine - Coarse	#4 to 3/4 inch (5 to 19 mm) 3/4 to 3 inches (19 to 76 mm)
COBBLES	3 to 12 inches (76 to 305 mm)
BOULDERS	> 12 inches (305 mm)

* Unless otherwise noted, sand and gravel, when present, range from fine to coarse in grain size.

RELATIVE DENSITY / CONSISTENCY

COARSE-GRAINED SOILS		FINE-GRAINED SOILS	
N, SPT, BLOWS/FT.	RELATIVE DENSITY	N, SPT, BLOWS/FT.	RELATIVE CONSISTENCY
0 - 4	Very loose	Under 2	Very soft
4 - 10	Loose	2 - 4	Soft
10 - 30	Medium dense	4 - 8	Medium stiff
30 - 50	Dense	8 - 15	Stiff
Over 50	Very dense	15 - 30	Very stiff
		Over 30	Hard

WELL AND OTHER SYMBOLS

	Bent. Cement Grout		Surface Cement Seal
	Bentonite Grout		Asphalt or Cap
	Bentonite Chips		Slough
	Silica Sand		Bedrock
	PVC Screen		
	Vibrating Wire		

BORING CLASS# 21-20617.GPJ SWNEW.GDT 10/10/06

City of Port Angeles
Francis Street CSO Diversion
Port Angeles, Washington

SOIL CLASSIFICATION AND LOG KEY

September 2006

21-1-20617-001

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

FIG. A-1
Sheet 1 of 2

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)
(From ASTM D 2487-98 & 2488-93)

MAJOR DIVISIONS		GROUP/GRAPHIC SYMBOL	TYPICAL DESCRIPTION	
COARSE-GRAINED SOILS (more than 50% retained on No. 200 sieve)	Gravels (more than 50% of coarse fraction retained on No. 4 sieve)	Clean Gravels (less than 5% fines)	GW 	Well-graded gravels, gravels, gravel/sand mixtures, little or no fines.
		Gravels with Fines (more than 12% fines)	GP 	Poorly graded gravels, gravel-sand mixtures, little or no fines
			GM 	Silty gravels, gravel-sand-silt mixtures
		GC 	Clayey gravels, gravel-sand-clay mixtures	
	Sands (50% or more of coarse fraction passes the No. 4 sieve)	Clean Sands (less than 5% fines)	SW 	Well-graded sands, gravelly sands, little or no fines
		Sands with Fines (more than 12% fines)	SP 	Poorly graded sand, gravelly sands, little or no fines
			SM 	Silty sands, sand-silt mixtures
			SC 	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (50% or more passes the No. 200 sieve)	Sils and Clays (liquid limit less than 50)	Inorganic	ML 	Inorganic silts of low to medium plasticity, rock flour, sandy silts, gravelly silts, or clayey silts with slight plasticity
		CL 	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
		Organic	OL 	Organic silts and organic silty clays of low plasticity
	Sils and Clays (liquid limit 50 or more)	Inorganic	MH 	Inorganic silts, micaceous or diatomaceous fine sands or silty soils, elastic silt
		CH 	Inorganic clays or medium to high plasticity, sandy fat clay, or gravelly fat clay	
		Organic	OH 	Organic clays of medium to high plasticity, organic silts
HIGHLY-ORGANIC SOILS	Primarily organic matter, dark in color, and organic odor	PT 	Peat, humus, swamp soils with high organic content (see ASTM D 4427)	

NOTE: No. 4 size = 5 mm; No. 200 size = 0.075 mm

NOTES

- Dual symbols (symbols separated by a hyphen, i.e., SP-SM, slightly fine SAND) are used for soils with between 5% and 12% fines or when the liquid limit and plasticity index values plot in the CL-ML area of the plasticity chart.
- Borderline symbols (symbols separated by a slash, i.e., CL/ML, silty CLAY/clayey SILT; GW/SW, sandy GRAVEL/gravelly SAND) indicate that the soil may fall into one of two possible basic groups.

City of Port Angeles
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**SOIL CLASSIFICATION
AND LOG KEY**

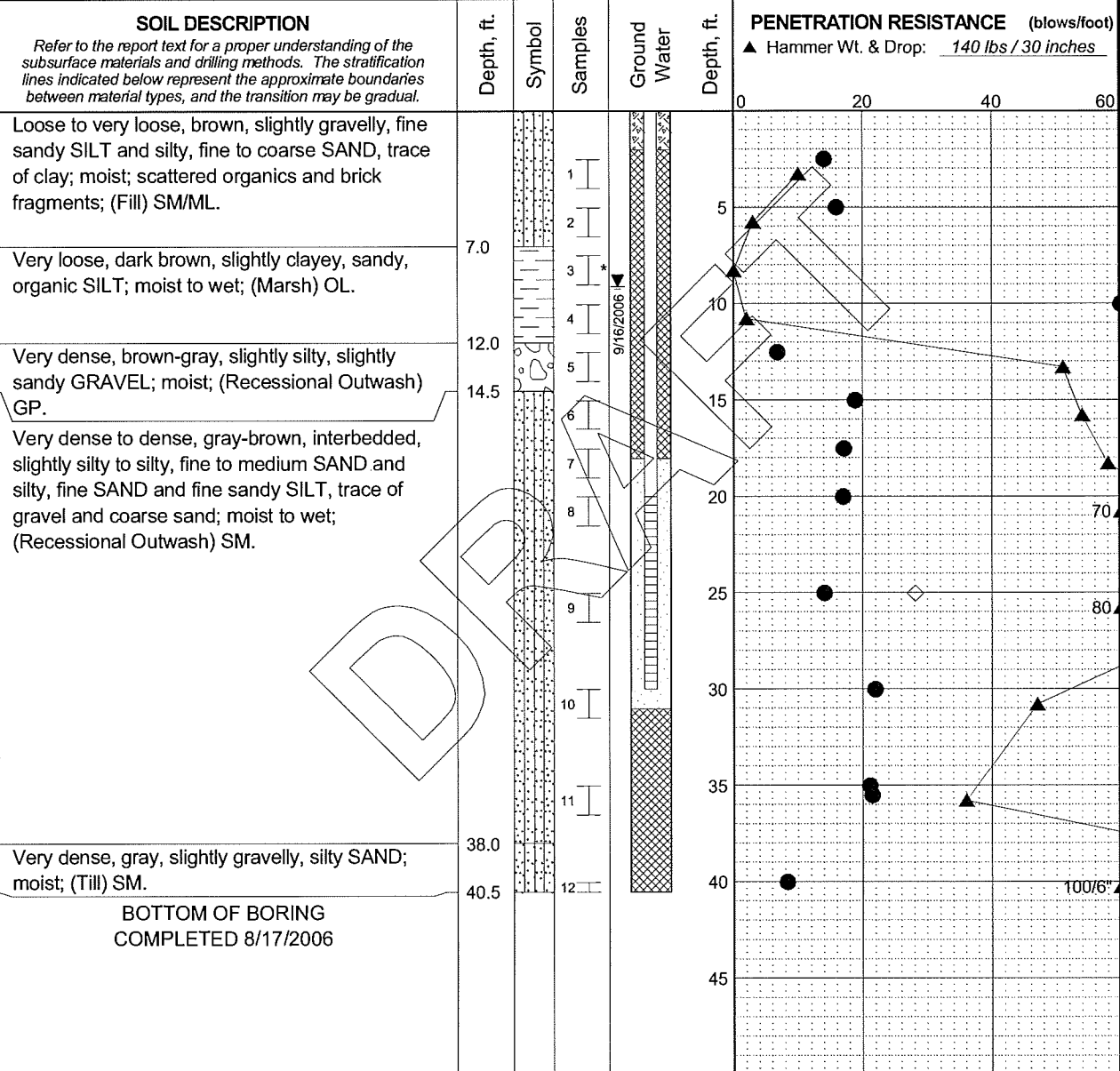
September 2006

21-1-20617-001

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

FIG. A-1
Sheet 2 of 2

Total Depth: 40.5 ft. Northing: ~ 1,010,688 ft. Drilling Method: Mud Rotary Hole Diam.: 6 in.
 Top Elevation: ~ 16 ft. Easting: ~ 417,522 ft. Drilling Company: Boart Longyear Rod Type: NWJ2-5/8"
 Vert. Datum: Station: ~ Drill Rig Equipment: Mobile B59 Hammer Type: Automatic
 Horiz. Datum: Offset: ~ Other Comments: _____



Log: ELM Rev: MSK Typ: LKD

MASTER LOG E 21-20617.GPJ 21-20617.GPJ 10/10/06

- LEGEND**
- * Sample Not Recovered
 - Standard Penetration Test
 - Piezometer Screen and Sand Filter
 - Bentonite-Cement Grout
 - Bentonite Chips/Pellets
 - Bentonite Grout
 - Ground Water Level in Well
 - % Fines (<0.075mm)
 - % Water Content
 - Plastic Limit
 - Liquid Limit
 - Natural Water Content

- NOTES**
- Refer to KEY for explanation of symbols, codes, abbreviations and definitions.
 - Groundwater level, if indicated above, is for the date specified and may vary.
 - USCS designation is based on visual-manual classification and selected lab testing.
 - The hole location was measured using a cloth tape from existing site features and should be considered approximate.

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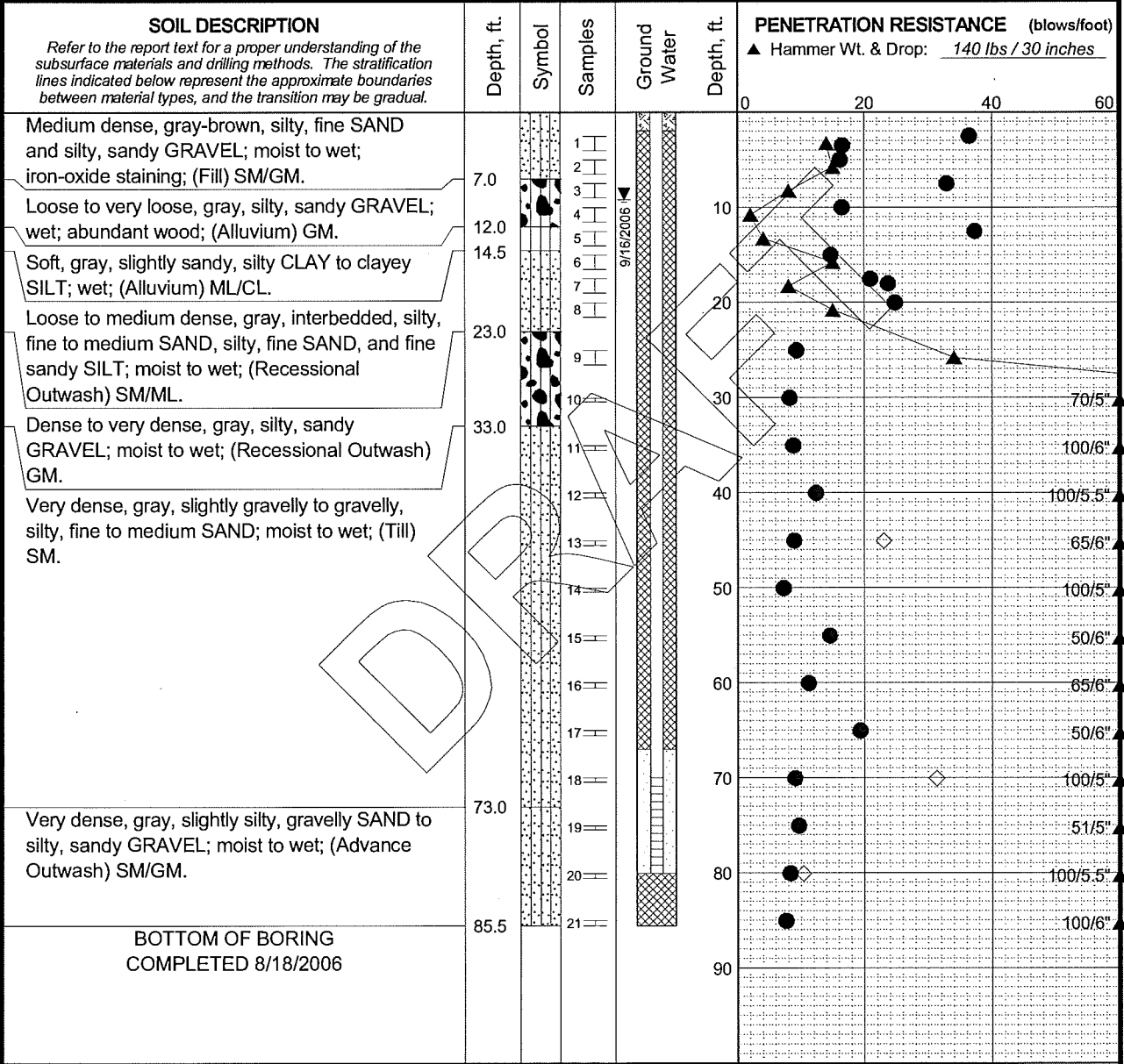
LOG OF BORING PA-1

September 2006 21-1-20617-001

SHANNON & WILSON, INC.
 Geotechnical and Environmental Consultants

FIG. A-2

Total Depth: <u>85.5 ft.</u>	Northing: <u>~ 1,011,866 ft.</u>	Drilling Method: <u>Mud Rotary</u>	Hole Diam.: <u>6 in.</u>
Top Elevation: <u>~ 21 ft.</u>	Easting: <u>~ 416,764 ft.</u>	Drilling Company: <u>Boart Longyear</u>	Rod Type: <u>NWJ/2-5/8"</u>
Vert. Datum: _____	Station: <u>~</u>	Drill Rig Equipment: <u>Mobile B59</u>	Hammer Type: <u>Automatic</u>
Horiz. Datum: _____	Offset: <u>~</u>	Other Comments: _____	



Log: ELM Rev: MSK Typ: LKD MASTER LOG E 21-20617.GPJ 21-20617.GPJ 10/10/06

LEGEND

* Sample Not Recovered	Piezometer Screen and Sand Filter	% Fines (<0.075mm) symbol"/> % Fines (<0.075mm)
Standard Penetration Test	Bentonite-Cement Grout	% Water Content symbol"/> % Water Content
	Bentonite Chips/Pellets	Plastic Limit Liquid Limit
	Bentonite Grout	Natural Water Content
	Ground Water Level in Well	

NOTES

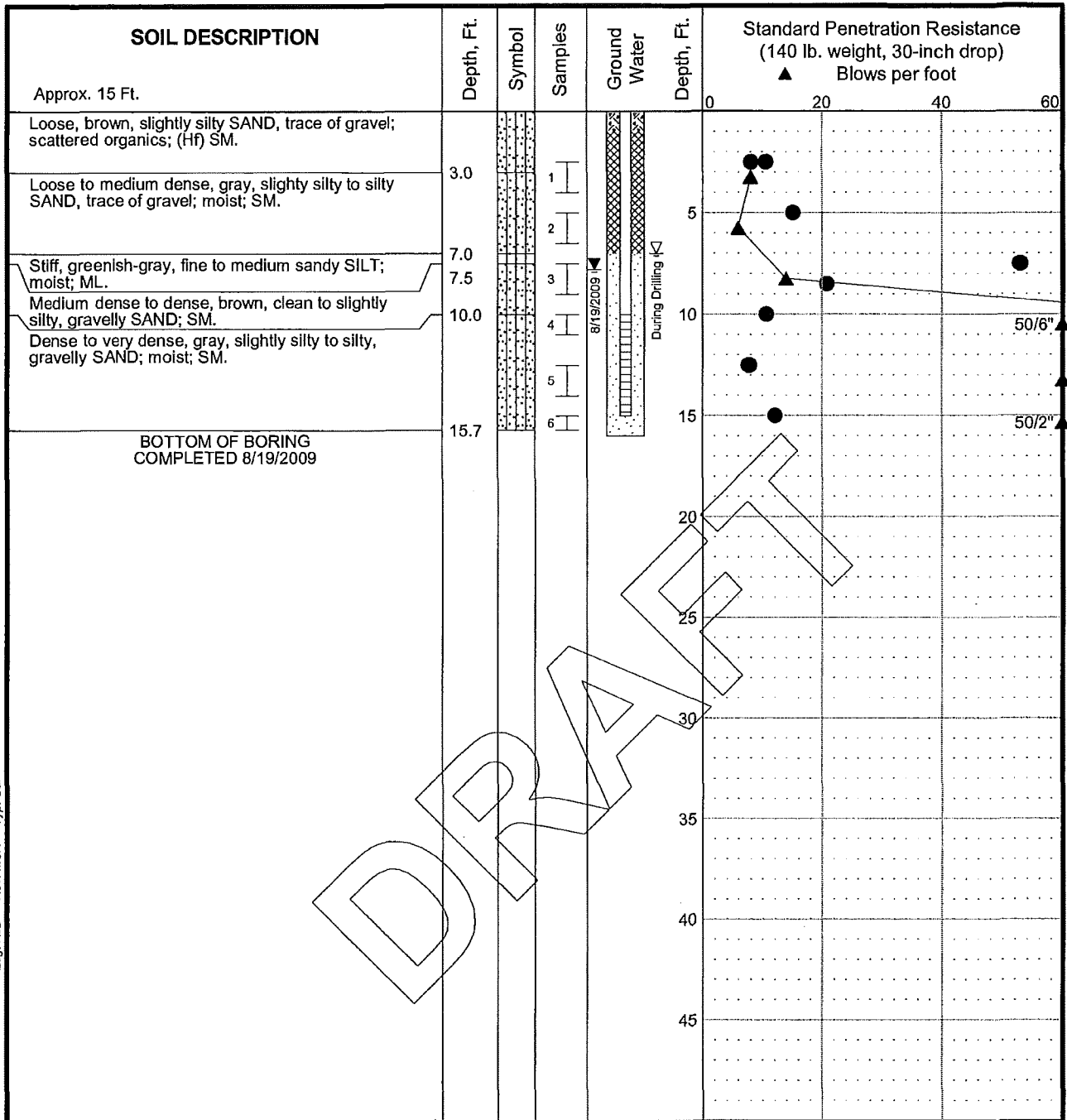
1. Refer to KEY for explanation of symbols, codes, abbreviations and definitions.
2. Groundwater level, if indicated above, is for the date specified and may vary.
3. USCS designation is based on visual-manual classification and selected lab testing.
4. The hole location was measured using a cloth tape from existing site features and should be considered approximate.

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Port Angeles, Washington

LOG OF BORING PA-2

September 2006 21-1-20617-001

SHANNON & WILSON, INC. Geotechnical and Environmental Consultants	FIG. A-3
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Log: AJD Rev: MSK Typ: CLP
MASTER LOG FINE 21-20617.GPJ 21-09490.GPJ 12/8/09

LEGEND

- * Sample Not Recovered
- ⊥ 2" O.D. Split Spoon (SPT)
- ▨ Piezometer Screen and Sand Filter
- ▩ Bentonite-Cement Grout
- ▧ Bentonite Chips/Pellets
- ▦ Bentonite Grout
- ∇ Ground Water Level ATD
- ▼ Ground Water Level in Well

Plastic Limit —●— Liquid Limit
Natural Water Content

NOTES

1. The boring was performed using drilling methods.
2. The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
3. Refer to the report text for a proper understanding of the subsurface materials.
4. Groundwater level, if indicated above, is for the date specified and may vary.
5. Refer to KEY for explanation of symbols, codes and definitions.
6. USCS designation is based on visual-manual classification and selected lab testing.

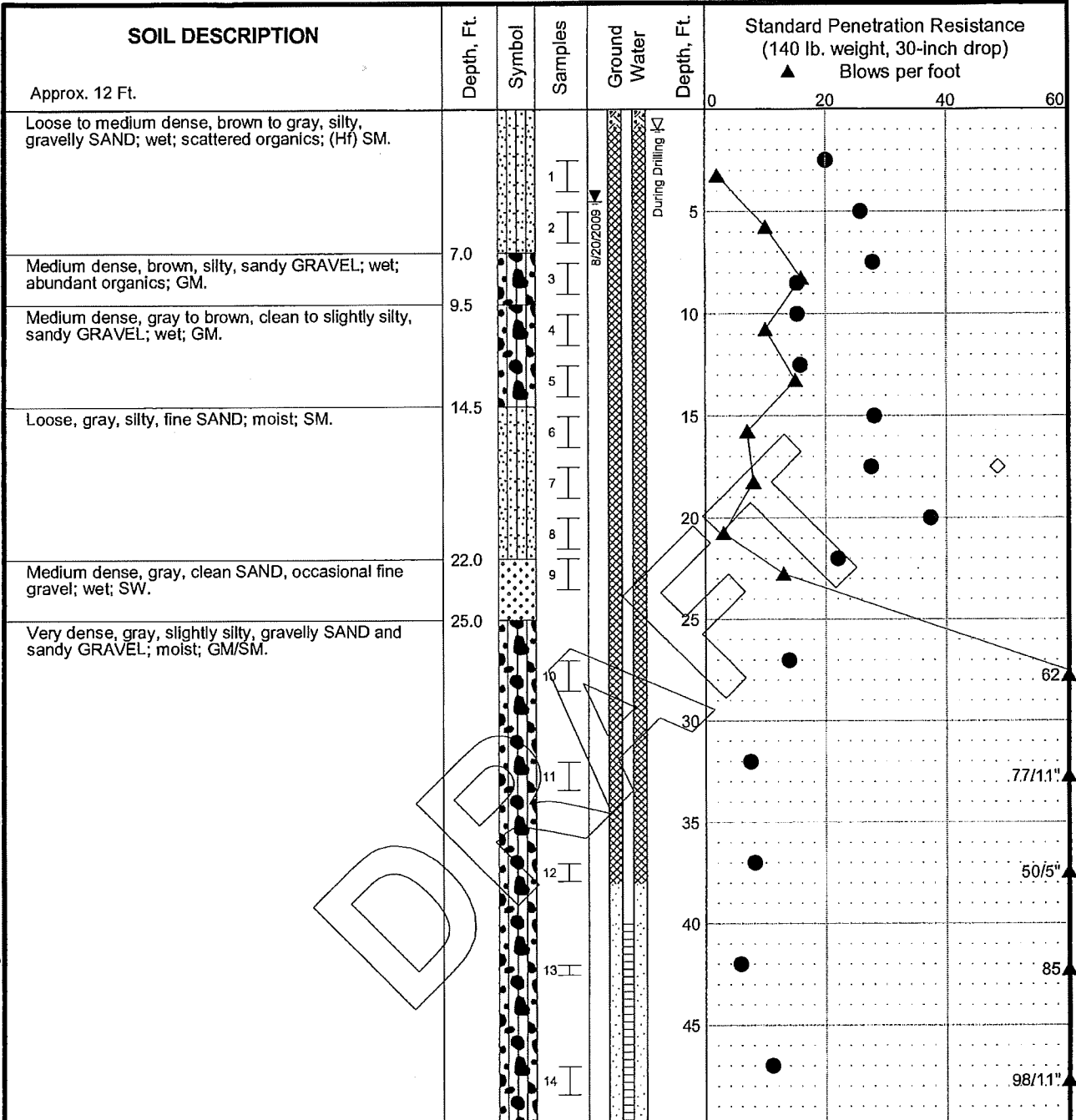
City of Port Angeles
Francis Street CSO Diversion
Port Angeles, Washington

LOG OF BORING PA-15

December 2009 21-1-20617-002

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FIG. A-6



Log: AJD Rev: MSK Typ: CLP MASTER LOG_FINE 21-20617.GPJ 21-09490.GPJ 12/8/09

CONTINUED NEXT SHEET

LEGEND

- * Sample Not Recovered
- ┌ 2" O.D. Split Spoon (SPT)
- ▨ Piezometer Screen and Sand Filter
- ▩ Bentonite-Cement Grout
- ▧ Bentonite Chips/Pellets
- ▦ Bentonite Grout
- ▽ Ground Water Level ATD
- ▼ Ground Water Level In Well

- ◇ % Fines (<0.075mm)
- % Water Content
- Liquid Limit
- Natural Water Content

NOTES

- The boring was performed using drilling methods.
- The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
- Refer to the report text for a proper understanding of the subsurface materials.
- Groundwater level, if indicated above, is for the date specified and may vary.
- Refer to KEY for explanation of symbols, codes and definitions.
- USCS designation is based on visual-manual classification and selected lab testing.

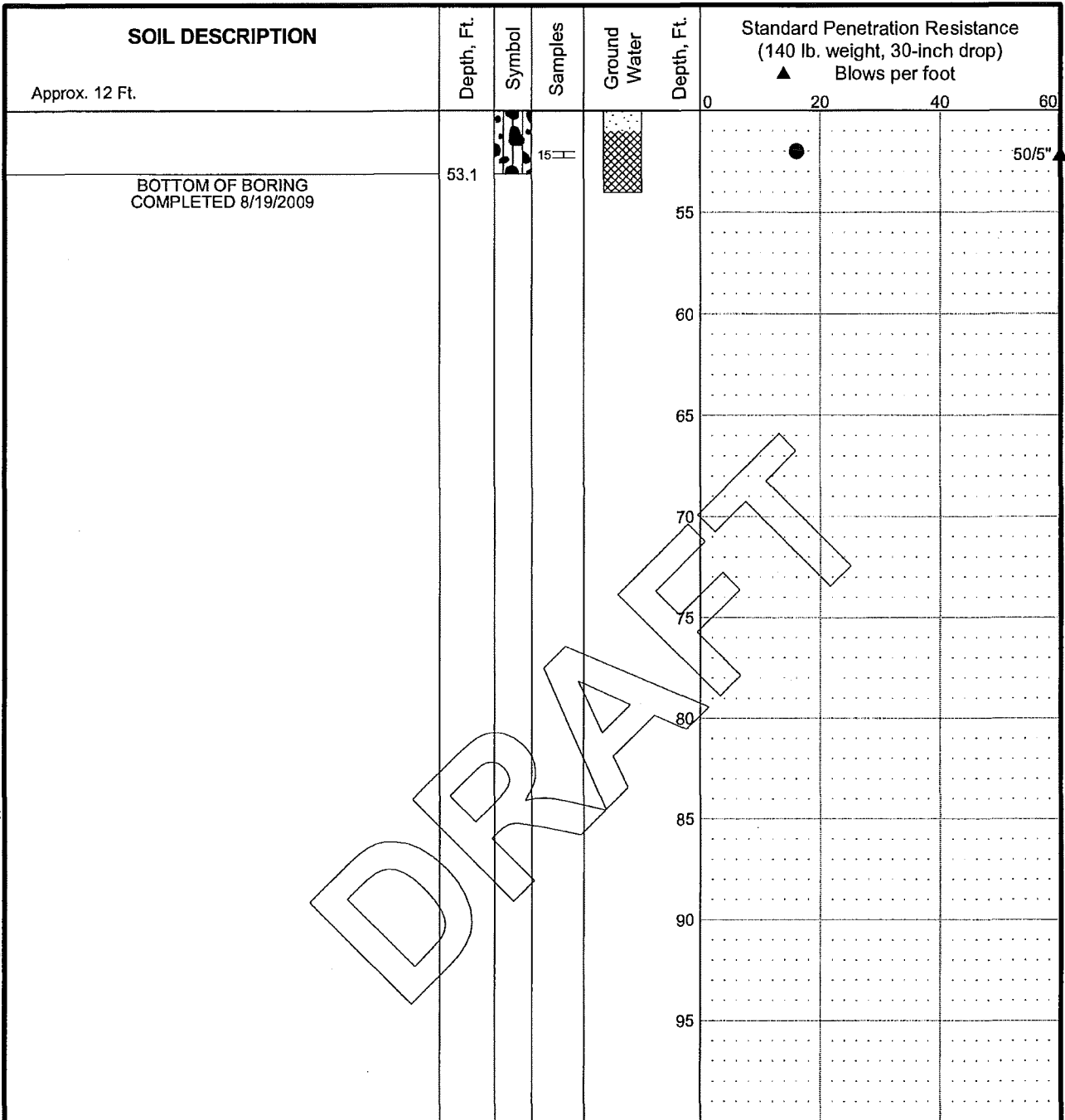
City of Port Angeles
Francis Street CSO Diversion
Port Angeles, Washington

LOG OF BORING PA-17

December 2009 21-1-20617-002

SHANNON & WILSON, INC. Geotechnical and Environmental Consultants	FIG. A-8 Sheet 1 of 2
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Log: AJD Rev: MSK Typ: CLP



DRAFT

MASTER LOG FINE 21-20617.GPJ 21-09490.GPJ 12/8/09

LEGEND

- * Sample Not Recovered
- 2" O.D. Split Spoon (SPT)
- Piezometer Screen and Sand Filter
- Bentonite-Cement Grout
- Bentonite Chips/Pellets
- Bentonite Grout
- Ground Water Level ATD
- Ground Water Level in Well

- ◇ % Fines (<0.075mm)
- % Water Content
- Liquid Limit
- Natural Water Content

NOTES

1. The boring was performed using drilling methods.
2. The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
3. Refer to the report text for a proper understanding of the subsurface materials.
4. Groundwater level, if indicated above, is for the date specified and may vary.
5. Refer to KEY for explanation of symbols, codes and definitions.
6. USCS designation is based on visual-manual classification and selected lab testing.

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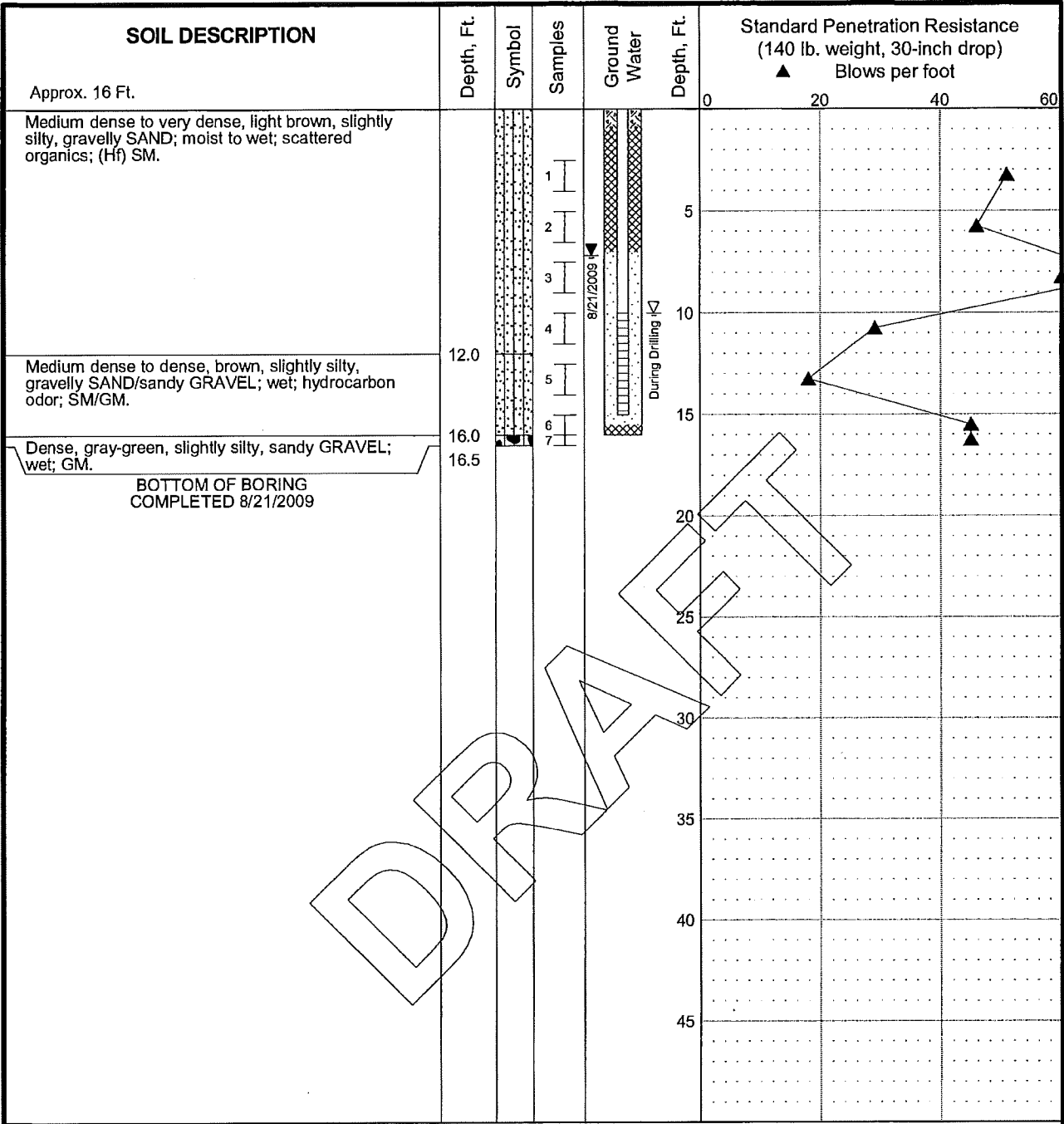
LOG OF BORING PA-17

December 2009

21-1-20617-002

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FIG. A-8
Sheet 2 of 2



Log: A/JD Rev: MSK Typ: CLP
MASTER LOG FINE 21-20617.GPJ 21-09-490.GPJ 12/8/09

LEGEND

- * Sample Not Recovered
- ┌ 2" O.D. Split Spoon (SPT)
- ▢ Piezometer Screen and Sand Filter
- ▨ Bentonite-Cement Grout
- ▩ Bentonite Chips/Pellets
- ▧ Bentonite Grout
- ▽ Ground Water Level ATD
- ▼ Ground Water Level in Well

Plastic Limit —●— Liquid Limit
Natural Water Content

NOTES

1. The boring was performed using drilling methods.
2. The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
3. Refer to the report text for a proper understanding of the subsurface materials.
4. Groundwater level, if indicated above, is for the date specified and may vary.
5. Refer to KEY for explanation of symbols, codes and definitions.
6. USCS designation is based on visual-manual classification and selected lab testing.

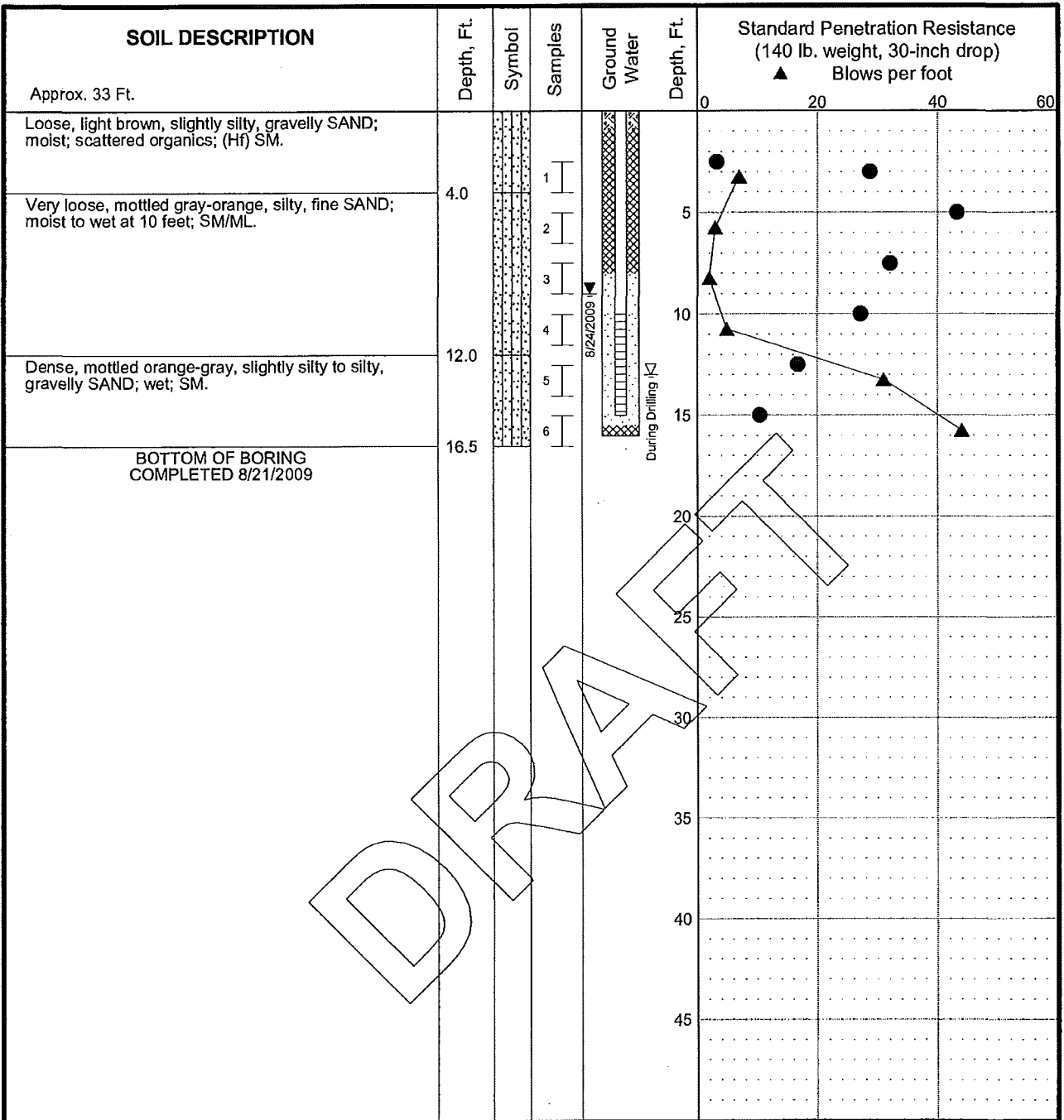
City of Port Angeles
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Port Angeles, Washington

LOG OF BORING PA-19

December 2009 21-1-20617-002

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FIG. A-10



Log: A/JD Rev: MSK Typ: CLP

MASTER LOG FINE 21-20617.GPJ 21-09490.GPJ 12/8/09

LEGEND

- * Sample Not Recovered
- ┆ 2" O.D. Split Spoon (SPT)
- [Symbol] Piezometer Screen and Sand Filter
- [Symbol] Bentonite-Cement Grout
- [Symbol] Bentonite Chips/Pellets
- [Symbol] Bentonite Grout
- ▽ Ground Water Level ATD
- ▼ Ground Water Level in Well

Plastic Limit —●— Liquid Limit
Natural Water Content

NOTES

1. The boring was performed using drilling methods.
2. The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
3. Refer to the report text for a proper understanding of the subsurface materials.
4. Groundwater level, if indicated above, is for the date specified and may vary.
5. Refer to KEY for explanation of symbols, codes and definitions.
6. USCS designation is based on visual-manual classification and selected lab testing.

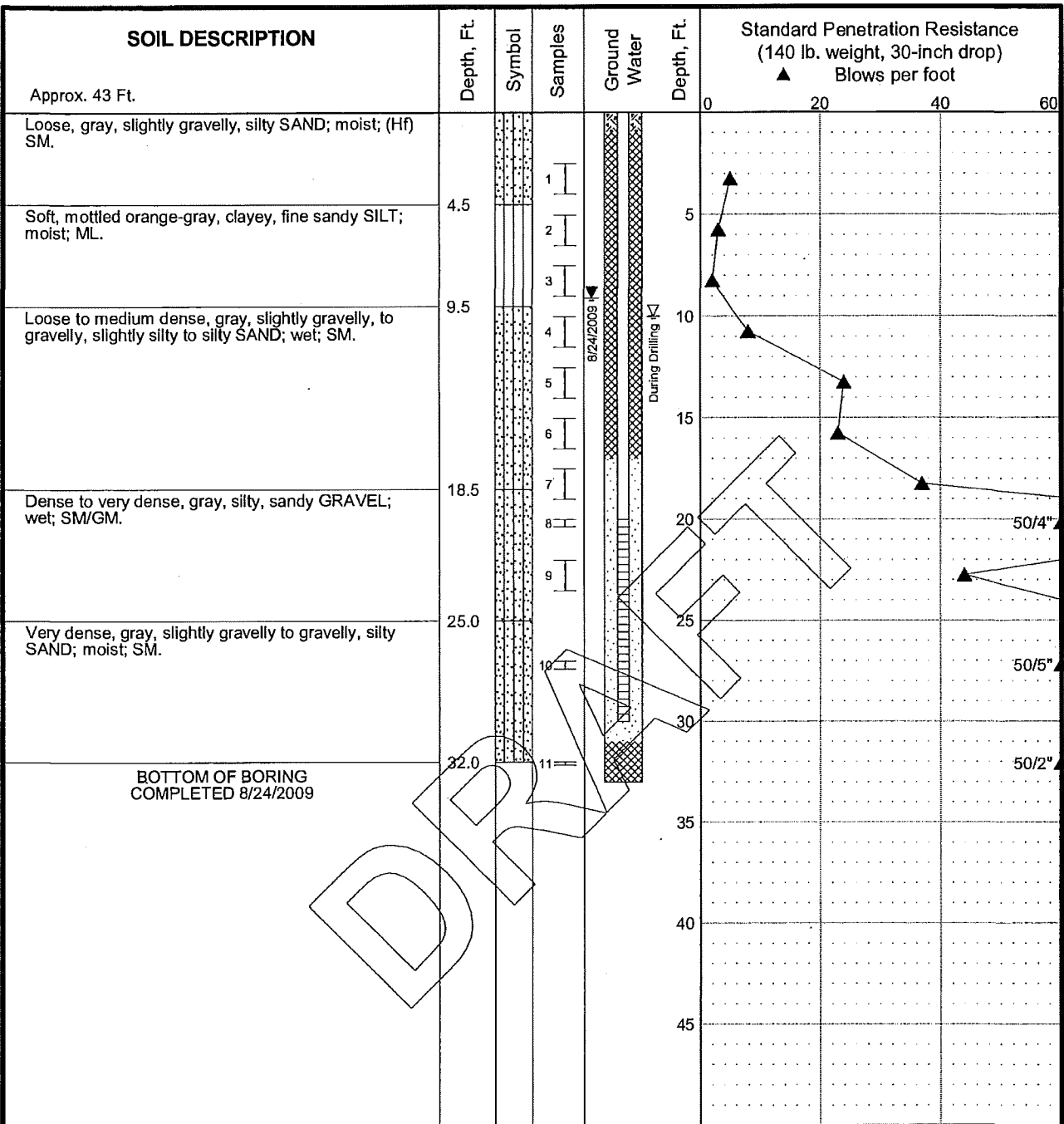
City of Port Angeles
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Port Angeles, Washington

LOG OF BORING PA-21

December 2009 21-1-20617-002

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FIG. A-12



Log: A/D Rev: MSK Typ: CLP

MASTER LOG FINE 21-20617.GPJ 21-09490.GPJ 12/18/09

LEGEND

- * Sample Not Recovered
- ⊥ 2" O.D. Split Spoon (SPT)
- ▨ Piezometer Screen and Sand Filter
- ▩ Bentonite-Cement Grout
- ▧ Bentonite Chips/Pellets
- ▦ Bentonite Grout
- ▽ Ground Water Level ATD
- ▼ Ground Water Level in Well

NOTES

1. The boring was performed using drilling methods.
2. The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
3. Refer to the report text for a proper understanding of the subsurface materials.
4. Groundwater level, if indicated above, is for the date specified and may vary.
5. Refer to KEY for explanation of symbols, codes and definitions.
6. USCS designation is based on visual-manual classification and selected lab testing.

Plastic Limit —●— Liquid Limit
Natural Water Content

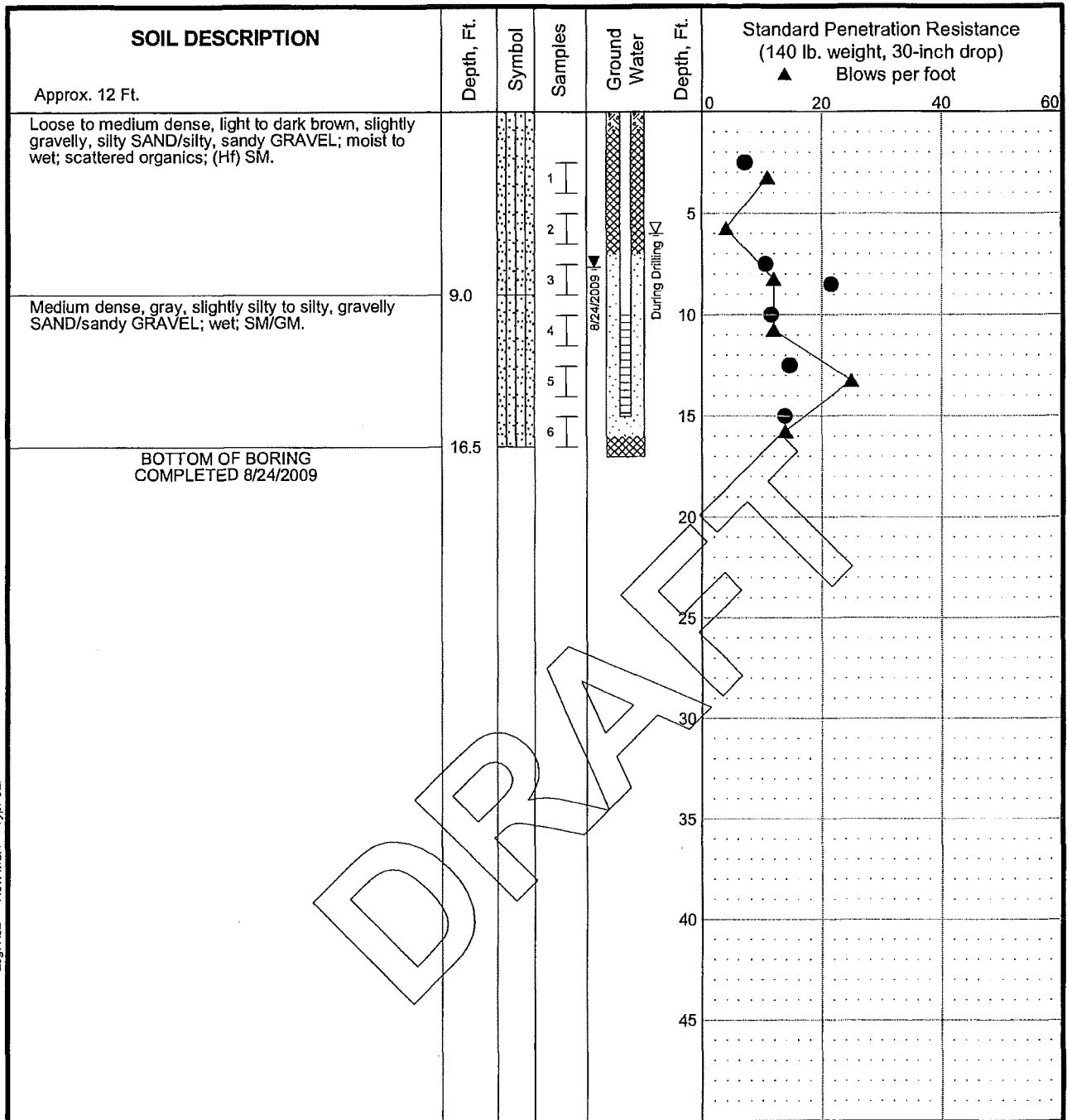
City of Port Angeles
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Port Angeles, Washington

LOG OF BORING PA-23

December 2009 21-1-20617-002

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FIG. A-14



Log: AJD Rev: MSK Typ: CLP

DRAFT

MASTER LOG FINE 21-20617.GPJ 21-09490.GPJ 12/8/09

LEGEND

- * Sample Not Recovered
- ⊥ 2" O.D. Split Spoon (SPT)
- [Symbol] Piezometer Screen and Sand Filter
- [Symbol] Bentonite-Cement Grout
- [Symbol] Bentonite Chips/Pellets
- [Symbol] Bentonite Grout
- ∇ Ground Water Level ATD
- ▼ Ground Water Level in Well

Plastic Limit —●— Liquid Limit
Natural Water Content

NOTES

1. The boring was performed using drilling methods.
2. The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
3. Refer to the report text for a proper understanding of the subsurface materials.
4. Groundwater level, if indicated above, is for the date specified and may vary.
5. Refer to KEY for explanation of symbols, codes and definitions.
6. USCS designation is based on visual-manual classification and selected lab testing.

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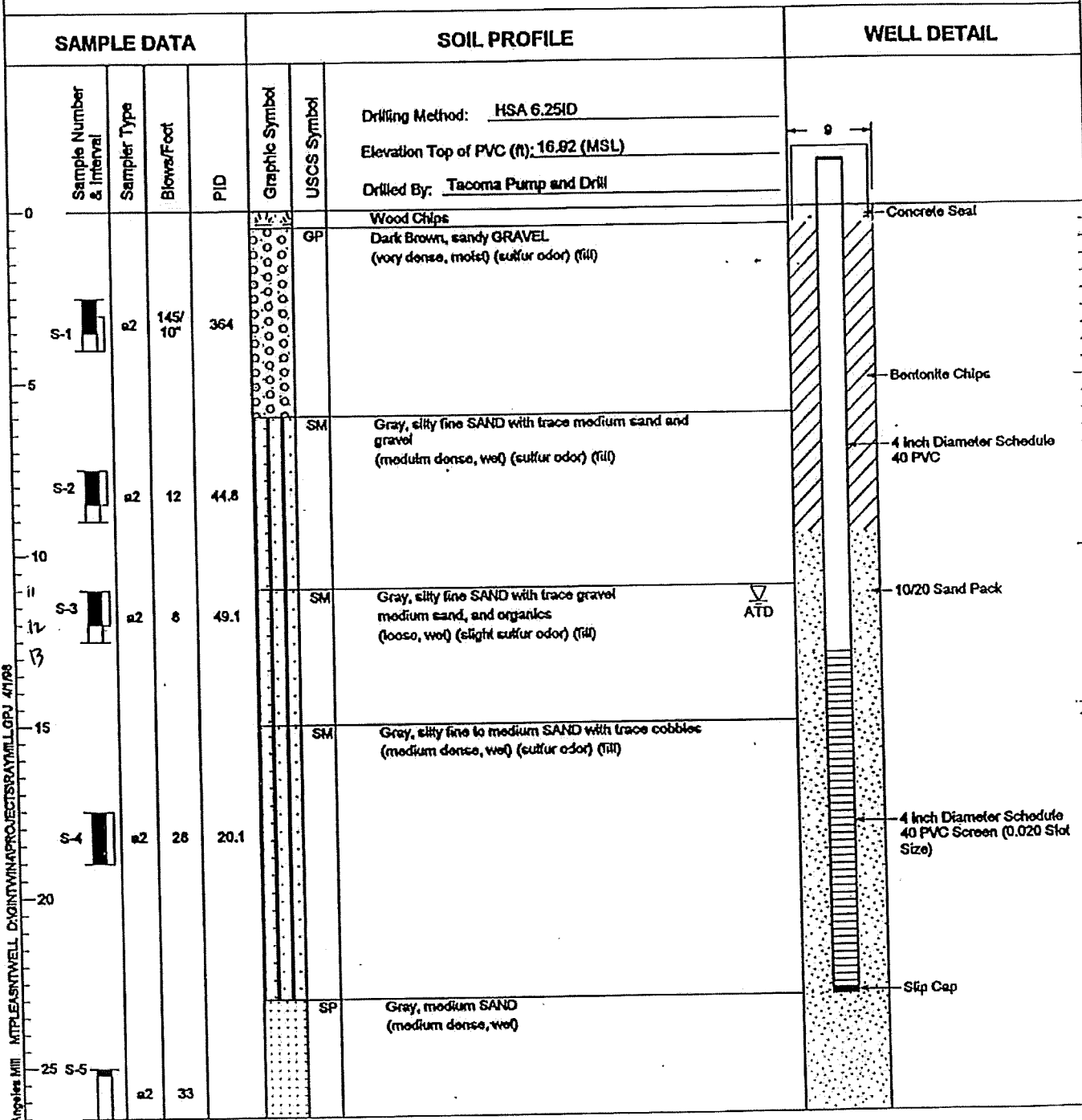
LOG OF BORING PA-24

December 2009 21-1-20617-002

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FIG. A-15

MW-51



Boring Completed 02/26/98
Total Depth = 26.5 ft.

Well Completed 02/26/98
Elevation at Top of PVC Casing = 16.92
Total Depth of Well = 23 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

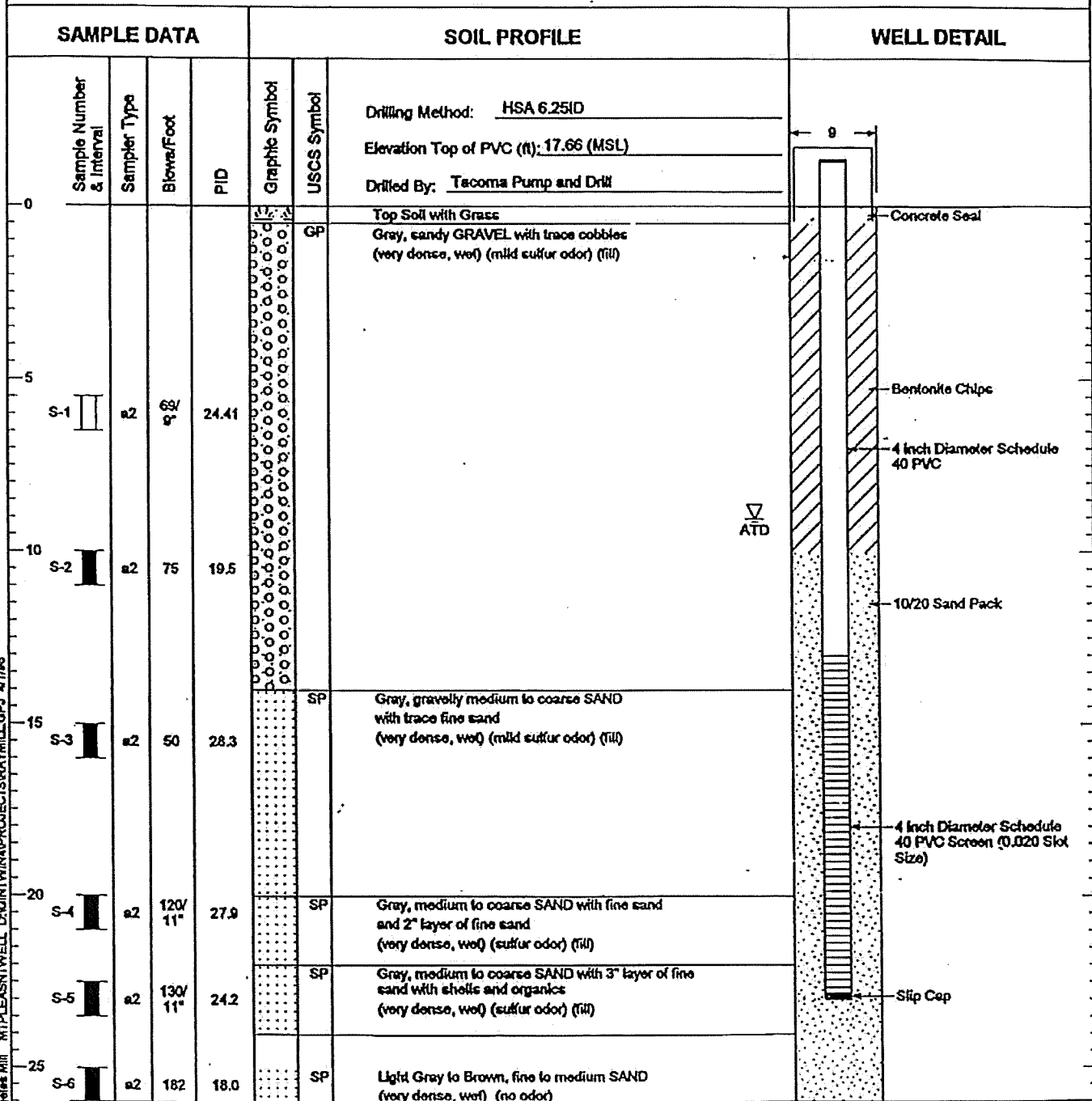
10074.31 Rayonier/Port Angeles Mill MTPLEASNTWELL C:\JOINTWIN\PROJECTS\RAYMILL\DRILL 4/1/98



Boring and Monitoring Well MW-51
Rayonier Mill

Figure A-4

MW-52



Boring Completed 02/25/98
Total Depth = 26.0 ft.

Well Completed 02/25/98
Elevation at Top of PVC Casing = 17.66
Total Depth of Well = 23 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

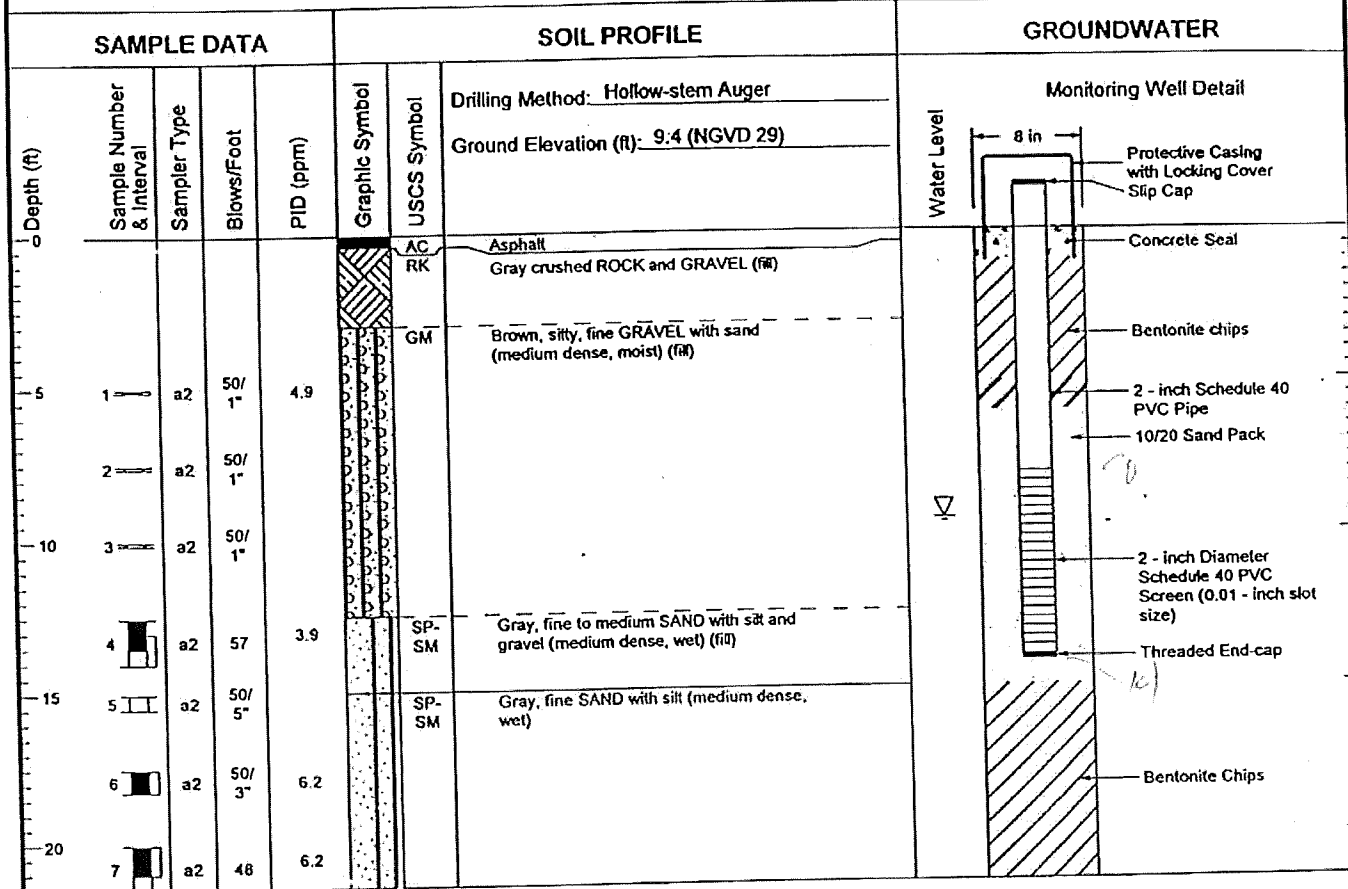
1001451 - Rayonier/Rayonier Port Angeles Mill MTP/EAS/MWELL-D/CONT/WIN/APROJECTS/RAYMILL.GPJ ATDPS



Boring and Monitoring Well MW-52
Rayonier Mill

Figure A-5

MW-53



Boring Completed 02/14/01
Total Depth of Boring = 21.5 ft.

Monitoring Well Completed 02/14/01
Elevation at Top of Monitoring Well Casing = 11.91 (NGVD 29)
Total Depth of Monitoring Well = 14.2 ft.

Refusal encountered at 4.5 ft and 5.0 ft in borings SB-53A and SB-53B, respectively. Corings abandoned with bentonite chips. Monitoring well MW-53 installed adjacent to abandoned borings SB-53A and SB-54B.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

16027.11 5/16/01 S:\MODELING\GINT\DRAWINGS\016027.rvt.GDW WELL LOG

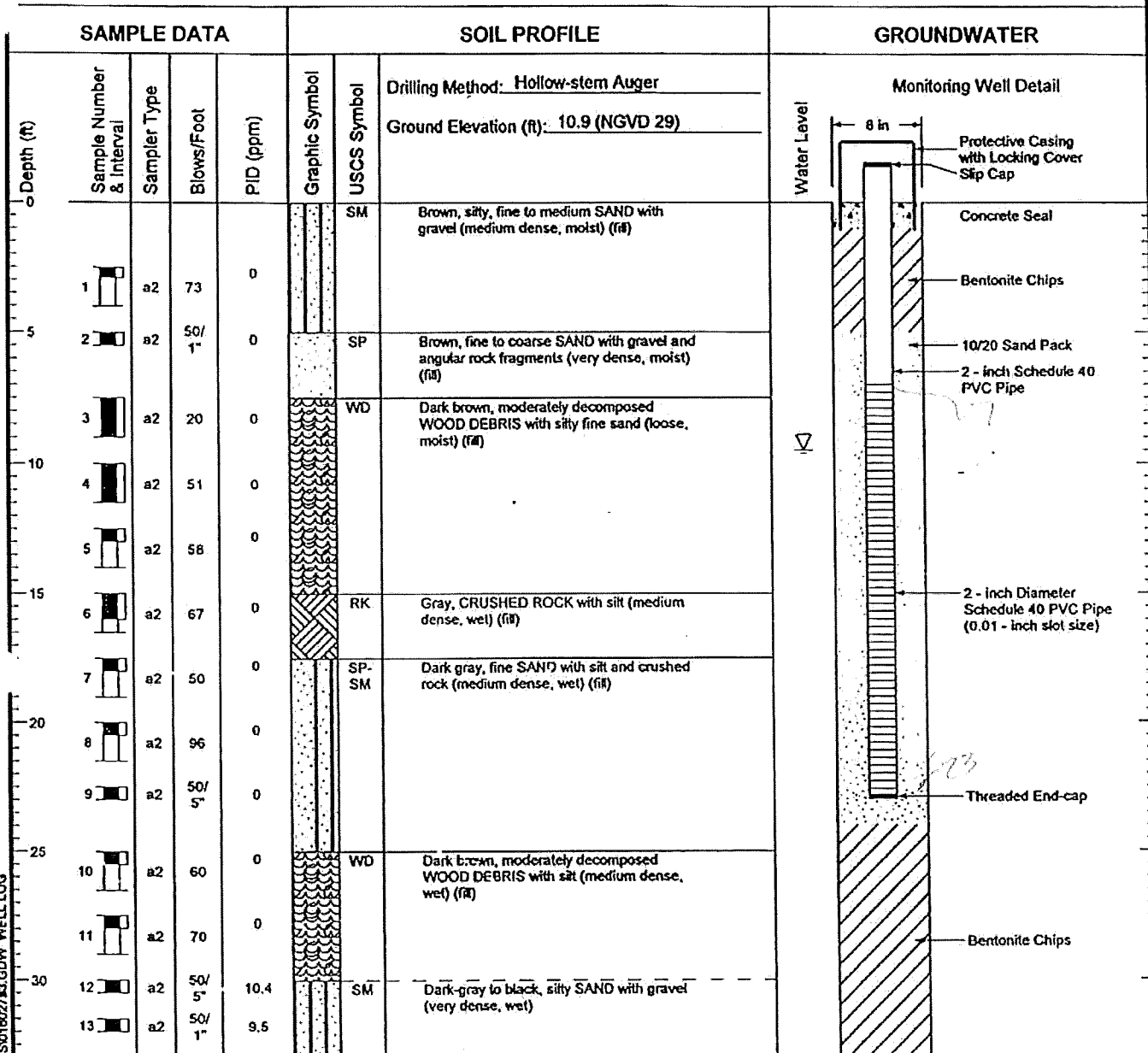


Rayonier Mill

Log of Boring and Monitoring Well
MW-53

Figure
A-2

MW-54



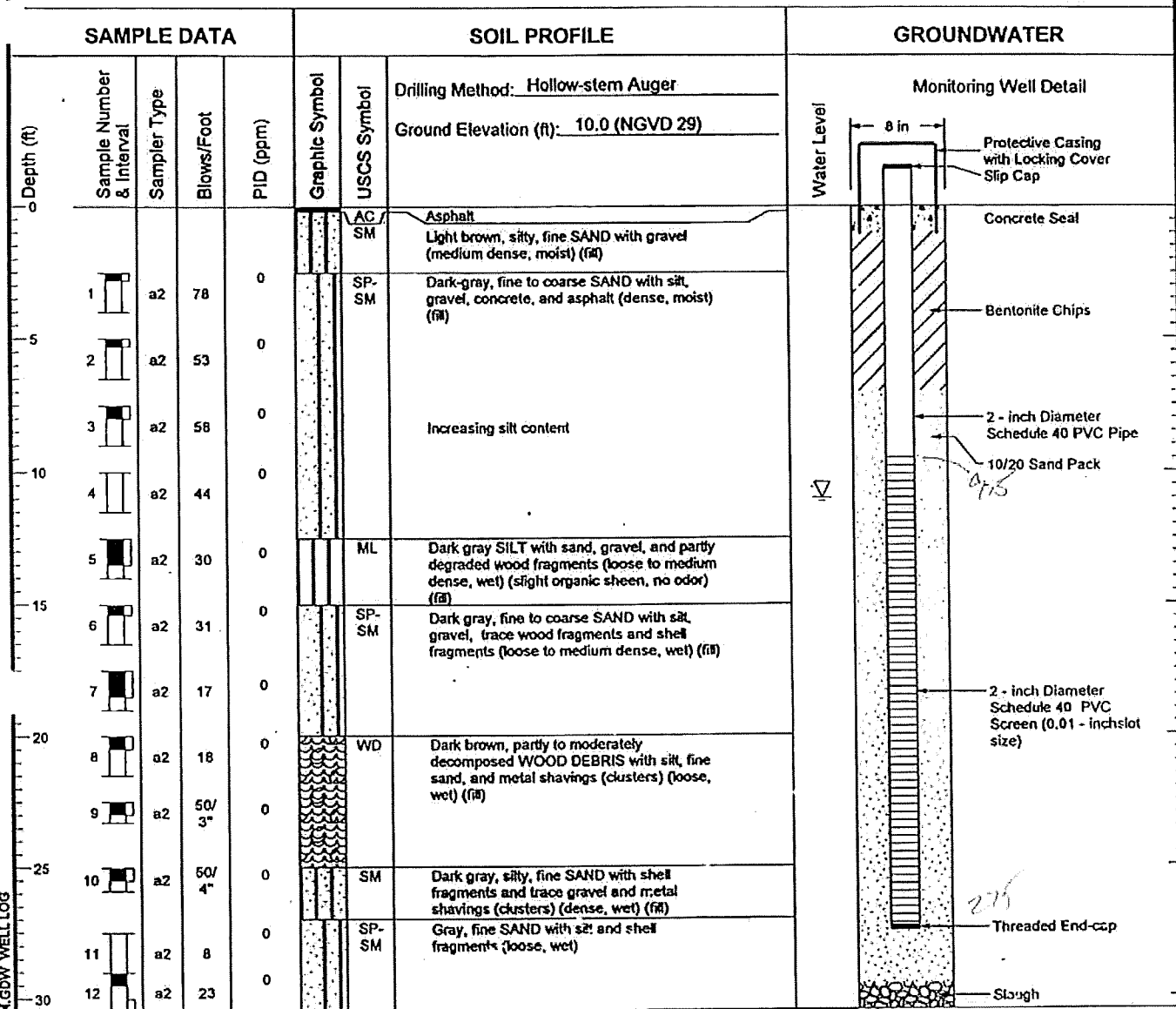
Boring Completed 02/13/01
Total Depth of Boring = 33.0 ft

Monitoring Well Completed 02/14/01
Elevation at Top of Monitoring Well Casing = 13.59 (NGVD 29)
Total Depth of Monitoring Well = 23.0 ft

Refusal encountered at 21.5 ft in boring SB-54A. Boring abandoned with bentonite chips. Monitoring well MW-54 installed adjacent to abandoned boring SB-54A.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

MW-55



Boring Completed 02/13/01
Total Depth of Boring = 30.5 ft.

Monitoring Well Completed 02/13/01
Elevation at Top of Monitoring Well Casing = 13.84 (NGVD 29)
Total Depth of Monitoring Well = 27.5 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.



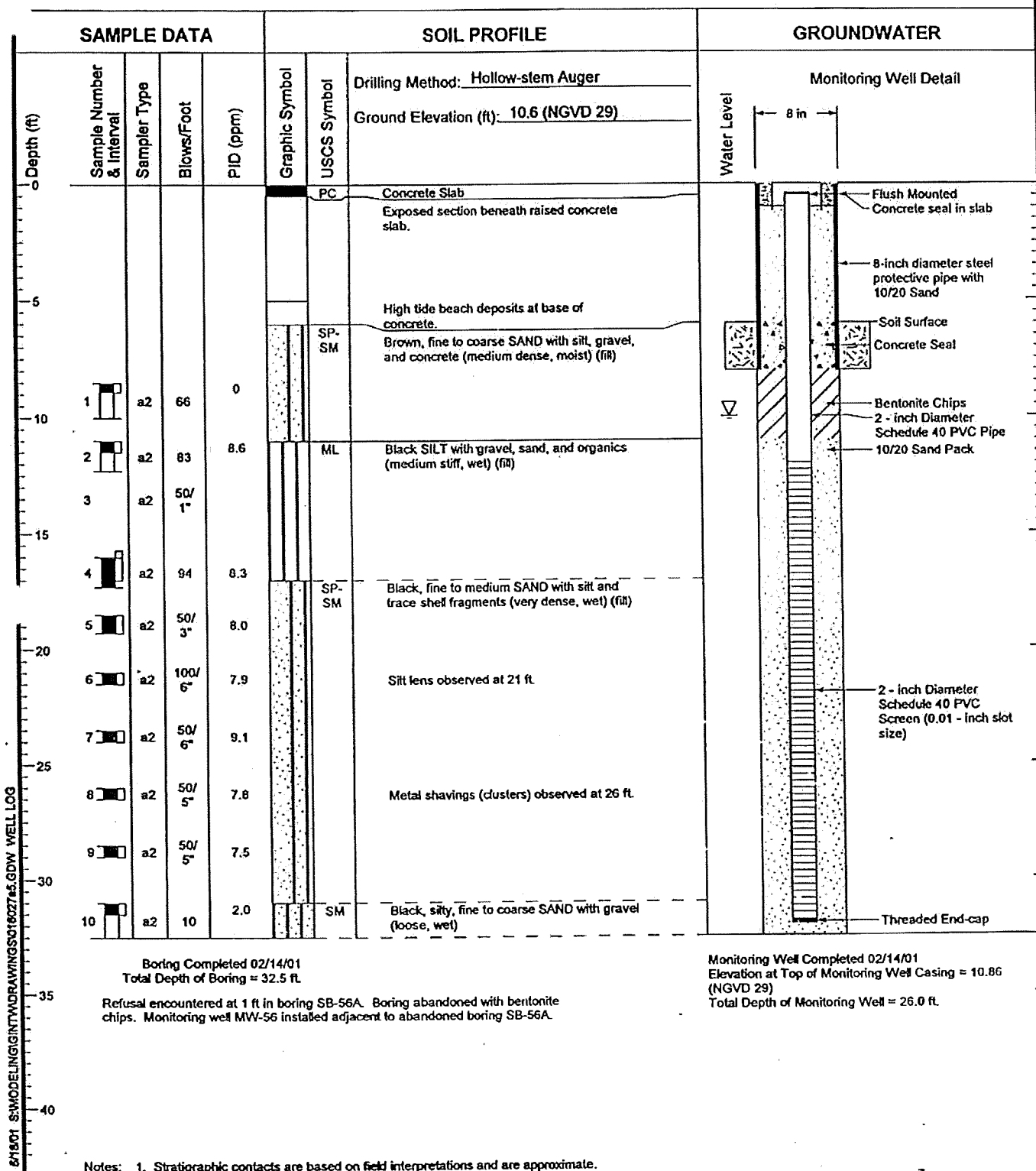
Rayonier Mill

Log of Boring and Monitoring Well
MW-55

Figure
A-4

S:\MODELING\INTEGRITY\DRAWINGS\016027-4.GDW WELL LOG

MW-56



Boring Completed 02/14/01
 Total Depth of Boring = 32.5 ft

Monitoring Well Completed 02/14/01
 Elevation at Top of Monitoring Well Casing = 10.86 (NGVD 29)
 Total Depth of Monitoring Well = 26.0 ft.

Refusal encountered at 1 ft in boring SB-56A. Boring abandoned with bentonite chips. Monitoring well MW-56 installed adjacent to abandoned boring SB-56A.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.



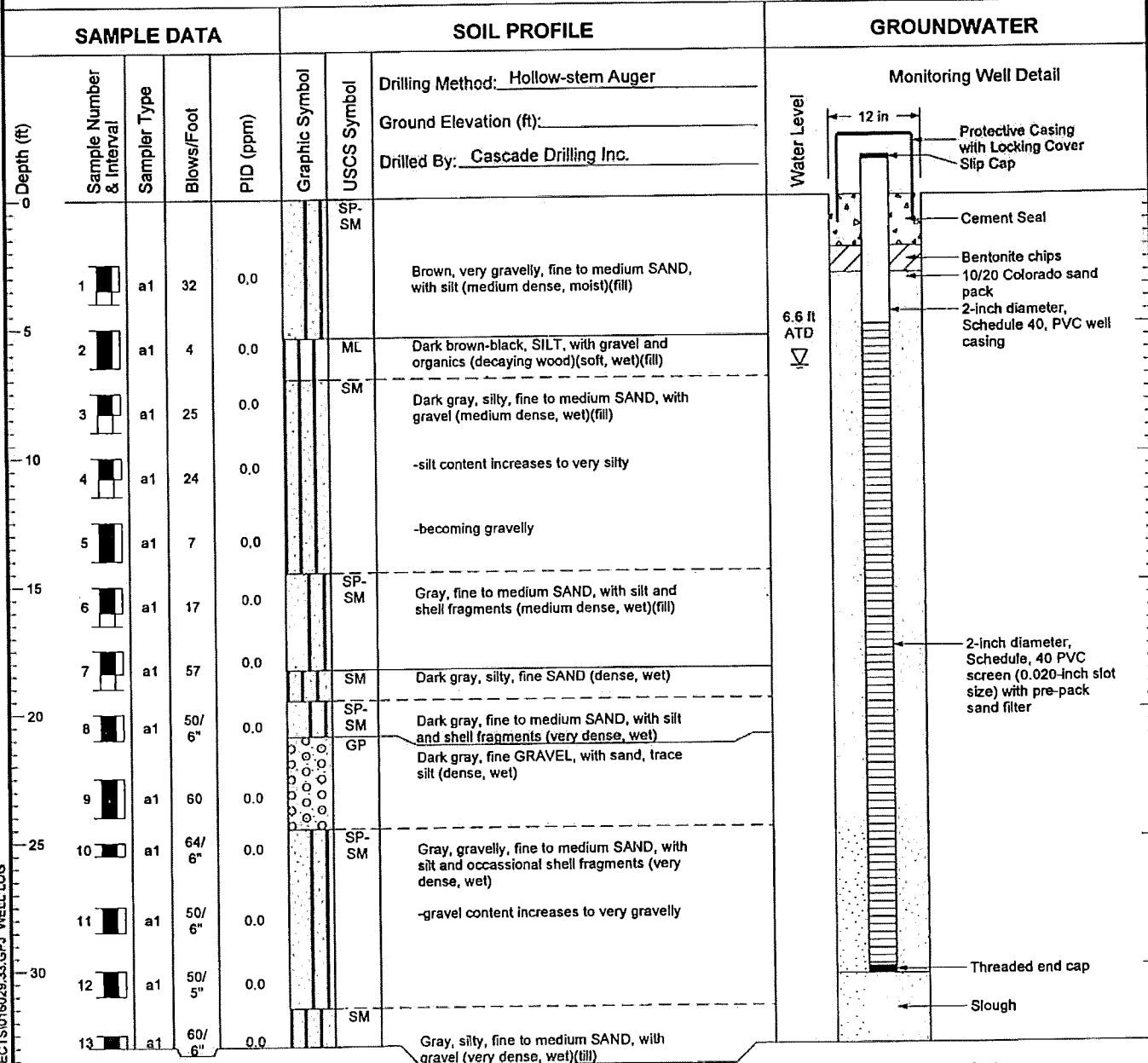
Rayonier Mill

Log of Boring and Monitoring Well
 MW-56

Figure
 A-5

S:\MODELING\INT\DRAWINGS\016027#5.GDW WELL LOG

MW-57



Water Level
6.6 ft ATD

Boring Completed 11/21/02
Total Depth of Boring = 33.0 ft

Monitoring Well Completed 11/21/02
Elevation at Top of Monitoring Well Casing = 14.06 ft.
Total Depth of Monitoring Well = 30.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

16029.33 1/21/03 I:\EDM\ASIG\INT\PROJECTS\16029.33.GPJ WELL LOG

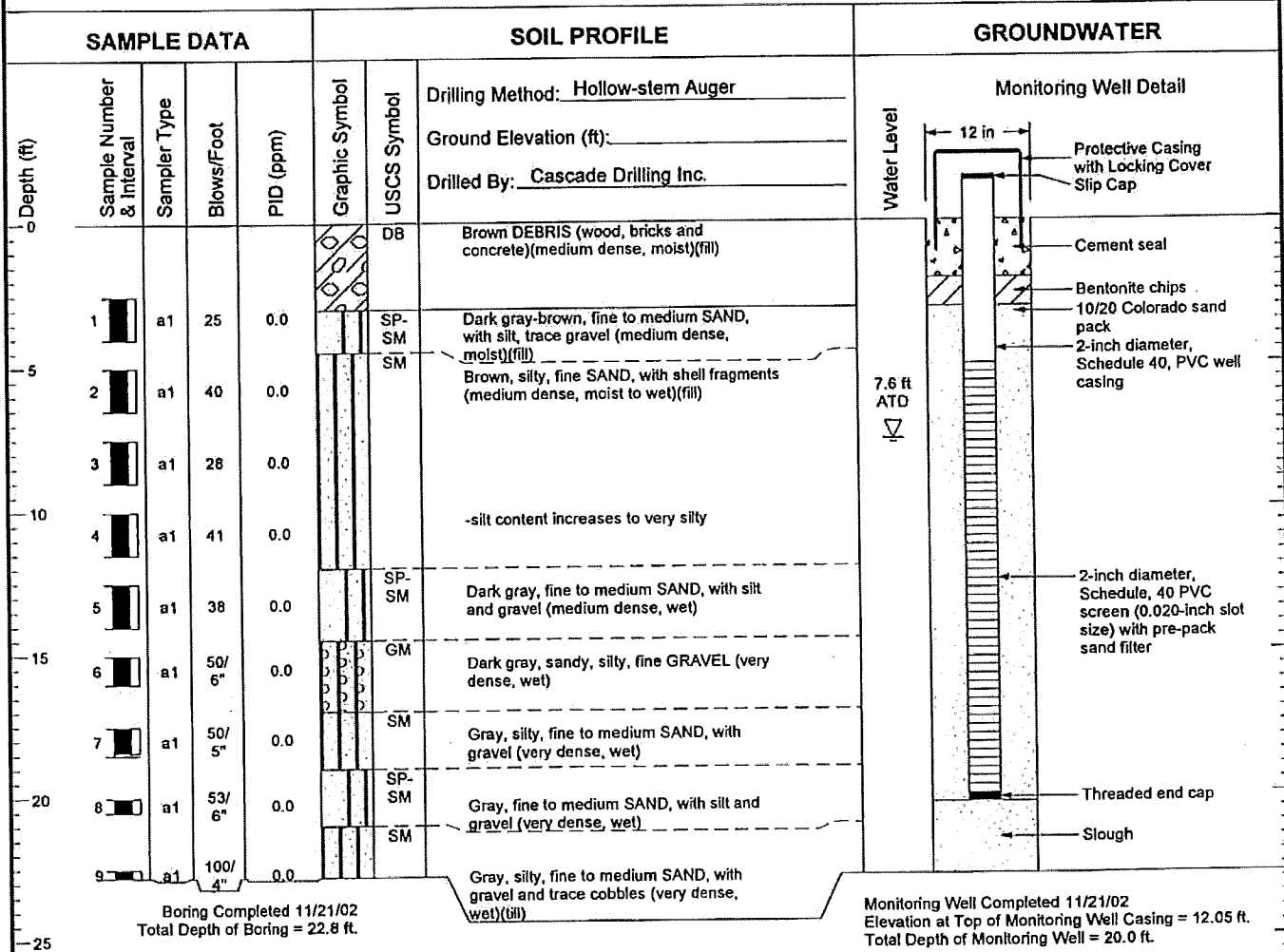


Rayonier Mill
Port Angeles, Washington

Log of Monitoring Well MW-57

Figure
A-2

MW-58



16029.33 1/21/03 \\EDMNASIG\INT\PROJECTS\16029.33.GPJ WELL LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.



MW-59

SAMPLE DATA				SOIL PROFILE		GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	
				Drilling Method: <u>Hollow-stem Auger</u>		Monitoring Well Detail 	
				Ground Elevation (ft): _____			
				Drilled By: <u>Cascade Drilling Inc.</u>			
0						SM	
1	a1	a1	50/4"	0.0			Brown, silty, fine to medium SAND, with gravel (very dense, moist to wet)(fill)
5	2	a1	50/5"	0.0			-gravel content increases to gravelly
	3	a1	50/6"	0.0			-sand distribution changes to medium to coarse sand
10	4	a1	65/6"	0.0			
	5	a1	50/6"	0.0		SP-SM	Gray to dark gray, medium to coarse SAND, with silt, trace gravel (slight sulfur odor)(very dense, wet)
15	6	a1	73	0.0			-gravel content increases to gravelly
	7	a1	69	0.0			
20	8	a1	50/6"	0.0		SM	Gray, silty, fine to medium SAND (very dense, wet)
	9	a1	88/9"	0.0		SP-SM	Gray, gravelly, fine to coarse SAND, with silt (very dense, wet)
25	10	a1	82/6"	0.0		SM	Gray, silty, gravelly, fine to medium SAND (very dense, wet)(fill)
	11	a1	100/6"	0.0			

Boring Completed 11/22/02
Total Depth of Boring = 28.5 ft.

Monitoring Well Completed 11/22/02
Elevation at Top of Monitoring Well Casing = 14.02 ft.
Total Depth of Monitoring Well = 24.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

16029.33 1/21/03 \MEDMAS\GINT\PROJECTS\16029.33.GPJ WELL LOG

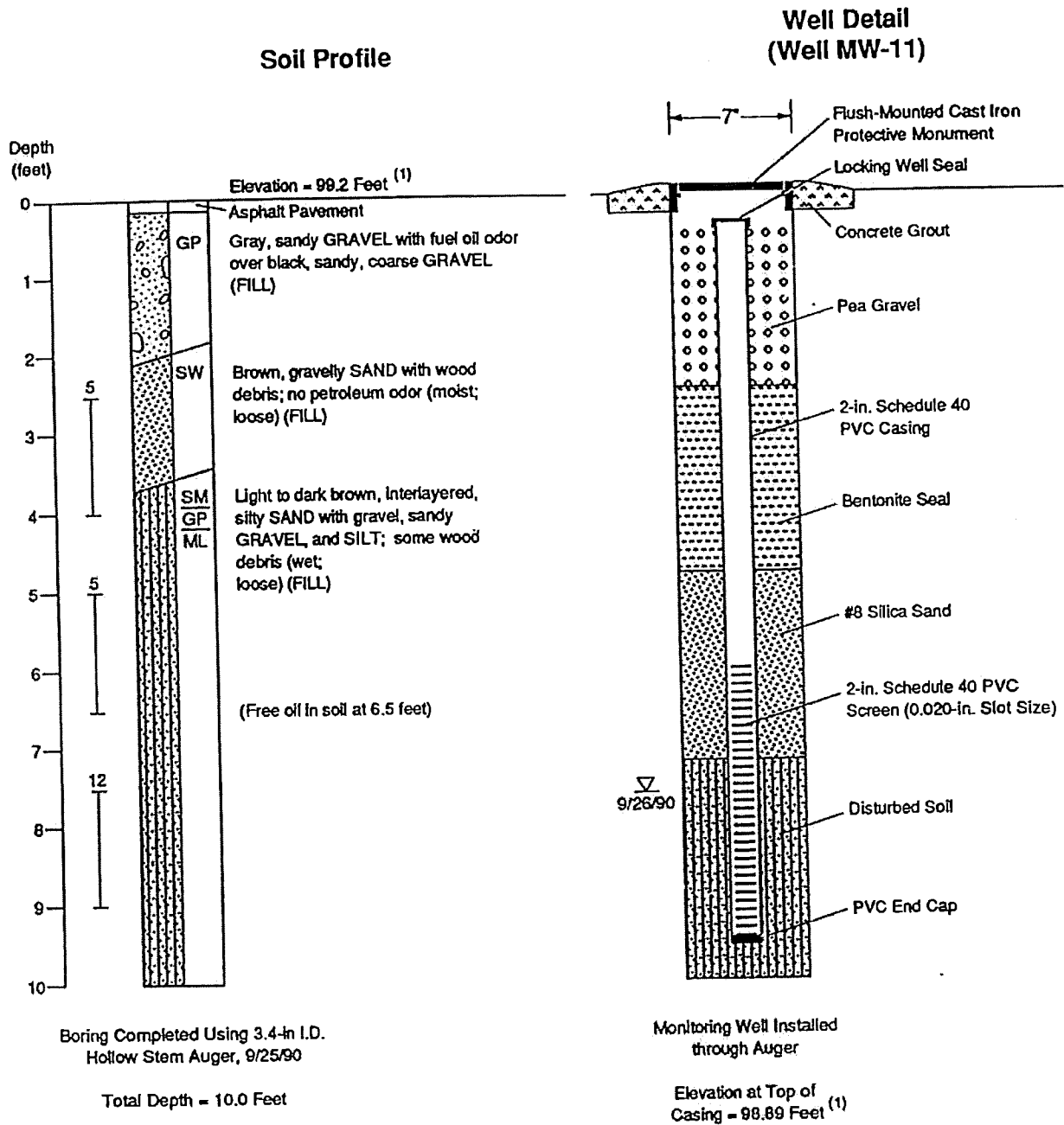


Rayonier Mill
Port Angeles, Washington

Log of Monitoring Well MW-59

Figure
A-4

Boring B-11

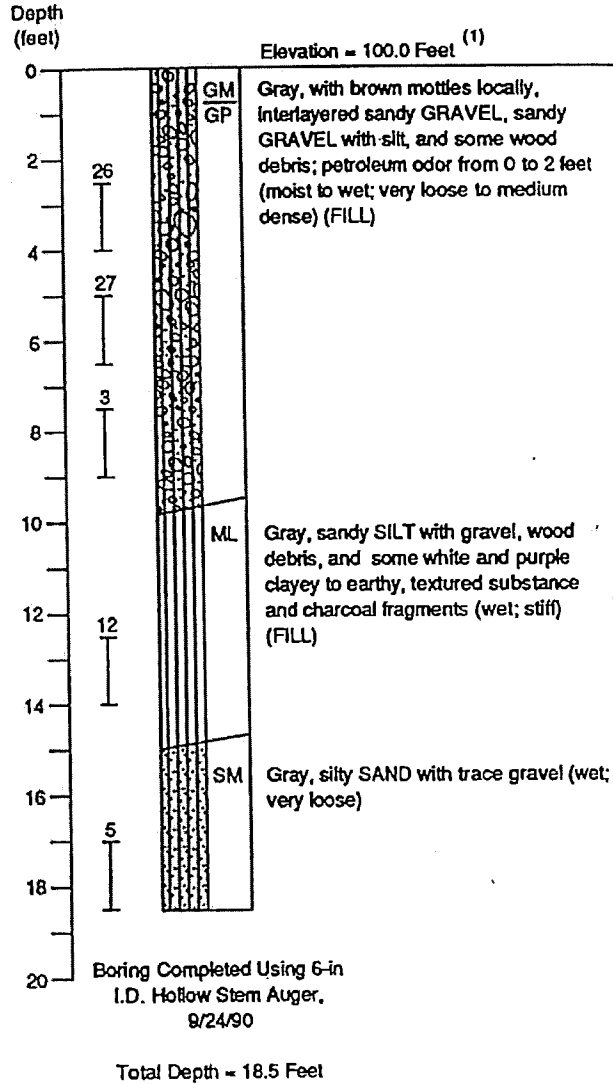


Notes: 1) Elevations are relative to an assumed datum, as explained in text.

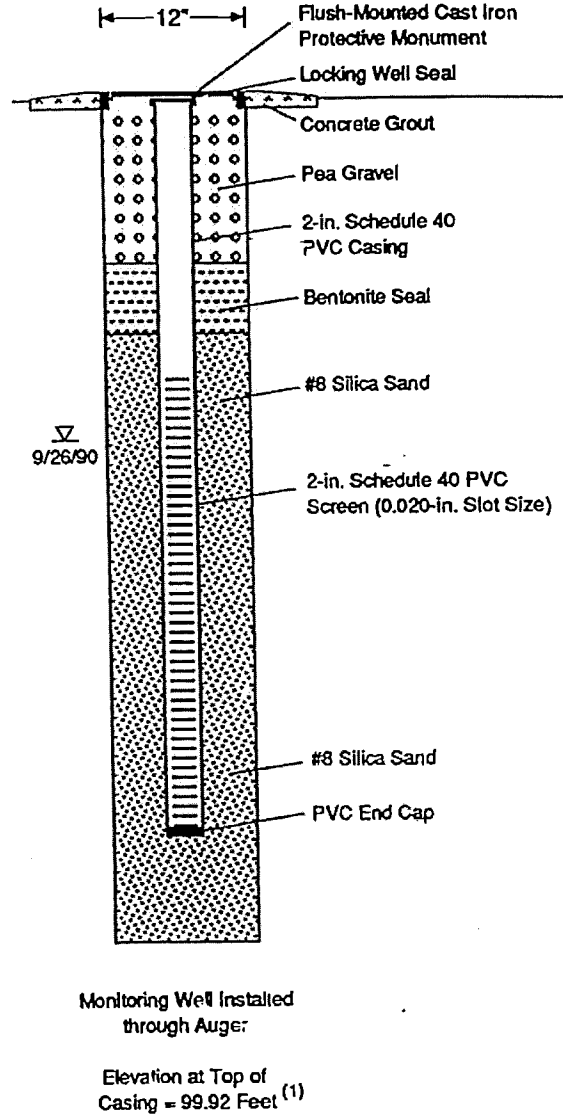
2) The discussion contained in the text of this report is necessary for a proper understanding of subsurface conditions.

Boring B-13

Soil Profile



Well Detail (Well MW-13)

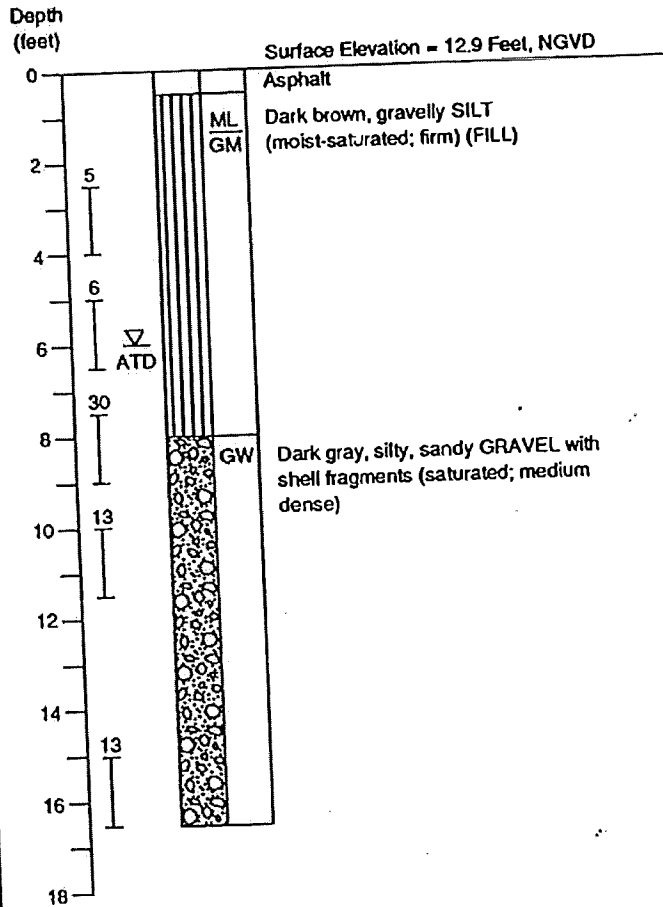


Notes: 1) Elevations are relative to an assumed datum, as explained in text.

2) The discussion contained in the text of this report is necessary for a proper understanding of subsurface conditions.

Boring B-23

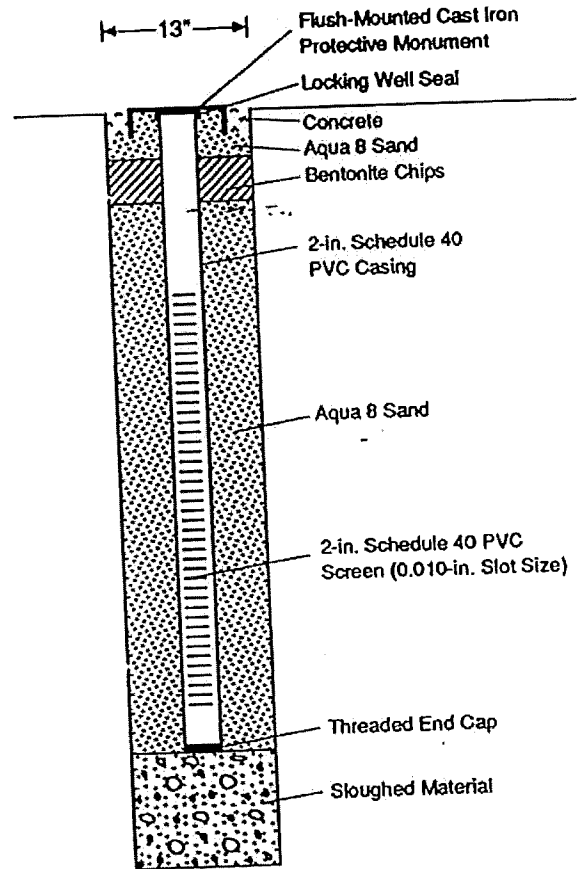
Soil Profile



Boring Completed Using
6.25-in I.D. Hollow Stem
Auger, 2/21/91

Total Depth = 16.5 Feet

Well Detail (Well MW-23)



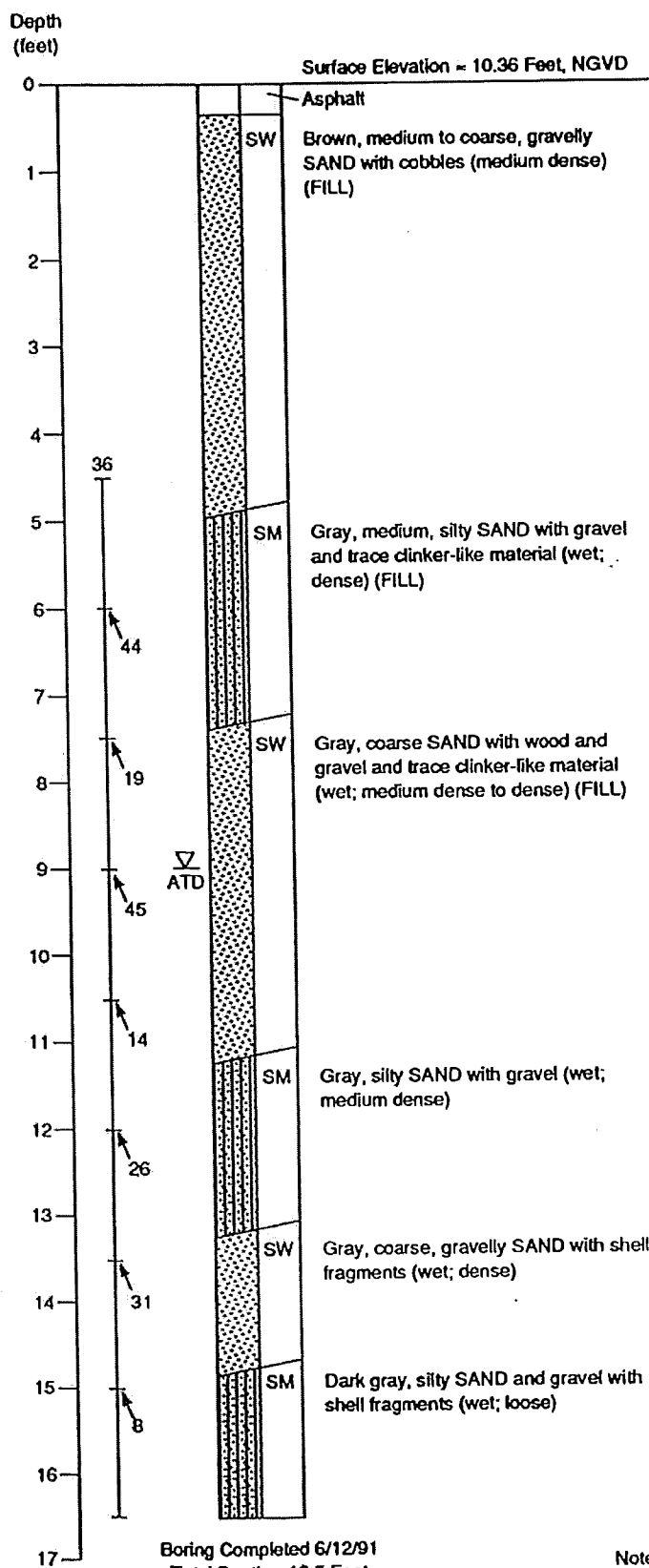
Monitoring Well Installed
through Auger

Elevation at Top of
Casing = 12.53 Feet, NGVD

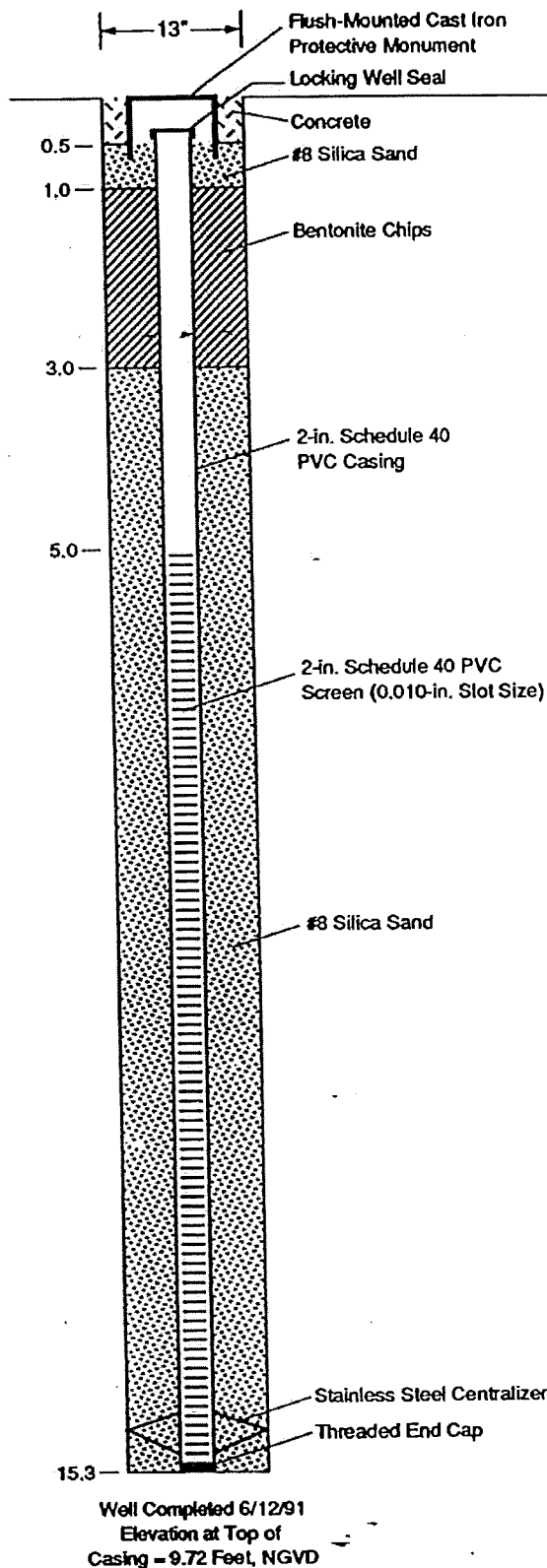
Notes: 1) The discussion contained in the text of this report is necessary for a proper understanding of subsurface conditions.

Boring B-28

Soil Profile



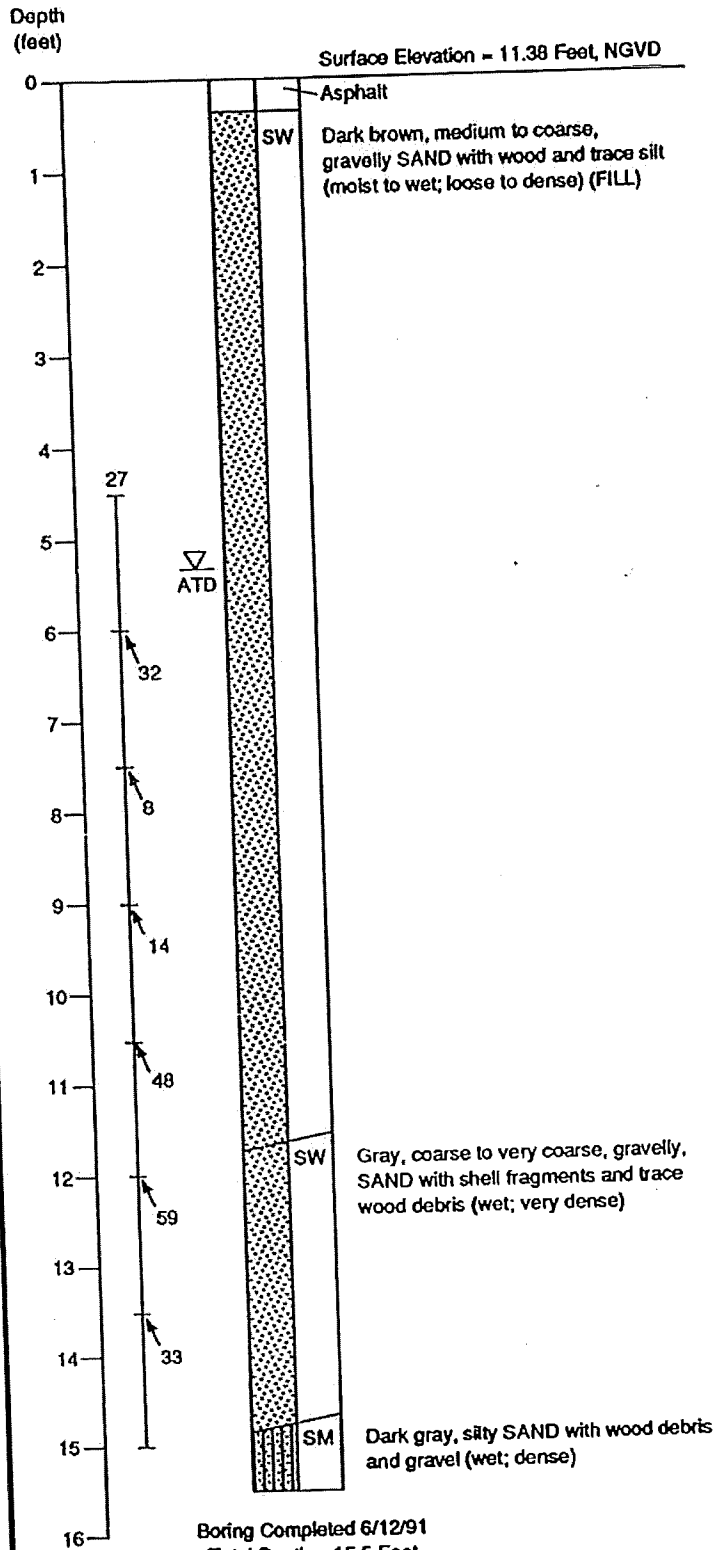
Well Detail (Well MW-28)



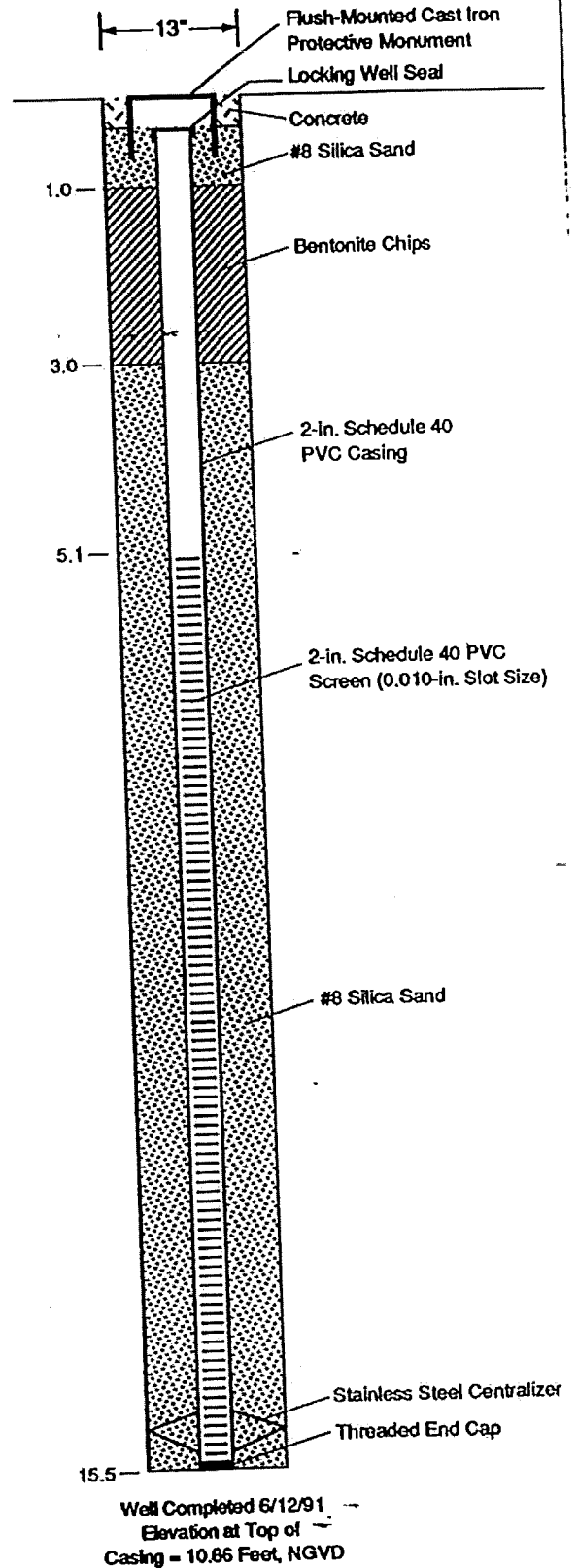
Notes: 1) The discussion contained in the text of this report is necessary for a proper understanding of subsurface conditions.

Boring B-29

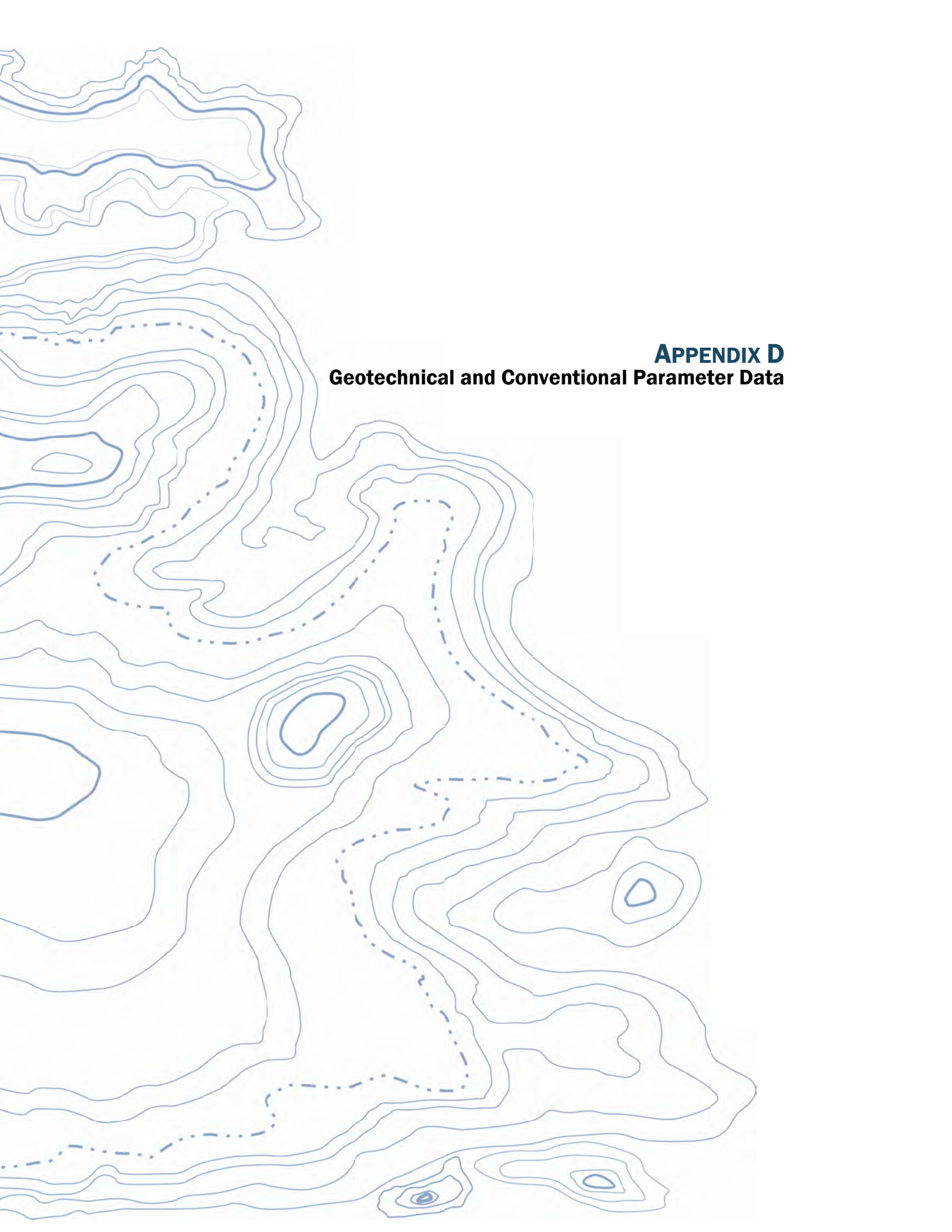
Soil Profile



Well Detail (Well MW-29)



Notes: 1) The discussion contained in the text of this report is necessary for a proper understanding of subsurface conditions.



APPENDIX D
Geotechnical and Conventional Parameter Data

Soil Hydraulic Conductivity Results
 Port Angeles Rayonier Mill Study Area
 Port Angeles, Washington

Sample ID	Hydraulic Conductivity (cm/s)	Hydraulic Conductivity (cm/s)
	ASTM D-5084 (Flexible Wall Apparatus)	ASTM D-2434 (Rigid Wall Apparatus)
GWG-1-20.75-21	8.81E-07	--
GWG-4-31-31.25	1.55E-07	--
MW-60-24-24.25	8.45E-06	--
MW-63-27.25-28	2.06E-05	--
MW-64-21.25-21.5	--	2.88E-03
SSB-1-26.25-26.5	2.34E-06	--
SSB-3-30.5-30.75	--	8.64E-03
SSB-4-22-22.25	1.14E-03	--
SSB-6-28.5-28.75	3.87E-06	--
SSB-7-30.5-30.75	--	1.43E-02
SSB-8-30.5-30.75	1.43E-05	--
SSB-10-26.25-26.5	1.45E-06	--

Notes:

-- = Indicates sample not analyzed

cm/s = Centimeters per second

Soil Bulk Density and Total Organic Carbon Results
Port Angeles Rayonier Mill Study Area
Port Angeles, Washington

Location	Start Depth (feet bgs)	End Depth (feet bgs)	Sample Date	Sample ID	Bulk Density (Dry Basis) (lb/ft ³)	Total Organic Carbon (%)
GWG-1	2	3.5	11/4/2010	GWG-1-2-3.5	--	0.64
GWG-1	5	6.5	11/4/2010	GWG-1-5-6.5	--	1.07
GWG-1	7.5	9	11/4/2010	GWG-1-7.5-9	--	1.14
GWG-4	8	9.5	11/2/2010	GWG-4-8-9.5	--	0.13
GWG-5	2	3.5	11/3/2010	GWG-5-2-3.5	--	0.85
GWG-5	5	6.5	11/3/2010	GWG-5-5-6.5	--	1.08
GWG-5A	5	6.5	11/4/2010	GWG-5A-5-6.5	--	0.60
GWG-5A	10	11.5	11/4/2010	GWG-5A-10-11.5	--	0.35
GWG-6	2	3.5	11/2/2010	GWG-6-2-3.5	--	2.17
GWG-6	5	6.5	11/2/2010	GWG-6-5-6.5	--	0.38
GWG-6	10	11.5	11/2/2010	GWG-6-10-11.5	--	0.41
GWG-7	2	3.5	11/3/2010	GWG-7-2-3.5	--	1.50
GWG-7	5	6.5	11/3/2010	GWG-7-5-6.5	--	1.38
GWG-7	7	8.5	11/3/2010	GWG-7-7-8.5	--	0.60
GWG-8	2	3.5	10/28/2010	GWG-8-2-3.5	--	0.91
GWG-8	10	11.5	10/28/2010	GWG-8-10-11.5	--	0.65
GWG-8	15	16.5	10/28/2010	GWG-8-15-16.5	--	0.30
MW-62	2	3.5	10/20/2010	MW-62-2-3.5	--	0.56
MW-62	5	6.5	10/20/2010	MW-62-5-6.5	--	0.20
MW-62	10	11.5	10/20/2010	MW-62-10-11.5	--	0.17
SSB-5	2	3.5	10/26/2010	SSB-5-2-3.5	--	1.24
SSB-5	5	6.5	10/26/2010	SSB-5-5-6.5	--	1.73
SSB-5	20	21.5	10/26/2010	SSB-5-20-21.5	--	0.35
SSB-6	5	6.5	10/26/2010	SSB-6-5-6.5	--	1.62
SSB-6	10	11.5	10/26/2010	SSB-6-10-11.5	--	0.50
SSB-6	15	16.5	11/1/2010	SSB-6-15-16.5	--	0.26
SSB-8	2	3.5	10/25/2010	SSB-8-2-3.5	--	0.69
SSB-8	5	6.5	10/25/2010	SSB-8-5-6.5	--	0.64
SSB-8	15	16.5	10/25/2010	SSB-8-15-16.5	--	0.88
SSB-9	2	3.5	10/27/2010	SSB-9-2-3.5	--	0.52
SSB-9	5	6.5	10/27/2010	SSB-9-5-6.5	--	0.47
SSB-9	20	21.25	10/27/2010	SSB-9-20-21.5	--	0.24
SSB-10	2	3.5	10/28/2010	SSB-10-2-3.5	--	1.97
SSB-10	5	6.5	10/28/2010	SSB-10-5-6.5	--	1.66
SSB-10	15	16.5	10/28/2010	SSB-10-15-16.5	--	0.30
TP-01	2	2	1/4/2011	TP-01-2'	--	5.23
TP-01	8	8	1/4/2011	TP-01-8'	--	3.98
TP-01	10	10	1/4/2011	TP-01-10'	--	0.46
TP-02	2	2	1/4/2011	TP-02-2'	--	1.66
TP-02	8	8	1/4/2011	TP-02-8'	112.0	4.90
TP-02	9	9	1/4/2011	TP-02-9'	102.8	0.54
TP-05	2	2	1/5/2011	TP-05-2'	--	0.31
TP-05	6	6	1/5/2011	TP-05-6'	--	0.77
TP-05	8	8	1/5/2011	TP-05-8'	--	0.35
TP-07	2	2	1/5/2011	TP-07-2'	--	0.54
TP-07	6	6	1/5/2011	TP-07-6'	59.9	1.74
TP-07	8	8	1/5/2011	TP-07-8'	120.4	0.35
TP-09	2	2	1/6/2011	TP-09-2'	--	0.21
TP-09	3	3	1/6/2011	TP-09-3'	--	1.59

TP-09	5	5	1/6/2011	TP-09-5'	--	0.37
TP-11	2	2	1/7/2011	TP-11-2'	--	2.65
TP-11	5	5	1/7/2011	TP-11-5'	73.1	2.07
TP-11	7	7	1/7/2011	TP-11-7'	85.0	3.45
TP-15	2	2	1/6/2011	TP-15-2'	--	31.4
TP-15	4	4	1/6/2011	TP-15-4'	--	5.10
TP-15	5	5	1/6/2011	TP-15-5'	--	0.63

Notes:

-- = Indicates sample not analyzed

lb/ft³ = Pounds per cubic foot

bgs = Below ground surface

Soil Sieve Analysis Results - Phase 2 Investigation
 Port Angeles Rayonier Mill Study Area
 Port Angeles, Washington

Sample ID Sample Depth (feet bgs)	GWG-4-10-11.5 10-11.5	GWG-8-10-11.5 10-11.5	GWG-8-15-16.5 15-16.5	MW-62-2-3.5 2-3.5	MW-62-15-16.5 15-16.5	SSB-5-5-6.5 5-6.5	SSB-5-10-11.5 10-11.5	SSB-5-30-31.5 30-31.5	SSB-6-20-21.5 20-21.5	SSB-6-28-29 28-29	SSB-8-2-3.5 2-3.5
Sieve Size	Percent Passing										
3.0 in. (75.0-mm)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1.5 in. (38.1-mm)	77.8	100.0	82.8	100.0	100.0	100.0	83.5	52.1	100.0	100.0	69.3
3/4 in. (19.0-mm)	55.1	85.2	38.8	75.0	85.9	69.8	72.4	33.8	71.5	100.0	47.5
3/8 in. (9.5-mm)	52.4	79.5	17.8	64.8	78.2	49.3	62.7	26.3	60.0	83.3	38.9
No. 4 (4.75-mm)	49.3	76.3	16.0	53.4	69.0	42.8	51.8	22.5	57.8	74.5	34.3
No. 10 (2.00-mm)	42.5	74.1	13.4	42.0	55.5	35.3	40.1	16.6	48.0	65.6	31.7
No. 20 (.850-mm)	36.7	72.3	11.1	33.7	40.3	28.6	32.0	11.5	38.9	57.9	30.0
No. 40 (.425-mm)	30.2	69.3	9.3	26.2	25.1	21.2	25.9	8.0	28.4	50.2	17.3
No. 60 (.250-mm)	22.7	64.4	7.6	18.8	13.9	14.5	19.5	6.0	16.1	40.7	11.7
No. 100 (.150-mm)	18.7	59.1	6.3	13.9	9.1	11.0	12.3	4.8	10.0	32.3	7.3
No. 200 (.075-mm)	16.0	49.4	4.7	9.4	6.5	8.7	6.9	3.6	6.5	24.1	3.7

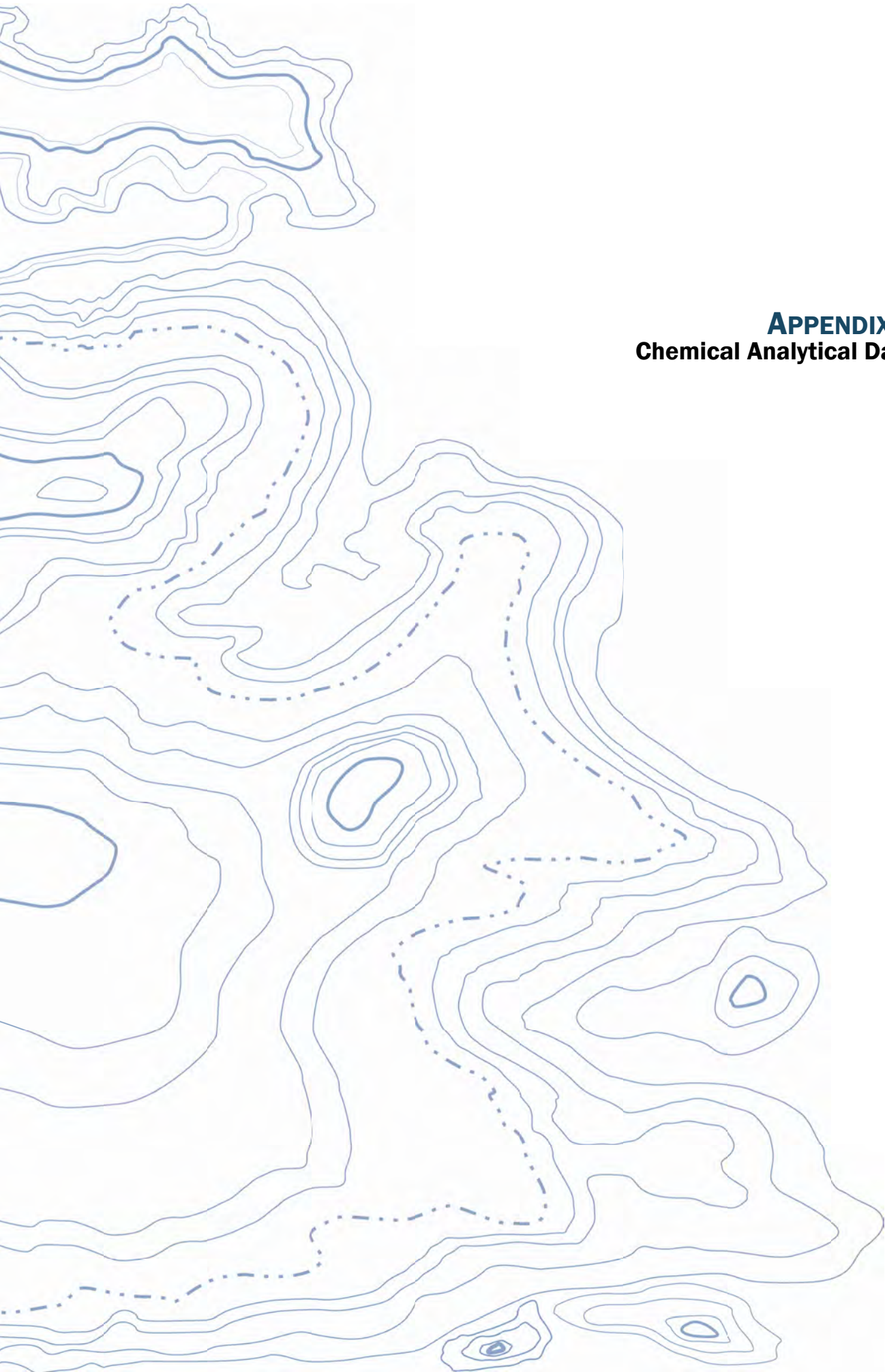
Notes:
 mm = Millimeters

SSB-8-10-11.5 10-11.5	SSB-8-30-31 30-31	SSB-9-5-6.5 5-6.5	SSB-9-20-21.5 20-21.5	SSB-9-30-31.5 30-31.5	SSB-10-5-6.5 5-6.5	SSB-10-15-16.5 15-16.5	SSB-10-25-26.5 25-26.5
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	87.8	77.1	100.0	100.0	100.0
85.7	92.0	100.0	68.5	63.6	100.0	33.7	76.4
82.2	80.8	95.6	49.4	56.3	98.5	30.7	63.6
70.5	72.5	93.8	37.4	47.3	92.8	27.3	48.5
54.5	64.9	92.2	28.2	36.3	87.4	22.5	35.8
41.2	59.1	90.9	22.8	27.4	81.5	17.4	28.1
30.6	52.4	88.7	18.7	20.2	75.7	12.7	22.4
20.5	44.5	84.4	15.2	14.2	70.9	8.5	17.6
12.7	37.2	78.6	12.6	9.9	65.6	6.1	14.5
7.6	28.4	65.9	9.6	6.2	51.5	4.3	11.4

Soil Sieve Analysis Results - Phase 3 Investigation
 Port Angeles Rayonier Mill Study Area
 Port Angeles, Washington

Location	Start Depth (feet bgs)	End Depth (feet bgs)	Sample Date	Sample ID	Passing <1.3 um %	Retained 1.3 um %	Retained 3.2 um %	Retained 7 um %	Retained 9 um %	Retained 13 um %	Retained 22 um %	Retained 32 um %	Retained 75 um %	Retained 150 um %	Retained 250 um %	Retained 425 um %	Retained 850 um %	Retained 2000 um %	Retained 4750 um %	Retained 9500 um %	Retained 12500 um %	Retained 19000 um %	Retained 25K um %	Retained 27.5K um %	Retained 50K um %	Retained 75K um %
TP-01	8	8	1/4/2011	TP-01-8'	1.6	0.3	3.2	0.1 U	0.5	0.8	0.1 U	0.3	1.8	3.2	6.9	9.7	16.9	13.0	12.3	4.9	8.8	5.6	10.3	0.1 U	0.1 U	0.1 U
TP-01	10	10	1/4/2011	TP-01-10'	0.8	0.2	1.2	0.2	0.4	1.4	0.6	0.3	3.3	5.6	9.6	8.6	13.7	10.9	9.6	4.6	4.5	3.6	20.9	0.1 U	0.1 U	0.1 U
TP-02	8	8	1/4/2011	TP-02-8'	0.5	0.3	1.3	0.1 U	0.1 U	1.1	0.3	0.8	1.7	4.6	14.6	16.9	19.5	11.0	7.5	3.2	2.0	2.6	2.1	10.1	0.1 U	0.1 U
TP-02	9	9	1/4/2011	TP-02-9'	0.1 U	0.1 U	0.3	0.1 U	0.5	0.3	0.1 U	0.1	1.1	4.0	14.8	22.7	19.3	12.3	8.2	3.3	4.3	0.1 U	4.1	4.8	0.1 U	0.1 U
TP-05	6	6	1/5/2011	TP-05-6'	0.1 U	0.3	1.6	1.0	1.3	1.9	1.6	1.2	7.0	6.8	9.8	14.0	21.5	6.4	4.4	2.6	5.5	11.1	1.9	0.1 U	0.1 U	0.1 U
TP-05	8	8	1/5/2011	TP-05-8'	0.2	0.1 U	0.2	0.4	0.1 U	0.2	0.1 U	0.3	0.7	3.3	14.0	13.8	8.2	4.9	5.5	4.1	10.9	9.2	8.3	5.9	9.9	0.1 U
TP-07	6	6	1/5/2011	TP-07-6'	0.9	0.6	1.8	0.9	0.9	1.5	1.8	3.7	4.0	4.4	6.6	7.8	16.7	9.1	5.8	1.8	4.3	2.7	12.0	12.7	0.1 U	0.1 U
TP-07	8	8	1/5/2011	TP-07-8'	0.1 U	0.1 U	0.4	0.1 U	0.1 U	0.2	0.2	0.3	0.2	1.6	10.5	13.8	18.4	12.4	10.4	4.4	12.3	3.8	11.0	0.1 U	0.1 U	0.1 U
TP-09	3	3	1/6/2011	TP-09-3'	0.7	0.2	0.7	0.7	0.2	1.3	0.2	1.8	2.9	4.7	8.8	8.5	12.9	12.4	11.9	5.1	9.3	2.7	5.7	9.4	0.1 U	0.1 U
TP-09	5	5	1/6/2011	TP-09-5'	0.4	0.1 U	0.3	0.3	0.3	0.1	0.1 U	0.4	0.6	0.9	3.5	10.5	22.0	21.3	17.6	6.0	8.3	3.5	3.8	0.1 U	0.1 U	0.1 U
TP-11	5	5	1/7/2011	TP-11-5'	0.4	0.2	0.7	0.4	0.7	0.7	0.4	0.4	4.4	4.7	7.0	8.9	18.0	11.3	9.1	3.3	9.7	4.0	8.1	7.4	0.1 U	0.1 U
TP-11	7	7	1/7/2011	TP-11-7'	0.8	0.4	1.0	0.8	0.4	0.6	1.0	4.9	2.2	2.5	4.1	5.1	10.0	9.0	9.1	3.9	10.4	10.6	19.5	3.7	0.1 U	0.1 U
TP-15	4	4	1/6/2011	TP-15-4'	1.5	0.7	1.9	0.7	0.7	2.6	1.5	3.5	3.5	4.4	16.2	18.4	18.0	7.5	5.4	2.7	6.2	1.4	3.0	0.1 U	0.1 U	0.1 U
TP-15	5	5	1/6/2011	TP-15-5'	1.3	1.0	1.3	0.7	0.7	2.0	1.3	0.3	1.9	4.3	13.3	22.0	27.0	14.7	4.8	0.7	2.9	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

Notes:
 um = Micrometers
 bgs = Below ground surface
 U = Less than the listed value



APPENDIX E
Chemical Analytical Data

**Ammonia as (N) in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

					Parameter Units MTCA-B GW AS MSW	Ammonia-N (un-ionized)* (mg/L) 0.035
Funct. Area	Loc ID	Date	Sample ID	Sample Type		
City Purchase	PA-19	8/26/2010	PA-19_100826	N		1.28e-005 V
City Purchase	PA-19	11/11/2010	PA-19_101111	N		1.4e-005 V
City Purchase	PA-23	11/8/2010	PA-23_101108	N		0.000148 V
City Purchase	PZ-11	2/14/1997	R661D	N		0.000248005
City Purchase	PZ-11	8/28/1997	T609D	N		0.00139294
City Purchase	PZ-11	8/23/2001	DN28A	N		0.000953439
City Purchase	PZ-11	12/11/2002	FB89B	N		0.000768327
City Purchase	PZ-11	8/27/2010	PZ-11_100827	N		0.000492 V
City Purchase	PZ-12	2/28/1997	R796B	N		2.79351E-05
City Purchase	PZ-12	8/28/1997	T609E	N		0.000173553
City Purchase	PZ-12	8/21/2001	DN18H	N		0.000252341
City Purchase	PZ-12	12/11/2002	FB89C	N		0.000232323
City Purchase	PZ-12	8/27/2010	PZ-12_100827	N		0.000118 V
CSO	PA-15	11/9/2010	PA-15_101109	N		4e-005 V
East Former Mill	PA-24	11/9/2010	PA-24_101109	N		0.000478 V
East Former Mill	PA-24	2/10/2011	PA-24_110210	N		7.1955e-005 V
East Former Mill	PA-24	5/18/2011	PA-24-110518	N		0.0001 V
East Former Mill	PZ-10	2/28/1997	R796A	N		0.00107223
East Former Mill	PZ-10	8/27/1997	T609I	N		0.000609559
East Former Mill	PZ-10	8/22/2001	DN25D	N		0.0004077
East Former Mill	PZ-10	12/13/2002	FB89O	N		0.000530219
East Former Mill	PZ-10	8/26/2010	PZ-10_100826	N		0.000174 V
East Former Mill	PZ-13	2/14/1997	R661A	N		1.23999E-06
East Former Mill	PZ-13	8/27/1997	T609H	N		3.42064E-05
East Shoreline	MW-59	12/13/2002	FB89T	N		0.0308963
East Shoreline	MW-59	6/19/2003	MW-59-06192003	N		0.03
East Shoreline	MW-59	8/27/2010	MW-59_100827	N		0.00972 V
East Shoreline	MW-59	2/10/2011	MW-59_110210	N		0.034 V
East Shoreline	MW-59	5/18/2011	MW-59-110518	N		0.0264 V
East Shoreline	PZ-9	2/14/1997	R661B	N		0.0302082
East Shoreline	PZ-9	8/27/1997	T609J	N		0.0777973
East Shoreline	PZ-9	8/21/2001	DN18D	N		0.078922
East Shoreline	PZ-9	12/13/2002	FB89N	N		0.0314256
East Shoreline	PZ-9	6/19/2003	PZ-9-06192003	N		0.09
East Shoreline	PZ-9	8/26/2010	DUP-082610	FD		0.0359 V
East Shoreline	PZ-9	8/26/2010	PZ-9_100826	N		0.0348 V
East Shoreline	PZ-9	11/10/2010	PZ-9_101110	N		0.102 V
East Shoreline	PZ-9	2/8/2011	PZ-9_110208	N		0.033 V
East Shoreline	PZ-9	5/20/2011	PZ-09-110520	N		0.0274 V
Ennis Creek	PZ-5	2/13/1997	R652D	N		0.000227724
Ennis Creek	PZ-5	8/28/1997	T609C	N		0.000536623
Ennis Creek	PZ-5	8/21/2001	DN18G	N		0.000157137
Ennis Creek	PZ-5	12/12/2002	FB89F	N		0.000223437
Ennis Creek	PZ-5	6/18/2003	PZ-5-06182003	N		0.001
Ennis Creek	PZ-5	8/27/2010	PZ-5_100827	N		0.000135 V
Ennis Creek	PZ-6	2/13/1997	R652C	N		0.000148272
Ennis Creek	PZ-6	8/28/1997	T609B	N		4.05851E-05
Ennis Creek	PZ-6	8/23/2001	DN28B	N		8.9231E-06
Ennis Creek	PZ-6	12/11/2002	FB89A	N		4.27038E-06
Ennis Creek	PZ-6	6/18/2003	PZ-6-06182003	N		0.0000203
Ennis Creek	PZ-6	8/27/2010	PZ-6_100827	N		2.11e-005 V

**Ammonia as (N) in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

					Parameter Units MTCA-B GW AS MSW	Ammonia-N (un-ionized)* (mg/L) 0.035
Funct. Area	Loc ID	Date	Sample ID	Sample Type		
Estuary	FR-1	8/22/2001	DN25B	N		0.000122655
Estuary	MW-62	11/9/2010	MW-62_101109	N		0.015 V
Estuary	MW-62	2/10/2011	MW-62_110210	N		0.29 V
Estuary	MW-62	5/18/2011	MW-62-110518	N		0.0004 V
Main Former Mill	GWG-1	11/4/2010	GWG-1-W	N		0.542 V
Main Former Mill	GWG-2	11/1/2010	GWG-2-W	N		0.005 V
Main Former Mill	GWG-3	11/1/2010	GWG-3-W	N		0.055 V
Main Former Mill	GWG-4	11/2/2010	GWG-4-W	N		0.003 V
Main Former Mill	GWG-5	11/3/2010	GWG-5-W	N		0.144 V
Main Former Mill	MW-58	12/13/2002	FB89S	N		0.0152856
Main Former Mill	MW-58	6/18/2003	MW-58-06192003	N		0.01
Main Former Mill	MW-58	8/27/2010	MW-58_100827	N		0.0087 V
Main Former Mill	MW-58	2/11/2011	MW-58_110211	N		0.005 V
Main Former Mill	MW-58	5/19/2011	MW-58-110519	N		0.0044 V
Main Former Mill	MW-65	3/11/2011	MW-65-110311-W	N		0.0005263
Main Former Mill	MW-65	5/18/2011	MW-65-110518	N		0.0007 V
Main Former Mill	MW-66	3/11/2011	MW-66-110311-W	N		0.1133
Main Former Mill	MW-66	5/18/2011	MW-66-110518	N		0.0429 V
Main Former Mill	PIPE-1-SR23	1/7/2011	PIPE-1-SR23	N		0.216 V
Main Former Mill	PZ-4	2/13/1997	R652E	N		0.00464159
Main Former Mill	PZ-4	8/27/1997	T609G	N		0.00650361
Main Former Mill	PZ-4	8/21/2001	DN18F	N		0.00463214
Main Former Mill	PZ-4	12/12/2002	FB89E	N		0.00829465
Main Former Mill	PZ-4	6/17/2003	PZ-4-06172003	N		0.00002
Main Former Mill	PZ-4	8/25/2010	PZ-4_100825	N		0.001872 V
North Shoreline	MW-51	8/4/1998	Y129C	N		0.0243346
North Shoreline	MW-51	8/21/2001	DN18C	N		0.0428624
North Shoreline	MW-51	12/12/2002	FB89H	N		0.0769823
North Shoreline	MW-51	6/18/2003	MW-51-06182003	N		0.04
North Shoreline	MW-51	8/26/2010	MW-51_100826	N		0.0191 V
North Shoreline	MW-51	11/10/2010	MW-51_101110	N		0.223 V
North Shoreline	MW-51	2/11/2011	MW-51_110211	N		0.036 V
North Shoreline	MW-51	5/19/2011	MW-51-110519	N		0.0048 V
North Shoreline	MW-56	8/22/2001	DN25E	N		4.46698
North Shoreline	MW-56	12/12/2002	FB89M	N		7.227
North Shoreline	MW-56	6/19/2003	MW-56-06192003	N		3.3
North Shoreline	MW-56	8/26/2010	MW-56_100826	N		3.02702 V
North Shoreline	MW-56	11/9/2010	MW-56_101109	N		2.783 V
North Shoreline	MW-56	2/11/2011	MW-56_110211	N		2.172 V
North Shoreline	MW-56	5/18/2011	MW-56-110518	N		2.2517 V
NW Shoreline	MW-28	8/25/2010	MW-28_100825	N		0.63744 V
NW Shoreline	MW-28	11/10/2010	MW-28_101110	N		0.679 V
NW Shoreline	MW-28	2/8/2011	MW-28_110208	N		0.515 V
NW Shoreline	MW-28	5/20/2011	MW-28-110520	N		0.3732 V
NW Shoreline	MW-52	8/4/1998	Y129A	N		0.00290253
NW Shoreline	MW-52	8/22/2001	DN25G	N		0.000869757
NW Shoreline	MW-52	12/12/2002	FB89I	N		0.000782502
NW Shoreline	MW-52	6/16/2003	MW-52-06162003	N		0.0002
NW Shoreline	MW-52	8/25/2010	MW-52_100825	N		0.00046 V
NW Shoreline	MW-53	8/21/2001	DN18A	N		0.00334907
NW Shoreline	MW-53	12/12/2002	FB89J	N		0.00458253
NW Shoreline	MW-53	6/16/2003	MW-53-06162003	N		0.0033
NW Shoreline	MW-53	8/26/2010	MW-53_100826	N		0.00394 V
NW Shoreline	MW-61	11/11/2010	MW-61_101111	N		0.002 V
NW Shoreline	MW-61	2/11/2011	MW-61_110211	N		0.001 V
NW Shoreline	MW-61	5/18/2011	MW-61-110518	N		0.0014 V
NW Shoreline	MW-67	3/11/2011	MW-67-110311-W	N		0.014765
NW Shoreline	MW-67	5/18/2011	MW-67-110518	N		0.0187 V
NW Shoreline	PZ-1	8/22/2001	DN25C	FD		0.00252318
NW Shoreline	PZ-2	2/13/1997	R652B	N		0.727245

**Ammonia as (N) in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

					Parameter Units MTCA-B GW AS MSW	Ammonia-N (un-ionized)* (mg/L) 0.035
Funct. Area	Loc ID	Date	Sample ID	Sample Type		
NW Shoreline	PZ-2	8/27/1997	T609F	N		0.784397
NW Shoreline	PZ-2	8/25/2010	PZ-2_100825	N		0.016368 V
NW Shoreline	PZ-2	11/11/2010	PZ-2_101111	N		0.009 V
NW Shoreline	PZ-2	2/7/2011	PZ-2_110207	N		0.001 V
NW Shoreline	PZ-2	5/17/2011	PZ-02-110517	N		0.0033 V
Prefab	PZ-7	2/14/1997	R661C	N		9.14965E-05
Prefab	PZ-7	8/27/1997	T609K	N		0.00060616
Prefab	PZ-7	12/12/2002	FB89G	N		0.000376374
Prefab	PZ-7	8/27/2010	PZ-7_100827	N		2.1e-005 V
West Former Mill	MW-19	8/22/2001	DN25I	N		0.0173187
West Former Mill	MW-20	9/2/1997	T609N	N		0.0882543
West Former Mill	MW-23	10/15/1997	U167A	N		0.037788
West Former Mill	MW-23	8/21/2001	DN18E	N		0.0983464
West Former Mill	MW-23	12/13/2002	FB89Q	N		0.0116271
West Former Mill	MW-23	6/16/2003	MW-23-06162003	N		0.07
West Former Mill	MW-23	8/25/2010	MW-23_100825	N		0.023133 V
West Former Mill	MW-23	11/10/2010	MW-23_101110	N		0.01 V
West Former Mill	MW-23	2/9/2011	MW-23_110209	N		0.004 V
West Former Mill	MW-23	5/19/2011	MW-23-110519	N		0.006 V
West Former Mill	MW-29	9/2/1997	T609O	N		1.19055
West Former Mill	MW-29	6/17/2003	MW-29-06172003	N		0.9
West Former Mill	MW-29	8/25/2010	MW-29_100825	N		0.527544 V
West Former Mill	MW-29	11/11/2010	MW-29_101111	N		0.542 V
West Former Mill	MW-29	2/8/2011	MW-29_110208	N		0.449 V
West Former Mill	MW-29	5/20/2011	MW-29-110520	N		0.2867 V
West Former Mill	MW-54	8/22/2001	DN25H	N		0.000635866
West Former Mill	MW-54	12/12/2002	FB89K	N		0.000572403
West Former Mill	MW-54	6/17/2003	MW-54-06172003	N		0.0008
West Former Mill	MW-54	8/26/2010	MW-54_100826	N		0.000629 V
West Former Mill	MW-55	8/22/2001	DN25F	N		0.00136157
West Former Mill	MW-55	12/12/2002	FB89L	N		0.000961013
West Former Mill	MW-55	6/18/2003	MW-55-06182003	N		0.0007
West Former Mill	MW-55	8/26/2010	MW-55_100826	N		0.001728 V
West Former Mill	MW-57	12/13/2002	FB89R	N		0.235707
West Former Mill	MW-57	6/17/2003	MW-57-06172003	N		4.64
West Former Mill	MW-57	8/26/2010	MW-57_100826	N		0.0364 V
West Former Mill	MW-57	11/8/2010	MW-57_101108	N		0.077 V
West Former Mill	MW-57	2/11/2011	MW-57_110211	N		0.076 V
West Former Mill	MW-57	5/20/2011	MW-57-110520	N		0.05 V
West Former Mill	MW-60	11/11/2010	MW-60_101111	N		0.002 V
West Former Mill	PZ-3	2/14/1997	R661E	N		0.028161
West Former Mill	PZ-3	8/28/1997	T609A	N		0.00648347
West Former Mill	PZ-3	8/21/2001	DN18B	N		0.0342668
West Former Mill	PZ-3	12/12/2002	FB89D	N		0.0771656
West Former Mill	PZ-3	6/17/2003	PZ-3-06172003	N		0.11
West Former Mill	PZ-3	8/26/2010	PZ-3_100826	N		0.0302 V
West Former Mill	PZ-3	11/9/2010	PZ-3_101109	N		0.238 V
West Former Mill	PZ-3	2/10/2011	PZ-3_110210	N		0.049 V
West Former Mill	PZ-3	5/19/2011	PZ-03-110519	N		0.0289 V

**Aroclors in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Funct. Area	Loc ID	Date	Sample ID	Sample Type	Parameter							Total PCBs (sum of Aroclors)*
					Units								(ug/L)
MTCA-B GW AS MSW					PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	(ug/L)
					0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
City Purchase	GWG-8	10/28/2010	GWG-8-W	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
City Purchase	PA-19	8/21/2009	PA-19_090821	N	---	---	---	---	---	---	---	0.65 UV
City Purchase	PA-19	8/26/2010	PA-19_100826	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
City Purchase	PA-19	11/11/2010	PA-19_101111	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
City Purchase	PA-19	2/9/2011	PA-19_110209	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.017 V
City Purchase	PA-19	2/9/2011	PA-19_110209D	FD	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
City Purchase	PA-19	5/18/2011	PA-19-110518	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
City Purchase	PZ-11	2/14/1997	97-2103-R661D	N	1 U	2 U	1 U	1 U	1 U	1 U	1 U	2 UV
City Purchase	PZ-11	8/28/1997	97-15170-T609D	N	1 U	2 U	1 U	1 U	1 U	1 U	1 U	2 UV
City Purchase	PZ-11	6/19/2003	K2304594-002	N	0.005 U	0.01 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 UV
City Purchase	PZ-11	8/27/2010	PZ-11_100827	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
City Purchase	PZ-11	2/8/2011	PZ-11_110208	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
City Purchase	PZ-12	2/28/1997	97-2822-R796B	N	1 U	2 U	1 U	1 U	1 U	1 U	1 U	2 UV
City Purchase	PZ-12	8/28/1997	97-15171-T609E	N	1 U	2 U	1 U	1 U	1 U	1 U	1 U	2 UV
City Purchase	PZ-12	6/19/2003	K2304594-003	N	0.005 U	0.01 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 UV
City Purchase	PZ-12	8/27/2010	PZ-12_100827	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
CSO	GWG-6	11/2/2010	GWG-6-W	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
CSO	MW-70	5/18/2011	MW-70-110518	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
CSO	MW-70	5/18/2011	MW-70-110518D	FD	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
CSO	PA-15	11/9/2010	PA-15_101109	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
East Former Mill	GWG-7	11/3/2010	GWG-7-W	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
East Former Mill	PA-24	11/9/2010	PA-24_101109	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
East Former Mill	PA-24	2/10/2011	PA-24_110210	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
East Former Mill	PZ-10	2/28/1997	97-2821-R796A	N	1 U	2 U	1 U	1 U	1 U	1 U	1 U	2 UV
East Former Mill	PZ-10	8/27/1997	97-15175-T609I	N	1 U	2 U	1 U	1 U	1 U	1 U	1 U	2 UV
East Former Mill	PZ-10	6/19/2003	K2304594-001	N	0.005 U	0.01 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 UV
East Former Mill	PZ-10	8/26/2010	PZ-10_100826	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
East Former Mill	PZ-13	2/14/1997	97-2100-R661A	N	1 U	2 U	1 U	1 U	1 U	1 U	1 U	2 UV
East Former Mill	PZ-13	8/27/1997	97-15174-T609H	N	1 U	2 U	1 U	1 U	1 U	1 U	1 U	2 UV
East Shoreline	MW-59	12/13/2002	02-18592-FB89T	N	0.11 UJ	0.22 UJ	0.11 UJ	0.11 UJ	0.11 UJ	0.11 UJ	0.11 UJ	0.13 V
East Shoreline	MW-59	6/19/2003	K2304594-006	N	0.005 U	0.01 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.045 V
East Shoreline	MW-59	8/27/2010	MW-59_100827	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
East Shoreline	MW-59	11/10/2010	MW-59_101110	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
East Shoreline	MW-59	2/10/2011	MW-59_110210	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
East Shoreline	PZ-9	2/14/1997	97-2101-R661B	N	1 U	2 U	1 U	1 U	1 U	1 U	1 U	2 UV
East Shoreline	PZ-9	8/27/1997	97-15176-T609J	N	1 U	2 U	1 U	1 U	1 U	1 U	1 U	2 UV
East Shoreline	PZ-9	8/21/2001	PZ-9_010821	N	---	---	---	---	---	---	---	0.2 UV
East Shoreline	PZ-9	12/13/2002	02-18586-FB89N	N	0.12 U	0.23 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 UV
East Shoreline	PZ-9	6/19/2003	K2304594-005	FD	0.005 U	0.01 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 UV
East Shoreline	PZ-9	6/19/2003	K2304594-007	N	0.005 U	0.01 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 UV
East Shoreline	PZ-9	8/26/2010	DUP-082610	FD	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
East Shoreline	PZ-9	8/26/2010	PZ-9_100826	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
Ennis Creek	PZ-5	2/13/1997	97-1959-R652D	N	1 U	2 U	1 U	1 U	1 U	1 U	1 U	2 UV
Ennis Creek	PZ-5	8/28/1997	97-15169-T609C	N	1 U	2 U	1 U	1 U	1 U	1 U	1 U	2 UV
Ennis Creek	PZ-5	6/18/2003	K2304556-001	N	0.005 U	0.01 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 UV
Ennis Creek	PZ-5	8/27/2010	PZ-5_100827	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
Ennis Creek	PZ-6	2/13/1997	97-1958-R652C	N	1 U	2 U	1 U	1 U	1 U	1 U	1 U	2 UV
Ennis Creek	PZ-6	8/28/1997	97-15168-T609B	N	1 U	2 U	1 U	1 U	1 U	1 U	1 U	2 UV
Ennis Creek	PZ-6	6/18/2003	K2304556-005	N	0.005 U	0.01 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 UV
Ennis Creek	PZ-6	8/27/2010	PZ-6_100827	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
Estuary	MW-62	11/9/2010	MW-62_101109	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
Estuary	MW-62	2/10/2011	MW-62_110210	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
Main Former Mill	GWG-1	11/4/2010	GWG-1-W	N	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.026 J	0.01 UJ	0.026 JV
Main Former Mill	GWG-2	11/1/2010	GWG-2-W	N	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UV
Main Former Mill	GWG-3	11/1/2010	GWG-3-W	N	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UV
Main Former Mill	GWG-4	11/2/2010	GWG-4-W	N	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.03 UJ	0.071 UJ	0.071 V
Main Former Mill	GWG-5	11/3/2010	GWG-5-W	N	0.01 UJ	0.01 UJ	0.01 UJ	0.048 UJ	0.01 UJ	0.053 UJ	0.069 UJ	0.17 V
Main Former Mill	MW-58	6/18/2003	K2304556-002	N	0.005 U	0.01 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 UV
Main Former Mill	MW-58	8/27/2010	MW-58_100827	N	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.021 U	0.014 U	0.035 V
Main Former Mill	MW-58	11/1/2010	MW-58_101111	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
Main Former Mill	MW-58	2/11/2011	MW-58_110211	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.014 U	0.014 U	0.028 V
Main Former Mill	MW-58	5/19/2011	MW-58-110519	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
Main Former Mill	MW-65	3/11/2011	MW-65-110311-W	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
Main Former Mill	MW-65	5/18/2011	MW-65-110518	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
Main Former Mill	MW-66	3/11/2011	MW-66-110311-W	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.013 U	0.026 U	0.039 V
Main Former Mill	MW-66	5/18/2011	MW-66-110518	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
Main Former Mill	MW-69	5/18/2011	MW-69-110518	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
Main Former Mill	PA-17	2/11/2011	PA-17_110211	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UV
Main Former Mill	PIPE-1-SR23	1/7/2011	PIPE-1-SR23	N	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.45 U	0.12 U	0.57 V
Main Former Mill	PZ-4	2/13/1997	97-1960-R652E	N	1 U	2 U	1 U	1 U	1 U	1 U	1 U	2 UV

**Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Parameter					Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a,h)anthracene, Total (b+h-k-j)	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	CPAH TEC*
Units					(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MTC-A-B GW AS MSW					NL	NL	NL	NL	NL	NL	NL	NL	0.018
Funct. Area	Loc ID	Date	Sample ID	Sample Type									
City Purchase	GWG-8	10/28/2010	GWG-8-W	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
City Purchase	PA-19	8/26/2010	PA-19_100826	N	0.01 U	0.01 U	---	---	0.01 U	0.014	0.01 U	0.00714 V	
City Purchase	PA-19	11/11/2010	PA-19_101111	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
City Purchase	PA-19	2/9/2011	PA-19_110209	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
City Purchase	PA-19	2/9/2011	PA-19_110209D	FD	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
City Purchase	PZ-11	2/14/1997	97-2103-R661D	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
City Purchase	PZ-11	8/28/1997	97-15170-T609D	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
City Purchase	PZ-11	2/22/2001	01-2349-CU21G	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
City Purchase	PZ-11	8/23/2001	01-14633-DN28A	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.0755 UV	
City Purchase	PZ-11	12/11/2002	02-18574-FB89B	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.0755 UV	
City Purchase	PZ-11	6/19/2003	K2304594-002	N	0.02 U	0.02 U	0.002 J	0.0017 J	---	0.0019 J	0.0085 J	0.0087 J	0.013109 JV
City Purchase	PZ-11	8/27/2010	PZ-11_100827	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
City Purchase	PZ-12	2/28/1997	97-2822-R796B	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
City Purchase	PZ-12	8/28/1997	97-15171-T609E	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
City Purchase	PZ-12	2/22/2001	01-2348-CU21F	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
City Purchase	PZ-12	8/21/2001	DN18H	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.0755 UV	
City Purchase	PZ-12	12/11/2002	02-18575-FB89C	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.0755 UV	
City Purchase	PZ-12	6/19/2003	K2304594-003	N	0.02 U	0.02 U	0.02 U	0.02 U	---	0.02 U	0.0034 J	0.0038 J	0.01382 JV
City Purchase	PZ-12	8/27/2010	PZ-12_100827	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
CSO	GWG-6	11/2/2010	GWG-6-W	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
CSO	MW-70	5/18/2011	MW-70-110518	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
CSO	MW-70	5/18/2011	MW-70-110518D	FD	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
CSO	PA-15	11/9/2010	PA-15_101109	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
East Former Mill	GWG-7	11/3/2010	GWG-7-W	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
East Former Mill	PA-24	11/9/2010	PA-24_101109	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
East Former Mill	PA-24	2/10/2011	PA-24_110210	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
East Former Mill	PZ-10	2/28/1997	97-2821-R796A	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
East Former Mill	PZ-10	8/27/1997	97-15175-T609I	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
East Former Mill	PZ-10	2/22/2001	01-2350-CU21H	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
East Former Mill	PZ-10	8/22/2001	DN25D	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.0755 UV	
East Former Mill	PZ-10	12/13/2002	02-18587-FB89O	N	0.11 U	0.11 U	0.11 U	0.11 U	---	0.11 U	0.11 U	0.08305 UV	
East Former Mill	PZ-10	6/19/2003	K2304594-001	N	0.02 U	0.0038 J	0.0044 J	0.0039 J	---	0.0018 J	0.012 J	0.013 J	0.008148 JV
East Former Mill	PZ-10	8/26/2010	PZ-10_100826	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
East Former Mill	PZ-13	2/14/1997	97-2100-R661A	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
East Former Mill	PZ-13	8/27/1997	97-15174-T609H	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
East Shoreline	MW-59	12/13/2002	02-18592-FB89T	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.0755 UV	
East Shoreline	MW-59	6/19/2003	K2304594-006	N	0.015 J	0.005 J	0.016 J	0.0063 J	---	0.041	0.0024 J	0.0038 J	0.00976 JV
East Shoreline	MW-59	8/27/2010	MW-59_100827	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
East Shoreline	MW-59	2/10/2011	MW-59_110210	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
East Shoreline	PZ-9	2/14/1997	97-2101-R661B	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
East Shoreline	PZ-9	8/27/1997	97-15176-T609J	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
East Shoreline	PZ-9	2/22/2001	01-2369-CU22G	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
East Shoreline	PZ-9	8/21/2001	PZ-9_010821	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	---	0.1 U	---
East Shoreline	PZ-9	12/13/2002	02-18586-FB89N	N	0.11 U	0.11 U	0.11 U	0.11 U	---	0.11 U	0.11 U	0.11 U	0.08305 UV
East Shoreline	PZ-9	6/19/2003	K2304594-005	FD	0.0035 J	0.02 U	0.0028 J	0.0018 J	---	0.0072 J	0.0028 J	0.0026 J	0.011422 JV
East Shoreline	PZ-9	6/19/2003	K2304594-007	N	0.0062 J	0.02 U	0.0028 J	0.0018 J	---	0.0084 J	0.02 U	0.02 U	0.013164 JV
East Shoreline	PZ-9	8/26/2010	DUP-082610	FD	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
East Shoreline	PZ-9	8/26/2010	PZ-9_100826	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
East Shoreline	PZ-9	2/8/2011	PZ-9_110208	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
Ennis Creek	PZ-5	2/13/1997	97-1959-R652D	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
Ennis Creek	PZ-5	8/28/1997	97-15169-T609C	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
Ennis Creek	PZ-5	2/22/2001	01-2366-CU22D	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
Ennis Creek	PZ-5	8/21/2001	DN18G	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.0755 UV	
Ennis Creek	PZ-5	12/12/2002	02-18578-FB89F	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.0755 UV	
Ennis Creek	PZ-5	6/18/2003	K2304556-001	N	0.02 U	0.02 U	0.02 U	0.02 U	---	0.02 U	0.02 U	0.0151 UV	
Ennis Creek	PZ-5	8/27/2010	PZ-5_100827	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
Ennis Creek	PZ-6	2/13/1997	97-1958-R652C	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
Ennis Creek	PZ-6	8/28/1997	97-15168-T609B	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
Ennis Creek	PZ-6	2/22/2001	01-2346-CU21D	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
Ennis Creek	PZ-6	8/23/2001	01-14634-DN28B	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.0755 UV	
Ennis Creek	PZ-6	12/11/2002	02-18573-FB89A	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.0755 UV	
Ennis Creek	PZ-6	6/18/2003	K2304556-005	N	0.02 U	0.02 U	0.02 U	0.02 U	---	0.02 U	0.0051 J	0.0053 J	0.01414 JV
Ennis Creek	PZ-6	8/27/2010	PZ-6_100827	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
Estuary	FR-1	2/22/2001	01-2367-CU22E	N	1 U	1 U	1 U	1 U	---	1 U	1 U	0.755 UV	
Estuary	FR-1	8/22/2001	DN25B	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.0755 UV	
Estuary	MW-62	11/9/2010	MW-62_101109	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
Estuary	MW-62	2/10/2011	MW-62_110210	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.00705 UV	
Main Former Mill	GWG-1	11/4/2010	GWG-1-W	N	0.46	0.25	---	---	0.51	0.67	0.16	0.15	0.3847 V
Main Former Mill	MW-58	12/13/2002	02-18591-FB89S	N	0.11 U	0.11 U	0.11 U	0.11 U	---	0.11 U	0.11 U	0.08305 UV	
Main Former Mill	MW-58	6/18/2003	K2304556-002	N	0.02 U	0.02 U	0.02 U	0.02 U	---	0.0024 J	0.02 U	0.02 U	0.015024 JV
Main Former Mill	MW-58	8/27/2010	MW-58_100827	N	0.01 U	0.01 U	---	---	0.01 U	0.011	0.01 U	0.01 U	0.00711 V
Main Former Mill	MW-58	2/11/2011	MW-58_110211	N	0.036	0.011	---	---	0.024	0.029	0.01 U	0.01 U	0.01829 V

**Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

				Parameter Units MTC-A-B GW AS MSW	Benzo(a)anthracene (ug/L) NL	Benzo(a)pyrene (ug/L) NL	Benzo(b)fluoranthene (ug/L) NL	Benzo(k)fluoranthene (ug/L) NL	Benzo(a,h)anthracene, Total (b+k-j) (ug/L) NL	Chrysene (ug/L) NL	Dibenz(a,h)anthracene (ug/L) NL	Indeno(1,2,3-cd)pyrene (ug/L) NL	cPAH TEC ^c (ug/L) 0.018
Funct. Area	Loc ID	Date	Sample ID	Sample Type									
Main Former Mill	MW-65	3/11/2011	MW-65-110311-W	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
Main Former Mill	MW-65	5/18/2011	MW-65-110518	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
Main Former Mill	MW-66	3/11/2011	MW-66-110311-W	N	0.61	0.15	---	---	1.7	0.61	0.012 NJ	0.024	0.3907 JV
Main Former Mill	MW-66	5/18/2011	MW-66-110518	N	0.2	0.043	---	---	0.11	0.16	0.01 U	0.01 U	0.0766 V
Main Former Mill	MW-69	5/18/2011	MW-69-110518	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
Main Former Mill	PA-17	2/11/2011	PA-17_110211	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
Main Former Mill	PIPE-1-SR23	1/7/2011	PIPE-1-SR23	N	0.51	0.18	---	---	0.33	0.55	0.016	0.033	0.2744 V
Main Former Mill	PZ-4	2/13/1997	97-1960-R652E	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
Main Former Mill	PZ-4	8/27/1997	97-15173-T609G	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
Main Former Mill	PZ-4	2/22/2001	01-2363-CU22A	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
Main Former Mill	PZ-4	8/21/2001	DN18F	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.1 U	0.0755 UV
Main Former Mill	PZ-4	12/12/2002	02-1857-FB89E	N	0.12 U	0.12 U	0.12 U	0.12 U	---	0.12 U	0.12 U	0.12 U	0.0906 UV
Main Former Mill	PZ-4	6/17/2003	K2304497-004	N	0.0021 U	0.0016 U	0.002 U	0.0014 U	---	0.0021 J	0.0026 J	0.0028 J	0.001636 JV
Main Former Mill	PZ-4	8/25/2010	PZ-4_100825	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
North Shoreline	MW-51	8/4/1998	98-15871-Y129C	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
North Shoreline	MW-51	2/22/2001	01-2351-CU211	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
North Shoreline	MW-51	8/21/2001	DN18C	N	0.12	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.1 U	0.083 V
North Shoreline	MW-51	12/12/2002	02-18580-FB89H	N	0.12	0.11 U	0.11 U	0.11 U	---	0.11	0.11 U	0.11 U	0.0901 V
North Shoreline	MW-51	6/18/2003	K2304456-003	N	0.066	0.0088 J	0.016 J	0.0085 J	---	0.058	0.02 U	0.02 U	0.02043 JV
North Shoreline	MW-51	8/26/2010	MW-51_100826	N	0.082	0.028	---	---	0.056	0.058	0.01 U	0.01 U	0.04338 V
North Shoreline	MW-51	11/10/2010	MW-51_101110	N	0.036	0.014	---	---	0.027	0.036	0.01 U	0.01 U	0.02166 V
North Shoreline	MW-51	2/11/2011	MW-51_110211	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
North Shoreline	MW-51	5/19/2011	MW-51-110519	N	0.033	0.011	---	---	0.025	0.031	0.01 U	0.01 U	0.01811 V
North Shoreline	MW-56	2/22/2001	01-2365-CU22C	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
North Shoreline	MW-56	8/22/2001	DN25E	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.1 U	0.0755 UV
North Shoreline	MW-56	12/12/2002	02-18585-FB89M	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.1 U	0.0755 UV
North Shoreline	MW-56	6/19/2003	K2304594-008	N	0.0061 J	0.02 U	0.0034 J	0.0026 J	---	0.0086 J	0.02 U	0.02 U	0.013296 JV
North Shoreline	MW-56	8/26/2010	MW-56_100826	N	0.01 U	0.01 U	---	---	0.01 U	0.01	0.01 U	0.01 U	0.0071 V
North Shoreline	MW-56	2/11/2011	MW-56_110211	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
NW Shoreline	MW-28	8/25/2010	MW-28_100825	N	0.014	0.017	---	---	0.021	0.018	0.01 U	0.01 U	0.02168 V
NW Shoreline	MW-28	11/10/2010	MW-28_101110	N	0.053	0.068	---	---	0.073	0.065	0.01 U	0.023	0.08405 V
NW Shoreline	MW-28	2/8/2011	MW-28_110208	N	0.019	0.025	---	---	0.027	0.023	0.01 U	0.01 U	0.03083 V
NW Shoreline	MW-28	5/20/2011	MW-28-110520	N	0.067	0.056	---	---	0.087	0.092	0.01 U	0.018	0.07462 V
NW Shoreline	MW-52	8/4/1998	98-15869-Y129A	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
NW Shoreline	MW-52	2/22/2001	01-2368-CU22F	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
NW Shoreline	MW-52	8/22/2001	DN25G	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.1 U	0.0755 UV
NW Shoreline	MW-52	12/12/2002	02-18581-FB89I	N	0.11 U	0.11 U	0.11 U	0.11 U	---	0.11 U	0.11 U	0.11 U	0.08305 UV
NW Shoreline	MW-52	6/16/2003	K2304466-002	N	0.02 U	0.02 U	0.02 U	0.02 U	---	0.02 U	0.02 U	0.02 U	0.0151 UV
NW Shoreline	MW-52	8/25/2010	MW-52_100825	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
NW Shoreline	MW-52	2/9/2011	MW-52_110209	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
NW Shoreline	MW-53	2/21/2001	01-2275-CU06A	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
NW Shoreline	MW-53	8/21/2001	DN18A	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.1 U	0.0755 UV
NW Shoreline	MW-53	12/12/2002	02-18582-FB89J	N	0.11 U	0.11 U	0.11 U	0.11 U	---	0.11 U	0.11 U	0.11 U	0.08305 UV
NW Shoreline	MW-53	6/16/2003	K2304466-003	N	0.02 U	0.02 U	0.02 U	0.02 U	---	0.0022 J	0.02 U	0.02 U	0.015022 JV
NW Shoreline	MW-53	8/26/2010	MW-53_100826	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
NW Shoreline	MW-53	2/11/2011	MW-53_110211	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
NW Shoreline	MW-61	11/11/2010	MW-61_101111	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
NW Shoreline	MW-61	2/11/2011	MW-61_110211	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
NW Shoreline	MW-67	3/11/2011	MW-67-110311-W	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
NW Shoreline	MW-67	5/18/2011	MW-67-110518	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
NW Shoreline	PZ-1	8/22/2001	DN25C	FD	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.1 U	0.0755 UV
NW Shoreline	PZ-2	2/13/1997	97-1957-R652B	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
NW Shoreline	PZ-2	8/27/1997	97-15172-T609F	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
NW Shoreline	PZ-2	8/25/2010	PZ-2_100825	N	0.02	0.01	---	---	0.018	0.03	0.01 U	0.01 U	0.0151 V
NW Shoreline	PZ-2	2/7/2011	PZ-2_110207	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
Prefab	PZ-7	2/14/1997	97-2102-R661C	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
Prefab	PZ-7	8/27/1997	97-15177-T609K	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
Prefab	PZ-7	2/22/2001	01-2347-CU21E	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
Prefab	PZ-7	12/12/2002	02-18579-FB89G	N	0.13 U	0.13 U	0.13 U	0.13 U	---	0.13 U	0.13 U	0.13 U	0.09815 UV
Prefab	PZ-7	8/27/2010	PZ-7_100827	N	0.01 U	0.01 U	---	---	0.011	0.011	0.01 U	0.01 U	0.00771 V
West Former Mill	MW-19	2/22/2001	01-2345-CU21C	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
West Former Mill	MW-19	8/22/2001	DN25I	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.1 U	---
West Former Mill	MW-20	9/2/1997	97-15361-T609N	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
West Former Mill	MW-23	10/15/1997	97-19428-U167A	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
West Former Mill	MW-23	2/22/2001	01-2364-CU22B	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
West Former Mill	MW-23	8/21/2001	DN18E	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.1 U	0.0755 UV
West Former Mill	MW-23	12/13/2002	02-18589-FB89Q	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.1 U	0.0755 UV
West Former Mill	MW-23	6/16/2003	K2304466-001	N	0.02 U	0.02 U	0.02 U	0.02 U	---	0.003 J	0.02 U	0.02 U	0.01503 JV
West Former Mill	MW-23	8/25/2010	MW-23_100825	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
West Former Mill	MW-29	9/2/1997	97-15362-T609O	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
West Former Mill	MW-29	6/17/2003	K2304497-006	N	0.0021 U	0.0016 U	0.002 U	0.0014 U	---	0.0025 J	0.0017 U	0.0024 J	0.001425 JV
West Former Mill	MW-29	8/25/2010	MW-29_100825	N	0.039	0.063	---	---	0.066	0.05	0.01 U	0.03	0.0775 V
West Former Mill	MW-29	11/11/2010	MW-29_101111	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
West Former Mill	MW-29	2/8/2011	MW-29_110208	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV

**Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Parameter					Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a,h)anthracene, Total (b+h-k-j)	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	CPAH TEC*
Units					(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MTC-A-B GW AS MSW					NL	NL	NL	NL	NL	NL	NL	NL	0.018
Funct. Area	Loc ID	Date	Sample ID	Sample Type									
West Former Mill	MW-29	5/20/2011	MW-29-110520	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
West Former Mill	MW-54	2/21/2001	01-2276-CU06B	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
West Former Mill	MW-54	8/22/2001	DN25H	N	0.1	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.1 U	0.0805 V
West Former Mill	MW-54	12/12/2002	02-18583-FB89K	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.1 U	0.0755 UV
West Former Mill	MW-54	6/17/2003	K2304497-001	N	0.0072 J	0.002 J	0.0021 J	0.0016 J	---	0.0048 J	0.0024 J	0.0051 J	0.003888 JV
West Former Mill	MW-54	8/26/2010	MW-54_100826	N	0.079	0.081	---	---	0.14	0.089	0.013	0.024	0.10749 V
West Former Mill	MW-54	11/11/2010	MW-54_101111	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
West Former Mill	MW-54	2/10/2011	MW-54_110210	N	0.01 U	0.01 U	---	---	0.017	0.014	0.01 U	0.01 U	0.00834 V
West Former Mill	MW-54	5/18/2011	MW-54-110518	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.0071 V
West Former Mill	MW-55	2/21/2001	01-2277-CU06C	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
West Former Mill	MW-55	8/22/2001	DN25F	N	0.1 U	0.1	0.1 U	0.1 U	---	0.12	0.1 U	0.1 U	0.126 V
West Former Mill	MW-55	12/12/2002	02-18584-FB89L	N	0.11 U	0.11 U	0.11 U	0.11 U	---	0.11 U	0.11 U	0.11 U	0.08305 UV
West Former Mill	MW-55	6/18/2003	K2304556-004	N	0.0046 J	0.0079 J	0.0062 J	0.0054 J	---	0.006 J	0.011 J	0.012 J	0.01188 JV
West Former Mill	MW-55	8/26/2010	MW-55_100826	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
West Former Mill	MW-55	2/10/2011	MW-55_110210	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
West Former Mill	MW-57	12/13/2002	02-18590-FB89R	N	0.11 U	0.11 U	0.11 U	0.11 U	---	0.11 U	0.11 U	0.11 U	0.08305 UV
West Former Mill	MW-57	6/17/2003	K2304497-007	N	0.0021 U	0.0016 U	0.002 U	0.0014 U	---	0.0018 J	0.0017 U	0.0021 U	0.001283 JV
West Former Mill	MW-57	8/26/2010	MW-57_100826	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
West Former Mill	MW-60	11/11/2010	MW-60_101111	N	0.019	0.015	---	---	0.012	0.037	0.01 U	0.01 U	0.01947 V
West Former Mill	MW-60	2/9/2011	MW-60_110209	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
West Former Mill	MW-60	5/19/2011	MW-60-110519	N	0.01 U	0.01 U	---	---	0.01 U	0.014	0.01 U	0.01 U	0.00714 V
West Former Mill	MW-68	6/7/2011	MW-68-110607	N	0.01 U	0.01 U	---	---	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
West Former Mill	PZ-3	2/14/1997	97-2104-R661E	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
West Former Mill	PZ-3	8/28/1997	97-15167-T609A	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
West Former Mill	PZ-3	2/22/2001	CU21A	N	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	0.755 UV
West Former Mill	PZ-3	8/21/2001	DN18B	N	0.1 U	0.1 U	0.26	0.38	---	0.1 U	0.1 U	0.1 U	0.0755 UV
West Former Mill	PZ-3	12/12/2002	02-18576-FB89D	N	0.1 U	0.1 U	0.1 U	0.1 U	---	0.1 U	0.1 U	0.1 U	0.0755 UV
West Former Mill	PZ-3	6/17/2003	K2304497-002	N	0.0042 J	0.0027 J	0.0026 J	0.0018 J	---	0.0046 J	0.0065 J	0.0079 J	0.005046 JV
West Former Mill	PZ-3	8/26/2010	PZ-3_100826	N	0.015	0.01 U	---	---	0.01 U	0.017	0.01 U	0.01 U	0.00817 V
West Former Mill	PZ-3	2/10/2011	PZ-3_110210	N	0.021	0.01 U	---	---	0.01 U	0.02	0.01 U	0.01 U	0.0088 V
West Former Mill	PZ-3	5/19/2011	PZ-03-110519	N	0.018	0.01 U	---	---	0.01 U	0.02	0.01 U	0.01 U	0.0085 V

**Dioxins/Furans in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Parameter					1,2,3,4,6,7,8-HpCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	1,2,3,7,8-PeCDD	2,3,7,8-TCDD	OCDD	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	1,2,3,7,8-PeCDF	2,3,4,6,7,8-HxCDF	2,3,4,7,8-PeCDF	2,3,7,8-TCDF	OCDF	Dioxins/Furans TEC*	
Units					(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)
MTCA Method B GW Protective of MSW					NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	0.0051
Funct. Area	Loc ID	Date	Sample ID	Type																			
City Purchase	PA-19	8/26/2010	PA-19_100826	N	901	2.45 J	38.9	2.81 J	0.766 U	0.655 U	18900	69.8	3.53 J	4.96	3.28 J	2.52 J	1.71 J	6.74	2.72 J	0.28 U	42.1	23.2 J	
City Purchase	PA-19	11/11/2010	PA-19_101111	N	34.6	0.694 U	2.58 J	0.772 U	0.945 U	0.508 U	486	3.03 J	0.793 U	0.778 U	0.746 U	0.737 U	0.527 U	0.805 U	0.58 U	0.31 U	2.78 U	1.85 J	
City Purchase	PA-19	2/9/2011	PA-19_110209	N	26	0.808 U	2.75 J	0.876 U	1.16 U	0.669 U	203	4.05 J	1.87 U	0.868 U	0.806 U	0.913 U	0.599 U	0.887 U	0.609 U	0.475 U	2.8 U	1.94 J	
City Purchase	PA-19	2/9/2011	PA-19_110209D	FD	168	1.49 U	5.4	1.61 U	1.76 U	0.717 U	2050	4.41 J	2.04 U	1.46 U	1.42 U	1.45 U	1.15 U	1.46 U	1.21 U	0.593 U	2.92 U	4.8 J	
City Purchase	PA-23	11/8/2010	PA-23_101108	N	2.42 U	1.37 U	1.83 U	1.58 U	1.02 U	0.798 U	24.8	0.793 U	1.1 U	0.696 U	0.7 U	0.625 U	0.63 U	0.716 U	0.639 U	0.454 U	1.81 U	1.44	
City Purchase	PZ-11	8/27/2010	PZ-11_100827	N	18.7	1.93 U	2.43 U	2.16 U	1.46 U	0.864 U	89.7	3.07 J	1.56 U	0.8 U	0.814 U	0.841 U	0.985 U	0.917 U	1.05 U	0.719 U	3.86 J	2.12 J	
City Purchase	PZ-12	8/27/2010	PZ-12_100827	N	6.07	2.67 U	3.45 U	3.02 U	1.98 U	0.965 U	25.2	1.46 U	2.17 U	1.36 U	1.3 U	1.27 U	1.09 U	1.43 U	1.07 U	0.634 U	3.45 U	2.49	
CSO	MW-70	5/18/2011	MW-70-110518	N	2.34 U	1.12 U	1.46 U	1.24 U	1.02 U	0.854 U	8.81 J	1.52 U	2.11 U	0.764 U	0.744 U	0.793 U	1.24 U	0.804 U	1.37 U	0.741 U	2.61 U	1.58 J	
CSO	MW-70	5/18/2011	MW-70-110518D	FD	2.5 U	1.51 U	1.95 U	1.67 U	1.37 U	0.704 U	7.94 J	1.26 U	1.75 U	1.14 U	1.02 U	1.05 U	1.49 U	1.13 U	1.63 U	0.62 U	2.61 U	1.84 J	
CSO	PA-15	11/9/2010	PA-15_101109	N	1.57 U	0.989 U	1.22 U	1.09 U	0.947 U	0.798 U	6.49 J	0.769 U	1.08 U	0.6 U	0.556 U	0.532 U	0.513 U	0.62 U	0.542 U	0.477 U	1.79 U	1.29 J	
East Former Mill	PA-24	11/9/2010	PA-24_101109	N	40.8	2.41 J	6.2	2.96 J	1.29 U	0.943 U	249	5.52	1.1 U	1.91 J	1.75 J	0.513 U	0.947 U	1.7 J	2.69 J	2.27 J	9.21 J	4.43 J	
East Former Mill	PA-24	2/10/2011	PA-24_110210	N	2.7 U	1.08 U	1.26 U	1.13 U	0.915 U	0.735 U	9.8	1.21 U	1.74 U	0.792 U	0.778 U	0.781 U	0.581 U	0.829 U	0.637 U	0.439 U	2.19 U	1.32	
East Former Mill	PA-24	5/18/2011	PA-24-110518	N	4.32 J	1.46 U	1.87 U	1.6 U	1.22 U	0.971 U	13.9	1.09 U	1.54 U	0.84 U	0.842 U	0.84 U	1.09 U	0.913 U	1.22 U	0.777 U	3 U	1.81 J	
East Former Mill	PZ-10	8/26/2010	PZ-10_100826	N	9.22	0.978 J	1.75 J	1.77 J	1.48 J	1.62	34.1	1.33 J	0.731 U	0.672 J	0.754 J	0.398 U	0.827 J	0.653 J	1.56 J	1.1	2.45 U	4.5 J	
East Shoreline	MW-59	8/27/2010	MW-59_100827	N	5.01	2.25 U	2.77 U	2.49 U	1.56 U	0.784 U	31.9	2.03 J	1.79 U	0.716 U	0.699 U	0.813 U	0.949 U	0.837 U	1.11 U	0.606 U	2.99 U	2 J	
East Shoreline	PZ-9	8/26/2010	DUP-082610	FD	9.98	1.38 U	1.69 U	1.53 U	1.15 U	0.65 U	44.1	2.23 J	1.28 U	0.716 U	0.706 U	0.798 U	1.44 U	0.848 U	1.66 U	0.775 U	3.54 U	1.74 J	
East Shoreline	PZ-9	8/26/2010	PZ-9_100826	N	10.4	1.91 U	2.3 U	2.09 U	1.35 U	0.97 U	59.3	2.64 J	1.69 U	1.14 U	1.16 U	1.28 U	1.74 U	1.31 U	1.92 U	0.9 U	4.81 J	2.24 J	
Ennis Creek	MW-64	11/8/2010	MW-64_101108	N	1.6 U	0.852 U	1.09 U	0.963 U	1 U	0.663 U	3.58 U	0.995 U	1.28 U	0.85 U	0.822 U	0.781 U	0.715 U	0.889 U	0.768 U	0.602 U	1.82 U	<i>1.32 U</i>	
Ennis Creek	MW-64	2/7/2011	MW-64_110207	N	2.26 U	1.36 U	1.64 U	1.45 U	0.977 U	0.699 U	3.46 U	1.31 U	2.14 U	1.1 U	1.09 U	1.09 U	0.781 U	1.15 U	0.809 U	0.515 U	3.13 U	<i>1.47 U</i>	
Ennis Creek	PZ-5	8/27/2010	PZ-5_100827	N	43.5	4.45 J	7.35	6.72	4.38 J	2.73	161	7.05	2.15 U	2.37 J	6.32	1.49 U	3.14 J	5.15	6.97	3.19	9.47 J	13.5 J	
Ennis Creek	PZ-5	2/8/2011	PZ-5_110208	N	2.16 U	2.26 U	2.62 U	2.36 U	1.09 U	0.694 U	3.6 U	1.59 U	2.46 U	0.798 U	0.782 U	0.96 U	0.887 U	0.823 U	0.977 U	0.506 U	3.77 U	<i>1.64 U</i>	
Ennis Creek	PZ-6	8/27/2010	PZ-6_100827	N	26.6	1.91 U	2.31 U	2.09 U	1.4 U	0.901 U	339	5.1	1.99 U	1.09 U	1.04 U	1.08 U	0.924 U	1.13 U	0.918 U	0.585 U	15.9	2.3	
Estuary	MW-62	11/9/2010	MW-62_101109	N	12.4	1.59 U	2.07 U	1.81 U	0.951 U	0.968 U	48.5	1.49 U	2.09 U	0.993 U	0.962 U	0.897 U	0.907 U	0.968 U	0.991 U	0.737 U	3.36 U	1.78	
Estuary	MW-62	2/10/2011	MW-62_110210	N	8.49	1.99 U	2.5 U	2.16 U	1.26 U	0.595 U	56.7	2.11 U	3.06 U	0.921 U	0.86 U	0.903 U	0.728 U	0.941 U	0.737 U	0.421 U	15.2	1.72	
Main Former Mill	GWG-1	11/4/2010	GWG-1-W	N	222	9.75 U	29.7	10.8 U	5.41 U	3.62 U	1110	38.4 J	9.71 U	7.48 U	7.32 U	7.55 U	4.84 U	8.04 U	16.5 J	10.8 J	104	19.2 J	
Main Former Mill	GWG-2	11/1/2010	GWG-2-W	N	22.7	1.93 U	2.22 U	2.06 U	1.44 U	0.998 U	242	4 J	1.77 U	1.5 U	1.49 U	1.32 U	0.944 U	1.54 U	0.965 U	0.995 U	12.2	2.38 J	
Main Former Mill	GWG-3	11/1/2010	GWG-3-W	N	319	4.16 J	25.2	5.87	5.3	0.971 U	3700	37.7	2.1 U	4.03 J	5.56	1.14 U	1.89 U	4.81 J	2.27 U	3.04 J	106	16.2 J	
Main Former Mill	GWG-4	11/2/2010	GWG-4-W	N	15.4	1.25 U	1.59 U	1.4 U	0.899 U	0.954 U	203	3.27 J	1.15 U	1.03 U	1.04 U	0.946 U	1.32 U	1.13 U	1.34 U	0.723 U	13	1.86 J	
Main Former Mill	GWG-5	11/3/2010	GWG-5-W	N	2470	9.62	73.3	21.2	5.05	0.998 U	57700	312	27.2	27.3	36.5 U	5.41	6.97	16.4	8.11	3.79 J	1610	71.6031 JV	

**Dioxins/Furans in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Parameter					1,2,3,4,6,7,8-HpCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	1,2,3,7,8-PeCDD	2,3,7,8-TCDD	OCDD	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	1,2,3,7,8-PeCDF	2,3,4,6,7,8-HxCDF	2,3,4,7,8-PeCDF	2,3,7,8-TCDF	OCDF	Dioxins/Furans TEC*	
Units					(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)
MTCA Method B GW Protective of MSW					NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	0.0051
Funct. Area	Loc ID	Date	Sample ID	Type																			
Main Former Mill	MW-58	8/27/2010	MW-58_100827	N	283	1.5 J	12.7	3.32 J	1.16 U	0.625 U	3650	51.8	3.98 J	6.47	3.38 J	1.79 J	1.89 J	2.83 J	1.96 J	1.26	142	9.39 J	
Main Former Mill	MW-58	2/11/2011	MW-58_110211	N	9.34	1.29 U	1.61 U	1.4 U	1.18 U	0.891 U	101	2.42 U	3.73 U	0.975 U	0.936 U	1.07 U	1.56 U	1.07 U	1.75 U	0.962 U	4.65 U	1.94	
Main Former Mill	MW-65	5/18/2011	MW-65-110518	N	4.98	1.26 U	1.69 U	1.41 U	1.16 U	0.72 U	44.1	1.14 U	1.55 U	1.35 U	1.3 U	1.33 U	1.3 U	1.37 U	1.41 U	0.597 U	3.37 U	1.76	
Main Former Mill	MW-69	5/18/2011	MW-69-110518	N	1.99 U	1.2 U	1.62 U	1.34 U	1.06 U	0.827 U	4.49 J	1.08 U	1.45 U	0.796 U	0.769 U	0.829 U	1.19 U	0.832 U	1.33 U	0.7 U	2.71 U	1.59 J	
Main Former Mill	PA-17	2/11/2011	PA-17_110211	N	1.87 U	1.13 U	1.42 U	1.23 U	1.08 U	0.763 U	3.08 U	1.28 U	1.99 U	0.881 U	0.835 U	0.93 U	0.735 U	0.921 U	0.775 U	0.459 U	2.86 U	1.47 U	
Main Former Mill	PIPE-1-SR23	1/7/2011	PIPE-1-SR23	N	22200	120	1040	295	52.6	7.07	201000	4670	239	240	648	39	128	209	52.4	37.9 J	13600	678 J	
Main Former Mill	PZ-4	8/25/2010	PZ-4_100825	N	17	1.35 J	2.51 J	2.15 J	1.55 U	0.623 U	108	2.71 J	1.33 U	0.98 U	0.98 U	0.942 U	1.36 J	1.03 U	1.59 J	2.2 J	5.83 J	2.86 J	
North Shoreline	MW-51	8/26/2010	MW-51_100826	N	30.5	3.98 J	6.58	5.4	5.61	0.971 U	75.7	4.84 J	4.71 U	1.63 U	2.07 J	1.76 U	1.86 U	1.84 U	2.15 U	2.94 J	5.97 J	9.21 J	
North Shoreline	MW-51	2/11/2011	MW-51_110211	N	3 U	1.7 U	2.23 U	1.88 U	1.92 U	0.964 U	9.06 U	1.73 U	2.68 U	1.21 U	1.14 U	1.42 U	1.01 U	1.47 U	1.38 U	0.974 U	3.83 U	2.3 U	
North Shoreline	MW-56	8/26/2010	MW-56_100826	N	20.6	1.9 U	2.36 U	2.12 U	1.3 U	0.711 U	150	2.71 U	4.39 U	1.33 U	1.28 U	1.56 U	1.03 U	1.4 U	1.05 U	0.729 U	4.06 U	2.1	
NW Shoreline	MW-28	8/25/2010	MW-28_100825	N	34.4	3.98 J	7.49	5.86	4.4 J	2.5	59.2	8.14	1.51 J	3.62 J	3.91 J	1.09 J	4.85 J	3.11 J	4.53 J	6.51 J	4.57 J	12.4 J	
NW Shoreline	MW-28	2/8/2011	MW-28_110208	N	11.1	1.35 U	1.8 U	1.51 U	1.28 U	0.811 U	14.1	1.55 U	2.42 U	1.15 U	1.1 U	1.14 U	1.9 J	1.13 U	1.99 J	2.44 J	1.84 U	2.54 J	
NW Shoreline	MW-52	8/25/2010	MW-52_100825	N	13.8	1.98 J	3.55 J	2.69 J	1.17 U	0.703 U	16.3	1.37 U	2.05 U	1.24 U	1.23 U	1.31 U	1.23 U	1.32 U	1.25 U	0.737 U	3.04 U	2.42 J	
NW Shoreline	MW-52	5/17/2011	MW-52-110517	N	3.77 U	1.71 U	2.12 U	1.84 U	1.23 U	0.929 U	6.58 J	1.38 U	2.05 U	3.61 J	0.875 U	0.865 U	1.7 U	0.945 U	1.86 U	0.596 U	2.69 U	2.23 J	
NW Shoreline	MW-53	8/26/2010	MW-53_100826	N	7.99	0.944 U	1.14 U	1.03 U	0.705 U	0.625 U	123	2.48 J	1.21 U	0.831 U	0.874 U	0.826 U	0.617 U	0.873 U	0.636 U	0.47 U	2.99	1.28 J	
NW Shoreline	MW-53	2/11/2011	MW-53_110211	N	2.04 U	1.34 U	1.63 U	1.44 U	1.04 U	0.646 U	3.14 U	1.16 U	1.84 U	0.903 U	0.859 U	0.911 U	0.678 U	0.903 U	0.74 U	0.48 U	2.46 U	1.41 U	
NW Shoreline	MW-61	11/11/2010	MW-61_101111	N	2.83 U	1.94 U	2.44 U	2.16 U	1.97 U	0.998 U	4.95 U	1.66 U	2.38 U	1.41 U	1.47 U	1.45 U	1.21 U	1.53 U	1.28 U	0.941 U	4.11 U	2.4 U	
NW Shoreline	MW-61	2/11/2011	MW-61_110211	N	2.04 U	1.52 U	1.97 U	1.68 U	1.54 U	0.977 U	3.93 U	1.36 U	2.06 U	1.25 U	1.21 U	1.28 U	1.01 U	1.23 U	0.992 U	0.553 U	4.25 U	1.99 U	
NW Shoreline	PZ-2	8/25/2010	PZ-2_100825	N	97	10.4	22.9	15.8	10.4	2.49	263	11.3	1.84 U	4.37 J	3.85 J	1.59 U	4.93	3.04 J	3.75 J	4.59 J	13	21.9 J	
NW Shoreline	PZ-2	11/11/2010	PZ-2_101111	N	1.88 U	1.56 U	1.94 U	1.73 U	1.64 U	0.451 U	6.11 J	0.997 U	1.41 U	0.8 U	0.796 U	0.763 U	0.812 U	0.88 U	0.819 U	0.57 U	1.95 U	1.66 J	
NW Shoreline	PZ-2	2/7/2011	PZ-2_110207	N	2.13 J	0.866 U	1.11 U	0.949 U	0.805 U	0.76 U	16.1	1.52 U	2.19 U	0.94 U	0.933 U	0.993 U	0.81 U	0.981 U	0.837 U	0.539 U	3.32 U	1.33 J	
Prefab	PZ-7	8/27/2010	PZ-7_100827	N	22.9	1.64 U	3.38 J	4.67 J	3.97 J	3.26	102	2.89 J	1.31 U	0.788 U	0.778 U	0.806 U	1.49 U	0.838 U	1.58 U	0.733 U	5.56 J	8.87 J	
Prefab	PZ-7	2/8/2011	PZ-7_110208	N	2.05 U	1.6 U	1.94 U	1.71 U	1.09 U	0.782 U	3.07 U	1.15 U	1.77 U	0.888 U	0.839 U	0.85 U	0.908 U	0.897 U	0.953 U	0.567 U	2.36 U	1.58 U	
West Former Mill	MW-23	8/25/2010	MW-23_100825	N	7.3	1.03 U	1.33 U	1.16 U	0.792 U	0.665 U	57.4	1.25 U	1.7 U	0.622 U	0.628 U	0.624 U	0.818 U	0.651 U	0.842 U	1.15 J	2.55 U	1.39 J	
West Former Mill	MW-29	8/25/2010	MW-29_100825	N	385	33.2	63	51.2	26.9	6.45	565	39.6	5	13	12.9	2.12 J	12.1	11.7	14.5	11.1 J	18.8	62.4 J	
West Former Mill	MW-29	11/11/2010	MW-29_101111	N	54	1.37 U	4.95	1.96 J	1.23 U	0.376 U	58.1	1.23 U	1.73 U	0.923 U	0.884 U	0.907 U	0.585 U	1.01 U	0.616 U	0.553 U	1.55 U	2.45 J	
West Former Mill	MW-29	2/8/2011	MW-29_110208	N	17	1.1 U	1.39 U	1.2 U	0.954 U	0.402 U	19.4	0.924 U	1.51 U	0.662 U	0.602 U	0.657 U	0.759 U	0.664 U	0.822 U	0.27 U	1.84 U	1.33	
West Former Mill	MW-54	8/26/2010	MW-54_100826	N	731	7.11	16.5	9.46	6.45	0.956 U	2770	16.5	1.38 U	1.86 J	2.96 J	0.551 U	2.9 J	1.87 J	4.31 J	3.64 J	82	21 J	
West Former Mill	MW-54	11/11/2010	MW-54_101111	N	35.1	1.27 U	1.59 U	1.41 U	1.1 U	0.7 U	141	1.37 J	1.1 U	0.719 U	0.714 U	0.69 U	0.942 U	0.757 U	0.986 U	0.8 U	5.37 J	1.87 J	
West Former Mill	MW-54	2/10/2011	MW-54_110210	N	72.5	1.41 U	1.77 U	1.53 U	0.766 U	0.465 U	265	1.56 U	2.29 U	1.16 U	1.09 U	1.16 U	0.732 U	1.17 U	0.847 U	0.586 U	10.4	2.07	
West Former Mill	MW-55	8/26/2010	MW-55_100826	N	23.5	1.6 U	2.08 U	1.82 U	0.936 U	0.854 U	199	3.28 J	0.973 U	0.765 U	0.736 U	0.777 U	1.1 U	0.796 U	1.12 U	0.731 U	5.86 J	1.88 J	
West Former Mill	MW-55	2/10/2011	MW-55_110210	N	3.05 U	1.44 U	1.87 U	1.58 U	1.18 U	0.498 U	15.4	1.82 U	2.69 U	1.21 U	1.06 U	1.11 U	0.609 U	1.17 U	0.614 U	0.437 U	2.09 U	1.48	
West Former Mill	MW-57	8/26/2010	MW-57_100826	N	9.09	1.3 U	1.56 U	1.43 U	1 J	0.763 U	91.3	1.66 J	0.936 U	0.804 U	0.796 U	0.872 U	0.957 U	0.878 U	1.07 U	0.529 U	5.52 J	2.11 J	
West Former Mill	MW-60	11/11/2010	MW-60_101111	N	18.5	1.22 U	1.58 U	1.39 U	0.812 U	0.473 U	220	4.82	1.28 U	1.05 U	0.982 U	1.01 U	0.689 U	1.05 U	0.725 U	0.649 U	9.83 J	1.52 J	
West Former Mill	MW-60	2/9/2011	MW-60_110209	N	4.2 J	1.53 U	1.95 U	1.67 U	1.2 U	0.825 U	27	1.47 U	2.21 U	1.44 U	1.32 U	1.41 U	1.2 U	1.41 U	1.29 U	0.687 U	3.01 U	1.86 J	
West Former Mill	PZ-3	8/26/2010	PZ-3_100826	N	6.27	0.865 U	1.08 U	0.964 U	0.773 U	0.661 U	40.5	1.12 U	1.65 U	1.02 U	0.974 U	1 U	0.79 U	1.06 U	0.814 U	0.545 U	2.87 U	1.32	

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Parameter Units MTCA Method B GW Protective of MSW					1,2-Dibromo-3-Chloropropane (ug/L) NL	2-Chloronaphthalene (ug/L) 1000	2-Chlorophenol (ug/L) 97	2-Methylnaphthalene (ug/L) NL	2-Methylphenol (ug/L) NL	2-Nitroaniline (ug/L) NL	2-Nitrophenol (ug/L) NL	m,p-CRESOL (ug/L) NL	m-Cresol (ug/L) NL	1,2,4-Trichlorobenzene (ug/L) 70	1,2-Dichlorobenzene (ug/L) 1300	1,3-Dichlorobenzene (ug/L) 960	1,4-Dichlorobenzene (ug/L) 4.9	2,4,5-Trichlorophenol (ug/L) 3600	2,4,6-Trichlorophenol* (ug/L) 2.4	2,4-Dichlorophenol (ug/L) 190	2,4-Dimethylphenol (ug/L) 550	2,4-Dinitrophenol (ug/L) 3500	2,4-Dinitrotoluene (ug/L) 5	2,6-Dinitrotoluene (ug/L) NL	3,3'-Dichlorobenzidine (ug/L) 5	3-Nitroaniline (ug/L) NL	4,6-Dinitro-2-methylphenol (ug/L) NL	4-Bromophenyl-phenylether (ug/L) NL	
Funct. Area	Loc ID	Date	Sample ID	Type																									
City Purchase	GWG-8	10/28/2010	GWG-8-W	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
City Purchase	PA-19	8/26/2010	PA-19_100826	N	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	5 U	---	5 U	---	---	---	
City Purchase	PA-19	11/11/2010	PA-19_101111	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
City Purchase	PA-19	2/9/2011	PA-19_110209	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
City Purchase	PA-19	2/9/2011	PA-19_110209D	FD	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
City Purchase	PZ-11	2/14/1997	97-2103-R661D	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
City Purchase	PZ-11	8/28/1997	97-15170-T609D	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
City Purchase	PZ-11	11/6/1997	97454188	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
City Purchase	PZ-11	2/22/2001	01-2349-CU21G	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
City Purchase	PZ-11	8/23/2001	01-14633-DN28A	N	5 U	1 U	1 U	---	1 U	5 U	5 U	---	1 U	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
City Purchase	PZ-11	12/11/2002	02-18574-FB89B	N	5 U	1 U	1 U	---	1 U	5 U	5 U	---	1 U	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	25 U	5 U	5 U	5 U	6 U	15 U	1 U	
City Purchase	PZ-11	6/19/2003	K2304594-002	N	---	0.19 U	0.48 U	---	0.48 U	0.19 U	0.48 U	---	---	0.19 U	0.19 U	0.19 U	0.19 U	0.48 U	0.48 U	1.9 U	3.8 U	0.19 U	0.19 U	1.9 U	0.95 U	1.9 U	0.19 U		
City Purchase	PZ-11	8/27/2010	PZ-11_100827	N	---	---	---	---	---	---	---	---	---	---	---	1 UJ	---	0.25 U	---	---	---	5 UJ	---	5 UJ	---	---	---		
City Purchase	PZ-11	11/9/2010	PZ-11_101109	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
City Purchase	PZ-12	2/28/1997	97-2822-R796B	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
City Purchase	PZ-12	8/28/1997	97-15171-T609E	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
City Purchase	PZ-12	11/6/1997	97454187	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
City Purchase	PZ-12	2/22/2001	01-2348-CU21F	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
City Purchase	PZ-12	8/21/2001	DN18H	N	---	1 U	1 U	1 U	1 U	5 U	5 U	1 U	---	---	---	---	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
City Purchase	PZ-12	12/11/2002	02-18575-FB89C	N	5.1 U	1 U	1 U	---	1 U	5.1 U	5.1 U	---	1 U	1 U	1 U	1 U	1 U	5.1 U	5.1 U	3.1 U	3.1 U	26 U	5.1 U	5.1 U	5.1 U	6.1 U	15 U	1 U	
City Purchase	PZ-12	6/19/2003	K2304594-003	N	---	0.2 U	0.48 U	---	0.48 U	0.2 U	0.48 U	---	---	0.2 U	0.2 U	0.2 U	0.2 U	0.48 U	0.48 U	0.48 U	2 U	3.9 U	0.2 U	0.2 U	2 U	0.96 U	2 U	0.2 U	
City Purchase	PZ-12	8/27/2010	PZ-12_100827	N	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	5 U	---	5 U	---	---	---		
City Purchase	PZ-12	11/9/2010	PZ-12_101109	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
CSO	GWG-6	11/2/2010	GWG-6-W	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
CSO	MW-70	5/18/2011	MW-70-110518	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
CSO	MW-70	5/18/2011	MW-70-110518D	FD	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
CSO	PA-15	11/9/2010	PA-15_101109	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
East Former Mill	GWG-7	11/3/2010	GWG-7-W	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
East Former Mill	PA-24	11/9/2010	PA-24_101109	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
East Former Mill	PA-24	2/10/2011	PA-24_110210	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
East Former Mill	PZ-10	2/28/1997	97-2821-R796A	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Parameter Units MTCA Method B GW Protective of MSW					1,2-Dibromo-3-Chloropropane (ug/L) NL	2-Chloronaphthalene (ug/L) 1000	2-Chlorophenol (ug/L) 97	2-Methylnaphthalene (ug/L) NL	2-Methylphenol (ug/L) NL	2-Nitroaniline (ug/L) NL	2-Nitrophenol (ug/L) NL	m,p-CRESOL (ug/L) NL	m-Cresol (ug/L) NL	1,2,4-Trichlorobenzene (ug/L) 70	1,2-Dichlorobenzene (ug/L) 1300	1,3-Dichlorobenzene (ug/L) 960	1,4-Dichlorobenzene (ug/L) 4.9	2,4,5-Trichlorophenol (ug/L) 3600	2,4,6-Trichlorophenol* (ug/L) 2.4	2,4-Dichlorophenol (ug/L) 190	2,4-Dimethylphenol (ug/L) 550	2,4-Dinitrophenol (ug/L) 3500	2,4-Dinitrotoluene (ug/L) 5	2,6-Dinitrotoluene (ug/L) NL	3,3'-Dichlorobenzidine (ug/L) 5	3-Nitroaniline (ug/L) NL	4,6-Dinitro-2-methylphenol (ug/L) NL	4-Bromophenyl-phenylether (ug/L) NL	
Funct. Area	Loc ID	Date	Sample ID	Type																									
East Former Mill	PZ-10	8/27/1997	97-15175-T609I	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
East Former Mill	PZ-10	2/22/2001	01-2350-CU21H	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
East Former Mill	PZ-10	8/22/2001	DN25D	N	---	1 U	1 U	1 U	1 U	5 U	5 U	1 U	---	---	---	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U		
East Former Mill	PZ-10	12/13/2002	02-18587-FB89O	N	5.6 U	1.1 U	1.1 U	---	1.1 U	5.6 U	5.6 U	---	1.1 U	1.1 U	1.1 U	1.1 U	5.6 U	5.6 U	3.3 U	3.3 U	28 U	5.6 U	5.6 U	5.6 U	6.7 U	17 U	1.1 U		
East Former Mill	PZ-10	6/19/2003	K2304594-001	N	---	0.2 U	0.49 U	---	0.49 U	0.2 U	0.49 U	---	---	0.2 U	0.2 U	0.2 U	0.2 U	0.49 U	0.49 U	2 U	3.9 U	0.2 U	0.2 U	2 U	0.97 U	2 U	0.2 U		
East Former Mill	PZ-10	8/26/2010	PZ-10_100826	N	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	5 U	---	5 U	---	---	---	---	
East Former Mill	PZ-13	2/14/1997	97-2100-R661A	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
East Former Mill	PZ-13	8/27/1997	97-15174-T609H	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
East Shoreline	MW-59	12/13/2002	02-18592-FB89T	N	5.2 U	1 U	1 U	---	1 U	5.2 U	5.2 U	---	1 U	1 U	1 U	1 U	1 U	5.2 U	5.2 U	3.1 U	3.1 U	26 U	5.2 U	5.2 U	5.2 U	6.2 U	16 U	1 U	
East Shoreline	MW-59	6/19/2003	K2304594-006	N	---	0.19 U	0.48 U	---	0.48 U	0.19 U	0.48 U	---	---	0.19 U	0.19 U	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	1.9 U	3.8 U	0.19 U	0.19 U	1.9 U	0.95 U	1.9 U	0.19 U	
East Shoreline	MW-59	8/27/2010	MW-59_100827	N	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	5 U	---	---	5 U	---	---	---	
East Shoreline	MW-59	11/10/2010	MW-59_101110	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
East Shoreline	MW-59	2/10/2011	MW-59_110210	N	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---	
East Shoreline	PZ-9	2/14/1997	97-2101-R661B	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
East Shoreline	PZ-9	8/27/1997	97-15176-T609J	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
East Shoreline	PZ-9	11/5/1997	97454185	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	11/5/1997	97454185-1	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	2/22/2001	01-2369-CU22G	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
East Shoreline	PZ-9	8/21/2001	PZ-9_010821	N	5 U	1 U	1 U	---	1 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	2 U	2 U	10 U	5 U	5 U	5 U	2 U	10 U	2 U	
East Shoreline	PZ-9	12/13/2002	02-18586-FB89N	N	5.3 U	1.1 U	1.1 U	---	1.1 U	5.3 U	5.3 U	---	1.1 U	1.1 U	1.1 U	1.1 U	5.3 U	5.3 U	3.2 U	3.2 U	27 U	5.3 U	5.3 U	5.3 U	5.3 U	6.4 U	16 U	1.1 U	
East Shoreline	PZ-9	6/19/2003	K2304594-005	FD	---	0.2 U	0.48 U	---	0.48 U	0.2 U	0.48 U	---	---	0.2 U	0.2 U	0.2 U	0.2 U	0.48 U	0.48 U	0.48 U	2 U	3.9 U	0.2 U	0.2 U	2 U	0.96 U	2 U	0.2 U	
East Shoreline	PZ-9	6/19/2003	K2304594-007	N	---	0.2 U	0.48 U	---	0.48 U	0.2 U	0.48 U	---	---	0.2 U	0.2 U	0.2 U	0.2 U	0.48 U	0.48 U	0.48 U	2 U	3.9 U	0.2 U	0.2 U	2 U	0.96 U	2 U	0.2 U	
East Shoreline	PZ-9	8/26/2010	DUP-082610	FD	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	5 U	---	5 U	---	---	---	---	
East Shoreline	PZ-9	8/26/2010	PZ-9_100826	N	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	5 U	---	5 R	---	---	---	---	
East Shoreline	PZ-9	11/10/2010	PZ-9_101110	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	2/8/2011	PZ-9_110208	N	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---	---
Ennis Creek	PZ-5	2/13/1997	97-1959-R652D	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Ennis Creek	PZ-5	8/28/1997	97-15169-T609C	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Ennis Creek	PZ-5	2/22/2001	01-2366-CU22D	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Ennis Creek	PZ-5	8/21/2001	DN18G	N	---	1 U	1 U	1 U	1 U	5 U	5 U	1 U	---	---	---	---	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Ennis Creek	PZ-5	12/12/2002	02-18578-FB89F	N	5 U	1 U	1 U	---	1 U	5 U	5 U	---	1 U	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	25 U	5 U	5 U	5 U	6 U	15 U	1 U	

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Parameter Units MTCA Method B GW Protective of MSW					1,2-Dibromo-3-Chloropropane (ug/L) NL	2-Chloronaphthalene (ug/L) 1000	2-Chlorophenol (ug/L) 97	2-Methylnaphthalene (ug/L) NL	2-Methylphenol (ug/L) NL	2-Nitroaniline (ug/L) NL	2-Nitrophenol (ug/L) NL	m,p-CRESOL (ug/L) NL	m-Cresol (ug/L) NL	1,2,4-Trichlorobenzene (ug/L) 70	1,2-Dichlorobenzene (ug/L) 1300	1,3-Dichlorobenzene (ug/L) 960	1,4-Dichlorobenzene (ug/L) 4.9	2,4,5-Trichlorophenol (ug/L) 3600	2,4,6-Trichlorophenol* (ug/L) 2.4	2,4-Dichlorophenol (ug/L) 190	2,4-Dimethylphenol (ug/L) 550	2,4-Dinitrophenol (ug/L) 3500	2,4-Dinitrotoluene (ug/L) 5	2,6-Dinitrotoluene (ug/L) NL	3,3'-Dichlorobenzidine (ug/L) 5	3-Nitroaniline (ug/L) NL	4,6-Dinitro-2-methylphenol (ug/L) NL	4-Bromophenyl-phenylether (ug/L) NL	
Funct. Area	Loc ID	Date	Sample ID	Type																									
Ennis Creek	PZ-5	6/18/2003	K2304556-001	N	---	0.2 U	0.48 U	---	0.48 U	0.2 U	0.48 U	---	---	0.2 U	0.2 U	0.2 U	0.2 U	0.48 U	0.48 U	0.48 U	2 U	3.9 U	0.2 U	0.2 U	2 U	0.96 U	2 U	0.2 U	
Ennis Creek	PZ-5	8/27/2010	PZ-5_100827	N	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	5 U	---	5 U	---	---	---	
Ennis Creek	PZ-6	2/13/1997	97-1958-R652C	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Ennis Creek	PZ-6	8/28/1997	97-15168-T609B	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Ennis Creek	PZ-6	2/22/2001	01-2346-CU21D	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Ennis Creek	PZ-6	8/23/2001	01-14634-DN28B	N	5 U	1 U	1 U	---	1 U	5 U	5 U	---	1 U	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Ennis Creek	PZ-6	12/11/2002	02-18573-FB89A	N	5 U	1 U	1 U	---	1 U	5 U	5 U	---	1 U	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	25 U	5 U	5 U	5 U	6 U	15 U	1 U	
Ennis Creek	PZ-6	6/18/2003	K2304556-005	N	---	0.2 U	0.49 U	---	0.49 U	0.2 U	0.49 U	---	---	0.2 U	0.2 U	0.2 U	0.2 U	0.49 U	0.49 U	0.49 U	2 U	3.9 U	0.2 U	0.2 U	2 U	0.98 U	2 U	0.2 U	
Ennis Creek	PZ-6	8/27/2010	PZ-6_100827	N	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	5 U	---	5 U	---	---	---	
Estuary	FR-1	2/22/2001	01-2367-CU22E	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Estuary	FR-1	8/22/2001	DN25B	N	---	1 U	1 U	1 U	1 U	5 U	5 U	1 U	---	---	---	1 U	5 U	5 U	3 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Estuary	MW-62	11/9/2010	MW-62_101109	N	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---	
Estuary	MW-62	2/10/2011	MW-62_110210	N	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	GWG-1	11/4/2010	GWG-1-W	N	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	5 U	---	5 U	---	---	---	
Main Former Mill	MW-58	12/13/2002	02-18591-FB89S	N	5.7 U	1.1 U	1.1 U	---	1.1 U	5.7 U	5.7 U	---	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.7 U	5.7 U	3.4 U	3.4 U	28 U	5.7 U	5.7 U	5.7 U	6.8 U	17 U	1.1 U	
Main Former Mill	MW-58	6/18/2003	K2304556-002	N	---	0.2 U	0.49 U	---	0.49 U	0.2 U	0.49 U	---	---	0.2 U	0.2 U	0.2 U	0.2 U	0.49 U	0.49 U	0.49 U	2 U	3.9 U	0.2 U	0.2 U	2 U	0.97 U	2 U	0.2 U	
Main Former Mill	MW-58	8/27/2010	MW-58_100827	N	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	5 U	---	5 U	---	---	---	
Main Former Mill	MW-58	2/11/2011	MW-58_110211	N	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	MW-65	3/11/2011	MW-65-110311-W	N	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	MW-65	5/18/2011	MW-65-110518	N	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	MW-66	3/11/2011	MW-66-110311-W	N	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	MW-66	5/18/2011	MW-66-110518	N	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	MW-69	5/18/2011	MW-69-110518	N	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	PA-17	2/11/2011	PA-17_110211	N	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	PIPE-1-SR23	1/7/2011	PIPE-1-SR23	N	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	5 U	---	5 U	---	---	---	
Main Former Mill	PZ-4	2/13/1997	97-1960-R652E	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Main Former Mill	PZ-4	8/27/1997	97-15173-T609G	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Main Former Mill	PZ-4	11/5/1997	97454184	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	PZ-4	2/22/2001	01-2363-CU22A	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Main Former Mill	PZ-4	8/21/2001	DN18F	N	---	1 U	1 U	1 U	1 U	5 U	5 U	1 U	---	---	---	---	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Main Former Mill	PZ-4	12/12/2002	02-18577-FB89E	N	6.2 U	1.2 U	1.2 U	---	1.2 U	6.2 U	6.2 U	---	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.2 U	6.2 U	3.8 U	3.8 U	31 U	6.2 U	6.2 U	6.2 U	7.5 U	19 U	1.2 U	

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Parameter Units MTCA Method B GW Protective of MSW					1,2-Dibromo-3-Chloropropane (ug/L) NL	2-Chloronaphthalene (ug/L) 1000	2-Chlorophenol (ug/L) 97	2-Methylnaphthalene (ug/L) NL	2-Methylphenol (ug/L) NL	2-Nitroaniline (ug/L) NL	2-Nitrophenol (ug/L) NL	m,p-CRESOL (ug/L) NL	m-Cresol (ug/L) NL	1,2,4-Trichlorobenzene (ug/L) 70	1,2-Dichlorobenzene (ug/L) 1300	1,3-Dichlorobenzene (ug/L) 960	1,4-Dichlorobenzene (ug/L) 4.9	2,4,5-Trichlorophenol (ug/L) 3600	2,4,6-Trichlorophenol* (ug/L) 2.4	2,4-Dichlorophenol (ug/L) 190	2,4-Dimethylphenol (ug/L) 550	2,4-Dinitrophenol (ug/L) 3500	2,4-Dinitrotoluene (ug/L) 5	2,6-Dinitrotoluene (ug/L) NL	3,3'-Dichlorobenzidine (ug/L) 5	3-Nitroaniline (ug/L) NL	4,6-Dinitro-2-methylphenol (ug/L) NL	4-Bromophenyl-phenylether (ug/L) NL	
Funct. Area	Loc ID	Date	Sample ID	Type																									
Main Former Mill	PZ-4	6/17/2003	K2304497-004	N	---	0.016 U	0.015 U	---	0.06 U	0.015 U	0.014 U	---	---	0.016 U	0.015 U	0.011 U	0.014 U	0.026 U	0.037 U	0.024 U	0.32 U	0.53 U	0.02 U	0.0088 U	0.43 U	0.23 U	0.013 U	0.018 U	
Main Former Mill	PZ-4	8/25/2010	PZ-4_100825	N	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	5 U	---	5 U	---	---	---	
North Shoreline	MW-51	8/4/1998	98-15871-Y129C	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	5 U	6 U	10 U	1 U
North Shoreline	MW-51	2/22/2001	01-2351-CU21I	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	5 U	6 U	10 U	1 U
North Shoreline	MW-51	8/21/2001	DN18C	N	---	1 U	1 U	1 U	1 U	5 U	5 U	1 U	---	---	---	1 U	5 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	5 U	6 U	10 U	1 U
North Shoreline	MW-51	12/12/2002	02-18580-FB89H	N	5.4 U	1.1 U	1.1 U	---	1.1 U	5.4 U	5.4 U	---	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.4 U	5.4 U	3.3 U	3.3 U	27 U	5.4 U	5.4 U	5.4 U	6.5 U	16 U	1.1 U	
North Shoreline	MW-51	6/18/2003	K2304556-003	N	---	0.19 U	0.48 U	---	0.48 U	0.19 U	0.48 U	---	---	0.19 U	0.19 U	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	1.9 U	3.8 U	0.19 U	0.19 U	1.9 U	0.95 U	1.9 U	0.19 U	
North Shoreline	MW-51	8/26/2010	MW-51_100826	N	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	---	5 U	---	5 U	---	---	---	
North Shoreline	MW-51	11/10/2010	MW-51_101110	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
North Shoreline	MW-51	2/11/2011	MW-51_110211	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---
North Shoreline	MW-51	5/19/2011	MW-51-110519	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
North Shoreline	MW-56	2/22/2001	01-2365-CU22C	N	---	1 U	1 U	---	4.5	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	5.6	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
North Shoreline	MW-56	8/22/2001	DN25E	N	---	1 U	1 U	1 U	2.8 J	5 U	5 U	16	---	---	---	---	1 U	5 U	5 U	3 U	3.5	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
North Shoreline	MW-56	12/12/2002	02-18585-FB89M	N	5.1 U	1 U	1 U	---	1.8	5.1 U	5.1 U	---	10	1 U	1 U	1 U	1 U	5.1 U	5.1 U	3.1 U	3.1 U	26 U	5.1 U	5.1 U	5.1 U	6.1 U	15 U	1 U	
North Shoreline	MW-56	6/19/2003	K2304594-008	N	---	0.19 U	0.14 J	---	3	0.19 U	0.48 U	---	---	0.19 U	0.19 U	0.19 U	0.19 U	0.48 U	0.91	0.31 J	3.7	3.8 U	0.19 U	0.19 U	1.9 U	0.95 U	1.9 U	0.19 U	
North Shoreline	MW-56	8/26/2010	MW-56_100826	N	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.66	---	---	---	5 U	---	5 U	---	---	---	
North Shoreline	MW-56	11/9/2010	MW-56_101109	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.43	---	---	---	---	---	---	---	---	---	
North Shoreline	MW-56	2/11/2011	MW-56_110211	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.38	---	---	---	---	---	---	---	---	---	
NW Shoreline	MW-28	8/25/2010	MW-28_100825	N	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	5 U	---	5 U	---	---	---	
NW Shoreline	MW-28	11/10/2010	MW-28_101110	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
NW Shoreline	MW-28	2/8/2011	MW-28_110208	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
NW Shoreline	MW-28	5/20/2011	MW-28-110520	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NW Shoreline	MW-52	8/4/1998	98-15869-Y129A	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
NW Shoreline	MW-52	2/22/2001	01-2368-CU22F	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
NW Shoreline	MW-52	8/22/2001	DN25G	N	---	1 U	1 U	1 U	1 U	5 U	5 U	1 U	---	---	---	---	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
NW Shoreline	MW-52	12/12/2002	02-18581-FB89I	N	5.6 U	1.1 U	1.1 U	---	1.1 U	5.6 U	5.6 U	---	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.6 U	5.6 U	3.3 U	3.3 U	28 U	5.6 U	5.6 U	5.6 U	6.7 U	17 U	1.1 U	
NW Shoreline	MW-52	6/16/2003	K2304466-002	N	---	0.2 U	0.48 U	---	0.48 U	0.2 U	0.48 U	---	---	0.2 U	0.2 U	0.2 U	0.2 U	0.48 U	0.48 U	0.48 U	2 U	3.9 U	0.2 U	0.2 U	2 U	0.96 U	2 U	0.2 U	
NW Shoreline	MW-52	8/25/2010	MW-52_100825	N	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	5 U	---	5 U	---	---	---	
NW Shoreline	MW-52	11/8/2010	MW-52_101108	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NW Shoreline	MW-52	2/9/2011	MW-52_110209	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
NW Shoreline	MW-53	2/21/2001	01-2275-CU06A	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	---	---	---	---	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Parameter Units MTCA Method B GW Protective of MSW					1,2-Dibromo-3-Chloropropane (ug/L) NL	2-Chloronaphthalene (ug/L) 1000	2-Chlorophenol (ug/L) 97	2-Methylnaphthalene (ug/L) NL	2-Methylphenol (ug/L) NL	2-Nitroaniline (ug/L) NL	2-Nitrophenol (ug/L) NL	m,p-CRESOL (ug/L) NL	m-Cresol (ug/L) NL	1,2,4-Trichlorobenzene (ug/L) 70	1,2-Dichlorobenzene (ug/L) 1300	1,3-Dichlorobenzene (ug/L) 960	1,4-Dichlorobenzene (ug/L) 4.9	2,4,5-Trichlorophenol (ug/L) 3600	2,4,6-Trichlorophenol* (ug/L) 2.4	2,4-Dichlorophenol (ug/L) 190	2,4-Dimethylphenol (ug/L) 550	2,4-Dinitrophenol (ug/L) 3500	2,4-Dinitrotoluene (ug/L) 5	2,6-Dinitrotoluene (ug/L) NL	3,3'-Dichlorobenzidine (ug/L) 5	3-Nitroaniline (ug/L) NL	4,6-Dinitro-2-methylphenol (ug/L) NL	4-Bromophenyl-phenylether (ug/L) NL	
Funct. Area	Loc ID	Date	Sample ID	Type																									
NW Shoreline	MW-53	8/21/2001	DN18A	N	---	1 U	1 U	1 U	1 U	5 U	5 U	1 U	---	---	---	---	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
NW Shoreline	MW-53	12/12/2002	02-18582-FB89J	N	5.6 U	1.1 U	1.1 U	---	1.1 U	5.6 U	5.6 U	---	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.6 U	5.6 U	3.3 U	3.3 U	28 U	5.6 U	5.6 U	5.6 U	6.7 U	17 U	1.1 U	
NW Shoreline	MW-53	6/16/2003	K2304466-003	N	---	0.2 U	0.48 U	---	0.48 U	0.2 U	0.48 U	---	---	0.2 U	0.2 U	0.2 U	0.2 U	0.48 U	0.48 U	0.48 U	2 U	3.9 U	0.2 U	0.2 U	2 U	0.96 U	2 U	0.2 U	
NW Shoreline	MW-53	8/26/2010	MW-53_100826	N	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	5 U	---	---	5 U	---	---	---
NW Shoreline	MW-53	2/11/2011	MW-53_110211	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---
NW Shoreline	MW-61	11/11/2010	MW-61_101111	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---
NW Shoreline	MW-61	2/11/2011	MW-61_110211	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---
NW Shoreline	MW-67	3/11/2011	MW-67-110311-W	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---
NW Shoreline	MW-67	5/18/2011	MW-67-110518	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---
NW Shoreline	PZ-1	8/22/2001	DN25C	FD	---	1 U	1 U	1 U	1 U	5 U	5 U	1 U	---	---	---	---	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
NW Shoreline	PZ-2	2/13/1997	97-1957-R652B	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
NW Shoreline	PZ-2	8/27/1997	97-15172-T609F	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
NW Shoreline	PZ-2	11/5/1997	97454182	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NW Shoreline	PZ-2	8/25/2010	PZ-2_100825	N	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	---	5 U	---	5 U	---	---	---
NW Shoreline	PZ-2	11/11/2010	PZ-2_101111	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NW Shoreline	PZ-2	2/7/2011	PZ-2_110207	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---
Prefab	PZ-7	2/14/1997	97-2102-R661C	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Prefab	PZ-7	8/27/1997	97-15177-T609K	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Prefab	PZ-7	11/5/1997	97454189	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Prefab	PZ-7	2/22/2001	01-2347-CU21E	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
Prefab	PZ-7	12/12/2002	02-18579-FB89G	N	6.4 U	1.3 U	1.3 U	---	1.3 U	6.4 U	6.4 U	---	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.4 U	6.4 U	3.8 U	3.8 U	32 U	6.4 U	6.4 U	6.4 U	7.7 U	19 U	1.3 U	
Prefab	PZ-7	8/27/2010	PZ-7_100827	N	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	---	5 U	---	5 U	---	---	---
Prefab	PZ-7	11/10/2010	PZ-7_101110	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Prefab	PZ-7	2/8/2011	PZ-7_110208	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Prefab	PZ-7	5/17/2011	PZ-07-110517	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-19	2/22/2001	01-2345-CU21C	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
West Former Mill	MW-19	8/22/2001	DN25I	N	---	1 U	1 U	1 U	1 U	5 U	5 U	1 U	---	---	---	---	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
West Former Mill	MW-20	9/2/1997	97-15361-T609N	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
West Former Mill	MW-23	10/15/1997	97-19428-U167A	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
West Former Mill	MW-23	2/22/2001	01-2364-CU22B	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
West Former Mill	MW-23	8/21/2001	DN18E	N	---	1 U	1 U	1 U	1 U	5 U	5 U	1 U	---	---	---	---	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Parameter Units MTCA Method B GW Protective of MSW					1,2-Dibromo-3-Chloropropane (ug/L) NL	2-Chloronaphthalene (ug/L) 1000	2-Chlorophenol (ug/L) 97	2-Methylnaphthalene (ug/L) NL	2-Methylphenol (ug/L) NL	2-Nitroaniline (ug/L) NL	2-Nitrophenol (ug/L) NL	m,p-CRESOL (ug/L) NL	m-Cresol (ug/L) NL	1,2,4-Trichlorobenzene (ug/L) 70	1,2-Dichlorobenzene (ug/L) 1300	1,3-Dichlorobenzene (ug/L) 960	1,4-Dichlorobenzene (ug/L) 4.9	2,4,5-Trichlorophenol (ug/L) 3600	2,4,6-Trichlorophenol* (ug/L) 2.4	2,4-Dichlorophenol (ug/L) 190	2,4-Dimethylphenol (ug/L) 550	2,4-Dinitrophenol (ug/L) 3500	2,4-Dinitrotoluene (ug/L) 5	2,6-Dinitrotoluene (ug/L) NL	3,3'-Dichlorobenzidine (ug/L) 5	3-Nitroaniline (ug/L) NL	4,6-Dinitro-2-methylphenol (ug/L) NL	4-Bromophenyl-phenylether (ug/L) NL	
Funct. Area	Loc ID	Date	Sample ID	Type																									
West Former Mill	MW-23	12/13/2002	02-18589-FB89Q	N	5 U	1 U	1 U	---	1 U	5 U	5 U	---	1 U	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	25 U	5 U	5 U	5 U	6 U	15 U	1 U	
West Former Mill	MW-23	6/16/2003	K2304466-001	N	---	0.2 U	0.069 J	---	0.34 J	0.2 U	0.48 U	---	---	0.2 U	0.2 U	0.2 U	0.2 U	7.9	7.7	3.9	0.44 J	3.9 U	0.2 U	0.2 U	2 U	0.96 U	2 U	0.2 U	
West Former Mill	MW-23	8/25/2010	MW-23_100825	N	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	0.25 U	---	---	---	5 U	---	5 U	---	---	---	
West Former Mill	MW-23	11/10/2010	MW-23_101110	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-23	2/9/2011	MW-23_110209	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-23	5/19/2011	MW-23-110519	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-29	9/2/1997	97-15362-T609O	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
West Former Mill	MW-29	6/17/2003	K2304497-006	N	---	0.016 U	0.033 J	---	0.096 J	0.015 U	0.014 U	---	---	0.016 U	0.015 U	0.011 U	0.014 U	0.1 J	0.085 J	0.024 U	0.32 U	0.53 U	0.02 U	0.0088 U	0.43 U	0.23 U	0.013 U	0.018 U	
West Former Mill	MW-29	8/25/2010	MW-29_100825	N	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	0.25 U	---	---	---	5 U	---	5 U	---	---	---	
West Former Mill	MW-29	11/11/2010	MW-29_101111	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-29	2/8/2011	MW-29_110208	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-29	5/20/2011	MW-29-110520	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-54	2/21/2001	01-2276-CU06B	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
West Former Mill	MW-54	8/22/2001	DN25H	N	---	1 U	1 U	1 U	1 U	5 U	5 U	1 U	---	---	---	---	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	5 U	6 U	10 U	1 U
West Former Mill	MW-54	12/12/2002	02-18583-FB89K	N	5.2 U	1 U	1 U	---	1 U	5.2 U	5.2 U	---	1 U	1 U	1 U	1 U	1 U	5.2 U	5.2 U	3.1 U	3.1 U	26 U	5.2 U	5.2 U	5.2 U	6.2 U	16 U	1 U	
West Former Mill	MW-54	6/17/2003	K2304497-001	N	---	0.016 U	0.015 U	---	0.06 U	0.015 U	0.014 U	---	---	0.016 U	0.015 U	0.011 U	0.014 U	0.026 U	0.037 U	0.024 U	0.32 U	0.53 U	0.02 U	0.0088 U	0.43 U	0.23 U	0.013 U	0.018 U	
West Former Mill	MW-54	8/26/2010	MW-54_100826	N	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	0.42	---	---	---	5 U	---	5 U	---	---	---	
West Former Mill	MW-54	11/11/2010	MW-54_101111	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-54	2/10/2011	MW-54_110210	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-54	5/18/2011	MW-54-110518	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-55	2/21/2001	01-2277-CU06C	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	---	---	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	5 U	6 U	10 U	1 U	
West Former Mill	MW-55	8/22/2001	DN25F	N	---	1 U	1 U	1 U	1 U	5 U	5 U	1 U	---	---	---	---	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	5 U	6 U	10 U	1 U
West Former Mill	MW-55	12/12/2002	02-18584-FB89L	N	5.3 U	1.1 U	1.1 U	---	1.1 U	5.3 U	5.3 U	---	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.3 U	5.3 U	3.2 U	3.2 U	27 U	5.3 U	5.3 U	5.3 U	6.4 U	16 U	1.1 U	
West Former Mill	MW-55	6/18/2003	K2304556-004	N	---	0.19 U	0.48 U	---	0.48 U	0.19 U	0.48 U	---	---	0.19 U	0.19 U	0.19 U	0.19 U	0.48 U	0.48 U	0.48 U	1.9 U	3.8 U	0.19 U	0.19 U	1.9 U	0.95 U	1.9 U	0.19 U	
West Former Mill	MW-55	8/26/2010	MW-55_100826	N	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	0.87	---	---	---	5 U	---	5 U	---	---	---	
West Former Mill	MW-55	11/8/2010	MW-55_101108	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-55	2/10/2011	MW-55_110210	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-57	12/13/2002	02-18590-FB89R	N	5.4 U	1.1 U	1.1 U	---	1.1 U	5.4 U	5.4 U	---	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.4 U	5.4 U	3.3 U	3.3 U	27 U	5.4 U	5.4 U	5.4 U	6.5 U	16 U	1.1 U	
West Former Mill	MW-57	6/17/2003	K2304497-007	N	---	0.016 U	0.015 U	---	0.06 U	0.015 U	0.014 U	---	---	0.016 U	0.015 U	0.011 U	0.014 U	0.026 U	0.037 U	0.024 U	0.32 U	0.53 U	0.02 U	0.0088 U	0.43 U	0.23 U	0.013 U	0.018 U	
West Former Mill	MW-57	8/26/2010	MW-57_100826	N	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	0.25 U	---	---	---	5 U	---	5 U	---	---	
West Former Mill	MW-60	11/11/2010	MW-60_101111	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.8 U	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-60	2/9/2011	MW-60_110209	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

					Parameter	1,2-Dibromo-3-Chloropropane	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	m,p-CRESOL	m-Cresol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol*	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	
					Units	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
					MTCA Method B GW Protective of MSW	NL	1000	97	NL	NL	NL	NL	NL	NL	70	1300	960	4.9	3600	2.4	190	550	3500	5	NL	5	NL	NL	NL	
Funct. Area	Loc ID	Date	Sample ID	Type																										
West Former Mill	MW-60	5/19/2011	MW-60-110519	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-68	6/7/2011	MW-68-110607	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	---
West Former Mill	PZ-3	2/14/1997	97-2104-R661E	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	5 U	6 U	10 U	1 U
West Former Mill	PZ-3	8/28/1997	97-15167-T609A	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	5 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
West Former Mill	PZ-3	11/5/1997	97454183	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	PZ-3	2/22/2001	CU21A	N	---	1 U	1 U	---	2 U	5 U	5 U	---	---	1 U	1 U	1 U	1 U	1 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
West Former Mill	PZ-3	8/21/2001	DN18B	N	---	1 U	1 U	1 U	1 U	5 U	5 U	1 U	---	---	---	---	1 U	5 U	5 U	5 U	3 U	3 U	10 U	5 U	5 U	5 U	6 U	10 U	1 U	
West Former Mill	PZ-3	12/12/2002	02-18576-FB89D	N	5 U	1 U	1 U	---	1 U	5 U	5 U	---	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	3 U	3 U	25 U	5 U	5 U	5 U	6 U	15 U	1 U	
West Former Mill	PZ-3	6/17/2003	K2304497-002	N	---	0.016 U	0.015 U	---	0.06 U	0.015 U	0.014 U	---	---	0.016 U	0.015 U	0.011 U	0.014 U	0.026 U	0.037 U	0.024 U	0.32 U	0.53 U	0.02 U	0.0088 U	0.43 U	0.23 U	0.013 U	0.018 U		
West Former Mill	PZ-3	8/26/2010	PZ-3_100826	N	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	0.25 U	---	---	---	5 U	---	5 U	---	---	---	
West Former Mill	PZ-3	11/9/2010	PZ-3_101109	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	PZ-3	2/10/2011	PZ-3_110210	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	
West Former Mill	PZ-3	5/19/2011	PZ-03-110519	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---	---	---	---	---	---	---	

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

MTC A Method B GW Protective of				4-Chloro-3-methylphenol (ug/L) NL	4-Chloroaniline (ug/L) NL	4-Chlorophenyl-phenylether (ug/L) NL	4-Methylphenol (ug/L) NL	4-Nitroaniline (ug/L) NL	4-Nitrophenol (ug/L) NL	Acenaphthene (ug/L) 640	Acenaphthylene (ug/L) NL	Anthracene (ug/L) 26000	Benzo(g,h,i)perylene (ug/L) NL	Benzoic acid (ug/L) NL	Benzyl alcohol (ug/L) NL	Bis(2-chloro-1-methylethyl) ether (ug/L) 37	bis(2-Chloroethoxy)methane (ug/L) NL	bis(2-Chloroethyl)ether* (ug/L) 1	bis(2-Chloroisopropyl)ether (ug/L) 42000	bis(2-Ethylhexyl)phthalate* (ug/L) 2.2	Butylbenzylphthalate (ug/L) 1300	Carbazole (ug/L) NL	Diethylphthalate (ug/L) 28000	Di-n-butylphthalate (ug/L) 2900	Di-n-octylphthalate (ug/L) NL	Diallate-Isomer 1 (ug/L) NL	Dibenzofuran (ug/L) NL	
Funct. Area	Loc ID	Date	Sample ID																									
City Purchase	GWG-8	10/28/2010	GWG-8-W	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	
City Purchase	PA-19	8/26/2010	PA-19_100826	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
City Purchase	PA-19	11/11/2010	PA-19_101111	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	
City Purchase	PA-19	2/9/2011	PA-19_110209	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	
City Purchase	PA-19	2/9/2011	PA-19_110209D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	
City Purchase	PZ-11	2/14/1997	97-2103-R661D	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	3.5 J	1 U	1 U	1 U	1 U	1 U	---	1 U	
City Purchase	PZ-11	8/28/1997	97-15170-T609D	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
City Purchase	PZ-11	11/6/1997	97454188	---	---	---	---	---	10 U	---	---	---	---	---	---	---	---	---	---	10 U	---	10 U	---	---	---	---	---	
City Purchase	PZ-11	2/22/2001	01-2349-CU21G	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
City Purchase	PZ-11	8/23/2001	01-14633-DN28A	2 U	3 U	1 U	---	5 U	5 U	0.15	0.1 U	0.1 U	0.1 U	10 U	5 U	1 U	1 U	2 U	---	5 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	
City Purchase	PZ-11	12/11/2002	02-18574-FB89B	2 U	3 U	1 U	---	5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	50 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	
City Purchase	PZ-11	6/19/2003	K2304594-002	0.078 J	0.19 U	0.19 U	0.48 U	0.95 U	1.9 U	0.02 U	0.02 U	0.0015 J	0.0096 J	4.8 U	4.8 U	---	0.19 U	0.19 U	0.19 U	1.9 U	0.12 J	0.19 U	0.051 J	0.079 J	0.38 U	---	---	
City Purchase	PZ-11	8/27/2010	PZ-11_100827	---	---	---	---	---	---	---	---	---	---	---	---	1 UJ	---	1 UJ	---	1 UJ	---	---	---	---	---	---	---	
City Purchase	PZ-11	11/9/2010	PZ-11_101109	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
City Purchase	PZ-12	2/28/1997	97-2822-R796B	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
City Purchase	PZ-12	8/28/1997	97-15171-T609E	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
City Purchase	PZ-12	11/6/1997	97454187	---	---	---	---	---	---	10 U	---	---	---	---	---	---	---	---	---	13	---	10 U	---	---	---	---	---	
City Purchase	PZ-12	2/22/2001	01-2348-CU21F	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
City Purchase	PZ-12	8/21/2001	DN18H	2 U	3 U	1 U	---	5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	10 U	5 U	1 U	1 U	2 U	---	1.8 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
City Purchase	PZ-12	12/11/2002	02-18575-FB89C	2 U	3.1 U	1 U	---	5.1 U	5.1 U	0.1 U	0.1 U	0.1 U	0.1 U	51 U	5.1 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5.1 U	1 U	
City Purchase	PZ-12	6/19/2003	K2304594-003	0.032 J	0.2 U	0.2 U	0.48 U	0.96 U	2 U	0.02 U	0.02 U	0.02 U	0.0044 J	4.8 U	4.8 U	---	0.2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.031 J	0.08 J	0.39 U	---	---	
City Purchase	PZ-12	8/27/2010	PZ-12_100827	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
City Purchase	PZ-12	11/9/2010	PZ-12_101109	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
CSO	GWG-6	11/2/2010	GWG-6-W	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.8	---	---	---	---	---	---	
CSO	MW-70	5/18/2011	MW-70-110518	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	
CSO	MW-70	5/18/2011	MW-70-110518D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	
CSO	PA-15	11/9/2010	PA-15_101109	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	
East Former Mill	GWG-7	11/3/2010	GWG-7-W	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	
East Former Mill	PA-24	11/9/2010	PA-24_101109	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.1 J	---	---	---	---	---	---	
East Former Mill	PA-24	2/10/2011	PA-24_110210	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	
East Former Mill	PZ-10	2/28/1997	97-2821-R796A	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

MTC A Method B GW Protective of				4-Chloro-3-methylphenol (ug/L) NL	4-Chloroaniline (ug/L) NL	4-Chlorophenyl-phenylether (ug/L) NL	4-Methylphenol (ug/L) NL	4-Nitroaniline (ug/L) NL	4-Nitrophenol (ug/L) NL	Acenaphthene (ug/L) 640	Acenaphthylene (ug/L) NL	Anthracene (ug/L) 26000	Benzo(g,h,i)perylene (ug/L) NL	Benzoic acid (ug/L) NL	Benzyl alcohol (ug/L) NL	Bis(2-chloro-1-methylethyl) ether (ug/L) 37	bis(2-Chloroethoxy)methane (ug/L) NL	bis(2-Chloroethyl)ether* (ug/L) 1	bis(2-Chloroisopropyl)ether (ug/L) 42000	bis(2-Ethylhexyl)phthalate* (ug/L) 2.2	Butylbenzylphthalate (ug/L) 1300	Carbazole (ug/L) NL	Diethylphthalate (ug/L) 28000	Di-n-butylphthalate (ug/L) 2900	Di-n-octylphthalate (ug/L) NL	Diallate-Isomer 1 (ug/L) NL	Dibenzofuran (ug/L) NL	
Funct. Area	Loc ID	Date	Sample ID																									
East Former Mill	PZ-10	8/27/1997	97-15175-T609I	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
East Former Mill	PZ-10	2/22/2001	01-2350-CU21H	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
East Former Mill	PZ-10	8/22/2001	DN25D	2 U	3 U	1 U	---	5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	10 U	5 U	1 U	1 U	2 U	---	5.8 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
East Former Mill	PZ-10	12/13/2002	02-18587-FB89O	2.2 U	3.3 U	1.1 U	---	5.6 U	5.6 U	0.11 U	0.11 U	0.11 U	0.11 U	56 U	5.6 U	1.1 U	1.1 U	2.2 U	---	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.6 U	1.1 U	
East Former Mill	PZ-10	6/19/2003	K2304594-001	0.49 U	0.2 U	0.2 U	0.49 U	0.97 U	2 U	0.02 U	0.02 U	0.02 U	0.015 J	4.9 U	4.9 U	---	0.2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.027 J	0.058 J	0.39 U	---	---	
East Former Mill	PZ-10	8/26/2010	PZ-10_100826	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
East Former Mill	PZ-13	2/14/1997	97-2100-R661A	2 U	3 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
East Former Mill	PZ-13	8/27/1997	97-15174-T609H	2 U	3 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	2 U	---	4	1 U	1 U	1 U	1 U	1 U	---	1 U	
East Shoreline	MW-59	12/13/2002	02-18592-FB89T	2.1 U	3.1 U	1 U	---	5.2 U	5.2 U	0.1 U	0.1 U	0.1 U	0.1 U	52 U	5.2 U	1 U	1 U	2.1 U	---	4.7	1 U	1 U	1 U	1 U	1 U	5.2 U	1 U	
East Shoreline	MW-59	6/19/2003	K2304594-006	0.48 U	0.19 U	0.19 U	0.48 U	0.95 U	1.9 U	0.022	0.02 U	0.0093 J	0.0074 J	4.8 U	4.8 U	---	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.036 J	0.094 J	0.38 U	---	---	
East Shoreline	MW-59	8/27/2010	MW-59_100827	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
East Shoreline	MW-59	11/10/2010	MW-59_101110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
East Shoreline	MW-59	2/10/2011	MW-59_110210	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
East Shoreline	PZ-9	2/14/1997	97-2101-R661B	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	2 U	---	2.2 J	1 U	1 U	1 U	1 U	1 U	---	1 U	
East Shoreline	PZ-9	8/27/1997	97-15176-T609J	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
East Shoreline	PZ-9	11/5/1997	97454185	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10 U	---	10 U	---	---	---	---	---	
East Shoreline	PZ-9	11/5/1997	97454185-1	---	---	---	---	---	---	10 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
East Shoreline	PZ-9	2/22/2001	01-2369-CU22G	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
East Shoreline	PZ-9	8/21/2001	PZ-9_010821	2 U	2 U	1 U	1 U	5 U	5 U	0.12	0.1 U	---	0.1 U	10 U	5 U	1 U	1 U	2 U	---	35	1 U	1 U	1 U	1 U	1 U	---	1 U	
East Shoreline	PZ-9	12/13/2002	02-18586-FB89N	2.1 U	3.2 U	1.1 U	---	5.3 U	5.3 U	0.11 U	0.11 U	0.11 U	0.11 U	53 U	5.3 U	1.1 U	1.1 U	2.1 U	---	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.3 U	1.1 U	
East Shoreline	PZ-9	6/19/2003	K2304594-005	0.48 U	0.2 U	0.2 U	0.48 U	0.96 U	2 U	0.046	0.02 U	0.003 J	0.004 J	4.8 U	4.8 U	---	0.2 U	0.2 U	0.2 U	2 U	0.2 U	0.021 J	0.037 J	0.047 J	0.39 U	---	---	
East Shoreline	PZ-9	6/19/2003	K2304594-007	0.48 U	0.2 U	0.2 U	0.48 U	0.96 U	2 U	0.045	0.02 U	0.0034 J	0.002 U	4.8 U	4.8 U	---	0.2 U	0.2 U	0.2 U	2 U	0.2 U	0.065 J	0.082 J	0.39 U	---	---		
East Shoreline	PZ-9	8/26/2010	DUP-082610	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
East Shoreline	PZ-9	8/26/2010	PZ-9_100826	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
East Shoreline	PZ-9	11/10/2010	PZ-9_101110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
East Shoreline	PZ-9	2/8/2011	PZ-9_110208	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
Ennis Creek	PZ-5	2/13/1997	97-1959-R652D	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	2 U	---	2.2 J	1 U	1 U	1 U	1 U	1 U	---	1 U	
Ennis Creek	PZ-5	8/28/1997	97-15169-T609C	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
Ennis Creek	PZ-5	2/22/2001	01-2366-CU22D	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
Ennis Creek	PZ-5	8/21/2001	DN18G	2 U	3 U	1 U	---	5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	10 U	5 U	1 U	1 U	2 U	---	3.4 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
Ennis Creek	PZ-5	12/12/2002	02-18578-FB89F	2 U	3 U	1 U	---	5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	50 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

MTCA Method B GW Protective of				4-Chloro-3-methylphenol (ug/L) NL	4-Chloroaniline (ug/L) NL	4-Chlorophenyl-phenylether (ug/L) NL	4-Methylphenol (ug/L) NL	4-Nitroaniline (ug/L) NL	4-Nitrophenol (ug/L) NL	Acenaphthene (ug/L) 640	Acenaphthylene (ug/L) NL	Anthracene (ug/L) 26000	Benzo(g,h,i)perylene (ug/L) NL	Benzoic acid (ug/L) NL	Benzyl alcohol (ug/L) NL	Bis(2-chloro-1-methylethyl) ether (ug/L) 37	bis(2-Chloroethoxy)methane (ug/L) NL	bis(2-Chloroethyl)ether* (ug/L) 1	bis(2-Chloroisopropyl)ether (ug/L) 42000	bis(2-Ethylhexyl)phthalate* (ug/L) 2.2	Butylbenzylphthalate (ug/L) 1300	Carbazole (ug/L) NL	Diethylphthalate (ug/L) 28000	Di-n-butylphthalate (ug/L) 2900	Di-n-octylphthalate (ug/L) NL	Diallate-Isomer 1 (ug/L) NL	Dibenzofuran (ug/L) NL	
Funct. Area	Loc ID	Date	Sample ID																									
Ennis Creek	PZ-5	6/18/2003	K2304556-001	0.48 U	0.2 U	0.2 U	0.48 U	0.96 U	2 U	0.02 U	0.02 U	0.02 U	0.02 U	4.8 U	4.8 U	---	0.2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.027 J	0.056 J	0.39 U	---	---	
Ennis Creek	PZ-5	8/27/2010	PZ-5_100827	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
Ennis Creek	PZ-6	2/13/1997	97-1958-R652C	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1.7 J	1 U	1 U	1 U	1 U	1 U	---	1 U	
Ennis Creek	PZ-6	8/28/1997	97-15168-T609B	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
Ennis Creek	PZ-6	2/22/2001	01-2346-CU21D	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
Ennis Creek	PZ-6	8/23/2001	01-14634-DN28B	2 U	3 U	1 U	---	5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	10 U	5 U	1 U	1 U	2 U	---	1.9 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	
Ennis Creek	PZ-6	12/11/2002	02-18573-FB89A	2 U	3 U	1 U	---	5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	50 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	
Ennis Creek	PZ-6	6/18/2003	K2304556-005	0.49 U	0.2 U	0.2 U	0.49 U	0.98 U	2 U	0.02 U	0.02 U	0.02 U	0.0056 J	4.9 U	4.9 U	---	0.2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.031 J	0.056 J	0.39 U	---	---	
Ennis Creek	PZ-6	8/27/2010	PZ-6_100827	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
Estuary	FR-1	2/22/2001	01-2367-CU22E	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
Estuary	FR-1	8/22/2001	DN25B	2 U	3 U	1 U	---	5 U	5 U	0.24	0.1 U	0.1 U	0.1 U	10 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
Estuary	MW-62	11/9/2010	MW-62_101109	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
Estuary	MW-62	2/10/2011	MW-62_110210	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
Main Former Mill	GWG-1	11/4/2010	GWG-1-W	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
Main Former Mill	MW-58	12/13/2002	02-18591-FB89S	2.3 U	3.4 U	1.1 U	---	5.7 U	5.7 U	0.36	0.11 U	0.11 U	0.11 U	57 U	5.7 U	1.1 U	1.1 U	2.3 U	---	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.7 U	1.1 U	
Main Former Mill	MW-58	6/18/2003	K2304556-002	0.037 J	0.2 U	0.2 U	0.49 U	0.97 U	2 U	0.37	0.0033 J	0.006 J	0.02 U	4.9 U	4.9 U	---	0.2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.057 J	0.15 J	0.39 U	---	---	
Main Former Mill	MW-58	8/27/2010	MW-58_100827	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
Main Former Mill	MW-58	2/11/2011	MW-58_110211	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
Main Former Mill	MW-65	3/11/2011	MW-65-110311-W	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	MW-65	5/18/2011	MW-65-110518	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	
Main Former Mill	MW-66	3/11/2011	MW-66-110311-W	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	MW-66	5/18/2011	MW-66-110518	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	
Main Former Mill	MW-69	5/18/2011	MW-69-110518	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.1 U	---	---	---	---	---	---	
Main Former Mill	PA-17	2/11/2011	PA-17_110211	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	
Main Former Mill	PIPE-1-SR23	1/7/2011	PIPE-1-SR23	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
Main Former Mill	PZ-4	2/13/1997	97-1960-R652E	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
Main Former Mill	PZ-4	8/27/1997	97-15173-T609G	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
Main Former Mill	PZ-4	11/5/1997	97454184	---	---	---	---	---	---	10 U	---	---	---	---	---	---	---	---	---	---	10 U	---	---	---	---	---	---	
Main Former Mill	PZ-4	2/22/2001	01-2363-CU22A	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
Main Former Mill	PZ-4	8/21/2001	DN18F	2 U	3 U	1 U	---	5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	10 U	5 U	1 U	1 U	2 U	---	1.1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
Main Former Mill	PZ-4	12/12/2002	02-18577-FB89E	2.5 U	3.8 U	1.2 U	---	6.2 U	6.2 U	0.12 U	0.12 U	0.12 U	0.12 U	62 U	6.2 U	1.2 U	1.2 U	2.5 U	---	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.2 U	1.2 U	

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

MTCA Method B GW Protective of				4-Chloro-3-methylphenol (ug/L) NL	4-Chloroaniline (ug/L) NL	4-Chlorophenyl-phenylether (ug/L) NL	4-Methylphenol (ug/L) NL	4-Nitroaniline (ug/L) NL	4-Nitrophenol (ug/L) NL	Acenaphthene (ug/L) 640	Acenaphthylene (ug/L) NL	Anthracene (ug/L) 26000	Benzo(g,h,i)perylene (ug/L) NL	Benzoic acid (ug/L) NL	Benzyl alcohol (ug/L) NL	Bis(2-chloro-1-methylethyl) ether (ug/L) 37	bis(2-Chloroethoxy)methane (ug/L) NL	bis(2-Chloroethyl)ether* (ug/L) 1	bis(2-Chloroisopropyl)ether (ug/L) 42000	bis(2-Ethylhexyl)phthalate* (ug/L) 2.2	Butylbenzylphthalate (ug/L) 1300	Carbazole (ug/L) NL	Diethylphthalate (ug/L) 28000	Di-n-butylphthalate (ug/L) 2900	Di-n-octylphthalate (ug/L) NL	Diallate-Isomer 1 (ug/L) NL	Dibenzofuran (ug/L) NL	
Funct. Area	Loc ID	Date	Sample ID																									
Main Former Mill	PZ-4	6/17/2003	K2304497-004	0.029 U	0.018 U	0.0085 U	0.051 U	0.17 U	0.54 U	0.0024 J	0.0018 U	0.0016 J	0.0037 U	1.8 U	0.98 U	---	0.012 U	0.015 U	0.017 U	0.27 U	0.026 U	0.013 U	0.037 J	0.055 J	0.032 U	---	---	
Main Former Mill	PZ-4	8/25/2010	PZ-4_100825	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
North Shoreline	MW-51	8/4/1998	98-15871-Y129C	2 U	3 U	1 U	1 U	10 U	5 U	4	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	2.6	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U
North Shoreline	MW-51	2/22/2001	01-2351-CU21I	2 U	3 U	1 U	1 U	10 U	5 U	4.8	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U
North Shoreline	MW-51	8/21/2001	DN18C	2 U	3 U	1 U	---	5 U	5 U	5.7	0.1 U	0.1	0.1 U	10 U	5 U	1 U	1 U	2 U	---	15 U	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U
North Shoreline	MW-51	12/12/2002	02-18580-FB89H	2.2 U	3.3 U	1.1 U	---	5.4 U	5.4 U	5.4	0.11 U	0.11	0.11 U	54 U	5.4 U	1.1 U	1.1 U	2.2 U	---	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.4 U	1.1 U	
North Shoreline	MW-51	6/18/2003	K2304556-003	0.48 U	0.19 U	0.19 U	0.48 U	0.95 U	1.9 U	5	0.032	0.072	0.02 U	4.8 U	4.8 U	---	0.19 U	0.19 U	0.19 U	0.33 J	0.19 U	0.063 J	0.047 J	0.067 J	0.38 U	---	---	
North Shoreline	MW-51	8/26/2010	MW-51_100826	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1.3	---	---	---	---	---	---	---	
North Shoreline	MW-51	11/10/2010	MW-51_101110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
North Shoreline	MW-51	2/11/2011	MW-51_110211	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
North Shoreline	MW-51	5/19/2011	MW-51-110519	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
North Shoreline	MW-56	2/22/2001	01-2365-CU22C	2 U	3 U	1 U	16	10 U	5 U	1 U	1 U	1 U	1 U	13	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1.4	1 U	---	1 U	
North Shoreline	MW-56	8/22/2001	DN25E	2 U	3 U	1 U	---	5 U	5 U	0.1 J	0.1 U	0.12 J	0.1 U	23	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U
North Shoreline	MW-56	12/12/2002	02-18585-FB89M	2 U	3.1 U	1 U	---	5.1 U	5.1 U	0.1 U	0.1 U	0.1 U	0.1 U	51 U	5.1 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5.1 U	1 U	
North Shoreline	MW-56	6/19/2003	K2304594-008	0.48 U	0.19 U	0.19 U	10	0.95 U	1.9 U	0.049	0.0051 J	0.013 J	0.02 U	9.2	4.8 U	---	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	---	---	
North Shoreline	MW-56	8/26/2010	MW-56_100826	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
North Shoreline	MW-56	11/9/2010	MW-56_101109	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
North Shoreline	MW-56	2/11/2011	MW-56_110211	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
NW Shoreline	MW-28	8/25/2010	MW-28_100825	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
NW Shoreline	MW-28	11/10/2010	MW-28_101110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
NW Shoreline	MW-28	2/8/2011	MW-28_110208	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
NW Shoreline	MW-28	5/20/2011	MW-28-110520	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NW Shoreline	MW-52	8/4/1998	98-15869-Y129A	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	4.5	1 U	1 U	1 U	1.3	1 U	---	1 U	
NW Shoreline	MW-52	2/22/2001	01-2368-CU22F	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
NW Shoreline	MW-52	8/22/2001	DN25G	2 U	3 U	1 U	---	5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	10 U	5 U	1 U	1 U	2 U	---	2.2 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
NW Shoreline	MW-52	12/12/2002	02-18581-FB89I	2.2 U	3.3 U	1.1 U	---	5.6 U	5.6 U	0.11 U	0.11 U	0.11 U	0.11 U	56 U	5.6 U	1.1 U	1.1 U	2.2 U	---	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.6 U	1.1 U	
NW Shoreline	MW-52	6/16/2003	K2304466-002	0.48 U	0.2 U	0.2 U	0.48 U	0.96 U	2 U	0.02 U	0.02 U	0.02 U	0.02 U	4.8 U	4.8 U	---	0.2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.026 J	0.03 J	0.39 U	---	---	
NW Shoreline	MW-52	8/25/2010	MW-52_100825	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
NW Shoreline	MW-52	11/8/2010	MW-52_101108	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
NW Shoreline	MW-52	2/9/2011	MW-52_110209	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
NW Shoreline	MW-53	2/21/2001	01-2275-CU06A	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

MTC A Method B GW Protective of				4-Chloro-3-methylphenol (ug/L) NL	4-Chloroaniline (ug/L) NL	4-Chlorophenyl-phenylether (ug/L) NL	4-Methylphenol (ug/L) NL	4-Nitroaniline (ug/L) NL	4-Nitrophenol (ug/L) NL	Acenaphthene (ug/L) 640	Acenaphthylene (ug/L) NL	Anthracene (ug/L) 26000	Benzo(g,h,i)perylene (ug/L) NL	Benzoic acid (ug/L) NL	Benzyl alcohol (ug/L) NL	Bis(2-chloro-1-methylethyl) ether (ug/L) 37	bis(2-Chloroethoxy)methane (ug/L) NL	bis(2-Chloroethyl)ether* (ug/L) 1	bis(2-Chloroisopropyl)ether (ug/L) 42000	bis(2-Ethylhexyl)phthalate* (ug/L) 2.2	Butylbenzylphthalate (ug/L) 1300	Carbazole (ug/L) NL	Diethylphthalate (ug/L) 28000	Di-n-butylphthalate (ug/L) 2900	Di-n-octylphthalate (ug/L) NL	Diallate-Isomer 1 (ug/L) NL	Dibenzofuran (ug/L) NL	
Funct. Area	Loc ID	Date	Sample ID																									
NW Shoreline	MW-53	8/21/2001	DN18A	2 U	3 U	1 U	---	5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	10 U	5 U	1 U	1 U	2 U	---	3.9 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
NW Shoreline	MW-53	12/12/2002	02-18582-FB89J	2.2 U	3.3 U	1.1 U	---	5.6 U	5.6 U	0.11 U	0.11 U	0.11 U	0.11 U	56 U	5.6 U	1.1 U	1.1 U	2.2 U	---	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.6 U	1.1 U	
NW Shoreline	MW-53	6/16/2003	K2304466-003	0.48 U	0.2 U	0.2 U	0.48 U	0.96 U	2 U	0.02 U	0.02 U	0.0012 J	0.02 U	4.8 U	4.8 U	---	0.2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.035 J	0.037 J	0.39 U	---	---	
NW Shoreline	MW-53	8/26/2010	MW-53_100826	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
NW Shoreline	MW-53	2/11/2011	MW-53_110211	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
NW Shoreline	MW-61	11/11/2010	MW-61_101111	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
NW Shoreline	MW-61	2/11/2011	MW-61_110211	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.4	---	---	---	---	---	---	---	
NW Shoreline	MW-67	3/11/2011	MW-67-110311-W	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NW Shoreline	MW-67	5/18/2011	MW-67-110518	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
NW Shoreline	PZ-1	8/22/2001	DN25C	2 U	3 U	1 U	---	5 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	10 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
NW Shoreline	PZ-2	2/13/1997	97-1957-R652B	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	3.1 J	1 U	1 U	1 U	1 U	1 U	---	1 U	
NW Shoreline	PZ-2	8/27/1997	97-15172-T609F	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
NW Shoreline	PZ-2	11/5/1997	97454182	---	---	---	---	---	---	10 U	---	---	---	---	---	---	---	---	---	10 U	---	10 U	---	---	---	---	---	
NW Shoreline	PZ-2	8/25/2010	PZ-2_100825	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	
NW Shoreline	PZ-2	11/11/2010	PZ-2_101111	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
NW Shoreline	PZ-2	2/7/2011	PZ-2_110207	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
Prefab	PZ-7	2/14/1997	97-2102-R661C	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	3.4 J	1 U	1 U	1 U	1 U	1 U	---	1 U	
Prefab	PZ-7	8/27/1997	97-15177-T609K	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
Prefab	PZ-7	11/5/1997	97454189	---	---	---	---	---	---	10 U	---	---	---	---	---	---	---	---	---	10 U	---	10 U	---	---	---	---	---	
Prefab	PZ-7	2/22/2001	01-2347-CU21E	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1	1 U	---	1 U	
Prefab	PZ-7	12/12/2002	02-18579-FB89G	2.6 U	3.8 U	1.3 U	---	6.4 U	6.4 U	0.13 U	0.13 U	0.13 U	0.13 U	64 U	6.4 U	1.3 U	1.3 U	2.6 U	---	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.4 U	1.3 U	
Prefab	PZ-7	8/27/2010	PZ-7_100827	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1.2	---	---	---	---	---	---	---	
Prefab	PZ-7	11/10/2010	PZ-7_101110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.2	---	---	---	---	---	---	---	
Prefab	PZ-7	2/8/2011	PZ-7_110208	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
Prefab	PZ-7	5/17/2011	PZ-07-110517	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
West Former Mill	MW-19	2/22/2001	01-2345-CU21C	2 U	3 U	1 U	1 U	10 U	5 U	46	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
West Former Mill	MW-19	8/22/2001	DN25I	2 U	3 U	1 U	---	5 U	5 U	44	0.39	0.1 U	0.1 U	10 U	5 U	1 U	1 U	2 U	---	1.5 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
West Former Mill	MW-20	9/2/1997	97-15361-T609N	2 U	3 U	1 U	1 U	10 U	5 U	3.7	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
West Former Mill	MW-23	10/15/1997	97-19428-U167A	2 U	3 U	1 U	1 U	10 U	5 U	27	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1.8	1 U	1 U	1 U	---	2	
West Former Mill	MW-23	2/22/2001	01-2364-CU22B	2 U	3 U	1 U	1 U	10 U	5 U	9.8 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	4.6	1 U	1 U	1 U	---	1.4	
West Former Mill	MW-23	8/21/2001	DN18E	2 U	3 U	1 U	---	5 U	5 U	9.8	0.1 U	0.21	0.1 U	10 U	5 U	1 U	1 U	2 U	---	1.8 U	1 U	1 U	1 U	1 U	1 U	---	1.3	

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

MTCA Method B GW Protective of				4-Chloro-3-methylphenol (ug/L) NL	4-Chloroaniline (ug/L) NL	4-Chlorophenyl-phenylether (ug/L) NL	4-Methylphenol (ug/L) NL	4-Nitroaniline (ug/L) NL	4-Nitrophenol (ug/L) NL	Acenaphthene (ug/L) 640	Acenaphthylene (ug/L) NL	Anthracene (ug/L) 26000	Benzo(g,h,i)perylene (ug/L) NL	Benzoic acid (ug/L) NL	Benzyl alcohol (ug/L) NL	Bis(2-chloro-1-methylethyl) ether (ug/L) 37	bis(2-Chloroethoxy)methane (ug/L) NL	bis(2-Chloroethyl)ether* (ug/L) 1	bis(2-Chloroisopropyl)ether (ug/L) 42000	bis(2-Ethylhexyl)phthalate* (ug/L) 2.2	Butylbenzylphthalate (ug/L) 1300	Carbazole (ug/L) NL	Diethylphthalate (ug/L) 28000	Di-n-butylphthalate (ug/L) 2900	Di-n-octylphthalate (ug/L) NL	Diallate-Isomer 1 (ug/L) NL	Dibenzofuran (ug/L) NL	
Funct. Area	Loc ID	Date	Sample ID																									
West Former Mill	MW-23	12/13/2002	02-18589-FB89Q	2 U	3 U	1 U	---	5 U	5 U	2.4	0.12 J	0.27	0.1 U	50 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U
West Former Mill	MW-23	6/16/2003	K2304466-001	0.48 U	0.2 U	0.2 U	0.31 J	0.96 U	2 U	2.6	0.02 U	0.14	0.02 U	4.8 U	4.8 U	---	0.2 U	0.2 U	0.2 U	2 U	0.2 U	0.98	0.049 J	0.052 J	0.39 U	---	---	
West Former Mill	MW-23	8/25/2010	MW-23_100825	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	---
West Former Mill	MW-23	11/10/2010	MW-23_101110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-23	2/9/2011	MW-23_110209	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-23	5/19/2011	MW-23-110519	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-29	9/2/1997	97-15362-T609O	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
West Former Mill	MW-29	6/17/2003	K2304497-006	0.029 U	0.018 U	0.0085 U	0.63	0.17 U	0.54 U	0.043	0.0034 J	0.0028 J	0.0037 U	1.8 U	0.98 U	---	0.012 U	0.015 U	0.017 U	0.27 U	0.026 U	0.013 U	0.092 J	0.059 J	0.032 U	---	---	
West Former Mill	MW-29	8/25/2010	MW-29_100825	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	4.9	---	---	---	---	---	---	---	---
West Former Mill	MW-29	11/11/2010	MW-29_101111	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	---
West Former Mill	MW-29	2/8/2011	MW-29_110208	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	---
West Former Mill	MW-29	5/20/2011	MW-29-110520	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	---
West Former Mill	MW-54	2/21/2001	01-2276-CU06B	2 U	3 U	1 U	1 U	10 U	5 U	14	1 U	1 U	1 U	1 U	62	5 U	1 U	4 U	---	1 U	1 U	1.8	1 U	1 J	1 U	---	5.4	
West Former Mill	MW-54	8/22/2001	DN25H	2 U	3 U	1 U	---	5 U	5 U	3.8	0.1 U	0.22	0.1 U	10 U	5 U	1 U	1 U	2 U	---	1.9 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
West Former Mill	MW-54	12/12/2002	02-18583-FB89K	2.1 U	3.1 U	1 U	---	5.2 U	5.2 U	0.1 U	0.1 U	0.1 U	0.1 U	52 U	5.2 U	1 U	1 U	2.1 U	---	1 U	1 U	1 U	1.1	1 U	1 U	5.2 U	1 U	
West Former Mill	MW-54	6/17/2003	K2304497-001	0.095 J	0.018 U	0.0085 U	0.051 U	0.17 U	0.54 U	0.034	0.0018 U	0.015 J	0.0069 J	1.8 U	0.98 U	---	0.012 U	0.015 U	0.017 U	0.27 U	0.026 U	0.013 U	0.041 J	0.058 J	0.032 U	---	---	
West Former Mill	MW-54	8/26/2010	MW-54_100826	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	---
West Former Mill	MW-54	11/11/2010	MW-54_101111	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-54	2/10/2011	MW-54_110210	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.4	---	---	---	---	---	---	---	---
West Former Mill	MW-54	5/18/2011	MW-54-110518	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-55	2/21/2001	01-2277-CU06C	2 U	3 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
West Former Mill	MW-55	8/22/2001	DN25F	2 U	3 U	1 U	---	5 U	5 U	0.17	0.1 U	0.1 U	0.1 U	10 U	5 U	1 U	1 U	2 U	---	7 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
West Former Mill	MW-55	12/12/2002	02-18584-FB89L	2.1 U	3.2 U	1.1 U	---	5.3 U	5.3 U	0.11 U	0.11 U	0.11 U	0.11 U	53 U	5.3 U	1.1 U	1.1 U	2.1 U	---	3	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.3 U	1.1 U
West Former Mill	MW-55	6/18/2003	K2304556-004	0.48 U	0.19 U	0.19 U	0.48 U	0.95 U	1.9 U	0.0092 J	0.0022 J	0.0045 J	0.017 J	4.8 U	4.8 U	---	0.19 U	0.19 U	0.19 U	0.77 J	0.19 U	0.19 U	0.036 J	0.063 J	0.38 U	---	---	
West Former Mill	MW-55	8/26/2010	MW-55_100826	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	---
West Former Mill	MW-55	11/8/2010	MW-55_101108	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	---
West Former Mill	MW-55	2/10/2011	MW-55_110210	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	---
West Former Mill	MW-57	12/13/2002	02-18590-FB89R	2.2 U	3.3 U	1.1 U	---	5.4 U	5.4 U	0.17	0.11 U	0.11 U	0.11 U	54 U	5.4 U	1.1 U	1.1 U	2.2 U	---	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.4 U	1.1 U	
West Former Mill	MW-57	6/17/2003	K2304497-007	0.029 U	0.018 U	0.0085 U	0.051 U	0.17 U	0.54 U	0.51	0.011 J	0.002 J	0.0037 U	1.8 U	0.98 U	---	0.012 U	0.015 U	0.017 U	0.27 U	0.026 U	0.06 J	0.044 J	0.13 J	0.032 U	---	---	
West Former Mill	MW-57	8/26/2010	MW-57_100826	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	1 U	---	---	---	---	---	---	---	---
West Former Mill	MW-60	11/11/2010	MW-60_101111	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.6	---	---	---	---	---	---	---	---
West Former Mill	MW-60	2/9/2011	MW-60_110209	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	---

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Para MTCA Method B GW Protective of				4-Chloro-3-methylphenol (ug/L) NL	4-Chloroaniline (ug/L) NL	4-Chlorophenyl-phenylether (ug/L) NL	4-Methylphenol (ug/L) NL	4-Nitroaniline (ug/L) NL	4-Nitrophenol (ug/L) NL	Acenaphthene (ug/L) 640	Acenaphthylene (ug/L) NL	Anthracene (ug/L) 26000	Benzo(g,h,i)perylene (ug/L) NL	Benzoic acid (ug/L) NL	Benzyl alcohol (ug/L) NL	Bis(2-chloro-1-methylethyl) ether (ug/L) 37	bis(2-Chloroethoxy)methane (ug/L) NL	bis(2-Chloroethyl)ether* (ug/L) 1	bis(2-Chloroisopropyl)ether (ug/L) 42000	bis(2-Ethylhexyl)phthalate* (ug/L) 2.2	Butylbenzylphthalate (ug/L) 1300	Carbazole (ug/L) NL	Diethylphthalate (ug/L) 28000	Di-n-butylphthalate (ug/L) 2900	Di-n-octylphthalate (ug/L) NL	Diallate-Isomer 1 (ug/L) NL	Dibenzofuran (ug/L) NL	
Funct. Area	Loc ID	Date	Sample ID																									
West Former Mill	MW-60	5/19/2011	MW-60-110519	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-68	6/7/2011	MW-68-110607	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2.3	---	---	---	---	---	---	---	---
West Former Mill	PZ-3	2/14/1997	97-2104-R661E	2 U	3 U	1 U	1 U	10 U	5 U	27	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	6.8	1 U	1 U	1 U	---	1 U	
West Former Mill	PZ-3	8/28/1997	97-15167-T609A	2 U	3 U	1 U	1 U	10 U	5 U	22	1 U	1 U	1 U	10 U	5 U	1 U	1 U	4 U	---	1 U	1 U	6.7	1 U	1 U	1 U	---	1.2	
West Former Mill	PZ-3	11/5/1997	97454183	---	---	---	---	---	---	25	---	---	---	---	---	---	---	---	---	10 U	---	7 J	---	---	---	---	---	
West Former Mill	PZ-3	2/22/2001	CU21A	2 U	3 U	1 U	---	5 U	5 U	29	1 U	1 U	1 U	10 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1.4	1 U	---	1 U	
West Former Mill	PZ-3	8/21/2001	DN18B	2 U	3 U	1 U	---	5 U	5 U	0.1 U	0.1 U	21	0.82	10 U	5 U	1 U	1 U	2 U	---	4.9 U	1 U	1 U	1 U	1 U	1 U	---	1 U	
West Former Mill	PZ-3	12/12/2002	02-18576-FB89D	2 U	3 U	1 U	---	5 U	5 U	17	0.1 U	0.15	0.1 U	50 U	5 U	1 U	1 U	2 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	
West Former Mill	PZ-3	6/17/2003	K2304497-002	0.088 J	0.018 U	0.0085 U	0.051 U	0.17 U	0.54 U	18 J	0.17	0.15	0.0073 J	1.8 U	0.98 U	---	0.012 U	0.015 U	0.017 U	0.27 U	0.026 U	0.21	0.037 J	0.06 J	0.032 U	---	---	
West Former Mill	PZ-3	8/26/2010	PZ-3_100826	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	1 U	---	2.3	---	---	---	---	---	---	---	
West Former Mill	PZ-3	11/9/2010	PZ-3_101109	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
West Former Mill	PZ-3	2/10/2011	PZ-3_110210	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
West Former Mill	PZ-3	5/19/2011	PZ-03-110519	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Para				Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Isodrin	Isophorone	Naphthalene	Nitrobenzene	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Pentachlorophenol*	Phenanthrene	Phenol	Pyrene
MTCA Method B GW Protective of				(ug/L) 72000	(ug/L) 90	(ug/L) 3500	(ug/L) 0.00083	(ug/L) 18	(ug/L) 1100	(ug/L) 3.3	(ug/L) NL	(ug/L) 600	(ug/L) 4900	(ug/L) 450	(ug/L) 1	(ug/L) 6	(ug/L) 3	(ug/L) NL	(ug/L) 1.1e+006	(ug/L) 2600
Funct. Area	Loc ID	Date	Sample ID																	
City Purchase	GWG-8	10/28/2010	GWG-8-W	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---
City Purchase	PA-19	8/26/2010	PA-19_100826	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 U	0.71	---	---	0.16 J
City Purchase	PA-19	11/11/2010	PA-19_101111	---	---	---	---	---	---	---	---	---	---	---	---	---	0.46	---	---	0.012
City Purchase	PA-19	2/9/2011	PA-19_110209	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	---	---	0.022 J
City Purchase	PA-19	2/9/2011	PA-19_110209D	---	---	---	---	---	---	---	---	---	---	---	---	---	0.26	---	---	0.01 UJ
City Purchase	PZ-11	2/14/1997	97-2103-R661D	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
City Purchase	PZ-11	8/28/1997	97-15170-T609D	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
City Purchase	PZ-11	11/6/1997	97454188	---	10 U	10 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---
City Purchase	PZ-11	2/22/2001	01-2349-CU21G	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
City Purchase	PZ-11	8/23/2001	01-14633-DN28A	1 U	0.1 U	0.1 U	---	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.1 U
City Purchase	PZ-11	12/11/2002	02-18574-FB89B	1 U	0.1 U	0.1 U	---	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.1 U
City Purchase	PZ-11	6/19/2003	K2304594-002	0.19 U	0.0032 J	0.02 U	---	0.19 U	0.95 U	0.19 U	---	0.19 U	0.0032 J	0.19 U	0.19 U	0.19 U	0.18 J	0.0037 J	0.067 J	0.0043 J
City Purchase	PZ-11	8/27/2010	PZ-11_100827	---	---	---	---	---	---	1 UJ	---	---	---	---	1 UJ	5 U	0.25 U	---	---	0.017 J
City Purchase	PZ-11	11/9/2010	PZ-11_101109	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
City Purchase	PZ-12	2/28/1997	97-2822-R796B	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
City Purchase	PZ-12	8/28/1997	97-15171-T609E	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
City Purchase	PZ-12	11/6/1997	97454187	---	10 U	10 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---
City Purchase	PZ-12	2/22/2001	01-2348-CU21F	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	2 U	1 U	5 U	1 U	2 U	1 U
City Purchase	PZ-12	8/21/2001	DN18H	1 U	0.1 U	0.1 U	1 U	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.1 U
City Purchase	PZ-12	12/11/2002	02-18575-FB89C	1 U	0.1 U	0.1 U	---	2 U	5.1 U	2 U	5.1 U	1 U	0.1 U	1 U	2 U	1 U	5.1 U	0.1 U	2 U	0.1 U
City Purchase	PZ-12	6/19/2003	K2304594-003	0.2 U	0.02 U	0.02 U	---	0.2 U	0.96 U	0.2 U	---	0.2 U	0.0035 J	0.2 U	0.2 U	0.2 U	0.05 J	0.02 U	0.028 J	0.02 U
City Purchase	PZ-12	8/27/2010	PZ-12_100827	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 UJ	0.25 U	---	---	0.01 U
City Purchase	PZ-12	11/9/2010	PZ-12_101109	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
CSO	GWG-6	11/2/2010	GWG-6-W	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---
CSO	MW-70	5/18/2011	MW-70-110518	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---
CSO	MW-70	5/18/2011	MW-70-110518D	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---
CSO	PA-15	11/9/2010	PA-15_101109	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.01 U
East Former Mill	GWG-7	11/3/2010	GWG-7-W	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---
East Former Mill	PA-24	11/9/2010	PA-24_101109	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.018 U
East Former Mill	PA-24	2/10/2011	PA-24_110210	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.01 U
East Former Mill	PZ-10	2/28/1997	97-2821-R796A	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	2 U	1 U	5 U	1 U	2 U	1 U

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

				Dimethylphthalate (ug/L) 72000	Fluoranthene (ug/L) 90	Fluorene (ug/L) 3500	Hexachlorobenzene (ug/L) 0.00083	Hexachlorobutadiene (ug/L) 18	Hexachlorocyclopentadiene (ug/L) 1100	Hexachloroethane (ug/L) 3.3	Isodrin (ug/L) NL	Isophorone (ug/L) 600	Naphthalene (ug/L) 4900	Nitrobenzene (ug/L) 450	N-Nitroso-di-n-propylamine (ug/L) 1	N-Nitrosodiphenylamine (ug/L) 6	Pentachlorophenol* (ug/L) 3	Phenanthrene (ug/L) NL	Phenol (ug/L) 1.1e+006	Pyrene (ug/L) 2600
Funct. Area	Loc ID	Date	Sample ID	MTCA Method B GW Protective of																
East Former Mill	PZ-10	8/27/1997	97-15175-T609I	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
East Former Mill	PZ-10	2/22/2001	01-2350-CU21H	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
East Former Mill	PZ-10	8/22/2001	DN25D	1 U	0.1 U	0.1 U	1 U	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.1 U
East Former Mill	PZ-10	12/13/2002	02-18587-FB89O	1.1 U	0.11 U	0.11 U	---	2.2 U	5.6 U	2.2 U	5.6 U	1.1 U	0.11 U	1.1 U	2.2 U	1.1 U	5.6 U	0.11 U	2.2 U	0.11 U
East Former Mill	PZ-10	6/19/2003	K2304594-001	0.2 U	0.02 U	0.02 U	---	0.2 U	0.97 U	0.2 U	---	0.2 U	0.02 U	0.2 U	0.2 U	0.2 U	0.97 U	0.02 U	0.034 J	0.02 U
East Former Mill	PZ-10	8/26/2010	PZ-10_100826	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 UJ	0.25 U	---	---	0.01 U
East Former Mill	PZ-13	2/14/1997	97-2100-R661A	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	2 U	1 U	5 U	1 U	2 U	1 U
East Former Mill	PZ-13	8/27/1997	97-15174-T609H	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	2 U	1 U	5 U	1 U	2 U	1 U
East Shoreline	MW-59	12/13/2002	02-18592-FB89T	1 U	0.12	0.1 U	---	2.1 U	5.2 U	2.1 U	5.2 U	1 U	0.1 U	1 U	2.1 U	1 U	5.2 U	0.1 U	2.1 U	0.14
East Shoreline	MW-59	6/19/2003	K2304594-006	0.19 U	0.12	0.0085 J	---	0.19 U	0.95 U	0.19 U	---	0.19 U	0.02 U	0.19 U	0.19 U	0.19 U	0.19 J	0.034	0.48 U	0.15
East Shoreline	MW-59	8/27/2010	MW-59_100827	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 UJ	0.25 U	---	---	0.01 U
East Shoreline	MW-59	11/10/2010	MW-59_101110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	MW-59	2/10/2011	MW-59_110210	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.01 U
East Shoreline	PZ-9	2/14/1997	97-2101-R661B	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1.2	1 U	3 U	1 U	5 U	1 U	2 U	1 U
East Shoreline	PZ-9	8/27/1997	97-15176-T609J	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1.5	1 U	3 U	1 U	5 U	1 U	2 U	1 U
East Shoreline	PZ-9	11/5/1997	97454185	---	10 U	10 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	11/5/1997	97454185-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	2/22/2001	01-2369-CU22G	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	2 U	1 U	5 U	1 U	2 U	1 U
East Shoreline	PZ-9	8/21/2001	PZ-9_010821	1 U	0.1 U	---	1 U	2 U	5 U	2 U	5 U	1 U	0.44	1 U	2 U	1 U	5 U	0.1 U	2 U	0.1 U
East Shoreline	PZ-9	12/13/2002	02-18586-FB89N	1.1 U	0.11 U	0.11 U	---	2.1 U	5.3 U	2.1 U	5.3 U	1.1 U	0.27	1.1 U	2.1 U	1.1 U	5.3 U	0.11 U	2.1 U	0.11 U
East Shoreline	PZ-9	6/19/2003	K2304594-005	0.2 U	0.021	0.0092 J	---	0.2 U	0.96 U	0.2 U	---	0.2 U	0.19	0.2 U	0.2 U	0.2 U	0.072 J	0.023	0.043 J	0.022
East Shoreline	PZ-9	6/19/2003	K2304594-007	0.2 U	0.027	0.0093 J	---	0.2 U	0.96 U	0.2 U	---	0.2 U	0.17	0.2 U	0.2 U	0.2 U	0.96 U	0.027	0.48 U	0.026
East Shoreline	PZ-9	8/26/2010	DUP-082610	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 UJ	0.25 U	---	---	0.01 U
East Shoreline	PZ-9	8/26/2010	PZ-9_100826	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 UJ	0.25 U	---	---	0.01 U
East Shoreline	PZ-9	11/10/2010	PZ-9_101110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	2/8/2011	PZ-9_110208	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.01 U
Ennis Creek	PZ-5	2/13/1997	97-1959-R652D	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
Ennis Creek	PZ-5	8/28/1997	97-15169-T609C	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
Ennis Creek	PZ-5	2/22/2001	01-2366-CU22D	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
Ennis Creek	PZ-5	8/21/2001	DN18G	1 U	0.1 U	0.1 U	1 U	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.1 U
Ennis Creek	PZ-5	12/12/2002	02-18578-FB89F	1 U	0.1 U	0.1 U	---	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.1 U

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

				Dimethylphthalate (ug/L) 72000	Fluoranthene (ug/L) 90	Fluorene (ug/L) 3500	Hexachlorobenzene (ug/L) 0.00083	Hexachlorobutadiene (ug/L) 18	Hexachlorocyclopentadiene (ug/L) 1100	Hexachloroethane (ug/L) 3.3	Isodrin (ug/L) NL	Isophorone (ug/L) 600	Naphthalene (ug/L) 4900	Nitrobenzene (ug/L) 450	N-Nitroso-di-n-propylamine (ug/L) 1	N-Nitrosodiphenylamine (ug/L) 6	Pentachlorophenol* (ug/L) 3	Phenanthrene (ug/L) NL	Phenol (ug/L) 1.1e+006	Pyrene (ug/L) 2600
Funct. Area	Loc ID	Date	Sample ID	MTCA Method B GW Protective of																
Ennis Creek	PZ-5	6/18/2003	K2304556-001	0.2 U	0.02 U	0.02 U	---	0.2 U	0.96 U	0.2 U	---	0.2 U	0.02 U	0.2 U	0.2 U	0.2 U	0.96 U	0.02 U	0.043 J	0.02 U
Ennis Creek	PZ-5	8/27/2010	PZ-5_100827	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 UJ	0.25 U	---	---	0.01 U
Ennis Creek	PZ-6	2/13/1997	97-1958-R652C	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
Ennis Creek	PZ-6	8/28/1997	97-15168-T609B	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
Ennis Creek	PZ-6	2/22/2001	01-2346-CU21D	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
Ennis Creek	PZ-6	8/23/2001	01-14634-DN28B	1 U	0.1 U	0.1 U	---	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.1 U
Ennis Creek	PZ-6	12/11/2002	02-18573-FB89A	1 U	0.1 U	0.1 U	---	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.1 U
Ennis Creek	PZ-6	6/18/2003	K2304556-005	0.2 U	0.02 U	0.02 U	---	0.2 U	0.98 U	0.2 U	---	0.2 U	0.02 U	0.2 U	0.2 U	0.2 U	0.98 U	0.02 U	0.024 J	0.02 U
Ennis Creek	PZ-6	8/27/2010	PZ-6_100827	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 UJ	0.25 U	---	---	0.01 U
Estuary	FR-1	2/22/2001	01-2367-CU22E	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
Estuary	FR-1	8/22/2001	DN25B	1 U	0.1 U	0.1 U	1 U	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.1 U
Estuary	MW-62	11/9/2010	MW-62_101109	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.01 U
Estuary	MW-62	2/10/2011	MW-62_110210	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.01 U
Main Former Mill	GWG-1	11/4/2010	GWG-1-W	---	---	---	---	---	---	1 U	---	---	---	---	1 U	1 U	0.25 U	---	---	3.5 B
Main Former Mill	MW-58	12/13/2002	02-18591-FB89S	1.1 U	0.11 U	0.11 U	---	2.3 U	5.7 U	2.3 U	5.7 U	1.1 U	0.11 U	1.1 U	2.3 U	1.1 U	5.7 U	0.11 U	2.3 U	0.11 U
Main Former Mill	MW-58	6/18/2003	K2304556-002	0.2 U	0.011 J	0.02	---	0.2 U	0.97 U	0.2 U	---	0.2 U	0.013 J	0.2 U	0.2 U	0.2 U	0.088 J	0.025	0.034 J	0.019 J
Main Former Mill	MW-58	8/27/2010	MW-58_100827	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 UJ	0.25 U	---	---	0.051 Q
Main Former Mill	MW-58	2/11/2011	MW-58_110211	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.34
Main Former Mill	MW-65	3/11/2011	MW-65-110311-W	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.01 U
Main Former Mill	MW-65	5/18/2011	MW-65-110518	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---
Main Former Mill	MW-66	3/11/2011	MW-66-110311-W	---	---	---	---	---	---	---	---	---	---	---	---	---	0.33	---	---	4.3
Main Former Mill	MW-66	5/18/2011	MW-66-110518	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---
Main Former Mill	MW-69	5/18/2011	MW-69-110518	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---
Main Former Mill	PA-17	2/11/2011	PA-17_110211	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.01 U
Main Former Mill	PIPE-1-SR23	1/7/2011	PIPE-1-SR23	---	---	---	---	---	---	1 U	---	---	---	---	1 U	1 U	2.8 NJ	---	---	3.8
Main Former Mill	PZ-4	2/13/1997	97-1960-R652E	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
Main Former Mill	PZ-4	8/27/1997	97-15173-T609G	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
Main Former Mill	PZ-4	11/5/1997	97454184	---	10 U	10 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Main Former Mill	PZ-4	2/22/2001	01-2363-CU22A	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
Main Former Mill	PZ-4	8/21/2001	DN18F	1 U	0.1 U	0.1 U	1 U	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.1 U
Main Former Mill	PZ-4	12/12/2002	02-18577-FB89E	1.2 U	0.12 U	0.12 U	---	2.5 U	6.2 U	2.5 U	6.2 U	1.2 U	0.12 U	1.2 U	2.5 U	1.2 U	6.2 U	0.12 U	2.5 U	0.12 U

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Para				Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Isodrin	Isophorone	Naphthalene	Nitrobenzene	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Pentachlorophenol*	Phenanthrene	Phenol	Pyrene
MTCA Method B GW Protective of				(ug/L) 72000	(ug/L) 90	(ug/L) 3500	(ug/L) 0.00083	(ug/L) 18	(ug/L) 1100	(ug/L) 3.3	(ug/L) NL	(ug/L) 600	(ug/L) 4900	(ug/L) 450	(ug/L) 1	(ug/L) 6	(ug/L) 3	(ug/L) NL	(ug/L) 1.1e+006	(ug/L) 2600
Funct. Area	Loc ID	Date	Sample ID																	
Main Former Mill	PZ-4	6/17/2003	K2304497-004	0.013 U	0.005 J	0.0026 U	---	0.02 U	0.041 U	0.019 U	---	0.0085 U	0.004 J	0.0074 U	0.033 U	0.028 U	0.029 U	0.0034 J	0.045 J	0.0033 J
Main Former Mill	PZ-4	8/25/2010	PZ-4_100825	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 U	0.25 U	---	---	0.01 U
North Shoreline	MW-51	8/4/1998	98-15871-Y129C	1 U	1.3	1.1	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1
North Shoreline	MW-51	2/22/2001	01-2351-CU21I	1 U	0.9 J	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 J
North Shoreline	MW-51	8/21/2001	DN18C	1 U	1	0.57	1 U	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.94
North Shoreline	MW-51	12/12/2002	02-18580-FB89H	1.1 U	1	0.17	---	2.2 U	5.4 U	2.2 U	5.4 U	1.1 U	0.11 U	1.1 U	2.2 U	1.1 U	5.4 U	0.11 U	2.2 U	0.91
North Shoreline	MW-51	6/18/2003	K2304556-003	0.19 U	1	0.13	---	0.19 U	0.95 U	0.19 U	---	0.19 U	0.01 J	0.19 U	0.19 U	0.19 U	0.95 U	0.03	0.042 J	0.93
North Shoreline	MW-51	8/26/2010	MW-51_100826	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 UJ	0.25 U	---	---	0.69 Q
North Shoreline	MW-51	11/10/2010	MW-51_101110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.4
North Shoreline	MW-51	2/11/2011	MW-51_110211	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.05
North Shoreline	MW-51	5/19/2011	MW-51-110519	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
North Shoreline	MW-56	2/22/2001	01-2365-CU22C	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	2.2	1 U	3 U	1 U	7.7	1 U	27	1 U
North Shoreline	MW-56	8/22/2001	DN25E	1 U	0.1 U	0.26 U	1 U	2 U	5 U	2 U	5 U	1 U	0.8	1 U	2 U	1 U	5 U	0.1 U	80	0.1 U
North Shoreline	MW-56	12/12/2002	02-18585-FB89M	1 U	0.1 U	0.1 U	---	2 U	5.1 U	2 U	5.1 U	1 U	1.3	1 U	2 U	1 U	5.1 U	0.1 U	59	0.1 U
North Shoreline	MW-56	6/19/2003	K2304594-008	0.19 U	0.043	0.023	---	0.19 U	0.95 U	0.19 U	---	0.19 U	1.2 J	0.19 U	0.19 U	0.19 U	1.6	0.047	52 J	0.039
North Shoreline	MW-56	8/26/2010	MW-56_100826	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 U	0.52	---	---	0.043 J
North Shoreline	MW-56	11/9/2010	MW-56_101109	---	---	---	---	---	---	---	---	---	---	---	---	---	0.47	---	---	---
North Shoreline	MW-56	2/11/2011	MW-56_110211	---	---	---	---	---	---	---	---	---	---	---	---	---	0.89	---	---	0.018
NW Shoreline	MW-28	8/25/2010	MW-28_100825	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 UJ	0.25 U	---	---	0.13 Q
NW Shoreline	MW-28	11/10/2010	MW-28_101110	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.34
NW Shoreline	MW-28	2/8/2011	MW-28_110208	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.18
NW Shoreline	MW-28	5/20/2011	MW-28-110520	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NW Shoreline	MW-52	8/4/1998	98-15869-Y129A	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
NW Shoreline	MW-52	2/22/2001	01-2368-CU22F	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
NW Shoreline	MW-52	8/22/2001	DN25G	1 U	0.1 U	0.1 U	1 U	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.1 U
NW Shoreline	MW-52	12/12/2002	02-18581-FB89I	1.1 U	0.11 U	0.11 U	---	2.2 U	5.6 U	2.2 U	5.6 U	1.1 U	0.11 U	1.1 U	2.2 U	1.1 U	5.6 U	0.11 U	2.2 U	0.11 U
NW Shoreline	MW-52	6/16/2003	K2304466-002	0.2 U	0.02 U	0.02 U	---	0.2 U	0.96 U	0.2 U	---	0.2 U	0.02 U	0.2 U	0.2 U	0.2 U	0.96 U	0.02 U	0.48 U	0.02 U
NW Shoreline	MW-52	8/25/2010	MW-52_100825	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 UJ	0.25 U	---	---	0.01 U
NW Shoreline	MW-52	11/8/2010	MW-52_101108	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NW Shoreline	MW-52	2/9/2011	MW-52_110209	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.01 U
NW Shoreline	MW-53	2/21/2001	01-2275-CU06A	1 U	1 U	1 U	---	---	5 U	2 U	---	1 U	---	1 U	3 U	1 U	5 U	1 U	2 U	1 U

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

				Dimethylphthalate (ug/L) 72000	Fluoranthene (ug/L) 90	Fluorene (ug/L) 3500	Hexachlorobenzene (ug/L) 0.00083	Hexachlorobutadiene (ug/L) 18	Hexachlorocyclopentadiene (ug/L) 1100	Hexachloroethane (ug/L) 3.3	Isodrin (ug/L) NL	Isophorone (ug/L) 600	Naphthalene (ug/L) 4900	Nitrobenzene (ug/L) 450	N-Nitroso-di-n-propylamine (ug/L) 1	N-Nitrosodiphenylamine (ug/L) 6	Pentachlorophenol* (ug/L) 3	Phenanthrene (ug/L) NL	Phenol (ug/L) 1.1e+006	Pyrene (ug/L) 2600
Funct. Area	Loc ID	Date	Sample ID	MTCA Method B GW Protective of																
NW Shoreline	MW-53	8/21/2001	DN18A	1 U	0.1 U	0.1 U	1 U	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.1 U
NW Shoreline	MW-53	12/12/2002	02-18582-FB89J	1.1 U	0.11 U	0.11 U	---	2.2 U	5.6 U	2.2 U	5.6 U	1.1 U	0.11 U	1.1 U	2.2 U	1.1 U	5.6 U	0.11 U	2.2 U	0.11 U
NW Shoreline	MW-53	6/16/2003	K2304466-003	0.2 U	0.0054 J	0.02 U	---	0.2 U	0.96 U	0.2 U	---	0.2 U	0.0055 J	0.2 U	0.2 U	0.2 U	0.96 U	0.0047 J	0.48 U	0.006 J
NW Shoreline	MW-53	8/26/2010	MW-53_100826	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 U	0.25 U	---	---	0.01 U
NW Shoreline	MW-53	2/11/2011	MW-53_110211	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.01 U
NW Shoreline	MW-61	11/11/2010	MW-61_101111	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.1
NW Shoreline	MW-61	2/11/2011	MW-61_110211	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.12
NW Shoreline	MW-67	3/11/2011	MW-67-110311-W	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.017
NW Shoreline	MW-67	5/18/2011	MW-67-110518	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---
NW Shoreline	PZ-1	8/22/2001	DN25C	1 U	0.1 U	0.1 U	1 U	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.1 U
NW Shoreline	PZ-2	2/13/1997	97-1957-R652B	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
NW Shoreline	PZ-2	8/27/1997	97-15172-T609F	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
NW Shoreline	PZ-2	11/5/1997	97454182	---	10 U	10 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NW Shoreline	PZ-2	8/25/2010	PZ-2_100825	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 U	0.25 U	---	---	0.21 J
NW Shoreline	PZ-2	11/11/2010	PZ-2_101111	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NW Shoreline	PZ-2	2/7/2011	PZ-2_110207	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.01 U
Prefab	PZ-7	2/14/1997	97-2102-R661C	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
Prefab	PZ-7	8/27/1997	97-15177-T609K	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
Prefab	PZ-7	11/5/1997	97454189	---	10 U	10 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Prefab	PZ-7	2/22/2001	01-2347-CU21E	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
Prefab	PZ-7	12/12/2002	02-18579-FB89G	1.3 U	0.13 U	0.13 U	---	2.6 U	6.4 U	2.6 U	6.4 U	1.3 U	0.13 U	1.3 U	2.6 U	1.3 U	6.4 U	0.13 U	2.6 U	0.13 U
Prefab	PZ-7	8/27/2010	PZ-7_100827	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 U	0.25 U	---	---	0.021 J
Prefab	PZ-7	11/10/2010	PZ-7_101110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Prefab	PZ-7	2/8/2011	PZ-7_110208	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Prefab	PZ-7	5/17/2011	PZ-07-110517	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-19	2/22/2001	01-2345-CU21C	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
West Former Mill	MW-19	8/22/2001	DN25I	1 U	0.91	0.1 U	1 U	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.53
West Former Mill	MW-20	9/2/1997	97-15361-T609N	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
West Former Mill	MW-23	10/15/1997	97-19428-U167A	1 U	1 U	1.3	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1	2 U	1 U
West Former Mill	MW-23	2/22/2001	01-2364-CU22B	1 U	1 U	0.8 J	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
West Former Mill	MW-23	8/21/2001	DN18E	1 U	0.11	0.24	1 U	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.1

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

				Dimethylphthalate (ug/L) 72000	Fluoranthene (ug/L) 90	Fluorene (ug/L) 3500	Hexachlorobenzene (ug/L) 0.00083	Hexachlorobutadiene (ug/L) 18	Hexachlorocyclopentadiene (ug/L) 1100	Hexachloroethane (ug/L) 3.3	Isodrin (ug/L) NL	Isophorone (ug/L) 600	Naphthalene (ug/L) 4900	Nitrobenzene (ug/L) 450	N-Nitroso-di-n-propylamine (ug/L) 1	N-Nitrosodiphenylamine (ug/L) 6	Pentachlorophenol* (ug/L) 3	Phenanthrene (ug/L) NL	Phenol (ug/L) 1.1e+006	Pyrene (ug/L) 2600
Funct. Area	Loc ID	Date	Sample ID	MTCA Method B GW Protective of																
West Former Mill	MW-23	12/13/2002	02-18589-FB89Q	1 U	0.1 U	0.22	---	2 U	5 U	2 U	5 U	1 U	0.78	1 U	<i>2 U</i>	1 U	120	0.12	2 U	0.1 U
West Former Mill	MW-23	6/16/2003	K2304466-001	0.2 U	0.051	0.94	---	0.2 U	0.96 U	0.2 U	---	0.2 U	1.6	0.2 U	0.2 U	0.2 U	5.6	0.046	0.5	0.088
West Former Mill	MW-23	8/25/2010	MW-23_100825	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 UJ	0.25 U	---	---	0.074 Q
West Former Mill	MW-23	11/10/2010	MW-23_101110	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---
West Former Mill	MW-23	2/9/2011	MW-23_110209	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---
West Former Mill	MW-23	5/19/2011	MW-23-110519	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---
West Former Mill	MW-29	9/2/1997	97-15362-T609O	1 U	1 U	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	<i>3 U</i>	1 U	<i>5 U</i>	1 U	2 U	1 U
West Former Mill	MW-29	6/17/2003	K2304497-006	0.013 U	0.011 J	0.011 J	---	0.02 U	0.041 U	0.019 U	---	0.0085 U	0.42	0.0074 U	0.033 U	0.028 U	0.11 J	0.016 J	0.071 J	0.012 J
West Former Mill	MW-29	8/25/2010	MW-29_100825	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 UJ	0.25 U	---	---	0.51 Q
West Former Mill	MW-29	11/11/2010	MW-29_101111	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01 U
West Former Mill	MW-29	2/8/2011	MW-29_110208	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.01 U
West Former Mill	MW-29	5/20/2011	MW-29-110520	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---
West Former Mill	MW-54	2/21/2001	01-2276-CU06B	1 U	1 U	7.4	---	---	5 U	2 U	---	1 U	11	1 U	<i>3 U</i>	1 U	<i>5 U</i>	8.3	2.5	1 U
West Former Mill	MW-54	8/22/2001	DN25H	1 U	1.9	1.2	<i>1 U</i>	2 U	5 U	2 U	5 U	1 U	0.4	1 U	<i>2 U</i>	1 U	<i>5 U</i>	1.8	2 U	0.83
West Former Mill	MW-54	12/12/2002	02-18583-FB89K	1 U	0.98	0.1 U	---	2.1 U	5.2 U	2.1 U	5.2 U	1 U	0.1 U	1 U	<i>2.1 U</i>	1 U	<i>5.2 U</i>	0.1 U	2.1 U	0.67
West Former Mill	MW-54	6/17/2003	K2304497-001	0.013 U	0.8	0.0026 U	---	0.02 U	0.041 U	0.019 U	---	0.0085 U	0.013 J	0.0074 U	0.033 U	0.028 U	0.075 J	0.015 J	0.051 J	0.46
West Former Mill	MW-54	8/26/2010	MW-54_100826	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 U	0.25 U	---	---	1.5 J
West Former Mill	MW-54	11/11/2010	MW-54_101111	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.7
West Former Mill	MW-54	2/10/2011	MW-54_110210	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.81
West Former Mill	MW-54	5/18/2011	MW-54-110518	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-55	2/21/2001	01-2277-CU06C	1 U	1 U	1 U	---	---	5 U	2 U	---	1 U	---	1 U	<i>3 U</i>	1 U	<i>5 U</i>	1 U	2 U	1 U
West Former Mill	MW-55	8/22/2001	DN25F	1 U	0.25	0.1 U	<i>1 U</i>	2 U	5 U	2 U	5 U	1 U	0.75	1 U	<i>2 U</i>	1 U	<i>5 U</i>	0.27	2 U	0.33
West Former Mill	MW-55	12/12/2002	02-18584-FB89L	1.1 U	0.11 U	0.11 U	---	2.1 U	5.3 U	2.1 U	5.3 U	1.1 U	0.11 U	1.1 U	<i>2.1 U</i>	1.1 U	<i>5.3 U</i>	0.11 U	2.1 U	0.11 U
West Former Mill	MW-55	6/18/2003	K2304556-004	0.19 U	0.012 J	0.0038 J	---	0.19 U	0.95 U	0.19 U	---	0.19 U	0.04	0.19 U	0.19 U	0.19 U	0.95 U	0.015 J	0.033 J	0.014 J
West Former Mill	MW-55	8/26/2010	MW-55_100826	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 U	0.25 U	---	---	0.023 J
West Former Mill	MW-55	11/8/2010	MW-55_101108	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-55	2/10/2011	MW-55_110210	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.012
West Former Mill	MW-57	12/13/2002	02-18590-FB89R	1.1 U	0.11 U	0.11 U	---	2.2 U	5.4 U	2.2 U	5.4 U	1.1 U	0.11 U	1.1 U	<i>2.2 U</i>	1.1 U	<i>5.4 U</i>	0.11 U	2.2 U	0.11 U
West Former Mill	MW-57	6/17/2003	K2304497-007	0.013 U	0.0054 J	0.024	---	0.02 U	0.041 U	0.019 U	---	0.0085 U	0.021	0.0074 U	0.033 U	0.028 U	0.029 U	0.0071 J	0.02 U	0.0044 J
West Former Mill	MW-57	8/26/2010	MW-57_100826	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 UJ	0.25 U	---	---	0.01 U
West Former Mill	MW-60	11/11/2010	MW-60_101111	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.15
West Former Mill	MW-60	2/9/2011	MW-60_110209	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.057

**Semi-Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

				Dimethylphthalate (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	Hexachlorobenzene (ug/L)	Hexachlorobutadiene (ug/L)	Hexachlorocyclopentadiene (ug/L)	Hexachloroethane (ug/L)	Isodrin (ug/L)	Isophorone (ug/L)	Naphthalene (ug/L)	Nitrobenzene (ug/L)	N-Nitroso-di-n-propylamine (ug/L)	N-Nitrosodiphenylamine (ug/L)	Pentachlorophenol* (ug/L)	Phenanthrene (ug/L)	Phenol (ug/L)	Pyrene (ug/L)
Para MTCA Method B GW Protective of				72000	90	3500	0.00083	18	1100	3.3	NL	600	4900	450	1	6	3	NL	1.1e+006	2600
Funct. Area	Loc ID	Date	Sample ID																	
West Former Mill	MW-60	5/19/2011	MW-60-110519	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-68	6/7/2011	MW-68-110607	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---
West Former Mill	PZ-3	2/14/1997	97-2104-R661E	1 U	1.1	3.1	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
West Former Mill	PZ-3	8/28/1997	97-15167-T609A	1 U	1	4.2	---	2 U	5 U	2 U	---	1 U	1 U	1 U	3 U	1 U	5 U	1 U	2 U	1 U
West Former Mill	PZ-3	11/5/1997	97454183	---	2 J	4 J	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	PZ-3	2/22/2001	CU21A	1 U	1	1 U	---	2 U	5 U	2 U	---	1 U	1 U	1 U	2 U	1 U	5 U	1 U	2 U	1 U
West Former Mill	PZ-3	8/21/2001	DN18B	1 U	0.1 U	0.1 U	1 U	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.1 U
West Former Mill	PZ-3	12/12/2002	02-18576-FB89D	1 U	0.56	0.1 U	---	2 U	5 U	2 U	5 U	1 U	0.1 U	1 U	2 U	1 U	5 U	0.1 U	2 U	0.31
West Former Mill	PZ-3	6/17/2003	K2304497-002	0.013 U	0.28	0.13	---	0.02 U	0.041 U	0.019 U	---	0.0085 U	0.015 J	0.0074 U	0.033 U	0.028 U	0.029 U	0.023	0.043 J	0.15
West Former Mill	PZ-3	8/26/2010	PZ-3_100826	---	---	---	---	---	---	1 U	---	---	---	---	1 U	5 UJ	0.25 U	---	---	0.4 Q
West Former Mill	PZ-3	11/9/2010	PZ-3_101109	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	PZ-3	2/10/2011	PZ-3_110210	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	0.8
West Former Mill	PZ-3	5/19/2011	PZ-03-110519	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25 U	---	---	---

**Total Petroleum Hydrocarbons in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

					Parameter	Gasoline-range TPH*	Diesel-range TPH*	Heavy oil-range TPH	Residual Range Organics	Total Petroleum Hydrocarbons
					Units	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
					MTCA-B GW AS MSW	0.8	0.5	0.5	0.5	NL
Funct. Area	Loc ID	Date	Sample ID	Sample Type						
City Purchase	GWG-8	10/28/2010	GWG-8-W	N	---	0.1 U	0.2 U	---	---	
City Purchase	PA-19	8/21/2009	PA-19_090821	N	0.1 U	3	---	0.3 U	---	
City Purchase	PA-19	8/26/2010	PA-19_100826	N	0.25 U	0.1 U	0.2 U	---	---	
City Purchase	PA-19	11/11/2010	PA-19_101111	N	---	0.1 U	0.2 U	---	---	
City Purchase	PA-19	2/9/2011	PA-19_110209	N	---	0.1 U	0.2 U	---	---	
City Purchase	PA-19	2/9/2011	PA-19_110209D	FD	---	0.1 U	0.2 U	---	---	
City Purchase	PA-19	5/18/2011	PA-19-110518	N	---	0.1 U	0.2 U	---	---	
City Purchase	PZ-11	2/14/1997	97-2103-R661D	N	---	0.25 U	0.5 U	---	---	
City Purchase	PZ-11	8/28/1997	97-15170-T609D	N	---	0.25 U	0.5 U	---	---	
City Purchase	PZ-11	2/22/2001	01-2349-CU21G	N	---	0.25 U	0.5 U	---	---	
City Purchase	PZ-11	8/23/2001	01-14633-DN28A	N	---	0.25 U	0.5 U	---	---	
City Purchase	PZ-11	12/11/2002	02-18574-FB89B	N	---	0.25 U	0.5 U	---	---	
City Purchase	PZ-11	6/19/2003	K2304594-002	N	---	0.25 U	0.5 U	---	---	
City Purchase	PZ-11	8/27/2010	PZ-11_100827	N	0.25 U	0.1 U	0.2 U	---	---	
City Purchase	PZ-12	2/28/1997	97-2822-R796B	N	---	0.25 U	0.5 U	---	---	
City Purchase	PZ-12	8/28/1997	97-15171-T609E	N	---	0.25 U	0.5 U	---	---	
City Purchase	PZ-12	2/22/2001	01-2348-CU21F	N	---	0.25 U	0.5 U	---	---	
City Purchase	PZ-12	8/21/2001	DN18H	N	---	0.25 U	0.5 U	---	---	
City Purchase	PZ-12	12/11/2002	02-18575-FB89C	N	---	0.25 U	0.5 U	---	---	
City Purchase	PZ-12	6/19/2003	K2304594-003	N	---	0.25 U	0.5 U	---	---	
City Purchase	PZ-12	8/27/2010	PZ-12_100827	N	0.25 U	0.1 U	0.2 U	---	---	
CSO	GWG-6	11/2/2010	GWG-6-W	N	---	0.1 U	0.2 U	---	---	
CSO	MW-70	5/18/2011	MW-70-110518	N	0.25 U	0.1 U	0.2 U	---	---	
CSO	MW-70	5/18/2011	MW-70-110518D	FD	0.25 U	0.1 U	0.2 U	---	---	
CSO	PA-15	11/9/2010	PA-15_101109	N	---	0.1 U	0.2 U	---	---	
East Former Mill	GWG-7	11/3/2010	GWG-7-W	N	---	0.1 U	0.2 U	---	---	
East Former Mill	PA-24	11/9/2010	PA-24_101109	N	---	0.1 U	0.2 U	---	---	
East Former Mill	PZ-10	2/28/1997	97-2821-R796A	N	---	0.25 U	0.5 U	---	---	
East Former Mill	PZ-10	8/27/1997	97-15175-T609I	N	---	0.25 U	0.5 U	---	---	
East Former Mill	PZ-10	2/22/2001	01-2350-CU21H	N	---	0.25 U	0.5 U	---	---	
East Former Mill	PZ-10	8/22/2001	DN25D	N	---	0.25 U	0.5 U	---	---	
East Former Mill	PZ-10	12/13/2002	02-18587-FB89O	N	---	0.25 U	0.5 U	---	---	
East Former Mill	PZ-10	6/19/2003	K2304594-001	N	---	0.26 U	0.52 U	---	---	
East Former Mill	PZ-10	6/19/2003	KWG0309158-2	FD	---	0.27 U	0.53 U	---	---	
East Former Mill	PZ-10	8/26/2010	PZ-10_100826	N	0.25 U	0.1 U	0.2 U	---	---	
East Former Mill	PZ-13	2/14/1997	97-2100-R661A	N	---	0.25 U	0.5 U	---	---	
East Former Mill	PZ-13	8/27/1997	97-15174-T609H	N	---	0.25 U	0.5 U	---	---	
East Shoreline	MW-59	12/13/2002	02-18592-FB89T	N	---	0.25 U	0.5 U	---	---	
East Shoreline	MW-59	6/19/2003	K2304594-006	N	---	0.25 U	0.5 U	---	---	
East Shoreline	MW-59	8/27/2010	MW-59_100827	N	0.25 U	0.1 U	0.2 U	---	---	
East Shoreline	PZ-9	2/14/1997	97-2101-R661B	N	---	0.44	0.5 U	---	---	
East Shoreline	PZ-9	8/27/1997	97-15176-T609J	N	---	0.84	0.5 U	---	---	
East Shoreline	PZ-9	2/22/2001	01-2369-CU22G	N	---	0.25 U	0.5 U	---	---	
East Shoreline	PZ-9	8/21/2001	PZ-9_010821	N	---	0.25 UJ	0.5 UJ	---	---	
East Shoreline	PZ-9	12/13/2002	02-18586-FB89N	N	---	0.25 U	0.5 U	---	---	
East Shoreline	PZ-9	6/19/2003	K2304594-005	FD	---	0.25 U	0.5 U	---	---	
East Shoreline	PZ-9	6/19/2003	K2304594-007	N	---	0.26 U	0.06 J	---	---	
East Shoreline	PZ-9	8/26/2010	DUP-082610	FD	0.25 U	0.1 U	0.2 U	---	---	
East Shoreline	PZ-9	8/26/2010	PZ-9_100826	N	0.25 U	0.1 U	0.2 U	---	---	

**Total Petroleum Hydrocarbons in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

					Parameter Units MTCA-B GW AS MSW	Gasoline-range TPH* (mg/L) 0.8	Diesel-range TPH* (mg/L) 0.5	Heavy oil-range TPH (mg/L) 0.5	Residual Range Organics (mg/L) 0.5	Total Petroleum Hydrocarbons (mg/L) NL
Funct. Area	Loc ID	Date	Sample ID	Sample Type						
Ennis Creek	PZ-5	2/13/1997	97-1959-R652D	N	---	0.25 U	0.5 U	---	---	---
Ennis Creek	PZ-5	8/28/1997	97-15169-T609C	N	---	0.25 U	0.5 U	---	---	---
Ennis Creek	PZ-5	2/22/2001	01-2366-CU22D	N	---	0.25 U	0.5 U	---	---	---
Ennis Creek	PZ-5	8/21/2001	DN18G	N	---	0.25 U	0.5 U	---	---	---
Ennis Creek	PZ-5	12/12/2002	02-18578-FB89F	N	---	0.25 U	0.5 U	---	---	---
Ennis Creek	PZ-5	6/18/2003	K2304556-001	N	---	0.25 U	0.5 U	---	---	---
Ennis Creek	PZ-5	6/18/2003	KWG0309044-2	FD	---	0.25 U	0.5 U	---	---	---
Ennis Creek	PZ-5	8/27/2010	PZ-5_100827	N	0.25 U	0.1 U	0.2 U	---	---	---
Ennis Creek	PZ-6	2/13/1997	97-1958-R652C	N	---	0.25 U	0.5 U	---	---	---
Ennis Creek	PZ-6	8/28/1997	97-15168-T609B	N	---	0.25 U	0.5 U	---	---	---
Ennis Creek	PZ-6	2/22/2001	01-2346-CU21D	N	---	0.25 U	0.5 U	---	---	---
Ennis Creek	PZ-6	8/23/2001	01-14634-DN28B	N	---	0.25 U	0.5 U	---	---	---
Ennis Creek	PZ-6	12/11/2002	02-18573-FB89A	N	---	0.25 U	0.5 U	---	---	---
Ennis Creek	PZ-6	6/18/2003	K2304556-005	N	---	0.25 U	0.5 U	---	---	---
Ennis Creek	PZ-6	8/27/2010	PZ-6_100827	N	0.25 U	0.1 U	0.2 U	---	---	---
Estuary	FR-1	2/22/2001	01-2367-CU22E	N	---	0.25 U	0.5 U	---	---	---
Estuary	FR-1	8/22/2001	DN25B	N	---	0.25 U	0.5 U	---	---	---
Estuary	MW-62	11/9/2010	MW-62_101109	N	0.25 U	0.1 U	0.2 U	---	---	---
Estuary	MW-62	2/10/2011	MW-62_110210	N	---	0.1 U	0.2 U	---	---	---
Estuary	MW-62	5/18/2011	MW-62-110518	N	---	0.1 U	0.2 U	---	---	---
Main Former Mill	GWG-1	11/4/2010	GWG-1-W	N	---	0.1	0.2 U	---	---	---
Main Former Mill	MW-58	12/13/2002	02-18591-FB89S	N	---	0.25 U	0.5 U	---	---	---
Main Former Mill	MW-58	6/18/2003	K2304556-002	N	---	0.25 U	0.5 U	---	---	---
Main Former Mill	MW-58	8/27/2010	MW-58_100827	N	0.25 U	0.1 U	0.2 U	---	---	---
Main Former Mill	MW-65	3/11/2011	MW-65-110311-W	N	---	0.1 U	0.2 U	---	---	---
Main Former Mill	MW-65	5/18/2011	MW-65-110518	N	---	0.1 U	0.2 U	---	---	---
Main Former Mill	MW-69	5/18/2011	MW-69-110518	N	0.25 U	0.1 U	0.2 U	---	---	---
Main Former Mill	PA-17	2/11/2011	PA-17_110211	N	---	0.1 U	0.2 U	---	---	---
Main Former Mill	PIPE-1-SR23	1/7/2011	PIPE-1-SR23	N	---	0.12	0.2 U	---	---	---
Main Former Mill	PZ-4	2/13/1997	97-1960-R652E	N	---	0.4	0.5 U	---	---	---
Main Former Mill	PZ-4	8/27/1997	97-15173-T609G	N	---	0.39	0.5 U	---	---	---
Main Former Mill	PZ-4	2/22/2001	01-2363-CU22A	N	---	0.25 U	0.5 U	---	---	---
Main Former Mill	PZ-4	8/21/2001	DN18F	N	---	0.25 U	0.5 U	---	---	---
Main Former Mill	PZ-4	12/12/2002	02-18577-FB89E	N	---	0.25 U	0.5 U	---	---	---
Main Former Mill	PZ-4	6/17/2003	K2304497-004	N	---	0.036 U	0.054 U	---	---	---
Main Former Mill	PZ-4	8/25/2010	PZ-4_100825	N	0.25 U	0.1 U	0.2 U	---	---	---
North Shoreline	MW-51	8/4/1998	98-15871-Y129C	N	10 U	10 U	25 U	---	---	---
North Shoreline	MW-51	2/22/2001	01-2351-CU21I	N	---	0.25 U	0.5 U	---	---	---
North Shoreline	MW-51	8/21/2001	DN18C	N	---	0.25 U	0.5 U	---	---	---
North Shoreline	MW-51	12/12/2002	02-18580-FB89H	N	---	0.25 U	0.5 U	---	---	---
North Shoreline	MW-51	6/18/2003	K2304556-003	N	---	0.25 U	0.5 U	---	---	---
North Shoreline	MW-51	8/26/2010	MW-51_100826	N	0.25 U	0.1 U	0.2 U	---	---	---
North Shoreline	MW-56	2/22/2001	01-2365-CU22C	N	---	0.25 U	0.5 U	---	---	---
North Shoreline	MW-56	8/22/2001	DN25E	N	---	0.25 U	0.5 U	---	---	---
North Shoreline	MW-56	12/12/2002	02-18585-FB89M	N	---	0.25 U	0.5 U	---	---	---
North Shoreline	MW-56	6/19/2003	K2304594-008	N	---	0.25 U	0.5 U	---	---	---
North Shoreline	MW-56	8/26/2010	MW-56_100826	N	0.25 U	0.1 U	0.2 U	---	---	---
NW Shoreline	MW-28	8/25/2010	MW-28_100825	N	0.25 U	0.1 U	0.2 U	---	---	---
NW Shoreline	MW-28	11/10/2010	MW-28_101110	N	---	0.1 U	0.2 U	---	---	---
NW Shoreline	MW-28	2/8/2011	MW-28_110208	N	---	0.1 U	0.2 U	---	---	---
NW Shoreline	MW-28	5/20/2011	MW-28-110520	N	---	0.1 U	0.2 U	---	---	---
NW Shoreline	MW-52	8/4/1998	98-15869-Y129A	N	10 U	10 U	25 U	---	---	---
NW Shoreline	MW-52	2/22/2001	01-2368-CU22F	N	---	0.25 U	0.5 U	---	---	---
NW Shoreline	MW-52	8/22/2001	DN25G	N	---	0.25 U	0.5 U	---	---	---
NW Shoreline	MW-52	12/12/2002	02-18581-FB89I	N	---	0.25 U	0.5 U	---	---	---
NW Shoreline	MW-52	6/16/2003	K2304466-002	N	---	0.25 U	0.5 U	---	---	---
NW Shoreline	MW-52	8/25/2010	MW-52_100825	N	0.25 U	0.1 U	0.2 U	---	---	---
NW Shoreline	MW-53	2/21/2001	01-2275-CU06A	N	---	0.25 U	0.5 U	---	---	---
NW Shoreline	MW-53	8/21/2001	DN18A	N	---	0.25 U	0.5 U	---	---	---
NW Shoreline	MW-53	12/12/2002	02-18582-FB89J	N	---	0.25 U	0.5 U	---	---	---
NW Shoreline	MW-53	6/16/2003	K2304466-003	N	---	0.25 U	0.5 U	---	---	---
NW Shoreline	MW-53	6/16/2003	KWG0309158-1	FD	---	0.25 U	0.5 U	---	---	---
NW Shoreline	MW-53	8/26/2010	MW-53_100826	N	0.25 U	0.1 U	0.2 U	---	---	---

**Total Petroleum Hydrocarbons in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

					Parameter Units MTCA-B GW AS MSW	Gasoline-range TPH* (mg/L) 0.8	Diesel-range TPH* (mg/L) 0.5	Heavy oil-range TPH (mg/L) 0.5	Residual Range Organics (mg/L) 0.5	Total Petroleum Hydrocarbons (mg/L) NL
Funct. Area	Loc ID	Date	Sample ID	Sample Type						
NW Shoreline	MW-61	11/11/2010	MW-61_101111	N	0.25 U	---	---	---	---	---
NW Shoreline	MW-61	2/11/2011	MW-61_110211	N	---	0.1 U	0.2 U	---	---	---
NW Shoreline	MW-61	5/18/2011	MW-61-110518	N	---	0.1 U	0.2 U	---	---	---
NW Shoreline	MW-67	3/11/2011	MW-67-110311-W	N	---	0.1 U	0.2 U	---	---	---
NW Shoreline	MW-67	5/18/2011	MW-67-110518	N	---	0.1 U	0.2 U	---	---	---
NW Shoreline	PZ-1	8/22/2001	DN25C	FD	---	0.25 U	0.5 U	---	---	---
NW Shoreline	PZ-2	2/13/1997	97-1957-R652B	N	---	0.25 U	0.5 U	---	---	---
NW Shoreline	PZ-2	8/27/1997	97-15172-T609F	N	---	0.25 U	0.5 U	---	---	---
NW Shoreline	PZ-2	8/25/2010	PZ-2_100825	N	0.25 U	0.1 U	0.2 U	---	---	---
Prefab	PZ-7	2/14/1997	97-2102-R661C	N	---	0.25 U	0.5 U	---	---	---
Prefab	PZ-7	8/27/1997	97-15177-T609K	N	---	0.25 U	0.24 J	---	---	---
Prefab	PZ-7	2/22/2001	01-2347-CU21E	N	---	0.25 U	0.5 U	---	---	---
Prefab	PZ-7	12/12/2002	02-18579-FB89G	N	---	0.25 U	0.5 U	---	---	---
Prefab	PZ-7	6/19/2003	K2304594-010	N	---	0.25 U	0.5 U	---	---	---
Prefab	PZ-7	8/27/2010	PZ-7_100827	N	0.25 U	0.1 U	0.2 U	---	---	---
West Former Mill	MW-13	3/18/1991	MW-13_910318	N	0.03 U	---	---	---	---	0.57
West Former Mill	MW-19	2/22/2001	01-2345-CU21C	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	MW-19	8/22/2001	DN25I	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	MW-20	9/2/1997	97-15361-T609N	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	MW-23	10/15/1997	97-19428-U167A	N	---	0.4	0.5 U	---	---	---
West Former Mill	MW-23	2/22/2001	01-2364-CU22B	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	MW-23	8/21/2001	DN18E	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	MW-23	12/13/2002	02-18589-FB89Q	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	MW-23	6/16/2003	K2304466-001	N	---	0.096 J	0.5 U	---	---	---
West Former Mill	MW-23	8/25/2010	MW-23_100825	N	0.25 U	0.1 U	0.2 U	---	---	---
West Former Mill	MW-29	9/2/1997	97-15362-T609O	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	MW-29	6/17/2003	K2304497-006	N	---	0.036 U	0.054 U	---	---	---
West Former Mill	MW-29	8/25/2010	MW-29_100825	N	0.25 U	0.1 U	0.2 U	---	---	---
West Former Mill	MW-29	11/11/2010	MW-29_101111	N	---	0.1 U	0.2 U	---	---	---
West Former Mill	MW-29	2/8/2011	MW-29_110208	N	---	0.1 U	0.2 U	---	---	---
West Former Mill	MW-29	5/20/2011	MW-29-110520	N	---	0.1 U	0.2 U	---	---	---
West Former Mill	MW-54	2/21/2001	01-2276-CU06B	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	MW-54	8/22/2001	DN25H	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	MW-54	12/12/2002	02-18583-FB89K	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	MW-54	6/17/2003	K2304497-001	N	---	0.036 U	0.054 U	---	---	---
West Former Mill	MW-54	8/26/2010	MW-54_100826	N	0.25 U	0.1 U	0.2 U	---	---	---
West Former Mill	MW-55	2/21/2001	01-2277-CU06C	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	MW-55	8/22/2001	DN25F	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	MW-55	12/12/2002	02-18584-FB89L	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	MW-55	6/18/2003	K2304556-004	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	MW-55	8/26/2010	MW-55_100826	N	0.25 U	0.1 U	0.2 U	---	---	---
West Former Mill	MW-57	12/13/2002	02-18590-FB89R	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	MW-57	6/17/2003	K2304497-007	N	---	0.036 U	0.054 U	---	---	---
West Former Mill	MW-57	6/17/2003	KWG0309044-1	FD	---	0.036 U	0.054 U	---	---	---
West Former Mill	MW-57	8/26/2010	MW-57_100826	N	0.25 U	0.1 U	0.2 U	---	---	---
West Former Mill	MW-60	11/11/2010	MW-60_101111	N	0.25 U	0.1 U	0.2 U	---	---	---
West Former Mill	MW-60	2/9/2011	MW-60_110209	N	---	0.1 U	0.2 U	---	---	---
West Former Mill	MW-60	5/19/2011	MW-60-110519	N	---	0.1 U	0.2 U	---	---	---
West Former Mill	PZ-3	2/14/1997	97-2104-R661E	N	---	0.34	0.5 U	---	---	---
West Former Mill	PZ-3	8/28/1997	97-15167-T609A	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	PZ-3	2/22/2001	CU21A	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	PZ-3	8/21/2001	DN18B	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	PZ-3	12/12/2002	02-18576-FB89D	N	---	0.25 U	0.5 U	---	---	---
West Former Mill	PZ-3	6/17/2003	K2304497-002	N	---	0.036 U	0.054 U	---	---	---
West Former Mill	PZ-3	8/26/2010	PZ-3_100826	N	0.25 U	0.1 U	0.2 U	---	---	---

**Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Parameter Units MTCA-B GW AS MSW					1,1,1,2-Tetrachloroethane (ug/L) NL	1,1,1-Trichloroethane (ug/L) 420000	1,1,2,2-Tetrachloroethane (ug/L) 4	1,1,2-Trichloroethane (ug/L) 16	1,1-Dichloroethane (ug/L) NL	1,1-Dichloroethane (ug/L) 3.2	1,1-Dichloropropene (ug/L) NL	1,2,3-Trichlorobenzene (ug/L) NL	1,2,3-Trichloropropane (ug/L) NL	1,2,4-Trichlorobenzene (ug/L) 70	1,2,4-Trimethylbenzene (ug/L) NL	1,2-Dibromo-3-Chloropropane (ug/L) NL	1,2-Dibromoethane (ug/L) NL	1,2-Dichlorobenzene (ug/L) 1300	1,2-Dichloroethane* (ug/L) 37	1,2-Dichloroethane (ug/L) NL	1,2-Dichloropropane (ug/L) 15	1,3,5-Trimethylbenzene (ug/L) NL	1,3-Dichlorobenzene (ug/L) 960	1,3-Dichloropropane (ug/L) NL	1,4-Dichlorobenzene (ug/L) 4.9	2,2-Dichloropropane (ug/L) NL	2-Butanone (ug/L) NL	2-Chloroethylvinylether (ug/L) NL	2-Chlorotoluene (ug/L) NL	2-Hexanone (ug/L) NL	4-Chlorotoluene (ug/L) NL					
Funct. Area	Loc ID	Date	Sample ID	Sample Type																																
City Purchase	PA-19	8/26/2010	PA-19_100826	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
City Purchase	PZ-11	2/14/1997	97-2103-R661D	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U			
City Purchase	PZ-11	8/28/1997	97-15170-T609D	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U			
City Purchase	PZ-11	11/6/1997	97454188	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
City Purchase	PZ-11	2/22/2001	01-2349-CU21G	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U			
City Purchase	PZ-11	8/23/2001	01-14633-DN28A	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	1 U	---	---	1 U	---	---	---		
City Purchase	PZ-11	12/11/2002	02-18574-FB89B	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	1 U	---	---	1 U	---	---	---		
City Purchase	PZ-11	6/19/2003	K2304594-002	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	1 U	---	---	2 U	---	---	---		
City Purchase	PZ-11	8/27/2010	PZ-11_100827	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
City Purchase	PZ-12	2/28/1997	97-2822-R796B	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5	1 U	5 U	1 U	5 U	1 U			
City Purchase	PZ-12	8/28/1997	97-15171-T609E	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U			
City Purchase	PZ-12	11/6/1997	97454187	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
City Purchase	PZ-12	2/22/2001	01-2348-CU21F	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U			
City Purchase	PZ-12	8/21/2001	DN18H	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	1 U	---	5 U	---	1 U	0.2 U	---	0.2 U	---	1 U	---	---	---	---	1 U	---	---	1 U	---	---	---		
City Purchase	PZ-12	12/11/2002	02-18575-FB89C	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	1 U	---	---	1 U	---	---	---		
City Purchase	PZ-12	6/19/2003	K2304594-003	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	1 U	---	---	2 U	---	---	---		
City Purchase	PZ-12	8/27/2010	PZ-12_100827	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
East Former Mill	PZ-10	2/28/1997	97-2821-R796A	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5	1 U	5 U	1 U	5 U	1 U			
East Former Mill	PZ-10	8/27/1997	97-15175-T609I	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U			
East Former Mill	PZ-10	2/22/2001	01-2350-CU21H	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U			
East Former Mill	PZ-10	8/22/2001	DN25D	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	1 U	---	5 U	---	1 U	0.2 U	---	0.2 U	---	1 U	---	---	---	---	1 U	---	---	1 U	---	---	---		
East Former Mill	PZ-10	12/13/2002	02-18587-FB89O	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	1 U	---	---	1 U	---	---	---		
East Former Mill	PZ-10	6/19/2003	K2304594-001	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	1 U	---	---	2 U	---	---	---		
East Former Mill	PZ-10	8/26/2010	PZ-10_100826	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
East Former Mill	PZ-13	2/14/1997	97-2100-R661A	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U			
East Former Mill	PZ-13	8/27/1997	97-15174-T609H	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U			
East Shoreline	MW-59	12/13/2002	02-18592-FB89T	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	1 U	---	---	1 U	---	---	---		
East Shoreline	MW-59	6/19/2003	K2304594-006	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	1 U	---	---	2 U	---	---	---		
East Shoreline	MW-59	8/27/2010	MW-59_100827	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
East Shoreline	PZ-9	2/14/1997	97-2101-R661B	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U			
East Shoreline	PZ-9	8/27/1997	97-15176-T609J	N	9 U	9 U	9 U	9 U	9 U	9 U	9 U	45 U	27 U	45 U	9 U	45 U	9 U	9 U	9 U	---	9 U	9 U	9 U	9 U	9 U	9 U	45 U	45 U	9 U	45 U	9 U	45 U	9 U			

**Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Parameter Units MTCA-B GW AS MSW					1,1,1,2-Tetrachloroethane (ug/L) NL	1,1,1-Trichloroethane (ug/L) 420000	1,1,2,2-Tetrachloroethane (ug/L) 4	1,1,2-Trichloroethane (ug/L) 16	1,1-Dichloroethane (ug/L) NL	1,1-Dichloroethane (ug/L) 3.2	1,1-Dichloropropene (ug/L) NL	1,2,3-Trichlorobenzene (ug/L) NL	1,2,3-Trichloropropane (ug/L) NL	1,2,4-Trichlorobenzene (ug/L) 70	1,2,4-Trimethylbenzene (ug/L) NL	1,2-Dibromo-3-Chloropropane (ug/L) NL	1,2-Dibromoethane (ug/L) NL	1,2-Dichlorobenzene (ug/L) 1300	1,2-Dichloroethane* (ug/L) 37	1,2-Dichloroethane (ug/L) NL	1,2-Dichloropropane (ug/L) 15	1,3,5-Trimethylbenzene (ug/L) NL	1,3-Dichlorobenzene (ug/L) 960	1,3-Dichloropropane (ug/L) NL	1,4-Dichlorobenzene (ug/L) 4.9	2,2-Dichloropropane (ug/L) NL	2-Butanone (ug/L) NL	2-Chloroethylvinylether (ug/L) NL	2-Chlorotoluene (ug/L) NL	2-Hexanone (ug/L) NL	4-Chlorotoluene (ug/L) NL			
Funct. Area	Loc ID	Date	Sample ID	Sample Type																														
East Shoreline	PZ-9	11/5/1997	97454185	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	2/22/2001	01-2369-CU22G	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U	
East Shoreline	PZ-9	8/21/2001	PZ-9_010821	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	1 U	---	---	---	
East Shoreline	PZ-9	12/13/2002	02-18586-FB89N	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	1 U	---	---	---	
East Shoreline	PZ-9	6/19/2003	K2304594-005	FD	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	2 U	---	---	---	
East Shoreline	PZ-9	6/19/2003	K2304594-007	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	2 U	---	---	---	
East Shoreline	PZ-9	8/26/2010	DUP-082610	FD	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	8/26/2010	PZ-9_100826	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	11/10/2010	PZ-9_101110	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	2/8/2011	PZ-9_110208	N	---	---	---	---	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	5/20/2011	PZ-09-110520	N	---	---	---	---	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	5/20/2011	PZ-09-110520D	FD	---	---	---	---	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ennis Creek	PZ-5	2/13/1997	97-1959-R652D	N	1 U	1 U	1 U	1 U	1.9	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U	
Ennis Creek	PZ-5	8/28/1997	97-15169-T609C	N	1 U	1 U	1 U	1 U	3.2	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U	
Ennis Creek	PZ-5	2/22/2001	01-2366-CU22D	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U	
Ennis Creek	PZ-5	8/21/2001	DN18G	N	---	0.2 U	0.2 U	0.2 U	0.4	0.2 U	---	---	---	1 U	---	5 U	---	1 U	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	1 U	---	---	---	
Ennis Creek	PZ-5	12/12/2002	02-18578-FB89F	N	---	0.2 U	0.2 U	0.2 U	0.3	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	1 U	---	---	---	
Ennis Creek	PZ-5	6/18/2003	K2304556-001	N	---	0.2 U	0.2 U	0.2 U	0.2	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	2 U	---	---	---	
Ennis Creek	PZ-5	8/27/2010	PZ-5_100827	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ennis Creek	PZ-6	2/13/1997	97-1958-R652C	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U	
Ennis Creek	PZ-6	8/28/1997	97-15168-T609B	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U	
Ennis Creek	PZ-6	2/22/2001	01-2346-CU21D	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U	
Ennis Creek	PZ-6	8/23/2001	01-14634-DN28B	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	1 U	---	---	---	
Ennis Creek	PZ-6	12/11/2002	02-18573-FB89A	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	1 U	---	---	---	
Ennis Creek	PZ-6	6/18/2003	K2304556-005	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	2 U	---	---	---	
Ennis Creek	PZ-6	8/27/2010	PZ-6_100827	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Estuary	FR-1	2/22/2001	01-2367-CU22E	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U	
Estuary	FR-1	8/22/2001	DN25B	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	1 U	---	5 U	---	1 U	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	1 U	---	---	---	
Main Former Mill	GWG-1	11/4/2010	GWG-1-W	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Main Former Mill	MW-58	12/13/2002	02-18591-FB89S	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	1 U	---	---	---	
Main Former Mill	MW-58	6/18/2003	K2304556-002	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	2 U	---	---	---	

**Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Parameter Units MTCA-B GW AS MSW					1,1,1,2-Tetrachloroethane (ug/L) NL	1,1,1-Trichloroethane (ug/L) 420000	1,1,2,2-Tetrachloroethane (ug/L) 4	1,1,2-Trichloroethane (ug/L) 16	1,1-Dichloroethane (ug/L) NL	1,1-Dichloroethane (ug/L) 3.2	1,1-Dichloropropene (ug/L) NL	1,2,3-Trichlorobenzene (ug/L) NL	1,2,3-Trichloropropane (ug/L) NL	1,2,4-Trichlorobenzene (ug/L) 70	1,2,4-Trimethylbenzene (ug/L) NL	1,2-Dibromo-3-Chloropropane (ug/L) NL	1,2-Dibromoethane (ug/L) NL	1,2-Dichlorobenzene (ug/L) 1300	1,2-Dichloroethane* (ug/L) 37	1,2-Dichloroethane (ug/L) NL	1,2-Dichloropropane (ug/L) 15	1,3,5-Trimethylbenzene (ug/L) NL	1,3-Dichlorobenzene (ug/L) 960	1,3-Dichloropropane (ug/L) NL	1,4-Dichlorobenzene (ug/L) 4.9	2,2-Dichloropropane (ug/L) NL	2-Butanone (ug/L) NL	2-Chloroethylvinylether (ug/L) NL	2-Chlorotoluene (ug/L) NL	2-Hexanone (ug/L) NL	4-Chlorotoluene (ug/L) NL			
Funct. Area	Loc ID	Date	Sample ID	Sample Type																														
Main Former Mill	MW-58	8/27/2010	MW-58_100827	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	PIPE-1-SR23	1/7/2011	PIPE-1-SR23	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	PZ-4	2/13/1997	97-1960-R652E	N	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	1 U		
Main Former Mill	PZ-4	8/27/1997	97-15173-T609G	N	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	1 U		
Main Former Mill	PZ-4	11/5/1997	97454184	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	PZ-4	2/22/2001	01-2363-CU22A	N	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	1 U		
Main Former Mill	PZ-4	8/21/2001	DN18F	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	1 U	---	5 U	---	1 U	0.2 U	---	0.2 U	---	1 U	---	---	---	1 U	---	---	---	---	---	---	
Main Former Mill	PZ-4	12/12/2002	02-18577-FB89E	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	1 U	---	---	---	---	---	
Main Former Mill	PZ-4	6/17/2003	K2304497-004	N	---	0.099 U	0.08 U	0.053 U	0.1 U	0.14 U	---	---	---	---	---	---	---	---	0.084 U	---	0.1 U	---	---	---	---	---	0.46 U	---	---	---	0.41 U	---	---	
Main Former Mill	PZ-4	8/25/2010	PZ-4_100825	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
North Shoreline	MW-51	8/4/1998	98-15871-Y129C	N	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10	5 U	1 U	5 U	1 U	1 U		
North Shoreline	MW-51	2/22/2001	01-2351-CU211	N	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	1 U		
North Shoreline	MW-51	8/21/2001	DN18C	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	1 U	---	5 U	---	1 U	0.2 U	---	0.2 U	---	1 U	---	---	---	1 U	---	---	---	---	---	---	
North Shoreline	MW-51	12/12/2002	02-18580-FB89H	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	---	---	---	---	
North Shoreline	MW-51	6/18/2003	K2304556-003	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	---	---	---	---	
North Shoreline	MW-51	8/26/2010	MW-51_100826	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
North Shoreline	MW-56	2/22/2001	01-2365-CU22C	N	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	6.1	5 U	1 U	5 U	1 U	1 U		
North Shoreline	MW-56	8/22/2001	DN25E	N	---	0.2 U	0.2 U	0.2 U	0.3	0.2 U	---	---	---	1 U	---	5 U	---	1 U	0.2 U	---	0.2 U	---	1 U	---	---	---	5.5	---	---	---	---	---	---	
North Shoreline	MW-56	12/12/2002	02-18585-FB89M	N	---	0.2 U	0.2 U	0.2 U	0.3	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	---	---	---	---	
North Shoreline	MW-56	6/19/2003	K2304594-008	N	---	0.2 U	0.2 U	0.2 U	0.22	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1.9	---	---	---	---	---	---	
North Shoreline	MW-56	8/26/2010	MW-56_100826	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NW Shoreline	MW-28	8/25/2010	MW-28_100825	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NW Shoreline	MW-28	11/10/2010	MW-28_101110	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NW Shoreline	MW-28	2/8/2011	MW-28_110208	N	---	---	---	---	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NW Shoreline	MW-28	5/20/2011	MW-28-110520	N	---	---	---	---	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NW Shoreline	MW-52	8/4/1998	98-15869-Y129A	N	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	1 U		
NW Shoreline	MW-52	2/22/2001	01-2368-CU22F	N	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	1 U		
NW Shoreline	MW-52	8/22/2001	DN25G	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	1 U	---	5 U	---	1 U	0.2 U	---	0.2 U	---	1 U	---	---	---	---	1 U	---	---	---	---	---	---
NW Shoreline	MW-52	12/12/2002	02-18581-FB89I	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	1 U	---	---	---	---	---	---
NW Shoreline	MW-52	6/16/2003	K2304466-002	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	1 U	---	---	---	---	---	---
NW Shoreline	MW-52	8/25/2010	MW-52_100825	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Parameter Units MTCA-B GW AS MSW					1,1,1,2-Tetrachloroethane (ug/L) NL	1,1,1-Trichloroethane (ug/L) 420000	1,1,2,2-Tetrachloroethane (ug/L) 4	1,1,2-Trichloroethane (ug/L) 16	1,1-Dichloroethane (ug/L) NL	1,1-Dichloroethane (ug/L) 3.2	1,1-Dichloropropene (ug/L) NL	1,2,3-Trichlorobenzene (ug/L) NL	1,2,3-Trichloropropane (ug/L) NL	1,2,4-Trichlorobenzene (ug/L) 70	1,2,4-Trimethylbenzene (ug/L) NL	1,2-Dibromo-3-Chloropropane (ug/L) NL	1,2-Dibromoethane (ug/L) NL	1,2-Dichlorobenzene (ug/L) 1300	1,2-Dichloroethane* (ug/L) 37	1,2-Dichloroethane (ug/L) NL	1,2-Dichloropropane (ug/L) 15	1,3,5-Trimethylbenzene (ug/L) NL	1,3-Dichlorobenzene (ug/L) 960	1,3-Dichloropropane (ug/L) NL	1,4-Dichlorobenzene (ug/L) 4.9	2,2-Dichloropropane (ug/L) NL	2-Butanone (ug/L) NL	2-Chloroethylvinylether (ug/L) NL	2-Chlorotoluene (ug/L) NL	2-Hexanone (ug/L) NL	4-Chlorotoluene (ug/L) NL		
Funct. Area	Loc ID	Date	Sample ID	Sample Type																													
NW Shoreline	MW-53	2/21/2001	01-2275-CU06A	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U		
NW Shoreline	MW-53	8/21/2001	DN18A	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	1 U	---	5 U	---	1 U	0.2 U	---	0.2 U	---	1 U	---	---	---	1 U	---	---	1 U	---		
NW Shoreline	MW-53	12/12/2002	02-18582-FB89J	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	1 U	---		
NW Shoreline	MW-53	6/16/2003	K2304466-003	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	2 U	---		
NW Shoreline	MW-53	8/26/2010	MW-53_100826	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---		
NW Shoreline	MW-61	11/11/2010	MW-61_101111	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---		
NW Shoreline	PZ-1	8/22/2001	DN25C	FD	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	1 U	---	5 U	---	1 U	0.2 U	---	0.2 U	---	1 U	---	---	---	1 U	---	---	1 U	---		
NW Shoreline	PZ-2	2/13/1997	97-1957-R652B	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U		
NW Shoreline	PZ-2	8/27/1997	97-15172-T609F	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U		
NW Shoreline	PZ-2	11/5/1997	97454182	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NW Shoreline	PZ-2	8/25/2010	PZ-2_100825	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	
Prefab	PZ-7	2/14/1997	97-2102-R661C	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U		
Prefab	PZ-7	8/27/1997	97-15177-T609K	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U		
Prefab	PZ-7	11/5/1997	97454189	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Prefab	PZ-7	2/22/2001	01-2347-CU21E	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U		
Prefab	PZ-7	12/12/2002	02-18579-FB89G	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	1 U	---	---	1 U	---	
Prefab	PZ-7	8/27/2010	PZ-7_100827	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	GWG-9	11/5/2010	GWG-9-W	N	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-13	3/18/1991	MW-13_910318	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	93	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-13	7/1/1991	MW-13_910701	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	72	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-19	2/22/2001	01-2345-CU21C	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U		
West Former Mill	MW-19	8/22/2001	DN25I	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	1 U	---	5 U	---	1 U	0.2 U	---	0.2 U	---	1 U	---	---	---	1 U	---	---	1 U	---		
West Former Mill	MW-20	9/2/1997	97-15361-T609N	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U		
West Former Mill	MW-23	10/15/1997	97-19428-U167A	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U		
West Former Mill	MW-23	2/22/2001	01-2364-CU22B	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U		
West Former Mill	MW-23	8/21/2001	DN18E	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	1 U	---	5 U	---	1 U	0.2 U	---	0.2 U	---	1 U	---	---	---	1 U	---	---	1 U	---		
West Former Mill	MW-23	12/13/2002	02-18589-FB89Q	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	1 U	---		
West Former Mill	MW-23	6/16/2003	K2304466-001	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	1 U	---	---	2 U	---		
West Former Mill	MW-23	8/25/2010	MW-23_100825	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-29	9/2/1997	97-15362-T609O	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U		
West Former Mill	MW-29	6/17/2003	K2304497-006	N	---	0.099 U	0.08 U	0.053 U	0.1 U	0.14 U	---	---	---	---	---	---	---	---	0.084 U	---	0.1 U	---	---	---	---	---	0.46 U	---	---	0.41 U	---		

**Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Parameter Units MTCA-B GW AS MSW					1,1,1,2-Tetrachloroethane (ug/L) NL	1,1,1-Trichloroethane (ug/L) 420000	1,1,2,2-Tetrachloroethane (ug/L) 4	1,1,2-Trichloroethane (ug/L) 16	1,1-Dichloroethane (ug/L) NL	1,1-Dichloroethane (ug/L) 3.2	1,1-Dichloropropene (ug/L) NL	1,2,3-Trichlorobenzene (ug/L) NL	1,2,3-Trichloropropane (ug/L) NL	1,2,4-Trichlorobenzene (ug/L) 70	1,2,4-Trimethylbenzene (ug/L) NL	1,2-Dibromo-3-Chloropropane (ug/L) NL	1,2-Dibromoethane (ug/L) NL	1,2-Dichlorobenzene (ug/L) 1300	1,2-Dichloroethane* (ug/L) 37	1,2-Dichloroethane (ug/L) NL	1,2-Dichloropropane (ug/L) 15	1,3,5-Trimethylbenzene (ug/L) NL	1,3-Dichlorobenzene (ug/L) 960	1,3-Dichloropropane (ug/L) NL	1,4-Dichlorobenzene (ug/L) 4.9	2,2-Dichloropropane (ug/L) NL	2-Butanone (ug/L) NL	2-Chloroethylvinylether (ug/L) NL	2-Chlorotoluene (ug/L) NL	2-Hexanone (ug/L) NL	4-Chlorotoluene (ug/L) NL						
Funct. Area	Loc ID	Date	Sample ID	Sample Type																																	
West Former Mill	MW-29	8/25/2010	MW-29_100825	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
West Former Mill	MW-29	11/11/2010	MW-29_101111	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
West Former Mill	MW-29	2/8/2011	MW-29_110208	N	---	---	---	---	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
West Former Mill	MW-29	5/20/2011	MW-29-110520	N	---	---	---	---	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
West Former Mill	MW-54	2/21/2001	01-2276-CU06B	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	---	1 U	---	1 U	1 U	---	1 U	---	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U				
West Former Mill	MW-54	8/22/2001	DN25H	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	1 U	---	5 U	---	1 U	0.2 U	---	0.2 U	---	1 U	---	---	---	1 U	---	---	---	---	---	---	---			
West Former Mill	MW-54	12/12/2002	02-18583-FB89K	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	1 U	---	---	---	---	---	---			
West Former Mill	MW-54	6/17/2003	K2304497-001	N	---	0.099 U	0.08 U	0.053 U	0.1 U	0.14 U	---	---	---	---	---	---	---	---	0.084 U	---	0.1 U	---	---	---	---	---	---	0.46 U	---	---	---	---	0.41 U	---			
West Former Mill	MW-54	8/26/2010	MW-54_100826	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
West Former Mill	MW-55	2/21/2001	01-2277-CU06C	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U				
West Former Mill	MW-55	8/22/2001	DN25F	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	1 U	---	5 U	---	1 U	0.2 U	---	0.2 U	---	1 U	---	---	---	---	1 U	---	---	---	---	---	---	---		
West Former Mill	MW-55	12/12/2002	02-18584-FB89L	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---		
West Former Mill	MW-55	6/18/2003	K2304556-004	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---		
West Former Mill	MW-55	8/26/2010	MW-55_100826	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-57	12/13/2002	02-18590-FB89R	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---		
West Former Mill	MW-57	6/17/2003	K2304497-007	N	---	0.099 U	0.08 U	0.053 U	0.1 U	0.14 U	---	---	---	---	---	---	---	---	0.084 U	---	0.1 U	---	---	---	---	---	---	---	0.46 U	---	---	---	---	0.41 U	---		
West Former Mill	MW-57	8/26/2010	MW-57_100826	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-60	11/11/2010	MW-60_101111	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-63	11/10/2010	MW-63_101110	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-63	2/8/2011	MW-63_110208	N	---	---	---	---	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-63	2/8/2011	MW-63_110208D	FD	---	---	---	---	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-63	5/20/2011	MW-63-110520	N	---	---	---	---	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-68	6/7/2011	MW-68-110607	N	---	---	---	---	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	PZ-3	2/14/1997	97-2104-R661E	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U			
West Former Mill	PZ-3	8/28/1997	97-15167-T609A	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	3 U	5 U	1 U	5 U	1 U	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	1 U	5 U	1 U			
West Former Mill	PZ-3	11/5/1997	97454183	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	PZ-3	2/22/2001	CU21A	N	---	1 U	1 U	1 U	1 U	1 U	---	---	---	---	---	---	---	---	1 U	---	1 U	---	---	---	---	---	---	---	5 U	---	---	---	---	---	---	---	
West Former Mill	PZ-3	8/21/2001	DN18B	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	1 U	---	5 U	---	1 U	0.2 U	---	0.2 U	---	1 U	---	---	---	---	1 U	---	---	---	---	---	---	---	---	
West Former Mill	PZ-3	12/12/2002	02-18576-FB89D	N	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	---	---	---	---	---	---	---	0.2 U	---	0.2 U	---	---	---	---	---	---	---	1 U	---	---	---	---	---	---	---	
West Former Mill	PZ-3	6/17/2003	K2304497-002	N	---	0.099 U	0.08 U	0.053 U	0.1 U	0.14 U	---	---	---	---	---	---	---	---	0.084 U	---	0.1 U	---	---	---	---	---	---	---	0.46 U	---	---	---	---	0.41 U	---	---	
West Former Mill	PZ-3	8/26/2010	PZ-3_100826	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

				4-isopropyltoluene (ug/L)	4-Methyl-2-Pentanone (ug/L)	Acetone (ug/L)	Acrolein (ug/L)	Acrylonitrile* (ug/L)	Benzene (ug/L)	Bromobenzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon Disulfide (ug/L)	Carbon Tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	cis-1,3-DICHLOROPROPENE (ug/L)	Dibromochloromethane (ug/L)	Dibromoethane (ug/L)	Ethyl Bromide (ug/L)	Ethylbenzene (ug/L)	Isopropylbenzene (ug/L)	m,p-Xylenes (ug/L)	Methyl iodide (ug/L)	Methylene chloride (ug/L)
MTCA-B				NL	NL	NL	290	1	23	NL	NL	17	140	970	NL	1.6	1600	NL	280	130	NL	NL	13	NL	NL	2100	NL	NL	NL	590
Funct. Area	Loc ID	Date	Sample ID																											
City Purchase	PA-19	8/26/2010	PA-19_100826	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
City Purchase	PZ-11	2/14/1997	97-2103-R661D	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
City Purchase	PZ-11	8/28/1997	97-15170-T609D	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
City Purchase	PZ-11	11/6/1997	97454188	---	---	---	---	---	---	---	---	---	---	---	10 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10 U
City Purchase	PZ-11	2/22/2001	01-2349-CU21G	1 U	5 U	5 U	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
City Purchase	PZ-11	8/23/2001	01-14633-DN28A	0.2 U	1 U	1.6	---	---	---	---	---	0.2 U	0.5 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	---	---	---	---	---	0.3 U
City Purchase	PZ-11	12/11/2002	02-18574-FB89B	0.2 U	1 U	3	---	---	---	---	---	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	---	---	---	---	---	---	0.3 U
City Purchase	PZ-11	6/19/2003	K2304594-002	---	2 U	2.8	---	---	---	---	---	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	---	---	---	---	---	---	0.3 U
City Purchase	PZ-11	8/27/2010	PZ-11_100827	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
City Purchase	PZ-12	2/28/1997	97-2822-R796B	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
City Purchase	PZ-12	8/28/1997	97-15171-T609E	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
City Purchase	PZ-12	11/6/1997	97454187	---	---	---	---	---	---	---	---	---	---	---	10 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10 U
City Purchase	PZ-12	2/22/2001	01-2348-CU21F	1 U	5 U	5 U	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
City Purchase	PZ-12	8/21/2001	DN18H	0.2 U	1 U	1 U	---	---	0.2 U	---	---	0.2 U	0.5 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	---	0.4 U	---	0.3 U
City Purchase	PZ-12	12/11/2002	02-18575-FB89C	0.2 U	1 U	1.1	---	---	---	---	---	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	---	---	---	---	---	---	0.3
City Purchase	PZ-12	6/19/2003	K2304594-003	---	2 U	1 J	---	---	---	---	---	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	---	---	---	---	---	---	0.3 U
City Purchase	PZ-12	8/27/2010	PZ-12_100827	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Former Mill	PZ-10	2/28/1997	97-2821-R796A	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
East Former Mill	PZ-10	8/27/1997	97-15175-T609I	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
East Former Mill	PZ-10	2/22/2001	01-2350-CU21H	1 U	5 U	5 U	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
East Former Mill	PZ-10	8/22/2001	DN25D	0.2 U	1 U	1 U	---	---	0.2 U	---	---	0.2 U	0.5 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	---	0.4 U	---	0.3 U
East Former Mill	PZ-10	12/13/2002	02-18587-FB89O	0.2 U	1 U	1 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	---	---	---	---	---	---	0.3 U
East Former Mill	PZ-10	6/19/2003	K2304594-001	---	2 U	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	---	---	---	---	---	---	0.3 U
East Former Mill	PZ-10	8/26/2010	PZ-10_100826	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Former Mill	PZ-13	2/14/1997	97-2100-R661A	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
East Former Mill	PZ-13	8/27/1997	97-15174-T609H	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
East Shoreline	MW-59	12/13/2002	02-18592-FB89T	0.2 U	1 U	1 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	---	---	---	---	---	---	0.3 U
East Shoreline	MW-59	6/19/2003	K2304594-006	---	2 U	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	---	---	---	---	---	---	0.3 U
East Shoreline	MW-59	8/27/2010	MW-59_100827	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	2/14/1997	97-2101-R661B	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
East Shoreline	PZ-9	8/27/1997	97-15176-T609J	9 U	45 U	45 U	450 U	90 U	---	9 U	9 U	9 U	9 U	18 U	9 U	9 U	9 U	18 U	9 U	18 U	9 U	9 U	9 U	9 U	18 U	---	9 U	---	9 U	18 U

**Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

				4-isopropyltoluene (ug/L)	4-Methyl-2-Pentanone (ug/L)	Acetone (ug/L)	Acrolein (ug/L)	Acrylonitrile* (ug/L)	Benzene (ug/L)	Bromobenzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon Disulfide (ug/L)	Carbon Tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	cis-1,3-DICHLOROPROPENE (ug/L)	Dibromochloromethane (ug/L)	Dibromoethane (ug/L)	Ethyl Bromide (ug/L)	Ethylbenzene (ug/L)	Isopropylbenzene (ug/L)	m,p-Xylenes (ug/L)	Methyl iodide (ug/L)	Methylene chloride (ug/L)
MTCA-B				NL	NL	NL	290	1	23	NL	NL	17	140	970	NL	1.6	1600	NL	280	130	NL	NL	13	NL	NL	2100	NL	NL	NL	590
Funct. Area	Loc ID	Date	Sample ID																											
East Shoreline	PZ-9	11/5/1997	97454185	---	---	---	---	---	---	---	---	---	---	---	2 J	---	---	---	---	---	---	---	---	---	---	---	---	---	---	42
East Shoreline	PZ-9	2/22/2001	01-2369-CU22G	1 U	5 U	5 U	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1.3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
East Shoreline	PZ-9	8/21/2001	PZ-9_010821	0.2 U	1 U	1 U	---	---	---	---	0.2 U	0.5 U	---	0.3	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	---	---	---	---	---	0.3 U
East Shoreline	PZ-9	12/13/2002	02-18586-FB89N	0.2 U	1 U	1 U	---	---	---	---	0.2 U	0.2 U	---	0.3	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	---	---	---	---	---	---	0.3 U
East Shoreline	PZ-9	6/19/2003	K2304594-005	---	2 U	1.1 J	---	---	---	---	0.2 U	0.2 U	---	0.13 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	0.2 U	0.2 U	---	---	---	---	---	---	0.3 U
East Shoreline	PZ-9	6/19/2003	K2304594-007	---	2 U	1.3 J	---	---	---	---	0.2 U	0.2 U	---	0.17 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	0.2 U	0.2 U	---	---	---	---	---	---	0.3 U
East Shoreline	PZ-9	8/26/2010	DUP-082610	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	8/26/2010	PZ-9_100826	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	11/10/2010	PZ-9_101110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	2/8/2011	PZ-9_110208	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	5/20/2011	PZ-09-110520	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	5/20/2011	PZ-09-110520D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---
Ennis Creek	PZ-5	2/13/1997	97-1959-R652D	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
Ennis Creek	PZ-5	8/28/1997	97-15169-T609C	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
Ennis Creek	PZ-5	2/22/2001	01-2366-CU22D	1 U	5 U	5 U	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
Ennis Creek	PZ-5	8/21/2001	DN18G	0.2 U	1 U	1 U	---	---	0.2 U	---	---	0.2 U	0.5 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	---	0.4 U	---	0.3 U
Ennis Creek	PZ-5	12/12/2002	02-18578-FB89F	0.2 U	1 U	1.4	---	---	---	---	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	0.2 U	---	---	---	---	---	---	0.3 U
Ennis Creek	PZ-5	6/18/2003	K2304556-001	---	2 U	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	0.2 U	---	---	---	---	---	---	0.3 U
Ennis Creek	PZ-5	8/27/2010	PZ-5_100827	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ennis Creek	PZ-6	2/13/1997	97-1958-R652C	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
Ennis Creek	PZ-6	8/28/1997	97-15168-T609B	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
Ennis Creek	PZ-6	2/22/2001	01-2346-CU21D	1 U	5 U	5 U	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
Ennis Creek	PZ-6	8/23/2001	01-14634-DN28B	0.2 U	1 U	1 U	---	---	---	---	0.2 U	0.5 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	---	---	---	---	---	---	0.3 U
Ennis Creek	PZ-6	12/11/2002	02-18573-FB89A	0.2 U	1 U	1	---	---	---	---	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	0.2 U	---	---	---	---	---	---	0.3 U
Ennis Creek	PZ-6	6/18/2003	K2304556-005	---	2 U	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	0.2 U	---	---	---	---	---	---	0.3 U
Ennis Creek	PZ-6	8/27/2010	PZ-6_100827	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Estuary	FR-1	2/22/2001	01-2367-CU22E	1 U	5 U	5 U	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U
Estuary	FR-1	8/22/2001	DN25B	0.2 U	1 U	1 U	---	---	0.2 U	---	---	0.2 U	0.5 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	---	0.4 U	---	0.3 U
Main Former Mill	GWG-1	11/4/2010	GWG-1-W	---	---	---	---	5 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Main Former Mill	MW-58	12/13/2002	02-18591-FB89S	0.2 U	1 U	2 J	---	---	---	---	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	0.2 U	---	---	---	---	---	---	0.3 U
Main Former Mill	MW-58	6/18/2003	K2304556-002	---	2 U	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	0.2 U	---	---	---	---	---	---	0.3 U

**Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

				4-isopropyltoluene (ug/L)	4-Methyl-2-Pentanone (ug/L)	Acetone (ug/L)	Acrolein (ug/L)	Acrylonitrile* (ug/L)	Benzene (ug/L)	Bromobenzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon Disulfide (ug/L)	Carbon Tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	cis-1,3-DICHLOROPROPENE (ug/L)	Dibromochloromethane (ug/L)	Dibromoethane (ug/L)	Ethyl Bromide (ug/L)	Ethylbenzene (ug/L)	Isopropylbenzene (ug/L)	m,p-Xylenes (ug/L)	Methyl iodide (ug/L)	Methylene chloride (ug/L)	
MTCA-B				NL	NL	NL	290	1	23	NL	NL	17	140	970	NL	1.6	1600	NL	280	130	NL	NL	13	NL	NL	2100	NL	NL	NL	590	
Funct. Area	Loc ID	Date	Sample ID																												
Main Former Mill	MW-58	8/27/2010	MW-58_100827	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	PIPE-1-SR23	1/7/2011	PIPE-1-SR23	---	---	---	---	20 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	PZ-4	2/13/1997	97-1960-R652E	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
Main Former Mill	PZ-4	8/27/1997	97-15173-T609G	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
Main Former Mill	PZ-4	11/5/1997	97454184	---	---	---	---	---	---	---	---	---	---	---	10 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10 U
Main Former Mill	PZ-4	2/22/2001	01-2363-CU22A	1 U	5 U	7.4	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
Main Former Mill	PZ-4	8/21/2001	DN18F	0.2 U	1 U	3.3	---	---	0.2 U	---	---	0.2 U	0.5 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	---	0.4 U	---	0.3 U	
Main Former Mill	PZ-4	12/12/2002	02-18577-FB89E	0.2 U	1 U	4.1	---	---	---	---	---	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	---	---	---	---	---	---	0.3 U	
Main Former Mill	PZ-4	6/17/2003	K2304497-004	---	0.41 U	2.3	---	---	---	---	---	0.075 U	0.063 U	---	0.12 U	0.14 U	0.09 U	0.089 U	0.098 U	0.12 U	---	0.078 U	0.059 U	---	---	---	---	---	---	0.091 U	
Main Former Mill	PZ-4	8/25/2010	PZ-4_100825	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
North Shoreline	MW-51	8/4/1998	98-15871-Y129C	1 U	5 U	28 J	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
North Shoreline	MW-51	2/22/2001	01-2351-CU21I	1 U	5 U	5 U	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
North Shoreline	MW-51	8/21/2001	DN18C	0.2 U	1 U	1 U	---	---	0.2	---	---	0.2 U	0.5 U	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2	0.2 U	0.2 U	---	---	0.2 U	---	0.4 U	---	0.3 U
North Shoreline	MW-51	12/12/2002	02-18580-FB89H	0.2 U	1 U	1 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	---	---	---	---	---	---	0.3	
North Shoreline	MW-51	6/18/2003	K2304556-003	---	2 U	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	---	---	---	---	---	---	0.3 U	
North Shoreline	MW-51	8/26/2010	MW-51_100826	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
North Shoreline	MW-56	2/22/2001	01-2365-CU22C	4.1	3.2 J	44	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
North Shoreline	MW-56	8/22/2001	DN25E	7.5	1.3	28	---	---	0.6	---	---	0.2 U	0.5 U	---	1.3	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2	0.2 U	0.2 U	---	---	0.9	---	0.4 U	---	0.3 U	
North Shoreline	MW-56	12/12/2002	02-18585-FB89M	8.1	1 U	1 U	---	---	---	---	---	0.2 U	0.2 U	---	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2	0.2 U	0.2 U	---	---	---	---	---	---	0.3	
North Shoreline	MW-56	6/19/2003	K2304594-008	---	2 U	13	---	---	---	---	---	0.2 U	0.2 U	---	0.29	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	---	0.2 U	0.2 U	---	---	---	---	---	---	0.3 U	
North Shoreline	MW-56	8/26/2010	MW-56_100826	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NW Shoreline	MW-28	8/25/2010	MW-28_100825	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NW Shoreline	MW-28	11/10/2010	MW-28_101110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NW Shoreline	MW-28	2/8/2011	MW-28_110208	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	---	---	---	---	---	---	---	---	---
NW Shoreline	MW-28	5/20/2011	MW-28-110520	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	---	---	---	---	---	---	---	---	---
NW Shoreline	MW-52	8/4/1998	98-15869-Y129A	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
NW Shoreline	MW-52	2/22/2001	01-2368-CU22F	1 U	5 U	5 U	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
NW Shoreline	MW-52	8/22/2001	DN25G	0.2 U	1 U	1 U	---	---	0.2 U	---	---	0.2 U	0.5 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	---	0.4 U	---	0.3 U	
NW Shoreline	MW-52	12/12/2002	02-18581-FB89I	0.2 U	1 U	1 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	---	---	---	---	---	---	0.3	
NW Shoreline	MW-52	6/16/2003	K2304466-002	---	2 U	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	---	---	---	---	---	---	0.3 U	
NW Shoreline	MW-52	8/25/2010	MW-52_100825	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

				4-isopropyltoluene (ug/L)	4-Methyl-2-Pentanone (ug/L)	Acetone (ug/L)	Acrolein (ug/L)	Acrylonitrile* (ug/L)	Benzene (ug/L)	Bromobenzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon Disulfide (ug/L)	Carbon Tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	cis-1,3-DICHLOROPROPENE (ug/L)	Dibromochloromethane (ug/L)	Dibromoethane (ug/L)	Ethyl Bromide (ug/L)	Ethylbenzene (ug/L)	Isopropylbenzene (ug/L)	m,p-Xylenes (ug/L)	Methyl iodide (ug/L)	Methylene chloride (ug/L)	
MTCA-B				NL	NL	NL	290	1	23	NL	NL	17	140	970	NL	1.6	1600	NL	280	130	NL	NL	13	NL	NL	2100	NL	NL	NL	590	
Funct. Area	Loc ID	Date	Sample ID																												
NW Shoreline	MW-53	2/21/2001	01-2275-CU06A	1 U	5 U	5 U	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
NW Shoreline	MW-53	8/21/2001	DN18A	0.2 U	1 U	1 U	---	---	0.2 U	---	---	0.2 U	0.5 U	---	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2	0.2 U	0.2 U	---	---	0.2 U	---	0.4 U	---	0.3 U	
NW Shoreline	MW-53	12/12/2002	02-18582-FB89J	0.2 U	1 U	1 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	1.7	0.2 U	0.2 U	---	---	---	---	---	---	0.3 U	
NW Shoreline	MW-53	6/16/2003	K2304466-003	---	2 U	1.2 J	---	---	---	---	---	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	---	---	---	---	---	---	0.3 U	
NW Shoreline	MW-53	8/26/2010	MW-53_100826	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NW Shoreline	MW-61	11/11/2010	MW-61_101111	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NW Shoreline	PZ-1	8/22/2001	DN25C	0.2 U	1 U	1 U	---	---	0.2 U	---	---	0.2 U	0.5 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	---	0.4 U	---	0.3 U	
NW Shoreline	PZ-2	2/13/1997	97-1957-R652B	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
NW Shoreline	PZ-2	8/27/1997	97-15172-T609F	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1.3	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
NW Shoreline	PZ-2	11/5/1997	97454182	---	---	---	---	---	---	---	---	---	---	---	10 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10 U
NW Shoreline	PZ-2	8/25/2010	PZ-2_100825	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Prefab	PZ-7	2/14/1997	97-2102-R661C	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
Prefab	PZ-7	8/27/1997	97-15177-T609K	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
Prefab	PZ-7	11/5/1997	97454189	---	---	---	---	---	---	---	---	---	---	---	10 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	42
Prefab	PZ-7	2/22/2001	01-2347-CU21E	1 U	5 U	5 U	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
Prefab	PZ-7	12/12/2002	02-18579-FB89G	0.2 U	1 U	1.8	---	---	---	---	---	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	---	---	---	---	---	---	0.3 U	
Prefab	PZ-7	8/27/2010	PZ-7_100827	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	GWG-9	11/5/2010	GWG-9-W	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-13	3/18/1991	MW-13_910318	---	---	10 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-13	7/1/1991	MW-13_910701	---	---	10 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-19	2/22/2001	01-2345-CU21C	1 U	5 U	5 U	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
West Former Mill	MW-19	8/22/2001	DN25I	0.2 U	1 U	1 U	---	---	0.2 U	---	---	0.2 U	0.5 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	---	0.4 U	---	0.3 U	
West Former Mill	MW-20	9/2/1997	97-15361-T609N	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
West Former Mill	MW-23	10/15/1997	97-19428-U167A	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
West Former Mill	MW-23	2/22/2001	01-2364-CU22B	1 U	5 U	5 U	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
West Former Mill	MW-23	8/21/2001	DN18E	0.2 U	1 U	1 U	---	---	0.6	---	---	0.2 U	0.5 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	---	0.4 U	---	0.3 U	
West Former Mill	MW-23	12/13/2002	02-18589-FB89Q	0.2 U	1 U	1.5 J	---	---	---	---	---	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	---	---	---	---	---	---	0.4	
West Former Mill	MW-23	6/16/2003	K2304466-001	---	2 U	2.3	---	---	---	---	---	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	---	---	---	---	---	---	0.1 J	
West Former Mill	MW-23	8/25/2010	MW-23_100825	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-29	9/2/1997	97-15362-T609O	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U	
West Former Mill	MW-29	6/17/2003	K2304497-006	---	0.41 U	1.5 J	---	---	---	---	---	0.075 U	0.063 U	---	0.12 U	0.14 U	0.09 U	0.089 U	0.098 U	0.12 U	---	0.078 U	0.059 U	---	---	---	---	---	---	0.091 U	

**Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Funct. Area	Loc ID	Date	Sample ID	4-isopropyltoluene	4-Methyl-2-Pentanone	Acetone	Acrolein	Acrylonitrile*	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-DICHLOROPROPENE	Dibromochloromethane	Dibromoethane	Ethyl Bromide	Ethylbenzene	Isopropylbenzene	m,p-Xylenes	Methyl iodide	Methylene chloride		
				(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MTCA-B				NL	NL	NL	290	1	23	NL	NL	17	140	970	NL	1.6	1600	NL	280	130	NL	NL	13	NL	NL	2100	NL	NL	NL	590		
West Former Mill	MW-29	8/25/2010	MW-29_100825	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-29	11/11/2010	MW-29_101111	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-29	2/8/2011	MW-29_110208	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-29	5/20/2011	MW-29-110520	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-54	2/21/2001	01-2276-CU06B	1 U	5 U	5 U	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U		
West Former Mill	MW-54	8/22/2001	DN25H	0.2 U	1 U	1 U	---	---	0.2 U	---	---	0.2 U	0.5 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	---	0.4 U	---	0.3 U	
West Former Mill	MW-54	12/12/2002	02-18583-FB89K	0.2 U	1 U	1 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	0.2 U	---	---	---	---	---	---	0.3 U	
West Former Mill	MW-54	6/17/2003	K2304497-001	---	0.41 U	0.55 U	---	---	---	---	---	0.075 U	0.063 U	---	0.12 U	0.14 U	0.09 U	0.089 U	0.098 U	0.12 U	---	0.078 U	0.059 U	---	---	---	---	---	---	---	0.091 U	
West Former Mill	MW-54	8/26/2010	MW-54_100826	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-55	2/21/2001	01-2277-CU06C	1 U	5 U	5 U	50 U	5 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U		
West Former Mill	MW-55	8/22/2001	DN25F	0.2 U	1 U	1 U	---	---	0.2 U	---	---	0.2 U	0.5 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	---	0.4 U	---	0.3 U	
West Former Mill	MW-55	12/12/2002	02-18584-FB89L	0.2 U	1 U	1 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	0.2 U	---	---	---	---	---	---	0.3 U	
West Former Mill	MW-55	6/18/2003	K2304556-004	---	2 U	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	0.2 U	---	---	---	---	---	---	---	0.3 U	
West Former Mill	MW-55	8/26/2010	MW-55_100826	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-57	12/13/2002	02-18590-FB89R	0.2 U	1 U	1.9 J	---	---	---	---	---	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	0.2 U	---	---	---	---	---	---	0.3 U	
West Former Mill	MW-57	6/17/2003	K2304497-007	---	0.41 U	0.55 U	---	---	---	---	---	0.075 U	0.063 U	---	0.12 U	0.14 U	0.09 U	0.089 U	0.098 U	0.12 U	---	0.078 U	0.059 U	---	---	---	---	---	---	---	0.091 U	
West Former Mill	MW-57	8/26/2010	MW-57_100826	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-60	11/11/2010	MW-60_101111	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-63	11/10/2010	MW-63_101110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-63	2/8/2011	MW-63_110208	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-63	2/8/2011	MW-63_110208D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-63	5/20/2011	MW-63-110520	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	MW-68	6/7/2011	MW-68-110607	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	---	---	---	---	---	---	---
West Former Mill	PZ-3	2/14/1997	97-2104-R661E	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U		
West Former Mill	PZ-3	8/28/1997	97-15167-T609A	1 U	5 U	5 U	50 U	10 U	---	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U	1 U	2 U	---	1 U	---	1 U	2 U		
West Former Mill	PZ-3	11/5/1997	97454183	---	---	---	---	---	---	---	---	---	---	---	10 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10 U
West Former Mill	PZ-3	2/22/2001	CU21A	1 U	5 U	5 U	---	---	---	---	---	1 U	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	---	---	---	---	---	---	2 U	
West Former Mill	PZ-3	8/21/2001	DN18B	0.2 U	1 U	1 U	---	---	0.2 U	---	---	0.2 U	0.5 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	---	0.4 U	---	0.3 U	
West Former Mill	PZ-3	12/12/2002	02-18576-FB89D	0.2 U	1 U	1 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	0.2 U	---	---	---	---	---	---	0.3 U	
West Former Mill	PZ-3	6/17/2003	K2304497-002	---	0.41 U	1.3 J	---	---	---	---	---	0.075 U	0.063 U	---	0.12 U	0.14 U	0.09 U	0.089 U	0.098 U	0.12 U	---	0.078 U	0.059 U	---	---	---	---	---	---	---	0.091 U	
West Former Mill	PZ-3	8/26/2010	PZ-3_100826	---	---	---	---	1 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Funct. Area	Loc ID	Date	Sample ID	MTCA-B															
				n-Butylbenzene (ug/L) NL	o-Xylene (ug/L) NL	Propylbenzene (ug/L) NL	sec-Butylbenzene (ug/L) NL	Styrene (ug/L) NL	tert-Butylbenzene (ug/L) NL	Tetrachloroethene (PCE)* (ug/L) 0.39	trans-1,2-Dichloroethene (ug/L) 10000	trans-1,3-DICHLOROPROPENE (ug/L) NL	trans-1,4-DICHLORO-2-BUTENE (ug/L) NL	Trichloroethene (TCE)* (ug/L) 6.7	Trichlorofluoromethane (ug/L) NL	Trichlorotrifluoroethane (ug/L) NL	Vinyl Acetate (ug/L) NL	Vinyl chloride* (ug/L) 2.4	Xylenes (ug/L) 1000
City Purchase	PA-19	8/26/2010	PA-19_100826	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---
City Purchase	PZ-11	2/14/1997	97-2103-R661D	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---
City Purchase	PZ-11	8/28/1997	97-15170-T609D	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---
City Purchase	PZ-11	11/6/1997	97454188	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
City Purchase	PZ-11	2/22/2001	01-2349-CU21G	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---
City Purchase	PZ-11	8/23/2001	01-14633-DN28A	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---
City Purchase	PZ-11	12/11/2002	02-18574-FB89B	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---
City Purchase	PZ-11	6/19/2003	K2304594-002	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---
City Purchase	PZ-11	8/27/2010	PZ-11_100827	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---
City Purchase	PZ-12	2/28/1997	97-2822-R796B	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---
City Purchase	PZ-12	8/28/1997	97-15171-T609E	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---
City Purchase	PZ-12	11/6/1997	97454187	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
City Purchase	PZ-12	2/22/2001	01-2348-CU21F	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---
City Purchase	PZ-12	8/21/2001	DN18H	---	0.2 U	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	0.6 U
City Purchase	PZ-12	12/11/2002	02-18575-FB89C	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---
City Purchase	PZ-12	6/19/2003	K2304594-003	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---
City Purchase	PZ-12	8/27/2010	PZ-12_100827	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---
East Former Mill	PZ-10	2/28/1997	97-2821-R796A	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---
East Former Mill	PZ-10	8/27/1997	97-15175-T609I	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---
East Former Mill	PZ-10	2/22/2001	01-2350-CU21H	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---
East Former Mill	PZ-10	8/22/2001	DN25D	---	0.2 U	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	0.6 U
East Former Mill	PZ-10	12/13/2002	02-18587-FB89O	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---
East Former Mill	PZ-10	6/19/2003	K2304594-001	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---
East Former Mill	PZ-10	8/26/2010	PZ-10_100826	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---
East Former Mill	PZ-13	2/14/1997	97-2100-R661A	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---
East Former Mill	PZ-13	8/27/1997	97-15174-T609H	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---
East Shoreline	MW-59	12/13/2002	02-18592-FB89T	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---
East Shoreline	MW-59	6/19/2003	K2304594-006	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---
East Shoreline	MW-59	8/27/2010	MW-59_100827	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---
East Shoreline	PZ-9	2/14/1997	97-2101-R661B	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---
East Shoreline	PZ-9	8/27/1997	97-15176-T609J	9 U	---	9 U	9 U	9 U	9 U	9 U	9 U	9 U	45 U	9 U	18 U	45 U	45 U	18 U	---

**Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Funct. Area	Loc ID	Date	Sample ID	MTCA-B	n-Butylbenzene	o-Xylene	Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)*	trans-1,2-Dichloroethene	trans-1,3-DICHLOROPROPENE	trans-1,4-DICHLORO-2-BUTENE	Trichloroethene (TCE)*	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl Acetate	Vinyl chloride*	Xylenes	
				NL	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
East Shoreline	PZ-9	11/5/1997	97454185	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	PZ-9	2/22/2001	01-2369-CU22G	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---	---	
East Shoreline	PZ-9	8/21/2001	PZ-9_010821	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	9.6	---	---	0.2 U	0.2 U	---	---	
East Shoreline	PZ-9	12/13/2002	02-18586-FB89N	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	---	
East Shoreline	PZ-9	6/19/2003	K2304594-005	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	---	
East Shoreline	PZ-9	6/19/2003	K2304594-007	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	---	
East Shoreline	PZ-9	8/26/2010	DUP-082610	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	---	0.2 U	---	
East Shoreline	PZ-9	8/26/2010	PZ-9_100826	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	---	0.2 U	---	
East Shoreline	PZ-9	11/10/2010	PZ-9_101110	---	---	---	---	---	---	---	---	---	---	1 U	---	---	---	---	1 U	---	
East Shoreline	PZ-9	2/8/2011	PZ-9_110208	---	---	---	---	---	---	0.2 U	0.2 U	---	---	0.2 U	---	---	---	---	0.2 U	---	
East Shoreline	PZ-9	5/20/2011	PZ-09-110520	---	---	---	---	---	---	0.2 U	0.2 U	---	---	0.2 U	---	---	---	---	0.2 U	---	
East Shoreline	PZ-9	5/20/2011	PZ-09-110520D	---	---	---	---	---	---	0.2 U	0.2 U	---	---	0.2 U	---	---	---	---	0.2 U	---	
Ennis Creek	PZ-5	2/13/1997	97-1959-R652D	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---	---	
Ennis Creek	PZ-5	8/28/1997	97-15169-T609C	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---	---	
Ennis Creek	PZ-5	2/22/2001	01-2366-CU22D	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---	---	
Ennis Creek	PZ-5	8/21/2001	DN18G	---	0.2 U	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	0.6 U	---	
Ennis Creek	PZ-5	12/12/2002	02-18578-FB89F	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	---	
Ennis Creek	PZ-5	6/18/2003	K2304556-001	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	---	
Ennis Creek	PZ-5	8/27/2010	PZ-5_100827	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	---	0.2 U	---	
Ennis Creek	PZ-6	2/13/1997	97-1958-R652C	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---	---	
Ennis Creek	PZ-6	8/28/1997	97-15168-T609B	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---	---	
Ennis Creek	PZ-6	2/22/2001	01-2346-CU21D	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---	---	
Ennis Creek	PZ-6	8/23/2001	01-14634-DN28B	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	---	
Ennis Creek	PZ-6	12/11/2002	02-18573-FB89A	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	---	
Ennis Creek	PZ-6	6/18/2003	K2304556-005	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	---	
Ennis Creek	PZ-6	8/27/2010	PZ-6_100827	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	---	0.2 U	---	
Estuary	FR-1	2/22/2001	01-2367-CU22E	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---	---	
Estuary	FR-1	8/22/2001	DN25B	---	0.2 U	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	0.6 U	---	
Main Former Mill	GWG-1	11/4/2010	GWG-1-W	---	---	---	---	---	---	1 U	---	---	---	1 U	---	---	---	---	1 U	---	
Main Former Mill	MW-58	12/13/2002	02-18591-FB89S	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	---	
Main Former Mill	MW-58	6/18/2003	K2304556-002	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	---	

**Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Funct. Area	Loc ID	Date	Sample ID	MTCA-B															
				n-Butylbenzene (ug/L) NL	o-Xylene (ug/L) NL	Propylbenzene (ug/L) NL	sec-Butylbenzene (ug/L) NL	Styrene (ug/L) NL	tert-Butylbenzene (ug/L) NL	Tetrachloroethene (PCE)* (ug/L) 0.39	trans-1,2-Dichloroethene (ug/L) 10000	trans-1,3-DICHLOROPROPENE (ug/L) NL	trans-1,4-DICHLORO-2-BUTENE (ug/L) NL	Trichloroethene (TCE)* (ug/L) 6.7	Trichlorofluoromethane (ug/L) NL	Trichlorotrifluoroethane (ug/L) NL	Vinyl Acetate (ug/L) NL	Vinyl chloride* (ug/L) 2.4	Xylenes (ug/L) 1000
Main Former Mill	MW-58	8/27/2010	MW-58_100827	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---
Main Former Mill	PIPE-1-SR23	1/7/2011	PIPE-1-SR23	---	---	---	---	---	---	4 U	---	---	---	4 U	---	---	---	4 U	---
Main Former Mill	PZ-4	2/13/1997	97-1960-R652E	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---
Main Former Mill	PZ-4	8/27/1997	97-15173-T609G	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---
Main Former Mill	PZ-4	11/5/1997	97454184	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Main Former Mill	PZ-4	2/22/2001	01-2363-CU22A	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---
Main Former Mill	PZ-4	8/21/2001	DN18F	---	0.2 U	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	0.6 U
Main Former Mill	PZ-4	12/12/2002	02-18577-FB89E	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---
Main Former Mill	PZ-4	6/17/2003	K2304497-004	---	---	---	---	0.097 U	---	0.11 U	0.1 U	0.066 U	---	0.11 U	---	---	0.087 U	0.097 U	---
Main Former Mill	PZ-4	8/25/2010	PZ-4_100825	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---
North Shoreline	MW-51	8/4/1998	98-15871-Y129C	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---
North Shoreline	MW-51	2/22/2001	01-2351-CU21I	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---
North Shoreline	MW-51	8/21/2001	DN18C	---	0.2 U	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	0.6 U
North Shoreline	MW-51	12/12/2002	02-18580-FB89H	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---
North Shoreline	MW-51	6/18/2003	K2304556-003	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.12 J	---
North Shoreline	MW-51	8/26/2010	MW-51_100826	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---
North Shoreline	MW-56	2/22/2001	01-2365-CU22C	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---
North Shoreline	MW-56	8/22/2001	DN25E	---	0.3	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.3	---	---	0.2 U	0.2 U	0.6 U
North Shoreline	MW-56	12/12/2002	02-18585-FB89M	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.3	---	---	0.2 U	0.2 U	---
North Shoreline	MW-56	6/19/2003	K2304594-008	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---
North Shoreline	MW-56	8/26/2010	MW-56_100826	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---
NW Shoreline	MW-28	8/25/2010	MW-28_100825	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---
NW Shoreline	MW-28	11/10/2010	MW-28_101110	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---
NW Shoreline	MW-28	2/8/2011	MW-28_110208	---	---	---	---	---	---	0.2 U	0.2 U	---	---	0.2 U	---	---	---	0.2 U	---
NW Shoreline	MW-28	5/20/2011	MW-28-110520	---	---	---	---	---	---	0.2 U	0.2 U	---	---	0.2 U	---	---	---	0.2 U	---
NW Shoreline	MW-52	8/4/1998	98-15869-Y129A	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---
NW Shoreline	MW-52	2/22/2001	01-2368-CU22F	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---
NW Shoreline	MW-52	8/22/2001	DN25G	---	0.2 U	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2	---	---	0.2 U	0.2 U	0.6 U
NW Shoreline	MW-52	12/12/2002	02-18581-FB89I	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---
NW Shoreline	MW-52	6/16/2003	K2304466-002	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---
NW Shoreline	MW-52	8/25/2010	MW-52_100825	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---

**Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Funct. Area	Loc ID	Date	Sample ID	MTCA-B																
				n-Butylbenzene (ug/L) NL	o-Xylene (ug/L) NL	Propylbenzene (ug/L) NL	sec-Butylbenzene (ug/L) NL	Styrene (ug/L) NL	tert-Butylbenzene (ug/L) NL	Tetrachloroethene (PCE)* (ug/L) 0.39	trans-1,2-Dichloroethene (ug/L) 10000	trans-1,3-DICHLOROPROPENE (ug/L) NL	trans-1,4-DICHLORO-2-BUTENE (ug/L) NL	Trichloroethene (TCE)* (ug/L) 6.7	Trichlorofluoromethane (ug/L) NL	Trichlorotrifluoroethane (ug/L) NL	Vinyl Acetate (ug/L) NL	Vinyl chloride* (ug/L) 2.4	Xylenes (ug/L) 1000	
NW Shoreline	MW-53	2/21/2001	01-2275-CU06A	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---	
NW Shoreline	MW-53	8/21/2001	DN18A	---	0.2 U	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	0.6 U	
NW Shoreline	MW-53	12/12/2002	02-18582-FB89J	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	
NW Shoreline	MW-53	6/16/2003	K2304466-003	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	
NW Shoreline	MW-53	8/26/2010	MW-53_100826	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---	
NW Shoreline	MW-61	11/11/2010	MW-61_101111	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	
NW Shoreline	PZ-1	8/22/2001	DN25C	---	0.2 U	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	0.6 U	
NW Shoreline	PZ-2	2/13/1997	97-1957-R652B	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---	
NW Shoreline	PZ-2	8/27/1997	97-15172-T609F	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1	2 U	5 U	5 U	2 U	---	
NW Shoreline	PZ-2	11/5/1997	97454182	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NW Shoreline	PZ-2	8/25/2010	PZ-2_100825	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---	
Prefab	PZ-7	2/14/1997	97-2102-R661C	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---	
Prefab	PZ-7	8/27/1997	97-15177-T609K	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---	
Prefab	PZ-7	11/5/1997	97454189	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Prefab	PZ-7	2/22/2001	01-2347-CU21E	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---	
Prefab	PZ-7	12/12/2002	02-18579-FB89G	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	
Prefab	PZ-7	8/27/2010	PZ-7_100827	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---	
West Former Mill	GWG-9	11/5/2010	GWG-9-W	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---	
West Former Mill	MW-13	3/18/1991	MW-13_910318	---	---	---	---	---	---	---	---	---	---	7	---	---	---	26	---	
West Former Mill	MW-13	7/1/1991	MW-13_910701	---	---	---	---	---	---	---	---	---	---	2 U	---	---	---	34	---	
West Former Mill	MW-19	2/22/2001	01-2345-CU21C	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---	
West Former Mill	MW-19	8/22/2001	DN25I	---	0.2 U	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2	---	---	0.2 U	0.2 U	0.6 U	
West Former Mill	MW-20	9/2/1997	97-15361-T609N	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---	
West Former Mill	MW-23	10/15/1997	97-19428-U167A	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---	
West Former Mill	MW-23	2/22/2001	01-2364-CU22B	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---	
West Former Mill	MW-23	8/21/2001	DN18E	---	0.2 U	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	0.6 U	
West Former Mill	MW-23	12/13/2002	02-18589-FB89Q	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	
West Former Mill	MW-23	6/16/2003	K2304466-001	---	---	---	---	0.2	---	0.2 U	0.2 U	0.2 U	---	0.14 J	---	---	0.2 U	0.2 U	---	
West Former Mill	MW-23	8/25/2010	MW-23_100825	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---	
West Former Mill	MW-29	9/2/1997	97-15362-T609O	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---	
West Former Mill	MW-29	6/17/2003	K2304497-006	---	---	---	---	0.097 U	---	0.11 U	0.1 U	0.066 U	---	0.11 U	---	---	0.087 U	0.097 U	---	

**Volatile Organic Compounds in Groundwater
Port Angeles Rayonier Mill Uplands Study Area**

Funct. Area	Loc ID	Date	Sample ID	MTC-A-B																
				n-Butylbenzene (ug/L) NL	o-Xylene (ug/L) NL	Propylbenzene (ug/L) NL	sec-Butylbenzene (ug/L) NL	Styrene (ug/L) NL	tert-Butylbenzene (ug/L) NL	Tetrachloroethene (PCE)* (ug/L) 0.39	trans-1,2-Dichloroethene (ug/L) 10000	trans-1,3-DICHLOROPROPENE (ug/L) NL	trans-1,4-DICHLORO-2-BUTENE (ug/L) NL	Trichloroethene (TCE)* (ug/L) 6.7	Trichlorofluoromethane (ug/L) NL	Trichlorotrifluoroethane (ug/L) NL	Vinyl Acetate (ug/L) NL	Vinyl chloride* (ug/L) 2.4	Xylenes (ug/L) 1000	
West Former Mill	MW-29	8/25/2010	MW-29_100825	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---	
West Former Mill	MW-29	11/11/2010	MW-29_101111	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	
West Former Mill	MW-29	2/8/2011	MW-29_110208	---	---	---	---	---	---	0.2 U	0.2 U	---	---	0.2 U	---	---	---	0.2 U	---	
West Former Mill	MW-29	5/20/2011	MW-29-110520	---	---	---	---	---	---	0.2 U	0.2 U	---	---	0.2 U	---	---	---	0.2 U	---	
West Former Mill	MW-54	2/21/2001	01-2276-CU06B	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---	
West Former Mill	MW-54	8/22/2001	DN25H	---	0.2 U	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	0.6 U	
West Former Mill	MW-54	12/12/2002	02-18583-FB89K	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	
West Former Mill	MW-54	6/17/2003	K2304497-001	---	---	---	---	0.097 U	---	0.11 U	0.1 U	0.066 U	---	0.11 U	---	---	0.087 U	0.097 U	---	
West Former Mill	MW-54	8/26/2010	MW-54_100826	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---	
West Former Mill	MW-55	2/21/2001	01-2277-CU06C	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	2 U	5 U	1 U	---	
West Former Mill	MW-55	8/22/2001	DN25F	---	0.2 U	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	0.6 U	
West Former Mill	MW-55	12/12/2002	02-18584-FB89L	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	
West Former Mill	MW-55	6/18/2003	K2304556-004	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	
West Former Mill	MW-55	8/26/2010	MW-55_100826	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---	
West Former Mill	MW-57	12/13/2002	02-18590-FB89R	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	
West Former Mill	MW-57	6/17/2003	K2304497-007	---	---	---	---	0.097 U	---	0.11 U	0.1 U	0.066 U	---	0.11 U	---	---	0.087 U	0.097 U	---	
West Former Mill	MW-57	8/26/2010	MW-57_100826	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---	
West Former Mill	MW-60	11/11/2010	MW-60_101111	---	---	---	---	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	
West Former Mill	MW-63	11/10/2010	MW-63_101110	---	---	---	---	---	---	---	---	---	---	0.8	---	---	---	0.7	---	
West Former Mill	MW-63	2/8/2011	MW-63_110208	---	---	---	---	---	---	0.2 U	0.2 U	---	---	2.7	---	---	---	0.2	---	
West Former Mill	MW-63	2/8/2011	MW-63_110208D	---	---	---	---	---	---	0.2 U	0.2 U	---	---	2.7	---	---	---	0.2	---	
West Former Mill	MW-63	5/20/2011	MW-63-110520	---	---	---	---	---	---	0.2 U	0.2 U	---	---	1.4	---	---	---	0.4	---	
West Former Mill	MW-68	6/7/2011	MW-68-110607	---	---	---	---	---	---	0.2 U	0.2 U	---	---	0.2 U	---	---	---	0.2 U	---	
West Former Mill	PZ-3	2/14/1997	97-2104-R661E	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---	
West Former Mill	PZ-3	8/28/1997	97-15167-T609A	1 U	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	2 U	5 U	5 U	2 U	---	
West Former Mill	PZ-3	11/5/1997	97454183	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	PZ-3	2/22/2001	CU21A	---	---	---	---	1 U	---	1 U	1 U	1 U	---	1 U	---	---	5 U	1 U	---	
West Former Mill	PZ-3	8/21/2001	DN18B	---	0.2 U	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	0.6 U	
West Former Mill	PZ-3	12/12/2002	02-18576-FB89D	---	---	---	---	0.2 U	---	0.2 U	0.2 U	0.2 U	---	0.2 U	---	---	0.2 U	0.2 U	---	
West Former Mill	PZ-3	6/17/2003	K2304497-002	---	---	---	---	0.097 U	---	0.11 U	0.1 U	0.066 U	---	0.11 U	---	---	0.087 U	0.097 U	---	
West Former Mill	PZ-3	8/26/2010	PZ-3_100826	---	---	---	---	---	---	0.2 U	---	---	---	0.2 U	---	---	---	0.2 U	---	

GROUNDWATER FIELD PARAMETERS
Port Angeles Rayonier Mill Upland Study Area
Port Angeles, Washington

Location	Sample Date	pH	Electrical Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/l)	Temp (Celsius)	TDS (g/l)	Redox (mV)	Salinity (%)	Sea Water Potential
MW-23	8/25/2010	8.04	1.37	66.0	0.36	16.66	0.9	129	0.1	0
	11/10/2010	7.93	1.50	1.20	0.68	15.00	0.9	-144	0.1	0
	2/9/2011	8.06	1.45	0.600	1.76	11.96	0.9	-88	0.1	0
	5/19/2011	7.83	1.4	2.00	1.85	11.20	0.9	-45	0.1	0
MW-28	8/25/2010	9.49	1.86	54.0	0.00	17.15	1.2	-159	0.1	0
	11/10/2010	9.39	1.80	6.30	1.36	15.40	1.2	-248	0.1	0
	2/8/2011	9.67	1.90	12.5	1.89	13.20	1.2	-229	0.1	0
	5/20/2011	9.33	2.09	11.4	0.60	14.06	1.3	-236	0.1	0
MW-29	8/25/2010	10.3	1.14	3.00	0.00	16.80	0.7	-264	0.1	0
	11/11/2010	11.11	1.32	2.39	0.60	10.80	-	-358	-	-
	2/8/2011	10.86	1.10	14.8	0.89	11.80	0.7	-294	0	0
	5/20/2011	9.68	1.09	0.850	1.13	13.17	0.7	-302	0	0
MW-51	8/26/2010	6.73	5.10	29.0	0.00	13.75	3.2	-148	0.3	1
	11/10/2010	7.88	3.72	3.86	0.50	10.40	-	-243	-	-
	2/11/2011	6.88	7.30	9.80	1.17	12.10	4.6	-157	0.4	2
	5/19/2011	6.91	4.40	2.00	0.98	11.30	2.8	-128	0.2	1
MW-52	8/25/2010	7.25	0.456	8.00	0.00	14.25	0.3	-34	0	0
	11/8/2010	7.32	0.456	1.61	0.90	14.40	-	50	-	-
	2/9/2011	7.44	0.432	7.96	1.37	12.36	0.29	-39	0	0
	5/17/2011	7.33	0.42	1.00	1.43	11.20	0.28	104	0	0
MW-53	8/26/2010	6.87	1.28	24.0	0.00	17.61	0.8	-163	0.1	0
	2/11/2011	7.13	1.10	0.970	1.60	11.96	0.7	-89	0	0
	5/18/2011	6.97	1.13	0.940	0.37	13.04	0.7	-83	0.1	0
MW-54	8/26/2010	6.64	41.6	8.40	0.98	13.50	25	-333	2.6	20
	11/11/2010	7.96	55.8	2.16	0.50	10.20	-	-283	-	-
	2/10/2011	6.70	33.3	2.00	1.50	12.08	20	-311	2.1	16
	5/18/2011	6.73	33.8	4.45	0.15	12.24	21	-280	2.1	16
MW-55	8/26/2010	7.22	41.8	7.80	1.98	13.40	26	-349	2.7	0
	11/8/2010	7.81	49.5	3.95	0.60	13.70	-	-180	-	-
	2/10/2011	7.49	37.7	2.12	1.47	11.89	23	-163	2.4	18
	5/19/2011	7.37	40.1	1.08	0.75	11.98	24	-231	2.5	19
MW-56	8/26/2010	11.47	3.60	41.0	0.98	13.10	2.3	-381	0.2	1
	11/9/2010	11.30	3.59	23.1	0.40	9.70	-	-372	-	-
	2/11/2011	11.59	3.30	8.50	0.82	11.10	2.1	-328	0.2	1
	5/18/2011	11.44	3.20	5.00	2.84	11.80	2.0	-271	0.1	1
MW-57	8/26/2010	6.91	2.13	201	0.00	14.81	1.4	-121	0.1	0
	11/8/2010	7.06	2.00	4.95	0.40	11.60	-	-25	-	-
	2/11/2011	7.02	2.02	25.0	1.69	12.45	1.3	-65	0.1	0
	5/20/2011	6.8	2.1	51.7	1.17	13.17	1.3	-60	0.1	0
MW-58	8/27/2010	6.84	0.904	320	0.00	14.00	0.58	-70	0	0
	11/11/2010	7.04	1.11	11.4	0.60	8.90	-	-78	-	-
	2/11/2011	6.98	0.835	8.90	0.78	10.20	0.54	-30	0	0
	5/19/2011	6.92	0.735	8.00	2.71	10.50	0.24	-91	0	0
MW-59	8/27/2010	6.84	0.712	41.7	0.00	14.61	0.46	-113	0	0
	11/10/2010	7.30	0.744	9.14	0.50	11.10	-	-138	-	-
	2/10/2011	6.80	0.667	27.2	0.87	10.90	0.43	-115	0	0
	5/18/2011	6.77	0.528	8.00	1.08	11.20	0.34	-112	0	0
MW-60	11/11/2010	6.71	1.90	2.00	0.68	14.20	1.2	-299	0.1	0
	2/9/2011	6.77	1.47	1.46	1.93	9.66	0.9	-71	0.1	0
	5/19/2011	6.82	1.30	2.00	3.53	11.10	0.8	-97	0.1	0
MW-61	11/11/2010	7.35	0.968	9.80	0.86	13.40	0.62	-228	0	0
	2/11/2011	7.30	1.09	0.91	1.81	9.98	0.7	-142	0	0
	5/18/2011	7.28	0.870	1.27	0.37	11.80	0.56	-131	0	0
MW-62	11/9/2010	7.68	9.00	278	1.18	13.70	5.6	-102	0.5	3
	2/10/2011	7.41	7.00	27.3	-	11.10	4.4	51	0.4	3
	5/18/2011	7.22	3.20	18.0	3.96	11.30	2.0	58	0.2	1
MW-63	11/10/2010	6.98	1.70	8.30	0.85	14.80	1.1	-143	0.1	0
	2/8/2011	6.90	1.50	16.0	0.82	10.50	0.9	-97	0.1	0
	5/20/2011	6.90	1.80	3.00	0.86	11.20	1.2	-88	0.1	0
MW-64	11/8/2010	5.85	0.197	7.00	3.46	11.20	0.13	198	0	0
	2/7/2011	6.17	0.200	0.330	8.38	8.91	0.13	171	0	0
	5/17/2011	5.79	0.237	1.11	1.72	11.12	0.15	227	0	0
MW-65	3/11/2011	6.92	0.980	6.98	0.00	11.58	0.6	-118	0	0
	5/18/2011	7.02	0.990	9.74	0.29	12.05	0.6	-106	0	0
MW-66	3/11/2011	6.65	2.74	6.63	0.01	12.89	1.7	-216	0.1	1
	5/18/2011	6.65	1.75	9.97	0.15	13.07	1.1	-180	0.1	0

GROUNDWATER FIELD PARAMETERS
Port Angeles Rayonier Mill Upland Study Area
Port Angeles, Washington

Location	Sample Date	pH	Electrical Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/l)	Temp (Celsius)	TDS (g/l)	Redox (mV)	Salinity (%)	Sea Water Potential
MW-67	3/11/2011	7.72	1.30	4.54	0.07	11.98	0.8	-341	0.1	0
	5/18/2011	8.06	1.12	0.62	0.21	13.11	0.7	-181	0	0
MW-68	6/7/2011	7.91	1.50	8.50	0.98	13.40	1.0	131	0.1	0
MW-69	5/18/2011	6.82	0.634	5.00	1.26	12.30	0.43	-90	0	0
MW-70	5/18/2011	5.84	0.250	3.00	4.10	12.10	0.16	169	0	0
PA-15	11/9/2010	7.38	2.45	4.62	0.50	10.10	-	-70	-	-
	2/8/2011	7.47	2.10	5.23	1.48	9.46	1.3	-25	0.1	1
	5/18/2011	7.21	1.54	4.28	0.27	11.53	1.0	12	0.1	0
PA-17	2/11/2011	6.95	0.574	8.70	0.87	11.70	0.36	-64	0	0
	5/17/2011	6.85	0.605	17.0	1.93	12.60	0.42	-60	0	0
PA-19	8/26/2010	6.18	0.398	19.7	0.98	15.40	0.26	37	0	0
	11/11/2010	6.40	0.411	6.60	0.89	13.90	0.27	86	0	0
	2/9/2011	6.34	0.338	19.2	0.85	9.20	0.22	105	0	0
	5/18/2011	6.31	0.351	5.00	1.24	11.40	0.23	32	0	0
PA-23	11/8/2010	6.40	0.283	3.00	0.98	13.50	0.18	-95	0	0
	2/7/2011	6.69	0.287	4.00	4.37	13.78	0.19	-68	0	0
	5/17/2011	6.38	0.333	4.64	0.62	12.85	0.22	-71	0	0
PA-24	11/9/2010	6.52	0.558	40.2	1.21	13.80	0.36	-20	0	0
	2/10/2011	6.71	0.210	8.10	6.84	8.90	0.14	64	0	0
	5/18/2011	6.74	0.272	5.00	0.82	10.90	0.18	28	0	0
PZ-2	8/25/2010	8.05	1.36	8.30	0.72	16.60	0.9	-193	0.1	0
	11/11/2010	7.84	1.40	1.00	0.63	14.50	0.9	-219	0.1	0
	2/7/2011	7.65	1.35	1.02	1.74	11.43	0.9	-109	0.1	0
	5/17/2011	7.78	1.30	5.00	1.13	11.90	0.8	-145	0.1	0
PZ-3	8/26/2010	6.86	2.56	26.0	0.00	15.20	1.6	-190	0.1	0
	11/9/2010	7.66	2.65	11.1	0.50	13.10	-	-202	-	-
	2/10/2011	7.04	2.40	5.20	1.79	12.31	1.5	-117	0.1	0
	5/19/2011	6.9	2.34	3.17	0.58	12.36	1.5	-192	0.1	0
PZ-4	8/25/2010	6.74	1.10	99.0	1.95	15.10	0.8	27	0.1	0
	11/9/2010	6.67	1.10	15.1	2.40	13.00	-	-38	-	-
	2/8/2011	6.67	1.04	4.22	5.52	11.33	0.7	14	0	0
PZ-5	5/17/2011	6.39	1.00	8.00	1.30	11.30	0.6	61	0	0
	8/27/2010	6.64	0.462	7.00	10.72	14.51	0.3	62	0	0
	2/8/2011	6.81	0.476	4.50	1.86	8.13	0.31	-53	0	0
PZ-6	8/27/2010	6.11	0.480	41.0	0.00	14.79	0.31	134	0	0
	11/9/2010	6.14	0.403	6.80	0.31	12.60	0.26	144	0	0
	2/8/2011	6.22	0.451	5.79	2.04	9.58	0.29	174	0	0
	5/17/2011	6.19	0.509	1.00	0.98	9.90	0.33	192	0	0
PZ-7	8/27/2010	6.62	2.20	198	0.93	14.10	0.9	30	0.1	0
	11/10/2010	6.00	0.896	7.78	1.10	9.80	-	80	-	-
	2/8/2011	6.40	0.756	2.29	2.26	11.47	0.48	138	0	0
	5/17/2011	6.26	0.787	3.06	0.81	12.22	0.51	120	0	0
PZ-9	8/26/2010	6.50	1.07	>10	0.00	15.19	0.7	-165	0	0
	11/10/2010	7.14	1.35	11.0	0.70	11.50	-	-165	-	-
	2/8/2011	6.62	0.902	8.00	1.02	12.40	0.6	-102	0	0
	5/20/2011	6.6	1.00	7.00	0.98	10.90	0.6	-159	0	0
PZ-10	8/26/2010	6.74	0.990	33.6	0.00	14.32	0.6	-150	0	0
PZ-11	8/27/2010	6.49	1.40	157	1.67	14.80	0.9	33	0.1	0
	11/9/2010	6.60	1.90	64.6	0.23	14.90	1.3	-93	0.1	0
	2/8/2011	6.72	1.68	2.02	1.40	11.43	1.1	-71	0.1	0
	5/17/2011	6.43	1.60	4.79	0.34	13.01	1.0	-64	0.1	0
PZ-12	8/27/2010	6.49	0.936	32.0	0.00	13.60	0.59	6	0	0
	11/9/2010	6.41	0.834	20.0	0.67	12.60	0.53	-49	0	0
	2/7/2011	6.41	0.718	3.21	1.34	12.71	0.46	-1	0	0
	5/17/2011	6.37	0.883	3.41	0.24	12.72	0.57	-30	0	0

Notes:

- = No information
- mS/cm = MilliSiemens per centimeter
- NTU = Nephelometric turbidity units
- DO = Dissolved oxygen
- mg/l = Milligrams per liter
- TDS = Total dissolved solids
- g/l = Grams per liter
- Redox = Oxidation-reduction potential
- mV = Millivolts

T Aroclors
Port Angeles Rayonier Mill Uplands Study Area

							Parameter	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	Total PCBs (sum of Aroclors)	
							Units	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
							MTCA Ecological ISC	NL	NL	NL	NL	NL	NL	NL	NL	0.65
							MTCA Method B Protective of HH (SFV)	NL	NL	NL	NL	NL	NL	NL	NL	0.5
							MTCA Method B Protective of GW as MSW	NL	NL	NL	NL	NL	NL	NL	NL	0.004
Funct. Area	Loc ID	Str. Depth	Depth	Zone	Date	Sample ID	Type									
City Purchase	BY01	0	0-2 ft	Surf (0-2ft)	11/17/1997	BY01-0SS	N	0.037 U	0.075 U	0.037 U	0.037 U	0.037 U	0.037 U	0.066	0.066 V	
City Purchase	BY01	2	2-4 ft	SubSurf (>2ft)	11/17/1997	BY01-2SB	N	0.041 U	0.084 U	0.041 U	0.041 U	0.041 U	0.041 U	0.012 J	0.041 U	0.012 JV
City Purchase	BY02	0	0-2 ft	Surf (0-2ft)	11/17/1997	BY02-0SS	N	0.038 U	0.078 U	0.038 U	0.038 U	0.038 U	0.038 U	0.19 J	0.19 JV	
City Purchase	BY02	2	2-4 ft	SubSurf (>2ft)	11/17/1997	BY02-2SB	N	0.042 U	0.086 U	0.042 U	0.042 U	0.042 U	0.042 U	0.077 J	0.042 U	0.077 JV
City Purchase	BY03	0	0-2 ft	Surf (0-2ft)	11/17/1997	BY03-0SS	N	0.037 U	0.075 U	0.037 U	0.037 U	0.037 U	0.037 U	0.054	0.054 V	
City Purchase	BY03	2	2-4 ft	SubSurf (>2ft)	11/17/1997	BY03-2SB	N	0.045 U	0.091 U	0.045 U	0.045 U	0.045 U	0.045 U	0.021 J	0.045 U	0.021 JV
City Purchase	BY04	0	0-2 ft	Surf (0-2ft)	11/17/1997	BY04-0SS	N	0.039 U	0.08 U	0.039 U	0.039 U	0.039 U	0.039 U	0.065	0.065 V	
City Purchase	BY04	2	2-4 ft	SubSurf (>2ft)	11/17/1997	BY04-2SB	N	0.043 U	0.088 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	<i>0.088 UV</i>	
City Purchase	BY05	0	0-2 ft	Surf (0-2ft)	11/17/1997	BY05-0SS	N	0.04 U	0.082 U	0.04 U	0.04 U	0.04 U	0.04 U	0.087	0.087 V	
City Purchase	BY05	2	2-4 ft	SubSurf (>2ft)	11/17/1997	BY05-2SB	N	0.039 U	0.08 U	0.039 U	0.039 U	0.039 U	0.039 U	0.0089 J	0.039 U	0.0089 JV
City Purchase	BY05	4	4-6 ft	SubSurf (>2ft)	11/17/1997	BY05-4SB	N	0.046 U	0.093 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	<i>0.093 UV</i>	
City Purchase	BY05	6	6-8 ft	SubSurf (>2ft)	11/17/1997	BY05-6SB	N	0.046 U	0.093 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	<i>0.093 UV</i>	
City Purchase	BY05	8	8-10 ft	SubSurf (>2ft)	11/17/1997	BY05-8SB	N	0.044 U	0.089 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	<i>0.089 UV</i>	
City Purchase	GWG-8	2	2-3.5 ft	SubSurf (>2ft)	10/28/2010	DUPE3-102810	FD	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
City Purchase	GWG-8	2	2-3.5 ft	SubSurf (>2ft)	10/28/2010	GWG-8-2-3.5	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UV
City Purchase	GWG-8	10	10-11.5 ft	SubSurf (>2ft)	10/28/2010	GWG-8-10-11.5	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UV
City Purchase	GWG-8	15	15-16.5 ft	SubSurf (>2ft)	10/28/2010	GWG-8-15-16.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
City Purchase	PF01	0	0-2 ft	Surf (0-2ft)	11/18/1997	PF01-0SS	N	0.044 U	0.089 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	<i>0.089 UV</i>	
City Purchase	PF01	2	2-4 ft	SubSurf (>2ft)	11/18/1997	PF01-2SB	N	0.044 U	0.089 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	<i>0.089 UV</i>	
City Purchase	SSB-10	2	2-3.5 ft	SubSurf (>2ft)	10/28/2010	SSB-10-2-3.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0096	0.0039 U	0.0096 V
City Purchase	SSB-10	5	5-6.5 ft	SubSurf (>2ft)	10/28/2010	SSB-10-5-6.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
City Purchase	SSB-10	10	10-11.5 ft	SubSurf (>2ft)	10/28/2010	SSB-10-10-11.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
City Purchase	SSB-10	15	15-16.5 ft	SubSurf (>2ft)	10/28/2010	SSB-10-15-16.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
City Purchase	SSB-10	20	20-21.5 ft	SubSurf (>2ft)	10/28/2010	SSB-10-20-21.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
CSO	FOT-EX-12	6	6-6 ft	SubSurf (>2ft)	8/3/2006	FOT-EX-12-[080306]-6.0	N	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	<i>0.054 UV</i>	
CSO	FOT-EX-13	13	13-13 ft	SubSurf (>2ft)	8/3/2006	FOT-EX-13-[080306]-13.0	N	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	<i>0.064 UV</i>
CSO	FOT-EX-28	8	8-8 ft	SubSurf (>2ft)	8/9/2006	WM-EX-28-[080906]-8.0	N	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	<i>0.058 UV</i>
CSO	FOT-EX-6	3	3-3 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-6-[080206]-3.0	N	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	<i>0.06 UV</i>
CSO	FOT-EX-7	3	3-3 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-7-[080206]-3.0	N	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	<i>0.054 UV</i>
CSO	FOT-EX-8	8	8-8 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-8-[080206]-8.0	N	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	<i>0.058 UV</i>

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CSO	FOT-EX-9	6	6-6 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-9-[080206]-6.0	N	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 UV	
CSO	GB02	0	0-2 ft	Surf (0-2ft)	11/4/1997	LY17SS-GB02	N	0.04 U	0.081 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.081 UV	
CSO	GB02	2	2-4 ft	SubSurf (>2ft)	11/10/1997	LY18SB-GB02	N	0.037 U	0.076 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.076 UV	
CSO	GB03	0	0-2 ft	Surf (0-2ft)	11/4/1997	LY19SS-GB03	N	0.038 U	0.077 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.077 UV	
CSO	GB03	2	2-4 ft	SubSurf (>2ft)	11/10/1997	LY20SB-GB03	N	0.039 U	0.08 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.08 UV	
CSO	GWG-6	2	2-3.5 ft	SubSurf (>2ft)	11/2/2010	GWG-6-2-3.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	
CSO	GWG-6	5	5-6.5 ft	SubSurf (>2ft)	11/2/2010	GWG-6-5-6.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	
CSO	GWG-6	10	10-11.5 ft	SubSurf (>2ft)	11/2/2010	GWG-6-10-11.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	
CSO	MW-70	2	2-3.5 ft	SubSurf (>2ft)	5/6/2011	MW70-2-3.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	
CSO	MW-70	5	5-6.5 ft	SubSurf (>2ft)	5/6/2011	MW70-5-6.5	N	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UV	
CSO	MW-70	10	10-11.5 ft	SubSurf (>2ft)	5/6/2011	MW70-10-11.5	N	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UV	
CSO	MW-70	15	15-16.5 ft	SubSurf (>2ft)	5/6/2011	MW70-15-16.5	N	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 UV	
CSO	MW-70	20	20-21.5 ft	SubSurf (>2ft)	5/6/2011	MW70-20-21.5	N	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UV	
East Former Mill	CD02	0	0-2 ft	Surf (0-2ft)	11/19/1997	CD02-0SS	N	0.043 U	0.088 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.088 UV	
East Former Mill	CD02	2	2-4 ft	SubSurf (>2ft)	11/19/1997	CD02-2SB	N	0.045 U	0.091 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.091 UV	
East Former Mill	CD02	4	4-6 ft	SubSurf (>2ft)	11/19/1997	CD02-4SB	N	0.044 U	0.089 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.089 UV	
East Former Mill	CD02	6	6-8 ft	SubSurf (>2ft)	11/19/1997	CD02-6SB	N	0.041 U	0.083 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.083 UV	
East Former Mill	CD03	0	0-2 ft	Surf (0-2ft)	11/19/1997	CD03-0SS	N	0.036 U	0.073 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.073 UV	
East Former Mill	CD03	2	2-4 ft	SubSurf (>2ft)	11/19/1997	CD03-3SB	N	0.036 U	0.073 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.073 UV	
East Former Mill	GWG-7	2	2-3.5 ft	SubSurf (>2ft)	11/2/2010	GWG-7-2-3.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	
East Former Mill	GWG-7	5	5-6.5 ft	SubSurf (>2ft)	11/2/2010	GWG-7-5-6.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	
East Former Mill	GWG-7	7	7-8.5 ft	SubSurf (>2ft)	11/2/2010	GWG-7-7-8.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	
Estuary	CD01	0	0-2 ft	Surf (0-2ft)	11/19/1997	CD01-0SS	N	0.035 U	0.072 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.072 UV	
Estuary	CD01	2	2-4 ft	SubSurf (>2ft)	11/19/1997	CD01-2SB	N	0.036 U	0.074 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.074 UV	
Estuary	EC-11	0	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-020	N	0.12 U	0.23 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 UV	
Estuary	EC-15	0	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-030	N	0.16 U	0.31 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.31 UV	
Estuary	EC-15	0	0-1 ft	Surf (0-2ft)	6/25/2002	K2205252-001	FD	0.16 U	0.31 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.31 UV	
Estuary	EC-15	1	1-2 ft	Surf (0-2ft)	6/25/2002	K2204294-031	N	0.14 U	0.27 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.27 UV	
Estuary	EC-15	1	1-2 ft	Surf (0-2ft)	6/25/2002	K2205252-002	FD	0.14 U	0.27 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.27 UV	
Estuary	EC-17	0	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-035	N	0.12 U	0.23 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 UV	
Estuary	EC-18	1	1-2 ft	Surf (0-2ft)	6/25/2002	K2204294-036	N	0.13 U	0.25 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 UV	
Estuary	EC-18	2	2-3 ft	SubSurf (>2ft)	6/25/2002	K2204294-039	N	0.13 U	0.25 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 UV	
Estuary	EC-19	0	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-040	N	0.13 U	0.25 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 UV	
Estuary	EC-21	0	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-045	N	0.12 U	0.23 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 UV	
Estuary	EC-22	0	0-0.5 ft	Surf (0-2ft)	6/25/2002	K2204294-046	N	0.17 U	0.34 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.34 UV	
Estuary	EC-22	2	2-3 ft	SubSurf (>2ft)	6/25/2002	K2204294-051	N	0.12 U	0.24 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 UV	
Estuary	EC-3	0	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-003	N	0.11 U	0.21 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 UV	
Estuary	EC-5	0	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-007	N	0.12 U	0.24 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 UV	
Estuary	EC-5	0	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-008	N	0.12 U	0.23 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 UV	
Estuary	EC-7	0	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-012	N	0.11 U	0.21 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 UV	
Estuary	ECO33	0	0-0.49 ft	Surf (0-2ft)	5/15/2003	K2303719-005	N	0.003 U	0.099 U	0.0092 U	0.013 U	0.0079 U	0.039 U	0.044	0.044 U	
Estuary	FR05	0	0-0.25 ft	Surf (0-2ft)	11/13/1997	FR05SS	N	0.062 U	0.13 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.41 J	0.41 JV
Estuary	FW0054	4.5	4.5-4.5 ft	SubSurf (>2ft)	8/9/2002	K2205480-003	N	0.13 U	0.25 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 UV	
Estuary	FW0055	1	1-1 ft	Surf (0-2ft)	8/9/2002	K2205480-004	N	0.12 U	0.24 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 UV	
Estuary	FW0056	1	1-1 ft	Surf (0-2ft)	8/10/2002	K2205480-005	N	0.12 U	0.24 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 UV	

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Estuary	FW0057	4.5	4.5-4.5 ft	SubSurf (>2ft)	8/10/2002	K2205480-006	N	0.12 U	0.23 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 UV
Estuary	FW0058	1	1-1 ft	Surf (0-2ft)	8/10/2002	K2205480-007	N	0.12 U	0.24 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 UV
Estuary	FW0059	4.5	4.5-4.5 ft	SubSurf (>2ft)	8/10/2002	K2205480-008	N	0.12 U	0.23 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 UV
Estuary	FW0061	1	1-1 ft	Surf (0-2ft)	8/10/2002	K2205480-010	N	0.18 U	0.36 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.36 UV
Estuary	FW0062	1	1-1 ft	Surf (0-2ft)	8/12/2002	K2205480-011	N	0.11 U	0.22 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 UV
Estuary	FW0063	4.5	4.5-4.5 ft	SubSurf (>2ft)	8/12/2002	K2205480-012	N	0.099 U	0.2 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.2 UV
Estuary	FW0064	1	1-1 ft	Surf (0-2ft)	8/12/2002	K2205480-013	N	0.11 U	0.22 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 UV
Estuary	FW0065	4.5	4.5-4.5 ft	SubSurf (>2ft)	8/12/2002	K2205480-014	N	0.13 U	0.25 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 UV
Estuary	FW0067	1	1-1 ft	Surf (0-2ft)	8/12/2002	K2205480-016	N	0.12 U	0.23 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 UV
Estuary	FW0068	4.5	4.5-4.5 ft	SubSurf (>2ft)	8/12/2002	K2205480-017	N	0.12 U	0.24 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 UV
Estuary	FW0069	1	1-1 ft	Surf (0-2ft)	8/12/2002	K2205480-018	N	0.12 U	0.24 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 UV
Estuary	FW0070	1	1-1 ft	Surf (0-2ft)	8/12/2002	FW0070	N	0.12 U	0.23 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.39 0.39 V
Estuary	LC-1	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC 1	N	---	---	---	---	---	---	---	0.25	0.25 V
Estuary	LC12A	1.5	1.5-1.5 ft	Surf (0-2ft)	10/14/1998	LC 12A	N	---	---	---	---	---	---	---	0.4	0.4 V
Estuary	LC12D	1.5	1.5-1.5 ft	Surf (0-2ft)	10/14/1998	LC 12D	N	---	---	---	---	---	---	---	0.5 U	0.5 UV
Estuary	LC-2	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC 2	N	---	---	---	---	---	---	---	1.6	1.6 V
Estuary	LC23A	1.5	1.5-1.5 ft	Surf (0-2ft)	10/14/1998	LC 23A	N	---	---	---	---	---	---	---	0.06	0.06 V
Estuary	LC23D	1.5	1.5-1.5 ft	Surf (0-2ft)	10/14/1998	LC 23D	N	---	---	---	---	---	---	---	0.5 U	0.5 UV
Estuary	LC-3	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC 3	N	---	---	---	---	---	---	---	0.6	0.6 V
Estuary	LC34G	1.5	1.5-1.5 ft	Surf (0-2ft)	10/15/1998	LC 34G	N	---	---	---	---	---	---	---	0.05 U	0.05 UV
Estuary	LC34Z	1.5	1.5-1.5 ft	Surf (0-2ft)	10/15/1998	LC 34Z	N	---	---	---	---	---	---	---	0.06	0.06 V
Estuary	LC-4	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC 4	N	---	---	---	---	---	---	---	0.08	0.08 V
Estuary	LC45A	1.5	1.5-1.5 ft	Surf (0-2ft)	10/14/1998	LC 45A	N	---	---	---	---	---	---	---	0.06	0.06 V
Estuary	LC45G	1.5	1.5-1.5 ft	Surf (0-2ft)	10/15/1998	LC 45G	N	---	---	---	---	---	---	---	0.05 U	0.05 UV
Estuary	LC-5	4.5	4.5-4.5 ft	SubSurf (>2ft)	10/14/1998	LC 5	N	---	---	---	---	---	---	---	0.5 U	0.5 UV
Estuary	LC56A	1.5	1.5-1.5 ft	Surf (0-2ft)	10/14/1998	LC 56A	N	---	---	---	---	---	---	---	0.05 U	0.05 UV
Estuary	LC56G	1.5	1.5-1.5 ft	Surf (0-2ft)	10/15/1998	LC 56G	N	---	---	---	---	---	---	---	0.05 U	0.05 UV
Estuary	LC67A	1.5	1.5-1.5 ft	Surf (0-2ft)	10/14/1998	LC 67A	N	---	---	---	---	---	---	---	0.5 U	0.5 UV
Estuary	LC67D	1.5	1.5-1.5 ft	Surf (0-2ft)	10/15/1998	LC 67D	N	---	---	---	---	---	---	---	0.05 U	0.05 UV
Estuary	LC78A	1.5	1.5-1.5 ft	Surf (0-2ft)	10/14/1998	LC 78A	N	---	---	---	---	---	---	---	0.5 U	0.5 UV
Estuary	LC78D	1.5	1.5-1.5 ft	Surf (0-2ft)	10/15/1998	LC 78D	N	---	---	---	---	---	---	---	0.05 U	0.05 UV
Estuary	LC89C	1.5	1.5-1.5 ft	Surf (0-2ft)	10/15/1998	LC 89C	N	---	---	---	---	---	---	---	0.5 U	0.5 UV
Estuary	LC89D	1.5	1.5-1.5 ft	Surf (0-2ft)	10/15/1998	LC 89D	N	---	---	---	---	---	---	---	0.05 U	0.05 UV
Estuary	LCAB1	1.5	1.5-1.5 ft	Surf (0-2ft)	10/14/1998	LC AB1	N	---	---	---	---	---	---	---	0.05 U	0.05 UV
Estuary	LCAB8	1.5	1.5-1.5 ft	Surf (0-2ft)	10/14/1998	LC AB8	N	---	---	---	---	---	---	---	0.05 U	0.05 UV
Estuary	LCAZ2.5	1.5	1.5-1.5 ft	Surf (0-2ft)	10/15/1998	LC AZ2.5	N	---	---	---	---	---	---	---	0.08	0.08 V
Estuary	LCBC1	1.5	1.5-1.5 ft	Surf (0-2ft)	10/14/1998	LC BC1	N	---	---	---	---	---	---	---	0.05 U	0.05 UV
Estuary	LCBC8	1.5	1.5-1.5 ft	Surf (0-2ft)	10/14/1998	LC BC8	N	---	---	---	---	---	---	---	0.05 U	0.05 UV
Estuary	LCCD1	1.5	1.5-1.5 ft	Surf (0-2ft)	10/14/1998	LC CD1	N	---	---	---	---	---	---	---	0.05 U	0.05 UV
Estuary	LCCD9	1.5	1.5-1.5 ft	Surf (0-2ft)	10/15/1998	LC CD9	N	---	---	---	---	---	---	---	0.05 U	0.05 UV
Estuary	LCED2	1.5	1.5-1.5 ft	Surf (0-2ft)	10/15/1998	LC ED2	N	---	---	---	---	---	---	---	0.05 U	0.05 UV
Estuary	LCED7	1.5	1.5-1.5 ft	Surf (0-2ft)	10/15/1998	LC ED7	N	---	---	---	---	---	---	---	0.05 U	0.05 UV
Estuary	LCEF3	1.5	1.5-1.5 ft	Surf (0-2ft)	10/15/1998	LC EF3	N	---	---	---	---	---	---	---	0.05 U	0.05 UV
Estuary	LCEF6	1.5	1.5-1.5 ft	Surf (0-2ft)	10/15/1998	LC EF6	N	---	---	---	---	---	---	---	0.06	0.06 V
Estuary	LCFG3	1.5	1.5-1.5 ft	Surf (0-2ft)	10/15/1998	LC FG3	N	---	---	---	---	---	---	---	0.06	0.06 V

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Estuary	LCFG6	1.5	1.5-1.5 ft	Surf (0-2ft)	10/15/1998	LC FG6	N	---	---	---	---	---	---	0.05 U	0.05 UV	
Estuary	LCS-1	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC S-1	N	---	---	---	---	---	---	0.5 U	0.5 UV	
Estuary	LCS-10	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC S-10	N	---	---	---	---	---	---	0.35	0.35 V	
Estuary	LCS-16	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC S-16	N	---	---	---	---	---	---	0.59	0.59 V	
Estuary	LCS-17	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC S-17	N	---	---	---	---	---	---	0.09	0.09 V	
Estuary	LCS-18	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC S-18	N	---	---	---	---	---	---	0.82	0.82 V	
Estuary	LCS-19	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC S-19	N	---	---	---	---	---	---	0.52	0.52 V	
Estuary	LCS-2	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC S-2	N	---	---	---	---	---	---	0.5 U	0.5 UV	
Estuary	LCS-20	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC S-20	N	---	---	---	---	---	---	0.16	0.16 V	
Estuary	LCS-21	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC S-21	N	---	---	---	---	---	---	0.06	0.06 V	
Estuary	LCS-22	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/15/1998	LC S-22	N	---	---	---	---	---	---	0.05 U	0.05 UV	
Estuary	LCS-23	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/15/1998	LC S-23	N	---	---	---	---	---	---	0.05 U	0.05 UV	
Estuary	LCS-24	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/15/1998	LC S-24	N	---	---	---	---	---	---	0.05 U	0.05 UV	
Estuary	LCS-25	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/15/1998	LC S-25	N	---	---	---	---	---	---	0.05 U	0.05 UV	
Estuary	LCS-26	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/15/1998	LC S-26	N	---	---	---	---	---	---	0.05	0.05 V	
Estuary	LCS-27	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/15/1998	LC S-27	N	---	---	---	---	---	---	0.05 U	0.05 UV	
Estuary	LCS-28	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/15/1998	LC S-28	N	---	---	---	---	---	---	0.05 U	0.05 UV	
Estuary	LCS-29	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/15/1998	LC S-29	N	---	---	---	---	---	---	0.05 U	0.05 UV	
Estuary	LCS-3	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC S-3	N	---	---	---	---	---	---	0.5 U	0.5 UV	
Estuary	LCS-30	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/15/1998	LCS S-30	N	---	---	---	---	---	---	0.1	0.1 V	
Estuary	LCS-31	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/15/1998	LCS S-31	N	---	---	---	---	---	---	0.05 U	0.05 UV	
Estuary	LCS-32	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/15/1998	LCS S-32	N	---	---	---	---	---	---	0.05 U	0.05 UV	
Estuary	LCS-4	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC S-4	N	---	---	---	---	---	---	0.5 U	0.5 UV	
Estuary	LCS-5	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC S-5	N	---	---	---	---	---	---	0.5 U	0.5 UV	
Estuary	LCS-6	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC S-6	N	---	---	---	---	---	---	0.5 U	0.5 UV	
Estuary	LCS-7	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC S-7	N	---	---	---	---	---	---	0.09	0.09 V	
Estuary	LCS-8	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC S-8	N	---	---	---	---	---	---	0.1	0.1 V	
Estuary	LCS-9	2.5	2.5-2.5 ft	SubSurf (>2ft)	10/14/1998	LC S-9	N	---	---	---	---	---	---	0.14	0.14 V	
Estuary	MW-62	2	2-3.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-2-3.5	N	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.011 U	0.04	0.079	0.119 V	
Estuary	MW-62	5	5-6.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-5-6.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0097 U	0.04	0.04 V	
Estuary	MW-62	10	10-11.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-10-11.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0065	0.0065 V	
Estuary	MW-62	15	15-16.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-15-16.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	
Estuary	MW-62	20	20-21.25 ft	SubSurf (>2ft)	10/20/2010	MW-62-20-21.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	
Estuary	MW-62	25	25-26.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-25-26.5	N	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.012 U	0.025	0.0065	0.0315 V	
Estuary	MW-62	30	30-31.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-30-31.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	
Estuary	MW-62	35	35-36.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-35-36.5	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	
Estuary	RS20	0	0-0.25 ft	Surf (0-2ft)	5/15/2003	K2303678-013	N	0.015 U	0.088 U	0.033 U	0.026 U	0.021 U	0.077 U	0.082	0.082 V	
Estuary	RS20	0	0-0.25 ft	Surf (0-2ft)	5/15/2003	K2303687-019	FD	0.015 U	0.11 U	0.015 U	0.02 U	0.018 U	0.061 U	0.074	0.074 V	
Estuary	RS20	0.25	0.25-2 ft	Surf (0-2ft)	5/15/2003	K2303678-014	N	0.011 U	0.022 U	0.011 U	0.011 U	0.011 U	0.011 U	0.0064 J	0.0064 JV	
Estuary	RS21	0	0-0.25 ft	Surf (0-2ft)	5/16/2003	K2303762-012	N	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 UV	
Estuary	RS21	0	0-0.25 ft	Surf (0-2ft)	5/16/2003	K2303762-015	FD	0.0099 U	0.02 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.02 UV	
Estuary	RS21	0.25	0.25-9.5 ft	SubSurf (>2ft)	5/16/2003	K2303762-013	N	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0095 J	0.0095 JV	
Estuary	SSB-5	2	2-3.5 ft	SubSurf (>2ft)	10/26/2010	SSB-5-2-3.5	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.026 U	0.069	0.069 V	
Estuary	SSB-5	5	5-6.5 ft	SubSurf (>2ft)	10/26/2010	SSB-5-5-6.5	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0041	0.0058	0.0099 V
Estuary	SSB-5	10	10-11.5 ft	SubSurf (>2ft)	10/26/2010	SSB-5-10-11.5	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UV	

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Estuary	SSB-5	15	15-16.5 ft	SubSurf (>2ft)	10/26/2010	SSB-5-15-16.5	N	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UV
Estuary	SSB-5	20	20-21.5 ft	SubSurf (>2ft)	10/26/2010	SSB-5-20-21.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
Estuary	WEC-1	1.5	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	NORTH WALL-3	N	---	---	---	---	---	---	---	0.2
Estuary	WEC-10	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 2-3-(2)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-11	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 2-2-(2)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-12	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 1-3-(2)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-13	1.5	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	WEST WALL-8	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-14	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 4-4-(1)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-15	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 4-1-(3)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-16	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 3-4-(3)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-17	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 3-1-(3)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-18	1.5	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	WEST WALL-9	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-19	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 4-5-(1)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-20	1.5	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	NORTH WALL-2	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-20	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 3-5-(3)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-21	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 4-3-(1)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-22	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 4-2-(3)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-23	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 3-3-(2)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-24	6	6-6 ft	SubSurf (>2ft)	10/13/1998	COMP 3-2-(2)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-25	1.5	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	WEST WALL-10	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-26	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 6-4-(1)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-27	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 6-1-(2)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-28	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 5-4-(1)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-29	6	6-6 ft	SubSurf (>2ft)	10/13/1998	COMP 5-1-(3)	N	---	---	---	---	---	---	---	0.27
Estuary	WEC-3	1.5	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	NORTH WALL-1	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-30	1.5	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	WEST WALL-11	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-31	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 6-5-(1)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-33	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 6-3-(3)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-34	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 6-2-(3)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-35	6	6-6 ft	SubSurf (>2ft)	10/13/1998	COMP 5-3-(2)	N	---	---	---	---	---	---	---	0.06
Estuary	WEC-36	1.5	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	COMP 5-2-(2)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-38	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 8-4-(1)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-39	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 8-1-(1)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-4	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 2-4	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-40	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 7-4-2	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-41	6	6-6 ft	SubSurf (>2ft)	10/13/1998	COMP 7-1-(2)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-42	1.5	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	S-WALL-11	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-43	1.5	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	S-WALL-10	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-44	1.5	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	S-WALL-12	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-45	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 7-3-(A)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-46	1.5	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	S-WALL-8	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-47	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 7-5-(2)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-5	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 2-1-(2)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-6	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 1-4-(2)	N	---	---	---	---	---	---	---	0.05 U
Estuary	WEC-8	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 2-5	N	---	---	---	---	---	---	---	0.05 U

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Estuary	WEC-9	3	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 1-5-(3)	N	---	---	---	---	---	---	---	0.05 U
Main Former Mill	AP01	0	0-0.25 ft	Surf (0-2ft)	11/13/1997	AP01SS	N	0.49 U	0.99 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.99 UV
Main Former Mill	AP02	0	0-0.25 ft	Surf (0-2ft)	11/13/1997	AP02SS	N	0.046 U	0.094 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.094 UV
Main Former Mill	AP03	0	0-0.25 ft	Surf (0-2ft)	11/13/1997	AP03SS	N	0.048 U	0.097 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.097 UV
Main Former Mill	AP04	0	0-0.25 ft	Surf (0-2ft)	11/13/1997	AP04SS	N	0.065 U	0.13 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.13 UV
Main Former Mill	BL01	0	0-0.25 ft	Surf (0-2ft)	11/14/1997	BL01SS	N	0.036 U	0.074 U	0.036 U	0.036 U	0.036 U	0.036 U	0.6 J	0.6 JV
Main Former Mill	BL02	0	0-0.25 ft	Surf (0-2ft)	11/14/1997	BL02SS	N	0.057 U	0.12 U	0.057 U	0.057 U	0.057 U	0.057 U	0.29 J	0.29 JV
Main Former Mill	BL03	0	0-0.25 ft	Surf (0-2ft)	11/14/1997	BL03SS	N	0.038 U	0.078 U	0.038 U	0.038 U	0.038 U	0.038 U	1.1 J	1.1 JV
Main Former Mill	BP01	0	0-0.25 ft	Surf (0-2ft)	11/11/1997	BP01SS	N	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 UV
Main Former Mill	BP02	0	0-0.25 ft	Surf (0-2ft)	11/11/1997	BP02SS	N	0.3 U	0.61 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.61 UV
Main Former Mill	BP03	0	0-0.25 ft	Surf (0-2ft)	11/11/1997	BP03SS	N	0.22 U	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.45 UV
Main Former Mill	BP04	0	0-0.25 ft	Surf (0-2ft)	11/11/1997	BP04SS	N	0.055 U	0.11 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.11 UV
Main Former Mill	DB02	0	0-0.25 ft	Surf (0-2ft)	11/13/1997	DB02SS	N	0.055 U	0.11 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.11 UV
Main Former Mill	ECO34	0	0-0.49 ft	Surf (0-2ft)	5/7/2003	K2303509-009	N	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.036	0.036 V
Main Former Mill	FR02	0	0-0.25 ft	Surf (0-2ft)	11/12/1997	FR02SS	N	0.077 U	0.16 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.16 UV
Main Former Mill	FR04	0	0-0.25 ft	Surf (0-2ft)	11/14/1997	FR04SS	N	0.049 U	0.1 U	0.049 U	0.049 U	0.049 U	0.049 U	0.17	0.17 V
Main Former Mill	GWG-1	2	2-3.5 ft	SubSurf (>2ft)	11/3/2010	GWG-1-2-3.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
Main Former Mill	GWG-1	5	5-6.5 ft	SubSurf (>2ft)	11/3/2010	GWG-1-5-6.5	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UV
Main Former Mill	GWG-1	7.5	7.5-9 ft	SubSurf (>2ft)	11/3/2010	GWG-1-7.5-9	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
Main Former Mill	GWG-1	10	10-11.5 ft	SubSurf (>2ft)	11/4/2010	GWG-1-10-11.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
Main Former Mill	GWG-1	15	15-16.5 ft	SubSurf (>2ft)	11/4/2010	GWG-1-15-16.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
Main Former Mill	GWG-1	20	20-21.5 ft	SubSurf (>2ft)	11/4/2010	GWG-1-20-21.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
Main Former Mill	GWG-4	8	8-9.5 ft	SubSurf (>2ft)	11/1/2010	GWG-4-8-9.5	N	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0088 U	0.022 U	0.045	0.045 V
Main Former Mill	GWG-4	10	10-11.5 ft	SubSurf (>2ft)	11/2/2010	GWG-4-10-11.5	N	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.015 U	0.028	0.028 V
Main Former Mill	GWG-4	15	15-16.5 ft	SubSurf (>2ft)	11/2/2010	GWG-4-15-16.5	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.006 U	0.0097	0.0097 V
Main Former Mill	GWG-4	20	20-21.5 ft	SubSurf (>2ft)	11/2/2010	GWG-4-20-21.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
Main Former Mill	GWG-4	26	26-27.5 ft	SubSurf (>2ft)	11/2/2010	GWG-4-26-27.5	N	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UV
Main Former Mill	GWG-4	30	30-31.5 ft	SubSurf (>2ft)	11/2/2010	GWG-4-30-31.5	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UV
Main Former Mill	GWG-5	2	2-3.5 ft	SubSurf (>2ft)	11/3/2010	GWG-5-2-3.5	N	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.032	0.044	0.067	0.143 V
Main Former Mill	GWG-5	5	5-6.5 ft	SubSurf (>2ft)	11/3/2010	GWG-5-5-6.5	N	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.033	0.042	0.076	0.151 V
Main Former Mill	GWG-5A	5	5-6.5 ft	SubSurf (>2ft)	11/4/2010	GWG-5A-5-6.5	N	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0078	0.0078 V
Main Former Mill	GWG-5A	10	10-11.5 ft	SubSurf (>2ft)	11/4/2010	GWG-5A-10-11.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
Main Former Mill	GWG-5A	15	15-16.5 ft	SubSurf (>2ft)	11/5/2010	GWG-5A-15-16.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
Main Former Mill	GWG-5A	20	20-21.5 ft	SubSurf (>2ft)	11/5/2010	GWG-5A-20-21.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
Main Former Mill	GWG-5A	24	24-25.5 ft	SubSurf (>2ft)	11/5/2010	GWG-5A-24-25.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
Main Former Mill	LB01	0	0-2 ft	Surf (0-2ft)	11/22/1997	LB01-0SS	N	0.038 U	0.077 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.077 UV
Main Former Mill	LB02	0	0-2 ft	Surf (0-2ft)	11/22/1997	LB02-0SS	N	0.043 U	0.087 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.087 UV
Main Former Mill	MCH0001	9	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-001	N	0.012 U	0.024 U	0.012 U	0.012 U	0.012 U	0.04	0.035	0.075 V
Main Former Mill	MCH0002	9	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-002	N	0.012 U	0.024 U	0.012 U	0.012 U	0.012 U	0.099	0.094	0.193 V
Main Former Mill	MCH0003	9	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-003	N	0.014 U	0.027 U	0.014 U	0.014 U	0.014 U	0.011 J	0.014 U	0.011 JV
Main Former Mill	MCH0004	9	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-004	N	0.012 U	0.024 U	0.012 U	0.012 U	0.012 U	0.012 U	0.36	0.36 V
Main Former Mill	MCH0005	9	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-005	N	0.011 U	0.022 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.022 UV
Main Former Mill	MCH0006	9	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-006	N	0.012 U	0.023 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.023 UV
Main Former Mill	MCH0007	9	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-007	N	0.012 U	0.024 U	0.012 U	0.012 U	0.012 U	0.28	0.22	0.5 V
Main Former Mill	MCH0008	9	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-008	N	0.014 U	0.027 U	0.014 U	0.014 U	0.014 U	0.0064 J	0.014 U	0.0064 JV

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Main Former Mill	MCH0009	9	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-001	N	0.013 U	0.026 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.014	0.014 V	
Main Former Mill	MCH0010	9	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-002	N	0.015 U	0.029 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.029 UV	
Main Former Mill	MCH0011	9	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-003	N	0.013 U	0.025 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.025 UV	
Main Former Mill	MCH0012	9	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-004	N	0.014 U	0.027 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.027 UV	
Main Former Mill	MCH0013	9	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-005	N	0.016 U	0.031 U	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.031 UV	
Main Former Mill	MCH0014	9	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-006	N	0.014 U	0.028 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.028 UV	
Main Former Mill	MCH0015	9	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-007	N	0.013 U	0.026 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.0017 J	0.0017 JV	
Main Former Mill	MCH0016	9	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-008	N	0.011 U	0.022 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.022 UV	
Main Former Mill	MR01	0	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR01SS	N	0.051 U	0.1 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	2.8 J	2.8 JV	
Main Former Mill	MR02	0	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR02SS	N	0.036 U	0.073 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	1.1 J	1.1 JV	
Main Former Mill	MR03	0	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR03SS	N	0.08 U	0.16 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	4.8 J	4.8 JV	
Main Former Mill	MR04	0	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR04SS	N	0.035 U	0.072 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	3.1 J	3.1 JV	
Main Former Mill	MR05	0	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR05SS	N	0.035 U	0.072 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.072 UV	
Main Former Mill	MR06	0	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR06SS	N	0.041 U	0.083 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.083 UV	
Main Former Mill	MR07	0	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR07SS	N	0.057 U	0.12 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	1.1	1.1 V	
Main Former Mill	MR08	0	0-0.25 ft	Surf (0-2ft)	11/14/1997	MR08SS	N	0.039 U	0.079 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.079 UV	
Main Former Mill	MR09	0	0-0.25 ft	Surf (0-2ft)	11/15/1997	MR09SS	N	0.035 U	0.071 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.88 J	0.88 JV	
Main Former Mill	MR10	0	0-0.25 ft	Surf (0-2ft)	11/13/1997	MR10SS	N	0.035 U	0.072 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.075	0.075 V	
Main Former Mill	MR11	0	0-0.25 ft	Surf (0-2ft)	11/14/1997	MR11SS	N	0.046 U	0.094 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.36 J	0.36 JV	
Main Former Mill	MR12	0	0-0.25 ft	Surf (0-2ft)	11/14/1997	MR12SS	N	0.037 U	0.074 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.81 J	0.81 JV	
Main Former Mill	MW-65	5	5-6.5 ft	SubSurf (>2ft)	3/10/2011	MW-65-5-6.5	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UV	
Main Former Mill	MW-65	15	15-16.5 ft	SubSurf (>2ft)	3/10/2011	MW-65-15-16.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	
Main Former Mill	MW-66	2.5	2.5-4 ft	SubSurf (>2ft)	3/9/2011	MW-66-2.5-4	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0078 U	0.023	0.023 V	
Main Former Mill	MW-66	15	15-16.5 ft	SubSurf (>2ft)	3/9/2011	MW-66-15-16.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	
Main Former Mill	MW-69	2	2-3.5 ft	SubSurf (>2ft)	5/6/2011	MW69-2-3.5	N	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 UV	
Main Former Mill	MW-69	5	5-6.5 ft	SubSurf (>2ft)	5/6/2011	MW69-5-6.5	N	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 UV	
Main Former Mill	MW-69	10	10-11.5 ft	SubSurf (>2ft)	5/6/2011	MW69-10-11.5	N	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UV	
Main Former Mill	MW-69	15	15-16.5 ft	SubSurf (>2ft)	5/6/2011	MW69-15-16.5	N	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UV	
Main Former Mill	MW-69	20	20-21.5 ft	SubSurf (>2ft)	5/6/2011	MW69-20-21.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	
Main Former Mill	MW-69	25	25-26.5 ft	SubSurf (>2ft)	5/6/2011	MW69-25-26.5	N	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 UV	
Main Former Mill	MW-69	29	29-30 ft	SubSurf (>2ft)	5/6/2011	MW69-29-30	N	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UV	
Main Former Mill	PC01	0	0-0.25 ft	Surf (0-2ft)	11/10/1997	PC01SS	N	0.057 U	0.12 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.12 UV	
Main Former Mill	SR01	0	0-0.25 ft	Surf (0-2ft)	11/21/1997	SR01-SS	N	0.047 U	0.096 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.096 UV	
Main Former Mill	SR02	0	0-0.25 ft	Surf (0-2ft)	11/21/1997	SR02-SS	N	0.052 U	0.11 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.11 UV	
Main Former Mill	SR03	0	0-0.25 ft	Surf (0-2ft)	11/21/1997	SR03-SS	N	0.059 U	0.12 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.12 UV	
Main Former Mill	SR04	0	0-0.25 ft	Surf (0-2ft)	11/21/1997	SR04-SS	N	0.066 U	0.13 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.13 UV	
Main Former Mill	SSB-1	7	7-8.5 ft	SubSurf (>2ft)	10/25/2010	SSB-1-7-8.5	N	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.043 U	0.12	0.12 V	
Main Former Mill	SSB-1	10	10-11.5 ft	SubSurf (>2ft)	10/25/2010	DUPE2-102510	FD	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.004	0.0039 U	0.004 V
Main Former Mill	SSB-1	10	10-11.5 ft	SubSurf (>2ft)	10/25/2010	SSB-1-10-11.5	N	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UV	
Main Former Mill	SSB-1	15	15-16.5 ft	SubSurf (>2ft)	10/25/2010	SSB-1-15-16.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	
Main Former Mill	SSB-1	25	25-26.5 ft	SubSurf (>2ft)	10/25/2010	SSB-1-25-26.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	
Main Former Mill	SSB-4	5	5-6.5 ft	SubSurf (>2ft)	10/22/2010	SSB-4-5-6.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	
Main Former Mill	SSB-4	10	10-11.5 ft	SubSurf (>2ft)	10/22/2010	SSB-4-10-11.5	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UV	
Main Former Mill	SSB-4	15	15-16.5 ft	SubSurf (>2ft)	10/22/2010	SSB-4-15-16.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	
Main Former Mill	SSB-4	21	21-22.33 ft	SubSurf (>2ft)	10/22/2010	SSB-4-21-22.33	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV	

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Main Former Mill	SSB-6	5	5-6.5 ft	SubSurf (>2ft)	10/26/2010	SSB-6-5-6.5	N	0.011 U	0.011 U	0.011 U	0.011 U	0.027 U	0.059	0.084	0.143 V
Main Former Mill	SSB-6	10	10-11.5 ft	SubSurf (>2ft)	10/26/2010	SSB-6-10-11.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.017	0.019	0.036 V
Main Former Mill	SSB-6	15	15-16.5 ft	SubSurf (>2ft)	11/1/2010	SSB-6-15-16.5	N	0.0055 U	0.0055 U	0.0055 U	0.0055 U	0.026	0.028	0.013	0.067 V
Main Former Mill	SSB-6	20	20-21.5 ft	SubSurf (>2ft)	11/1/2010	SSB-6-20-21.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0046	0.0044	0.009 V
Main Former Mill	SSB-6	25	25-26.5 ft	SubSurf (>2ft)	11/1/2010	SSB-6-25-26.5	N	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UV
Main Former Mill	SSB-6	28	28-28.75 ft	SubSurf (>2ft)	11/1/2010	SSB-6-28-28.75	FD	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UV
Main Former Mill	SSB-6	28	28-29 ft	SubSurf (>2ft)	11/1/2010	SSB-6-28-29	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
Main Former Mill	TB01	0	0-0.25 ft	Surf (0-2ft)	11/12/1997	TB01SS	N	0.049 U	0.099 U	0.049 U	0.049 U	0.049 U	0.049 U	0.43	0.43 V
Main Former Mill	TB02	0	0-0.25 ft	Surf (0-2ft)	11/13/1997	TB02SS	N	0.035 U	0.071 U	0.035 U	0.035 U	0.035 U	0.035 U	0.19	0.19 V
Main Former Mill	TP-10	2	2-2 ft	Surf (0-2ft)	1/6/2011	TP-10-2'	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.017	0.017 V
Main Former Mill	TP-10	3	3-3 ft	SubSurf (>2ft)	1/6/2011	TP-10-3'	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
Main Former Mill	TP-14	2	2-2 ft	Surf (0-2ft)	1/6/2011	TP-14-2'	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.005	0.005 V
Main Former Mill	TP-14	3	3-3 ft	SubSurf (>2ft)	1/6/2011	TP-14-3'	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.014	0.014 V
Main Former Mill	TP-14	5	5-5 ft	SubSurf (>2ft)	1/6/2011	TP-14-5'	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
Main Former Mill	TP-21	3	3-3 ft	SubSurf (>2ft)	1/7/2011	TP-21-3'	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UV
Main Former Mill	WEC-37	3	3-3 ft	SubSurf (>2ft)	10/13/1998	S-WALL-7	N	---	---	---	---	---	---	---	0.05 U
North Shoreline	BS01	0	0-0.25 ft	Surf (0-2ft)	11/21/1997	BS01-SS	N	0.036 U	0.074 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.074 UV
North Shoreline	BS02	0	0-0.25 ft	Surf (0-2ft)	11/21/1997	BS02-SS	N	0.039 U	0.079 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.079 UV
North Shoreline	PC02	0	0-0.25 ft	Surf (0-2ft)	11/10/1997	PC02SS	N	0.043 U	0.087 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.087 UV
NW Shoreline	GB01	0	0-2 ft	Surf (0-2ft)	11/4/1997	LY07SS-GB01	N	0.06 U	0.12 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.12 UV
NW Shoreline	GB01	2	2-4 ft	SubSurf (>2ft)	11/11/1997	LY08SB-GB01	N	0.045 U	0.091 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.091 UV
NW Shoreline	GB01	4	4-6 ft	SubSurf (>2ft)	11/11/1997	LY25SB-GB01	N	0.038 U	0.078 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.078 UV
NW Shoreline	GB04	0	0-2 ft	Surf (0-2ft)	11/4/1997	LY01SS-GB04	N	0.092 U	0.19 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.19 UV
NW Shoreline	GB04	2			11/11/1997	LY02SB-GB04	N	0.039 U	0.08 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.08 UV
NW Shoreline	GB05	0	0-2 ft	Surf (0-2ft)	11/4/1997	LY05SS-GB05	N	0.12 U	0.24 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 UV
NW Shoreline	GB05	2	2-4 ft	SubSurf (>2ft)	11/10/1997	LY06SB-GB05	N	0.039 U	0.08 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.08 UV
NW Shoreline	GB06	0	0-2 ft	Surf (0-2ft)	11/4/1997	LY09SS-GB06	N	0.037 U	0.074 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.074 UV
NW Shoreline	GB07	0	0-2 ft	Surf (0-2ft)	11/4/1997	LY11SS-GB07	N	0.039 U	0.08 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.08 UV
NW Shoreline	GB07	2	2-4 ft	SubSurf (>2ft)	11/12/1997	LY12SB-GB07	N	0.035 U	0.072 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.072 UV
NW Shoreline	GB07	4	4-6 ft	SubSurf (>2ft)	11/12/1997	LY14SB-GB07	N	0.036 U	0.074 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.074 UV
NW Shoreline	GB07	6	6-8 ft	SubSurf (>2ft)	11/12/1997	LY27SB-GB07	N	0.037 U	0.075 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.075 UV
NW Shoreline	GB08	0	0-2 ft	Surf (0-2ft)	11/4/1997	LY13SS-GB08	N	0.043 U	0.088 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.088 UV
NW Shoreline	GB08	2	2-4 ft	SubSurf (>2ft)	11/12/1997	LY29SB-GB08	N	0.036 U	0.074 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.074 UV
NW Shoreline	GB09	0	0-2 ft	Surf (0-2ft)	11/4/1997	LY02SS-GB09	N	0.073 U	0.15 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.15 UV
NW Shoreline	GB09	2	2-4 ft	SubSurf (>2ft)	11/10/1997	LY04SB-GB09	N	0.034 U	0.07 U	0.034 U	0.034 U	0.034 U	0.034 U	0.034 U	0.07 UV
NW Shoreline	GB10	10	10-10 ft	SubSurf (>2ft)	11/11/1997	LY10SB-GB10	N	0.18 U	0.37 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.37 UV
NW Shoreline	LY15	0	0-2 ft	Surf (0-2ft)	11/4/1997	LY15SS	N	0.05 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 UV
NW Shoreline	LY16	0	0-2 ft	Surf (0-2ft)	11/4/1997	LY16SS	N	0.05 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 UV
NW Shoreline	MW-61	5	5-6.5 ft	SubSurf (>2ft)	10/19/2010	MW-61-5-6.5	N	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UV
NW Shoreline	MW-61	10	10-11.5 ft	SubSurf (>2ft)	10/19/2010	MW-61-10-11.5	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0067	0.0069	0.0136 V
NW Shoreline	MW-61	15	15-16.5 ft	SubSurf (>2ft)	10/19/2010	MW-61-15-16.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
NW Shoreline	MW-61	20	20-21.25 ft	SubSurf (>2ft)	10/19/2010	MW-61-20-21.25	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
NW Shoreline	PA01	0	0-2 ft	Surf (0-2ft)	11/15/1997	PA01-OSS	N	0.04 U	0.081 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.081 UV
NW Shoreline	PA02	0	0-2 ft	Surf (0-2ft)	11/15/1997	PA02-OSS	N	0.035 U	0.071 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.071 UV
NW Shoreline	PA03	0	0-2 ft	Surf (0-2ft)	11/15/1997	PA03-OSS	N	0.035 U	0.071 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.071 UV

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NW Shoreline	PA04	0	0-2 ft	Surf (0-2ft)	11/15/1997	PA04-0SS	N	0.034 U	0.07 U	0.034 U	0.034 U	0.034 U	0.034 U	0.034 U	0.07 UV
NW Shoreline	PA04	2	2-4 ft	SubSurf (>2ft)	11/15/1997	PA04-2SB	N	0.034 U	0.07 U	0.034 U	0.034 U	0.034 U	0.034 U	0.034 U	0.07 UV
NW Shoreline	PA04	4	4-6 ft	SubSurf (>2ft)	11/15/1997	PA04-4SB	N	0.035 U	0.071 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.071 UV
Prefab	PF02	0	0-2 ft	Surf (0-2ft)	11/18/1997	PF02-0SS	N	0.042 U	0.086 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.086 UV
Prefab	PF02	2	2-4 ft	SubSurf (>2ft)	11/18/1997	PF02-2SB	N	0.045 U	0.091 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.091 UV
Prefab	PF03	0	0-2 ft	Surf (0-2ft)	11/18/1997	PF03-0SS	N	0.041 U	0.083 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.083 UV
Prefab	PF03	2	2-4 ft	SubSurf (>2ft)	11/18/1997	PF03-2SB	N	0.042 U	0.085 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.085 UV
Prefab	PF03	4	4-6 ft	SubSurf (>2ft)	11/18/1997	PF03-4SB	N	0.041 U	0.084 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.084 UV
Prefab	PF03	6	6-8 ft	SubSurf (>2ft)	11/18/1997	PF03-6SB	N	0.044 U	0.089 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.089 UV
Prefab	PF03	8	8-10 ft	SubSurf (>2ft)	11/18/1997	PF03-8SB	N	0.045 U	0.091 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.091 UV
Prefab	PF03	16	16-18 ft	SubSurf (>2ft)	11/18/1997	PF03-16SB	N	0.037 U	0.076 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.076 UV
West Former Mill	FOT-0015	11	11-11 ft	SubSurf (>2ft)	8/7/2006	FOT-EX-15-[080706]-11.0-FD	FD	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 UV
West Former Mill	FOT-EX-1	9.5	9.5-9.5 ft	SubSurf (>2ft)	8/1/2006	FOT-EX-1-[080106]-9.5	N	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 UV
West Former Mill	FOT-EX-10	11.5	11.5-11.5 ft	SubSurf (>2ft)	8/7/2006	FOT-EX-10-[080706]-11.5	N	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 UV
West Former Mill	FOT-EX-11	9	9-9 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-19-[080806]-4.0	N	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 UV
West Former Mill	FOT-EX-14	9	9-9 ft	SubSurf (>2ft)	8/3/2006	FOT-EX-14-[080306]-9.0	N	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 UV
West Former Mill	FOT-EX-15	11	11-11 ft	SubSurf (>2ft)	8/7/2006	FOT-EX-15-[080706]-11.0	N	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 UV
West Former Mill	FOT-EX-17	3	3-3 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-17-[080806]-3.0	N	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.25	0.25 V
West Former Mill	FOT-EX-18	7	7-7 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-18-[080806]-7.0	N	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 UV
West Former Mill	FOT-EX-19	9	9-9 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-19-[080806]-9.0	N	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 UV
West Former Mill	FOT-EX-2	9	9-9 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-2-[080206]-9.0	N	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 UV
West Former Mill	FOT-EX-20	7	7-7 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-20-[080806]-7.0	N	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 UV
West Former Mill	FOT-EX-21	7	7-7 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-21-[080806]-7.0	N	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 UV
West Former Mill	FOT-EX-22	5	5-5 ft	SubSurf (>2ft)	8/8/2006	FOT-DUP-2-080806	FD	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 UV
West Former Mill	FOT-EX-22	5	5-5 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-22-[080806]-5.0	N	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 UV
West Former Mill	FOT-EX-23	5	5-5 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-23-[080806]-5.0	N	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 UV
West Former Mill	FOT-EX-24	5	5-5 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-24-[080806]-5.0	N	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 UV
West Former Mill	FOT-EX-25	5	5-5 ft	SubSurf (>2ft)	8/9/2006	WM-EX-25-[080906]-5.0	N	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 UV
West Former Mill	FOT-EX-26	5	5-5 ft	SubSurf (>2ft)	8/9/2006	WM-EX-26-[080906]-5.0	N	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 UV
West Former Mill	FOT-EX-27	8	8-8 ft	SubSurf (>2ft)	8/9/2006	WM-EX-27-[080906]-8.0	N	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 UV
West Former Mill	FOT-EX-3	11	11-11 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-3-[080206]-11.0	N	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 UV
West Former Mill	FOT-EX-4	8	8-8 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-4-[080206]-8.0	N	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 UV
West Former Mill	FOT-EX-5	15	15-15 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-5-[080206]-15.0	N	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 UV
West Former Mill	HF01	0	0-2 ft	Surf (0-2ft)	11/13/1997	HF01-0SS	N	0.041 U	0.083 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.083 UV
West Former Mill	HF01	2	2-4 ft	SubSurf (>2ft)	11/13/1997	HF01-2SB	N	0.045 U	0.091 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.091 UV
West Former Mill	HF02	0	0-2 ft	Surf (0-2ft)	11/13/1997	HF02-0SS	N	0.039 U	0.079 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.079 UV
West Former Mill	HF02	2	2-4 ft	SubSurf (>2ft)	11/13/1997	HF02-2SB	N	0.037 U	0.074 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.074 UV
West Former Mill	HF03	0	0-2 ft	Surf (0-2ft)	11/14/1997	HF03-0SS	N	0.037 U	0.075 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.075 UV
West Former Mill	HF03	2	2-4 ft	SubSurf (>2ft)	11/14/1997	HF03-2SB	N	0.041 U	0.083 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.083 UV
West Former Mill	HF04	0	0-2 ft	Surf (0-2ft)	11/14/1997	HF04-0SS	N	0.04 U	0.082 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.082 UV
West Former Mill	HF04	2	2-4 ft	SubSurf (>2ft)	11/14/1997	HF04-2SB	N	0.042 U	0.086 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.086 UV
West Former Mill	HF05	0	0-2 ft	Surf (0-2ft)	11/14/1997	HF05-0SS	N	0.041 U	0.083 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.083 UV
West Former Mill	HF05	2	2-4 ft	SubSurf (>2ft)	11/14/1997	HF05-2SB	N	0.041 U	0.083 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.083 UV
West Former Mill	HF06	0	0-2 ft	Surf (0-2ft)	11/14/1997	HF06-0SS	N	0.042 U	0.085 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.085 UV
West Former Mill	HF06	2	2-4 ft	SubSurf (>2ft)	11/14/1997	HF06-2SB	N	0.039 U	0.079 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.079 UV

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West Former Mill	HF07	0	0-2 ft	Surf (0-2ft)	11/20/1997	HF07-OSS	N	0.037 U	0.076 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.076 UV
West Former Mill	HF07	2	2-4 ft	SubSurf (>2ft)	11/20/1997	HF07-2SB	N	0.036 U	0.074 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.074 UV
West Former Mill	HF08	0	0-2 ft	Surf (0-2ft)	11/20/1997	HF08-OSS	N	0.037 U	0.074 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.074 UV
West Former Mill	HF08	2	2-4 ft	SubSurf (>2ft)	11/20/1997	HF08-2SB	N	0.037 U	0.076 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.076 UV
West Former Mill	HF09	0	0-2 ft	Surf (0-2ft)	11/19/1997	HF09-OSS	N	0.038 U	0.077 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.077 UV
West Former Mill	HF09	2	2-4 ft	SubSurf (>2ft)	11/19/1997	HF09-2SB	N	0.037 U	0.074 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.074 UV
West Former Mill	MW-60	2	2-3.5 ft	SubSurf (>2ft)	10/19/2010	MW-60-2-3.5	N	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.049	0.055	0.104 V	
West Former Mill	MW-60	10	10-11.5 ft	SubSurf (>2ft)	10/19/2010	MW-60-10-11.5	N	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 UV
West Former Mill	MW-60	15	15-16.5 ft	SubSurf (>2ft)	10/19/2010	MW-60-15-16.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
West Former Mill	MW-60	20	20-20.75 ft	SubSurf (>2ft)	10/19/2010	MW-60-20-20.75	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
West Former Mill	MW-60	23	23-24.4 ft	SubSurf (>2ft)	10/19/2010	MW-60-23-24.4	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
West Former Mill	RB01	0	0-0.25 ft	Surf (0-2ft)	11/10/1997	RB01SS	N	0.07 U	0.14 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.14 UV
West Former Mill	RB02	0	0-0.25 ft	Surf (0-2ft)	11/10/1997	RB02SS	N	0.079 U	0.16 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.16 UV
West Former Mill	RB03	0	0-2 ft	Surf (0-2ft)	11/21/1997	RB03-OSS	N	0.035 U	0.072 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.072 UV
West Former Mill	RB03	8	8-10 ft	SubSurf (>2ft)	11/21/1997	RB03-8SB	N	0.043 U	0.087 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.087 UV
West Former Mill	RB04	0	0-2 ft	Surf (0-2ft)	11/21/1997	RB04-OSS	N	0.038 U	0.077 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.39 J	0.39 JV
West Former Mill	RB04	4	4-6 ft	SubSurf (>2ft)	11/21/1997	RB04-4SB	N	0.035 U	0.072 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.072 UV
West Former Mill	RB04	8	8-10 ft	SubSurf (>2ft)	11/21/1997	RB04-8SB	N	0.038 U	0.078 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.078 UV
West Former Mill	SMT01	0	0-0.25 ft	Surf (0-2ft)	11/20/1997	97474412	N	---	---	---	---	---	---	---	0.14 U	0.14 UV
West Former Mill	SMT02	0	0-0.25 ft	Surf (0-2ft)	11/20/1997	97474413	N	---	---	---	---	---	---	---	0.075 U	0.075 UV
West Former Mill	SSB-2	2	2-3.5 ft	SubSurf (>2ft)	10/21/2010	SSB-2-2-3.5	N	0.0083 U	0.0083 U	0.0083 U	0.0083 U	0.0083 U	0.012 U	0.097	0.097 V	
West Former Mill	SSB-2	5	5-6.5 ft	SubSurf (>2ft)	10/21/2010	DUPE1-102110	FD	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.015 U	0.12 J	0.12 JV	
West Former Mill	SSB-2	5	5-6.5 ft	SubSurf (>2ft)	10/21/2010	SSB-2-5-6.5	N	0.0091 U	0.0091 U	0.0091 U	0.0091 U	0.0091 U	0.0091 U	0.056 J	0.056 JV	
West Former Mill	SSB-2	10	10-11.5 ft	SubSurf (>2ft)	10/21/2010	SSB-2-10-11.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
West Former Mill	SSB-2	15	15-16.5 ft	SubSurf (>2ft)	10/21/2010	SSB-2-15-16.5	N	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UV
West Former Mill	SSB-2	20	20-20.5 ft	SubSurf (>2ft)	10/21/2010	SSB-2-20-20.5	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UV
West Former Mill	SSB-7	2	2-3.5 ft	SubSurf (>2ft)	10/26/2010	SSB-7-2-3.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0045	0.0039 U	0.01 J	0.0145 JV	
West Former Mill	SSB-7	10	10-11.5 ft	SubSurf (>2ft)	10/26/2010	SSB-7-10-11.5	N	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.04	0.04 V	
West Former Mill	SSB-7	20	20-21.5 ft	SubSurf (>2ft)	10/26/2010	SSB-7-20-21.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
West Former Mill	SSB-7	25	25-26.5 ft	SubSurf (>2ft)	10/26/2010	SSB-7-25-26.5	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
West Former Mill	SSB-7	30	30-30.75 ft	SubSurf (>2ft)	10/26/2010	SSB-7-30-30.75	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
West Former Mill	TP-01	2	2-2 ft	Surf (0-2ft)	1/4/2011	TP-01-2'	N	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.031 U	0.018	0.018 V	
West Former Mill	TP-01	8	8-8 ft	SubSurf (>2ft)	1/4/2011	TP-01-8'	N	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.024 U	0.05	0.05 V	
West Former Mill	TP-02	2	2-2 ft	Surf (0-2ft)	1/4/2011	TP-02-2'	N	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.022 U	0.07	0.07 V	
West Former Mill	TP-02	8	8-8 ft	SubSurf (>2ft)	1/4/2011	TP-02-8'	N	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.012	0.012 V	

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West Former Mill	TP-02	8	8-8 ft	SubSurf (>2ft)	1/4/2011	TP-DUPE-1	FD	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.014	0.014 V
West Former Mill	TP-03	2	2-2 ft	Surf (0-2ft)	1/4/2011	TP-03-2'	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.014 U	0.026	0.026 V
West Former Mill	TP-03	4	4-4 ft	SubSurf (>2ft)	1/4/2011	TP-03-4'	N	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.18 U	0.4	0.4 V
West Former Mill	TP-03	7	7-7 ft	SubSurf (>2ft)	1/4/2011	TP-03-7'	N	0.0091 U	0.0091 U	0.0091 U	0.0091 U	0.014 U	0.091 U	0.17	0.17 V
West Former Mill	TP-04	2	2-2 ft	Surf (0-2ft)	1/5/2011	TP-04-2'	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0059 U	0.016	0.014	0.03 V
West Former Mill	TP-04	7	7-7 ft	SubSurf (>2ft)	1/5/2011	TP-04-7'	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
West Former Mill	TP-05	2	2-2 ft	Surf (0-2ft)	1/5/2011	TP-05-2'	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UV
West Former Mill	TP-05	6	6-6 ft	SubSurf (>2ft)	1/5/2011	TP-05-6'	N	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.012	0.012 V
West Former Mill	TP-06	3	3-3 ft	SubSurf (>2ft)	1/5/2011	TP-06-3'	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0091	0.0091 V
West Former Mill	TP-06	7	7-7 ft	SubSurf (>2ft)	1/5/2011	TP-06-7'	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UV
West Former Mill	TP-07	2	2-2 ft	Surf (0-2ft)	1/5/2011	TP-07-2'	N	0.014 U	0.014 U	0.014 U	0.014 U	0.027 U	0.11	0.17	0.28 V
West Former Mill	TP-07	2	2-2 ft	Surf (0-2ft)	1/5/2011	TP-DUPE-2	FD	0.012 U	0.012 U	0.012 U	0.012 U	0.024 U	0.084	0.11	0.194 V
West Former Mill	TP-07	6	6-6 ft	SubSurf (>2ft)	1/5/2011	TP-07-6'	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.012 U	<i>0.012 UV</i>
West Former Mill	TP-08	2	2-2 ft	Surf (0-2ft)	1/5/2011	TP-08-2'	N	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.047	0.057	0.104 V
West Former Mill	TP-08	5	5-5 ft	SubSurf (>2ft)	1/5/2011	TP-08-5'	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
West Former Mill	TP-11	2	2-2 ft	Surf (0-2ft)	1/7/2011	TP-11-2'	N	0.012 U	0.012 U	0.012 U	0.012 U	0.024 U	0.024 U	0.11	0.11 V
West Former Mill	TP-11	5	5-5 ft	SubSurf (>2ft)	1/7/2011	TP-11-5'	N	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U	0.31	0.54	0.85 V
West Former Mill	TP-11	5	5-5 ft	SubSurf (>2ft)	1/7/2011	TP-DUPE-3	FD	0.036 U	0.036 U	0.036 U	0.036 U	0.091 U	0.34	0.74	1.08 V
West Former Mill	TP-12	2	2-2 ft	Surf (0-2ft)	1/4/2011	TP-12-2'	N	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.095	0.12	0.3	0.515 V
West Former Mill	TP-12	4	4-4 ft	SubSurf (>2ft)	1/4/2011	TP-12-4'	N	0.1 U	0.1 U	0.1 U	0.1 U	0.78 U	0.9	1.2	2.1 V
West Former Mill	TP-15	2	2-2 ft	Surf (0-2ft)	1/6/2011	TP-15-2'	N	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.045 U	0.083	0.083 V
West Former Mill	TP-15	4	4-4 ft	SubSurf (>2ft)	1/6/2011	TP-15-4'	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UV
West Former Mill	TP-16	2	2-2 ft	Surf (0-2ft)	1/6/2011	TP-16-2'	N	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UV
West Former Mill	TP-16	5	5-5 ft	SubSurf (>2ft)	1/6/2011	TP-16-5'	N	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UV
West Former Mill	WM21	0	0-0.25 ft	Surf (0-2ft)	5/13/2003	K2303600-003	N	0.0093 U	0.019 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	<i>0.019 UV</i>
West Former Mill	WM21	0.25	0.25-9.5 ft	SubSurf (>2ft)	5/13/2003	K2303600-004	N	0.0095 U	0.019 U	0.0095 U	0.0095 U	0.0095 U	0.0041 J	0.0095 U	0.0041 JV
West Former Mill	WM-EX-1	8	8-8 ft	SubSurf (>2ft)	8/3/2006	WM-EX-1-[080306]-8.0	N	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	<i>0.055 UV</i>
West Former Mill	WM-EX-10	16	16-16 ft	SubSurf (>2ft)	8/8/2006	WM-DUP-1-080806	FD	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	<i>0.057 UV</i>
West Former Mill	WM-EX-10	16	16-16 ft	SubSurf (>2ft)	8/8/2006	WM-EX-10-[080806]-16.0	N	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.088	0.088 V
West Former Mill	WM-EX-11	17	17-17 ft	SubSurf (>2ft)	8/8/2006	WM-EX-11-[080806]-17.0	N	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	<i>0.067 UV</i>
West Former Mill	WM-EX-12	8	8-8 ft	SubSurf (>2ft)	8/8/2006	WM-EX-12-[080806]-8.0	N	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	<i>0.055 UV</i>
West Former Mill	WM-EX-13	9	9-9 ft	SubSurf (>2ft)	8/8/2006	WM-EX-13-[080806]-9.0	N	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	<i>0.06 UV</i>
West Former Mill	WM-EX-14	14	14-14 ft	SubSurf (>2ft)	8/8/2006	WM-EX-14-[080806]-14.0	N	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	<i>0.056 UV</i>
West Former Mill	WM-EX-15	14	14-14 ft	SubSurf (>2ft)	8/8/2006	WM-EX-15-[080806]-14.0	N	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	<i>0.057 UV</i>
West Former Mill	WM-EX-16	14	14-14 ft	SubSurf (>2ft)	8/8/2006	WM-EX-16-[080806]-14.0	N	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	<i>0.055 UV</i>
West Former Mill	WM-EX-17	14	14-14 ft	SubSurf (>2ft)	8/8/2006	WM-EX-17-[080806]-14.0	N	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	<i>0.056 UV</i>
West Former Mill	WM-EX-18	9	9-9 ft	SubSurf (>2ft)	8/9/2006	WM-EX-18-[080906]-9.0	N	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	<i>0.055 UV</i>
West Former Mill	WM-EX-2	11	11-11 ft	SubSurf (>2ft)	8/3/2006	WM-EX-2-[080306]-11.0	N	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	<i>0.056 UV</i>
West Former Mill	WM-EX-3	10	10-10 ft	SubSurf (>2ft)	8/3/2006	WM-EX-3-[080306]-10.0	N	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	<i>0.056 UV</i>
West Former Mill	WM-EX-4	13	13-13 ft	SubSurf (>2ft)	8/4/2006	WM-EX-4-[080406]-13.0	N	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	<i>0.057 UV</i>
West Former Mill	WM-EX-5	16	16-16 ft	SubSurf (>2ft)	8/4/2006	WM-EX-5-[080406]-16.0	N	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	<i>0.057 UV</i>
West Former Mill	WM-EX-6	9	9-9 ft	SubSurf (>2ft)	8/7/2006	WM-EX-6-[080706]-9.0	N	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	<i>0.055 UV</i>
West Former Mill	WM-EX-7	8.5	8.5-8.5 ft	SubSurf (>2ft)	8/7/2006	WM-EX-7-[080706]-8.5	N	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	<i>0.055 UV</i>
West Former Mill	WM-EX-8	15	15-15 ft	SubSurf (>2ft)	8/7/2006	WM-EX-8-[080706]-15.0	N	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	<i>0.055 UV</i>
West Former Mill	WM-EX-9	10	10-10 ft	SubSurf (>2ft)	8/7/2006	WM-EX-9-[080706]-10.0	N	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	<i>0.058 UV</i>

**Carcinogenic Polycyclic Aromatic Hydrocarbons in Soil
Port Angeles Rayonier Mill Uplands Study Area**

Funct. Area	Loc ID	Depth	Depth Zone	Date	Sample ID	Type	Parameter																
							Units																
							MTCA Ecological ISC																
							MTCA Method B Protective of HH (SFV) MTCA Method B Protective of GW as MSW																
Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(e)fluoranthene, Total (b+k+f)	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	cPAH TEC*															
(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)			
City Purchase	BY01	0-2 ft	Surf (0-2ft)	11/17/1997	BY01-0SS	N	370 U	370 U	47	370 U	---	370 U	370 U	370 U	---	370 U	370 U	370 U	---	370 U	370 U	370 U	265.55 V
City Purchase	BY01	2-4 ft	SubSurf (>2ft)	11/17/1997	BY01-2SB	N	410 U	410 U	410 U	410 U	---	410 U	410 U	410 U	---	410 U	410 U	410 U	---	410 U	410 U	410 U	309.55 UV
City Purchase	BY02	0-2 ft	Surf (0-2ft)	11/17/1997	BY02-0SS	N	380 U	380 U	380 U	380 U	---	380 U	380 U	380 U	---	380 U	380 U	380 U	---	380 U	380 U	380 U	286.9 UV
City Purchase	BY02	2-4 ft	SubSurf (>2ft)	11/17/1997	BY02-2SB	N	420 U	420 U	420 U	420 U	---	420 U	420 U	420 U	---	420 U	420 U	420 U	---	420 U	420 U	420 U	317.1 UV
City Purchase	BY03	0-2 ft	Surf (0-2ft)	11/17/1997	BY03-0SS	N	370 U	370 U	370 U	370 U	---	370 U	370 U	370 U	---	370 U	370 U	370 U	---	370 U	370 U	370 U	279.35 UV
City Purchase	BY03	2-4 ft	SubSurf (>2ft)	11/17/1997	BY03-2SB	N	110	130	160	65	---	120	450 U	83	---	120	450 U	83	---	120	450 U	83	195.5 V
City Purchase	BY04	0-2 ft	Surf (0-2ft)	11/17/1997	BY04-0SS	N	390 U	390 U	390 U	390 U	---	390 U	390 U	390 U	---	390 U	390 U	390 U	---	390 U	390 U	390 U	294.45 UV
City Purchase	BY04	2-4 ft	SubSurf (>2ft)	11/17/1997	BY04-2SB	N	430 U	430 U	430 U	430 U	---	430 U	430 U	430 U	---	430 U	430 U	430 U	---	430 U	430 U	430 U	324.65 UV
City Purchase	BY05	0-2 ft	Surf (0-2ft)	11/17/1997	BY05-0SS	N	90	110	110	65	---	99	400 U	68	---	99	400 U	68	---	99	400 U	68	164.29 V
City Purchase	BY05	2-4 ft	SubSurf (>2ft)	11/17/1997	BY05-2SB	N	390 U	390 U	390 U	390 U	---	390 U	390 U	390 U	---	390 U	390 U	390 U	---	390 U	390 U	390 U	294.45 UV
City Purchase	BY05	4-6 ft	SubSurf (>2ft)	11/17/1997	BY05-4SB	N	460 U	460 U	460 U	460 U	---	460 U	460 U	460 U	---	460 U	460 U	460 U	---	460 U	460 U	460 U	347.3 UV
City Purchase	BY05	6-8 ft	SubSurf (>2ft)	11/17/1997	BY05-6SB	N	460 U	460 U	460 U	460 U	---	460 U	460 U	460 U	---	460 U	460 U	460 U	---	460 U	460 U	460 U	347.3 UV
City Purchase	BY05	8-10 ft	SubSurf (>2ft)	11/17/1997	BY05-8SB	N	440 U	440 U	440 U	440 U	---	440 U	440 U	440 U	---	440 U	440 U	440 U	---	440 U	440 U	440 U	332.2 UV
City Purchase	GWG-8	2-3.5 ft	SubSurf (>2ft)	10/28/2010	DUPE3-102810	FD	14 U	14 U	---	---	---	20	24	---	20	24	14 U	14 U	---	20	24	14 U	11.34 V
City Purchase	GWG-8	2-3.5 ft	SubSurf (>2ft)	10/28/2010	GWG-8-2-3.5	N	7.1	8.5	---	---	---	13	13	---	13	13	4.7 U	4.7 U	---	13	13	4.7 U	11.11 V
City Purchase	GWG-8	10-11.5 ft	SubSurf (>2ft)	10/28/2010	GWG-8-10-11.5	N	4.6 U	4.6 U	---	---	---	4.6 U	4.6 U	---	4.6 U	4.6 U	4.6 U	4.6 U	---	4.6 U	4.6 U	4.6 U	3.243 UV
City Purchase	GWG-8	15-16.5 ft	SubSurf (>2ft)	10/28/2010	GWG-8-15-16.5	N	4.9 U	4.9 U	---	---	---	4.9 U	4.9 U	---	4.9 U	4.9 U	4.9 U	4.9 U	---	4.9 U	4.9 U	4.9 U	3.4545 UV
City Purchase	PF01	0-2 ft	Surf (0-2ft)	11/18/1997	PF01-0SS	N	440 U	440 U	440 U	440 U	---	440 U	440 U	440 U	---	440 U	440 U	440 U	---	440 U	440 U	440 U	332.2 UV
City Purchase	PF01	2-4 ft	SubSurf (>2ft)	11/18/1997	PF01-2SB	N	440 U	440 U	440 U	440 U	---	440 U	440 U	440 U	---	440 U	440 U	440 U	---	440 U	440 U	440 U	332.2 UV
City Purchase	SSB-10	2-3.5 ft	SubSurf (>2ft)	10/28/2010	SSB-10-2-3.5	N	4.9 U	4.9 U	---	---	---	5.9	6.4	---	5.9	6.4	4.9 U	4.9 U	---	5.9	6.4	4.9 U	3.839 V
City Purchase	SSB-10	5-6.5 ft	SubSurf (>2ft)	10/28/2010	SSB-10-5-6.5	N	4.7 U	4.7 U	---	---	---	4.7 U	5.2	---	4.7 U	5.2	4.7 U	4.7 U	---	4.7 U	5.2	4.7 U	3.342 V
City Purchase	SSB-10	10-11.5 ft	SubSurf (>2ft)	10/28/2010	SSB-10-10-11.5	N	4.7 U	4.7 U	---	---	---	4.7 U	4.7 U	---	4.7 U	4.7 U	4.7 U	4.7 U	---	4.7 U	4.7 U	4.7 U	3.3135 UV
City Purchase	SSB-10	15-16.5 ft	SubSurf (>2ft)	10/28/2010	SSB-10-15-16.5	N	4.9 U	4.9 U	---	---	---	4.9 U	4.9 U	---	4.9 U	4.9 U	4.9 U	4.9 U	---	4.9 U	4.9 U	4.9 U	3.4545 UV
City Purchase	SSB-10	20-21.5 ft	SubSurf (>2ft)	10/28/2010	SSB-10-20-21.5	N	4.7 U	4.7 U	---	---	---	4.7 U	4.7 U	---	4.7 U	4.7 U	4.7 U	4.7 U	---	4.7 U	4.7 U	4.7 U	3.3135 UV
CSO	FOT-EX-12	6-6 ft	SubSurf (>2ft)	8/3/2006	FOT-EX-12-[080306]-6.0	N	7.2 U	7.2 U	7.2 U	7.2 U	---	7.2 U	7.2 U	---	7.2 U	7.2 U	7.2 U	7.2 U	---	7.2 U	7.2 U	7.2 U	5.436 UV
CSO	FOT-EX-13	13-13 ft	SubSurf (>2ft)	8/3/2006	FOT-EX-13-[080306]-13.0	N	8.5 U	8.5 U	8.5 U	8.5 U	---	9.4	8.5 U	---	9.4	8.5 U	8.5 U	8.5 U	---	9.4	8.5 U	8.5 U	6.469 V
CSO	FOT-EX-28	8-8 ft	SubSurf (>2ft)	8/9/2006	WM-EX-28-[080906]-8.0	N	7.8 U	7.8 U	7.8 U	7.8 U	---	7.8 U	7.8 U	---	7.8 U	7.8 U	7.8 U	7.8 U	---	7.8 U	7.8 U	7.8 U	5.889 UV
CSO	FOT-EX-6	3-3 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-6-[080206]-3.0	N	8 U	8 U	8 U	8 U	---	8 U	8 U	---	8 U	8 U	8 U	8 U	---	8 U	8 U	8 U	6.04 UV
CSO	FOT-EX-7	3-3 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-7-[080206]-3.0	N	7.2 U	7.2 U	7.2 U	7.2 U	---	7.2 U	7.2 U	---	7.2 U	7.2 U	7.2 U	7.2 U	---	7.2 U	7.2 U	7.2 U	5.436 UV
CSO	FOT-EX-8	8-8 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-8-[080206]-8.0	N	7.8 U	7.8 U	7.8 U	7.8 U	---	10	7.8 U	---	10	7.8 U	7.8 U	7.8 U	---	10	7.8 U	7.8 U	5.95 V
CSO	FOT-EX-9	6-6 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-9-[080206]-6.0	N	7.5 U	7.5 U	7.5 U	7.5 U	---	7.5 U	7.5 U	---	7.5 U	7.5 U	7.5 U	7.5 U	---	7.5 U	7.5 U	7.5 U	5.6625 UV
CSO	GB02	0-2 ft	Surf (0-2ft)	11/4/1997	LY17SS-GB02	N	400 U	400 U	400 U	400 U	---	400 U	400 U	---	400 U	400 U	400 U	400 U	---	400 U	400 U	400 U	302 UV
CSO	GB02	2-4 ft	SubSurf (>2ft)	11/10/1997	LY18SS-GB02	N	88	63	56	370 U	---	170	370 U	---	170	370 U	370 U	---	170	370 U	370 U	---	134.6 V

**Carcinogenic Polycyclic Aromatic Hydrocarbons in Soil
Port Angeles Rayonier Mill Uplands Study Area**

						Parameter	Benzo(a)anthracene	Benzo(e)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(fluoranthenes, Total (b+k+f))	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	cPAH TEC*
						Units	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
						MTCA Ecological ISC	NL	NL	NL	NL	NL	NL	NL	NL	12000
						MTCA Method B Protective of HH (SFV)	NL	NL	NL	NL	NL	NL	NL	NL	140
						MTCA Method B Protective of GW as MSW	NL	NL	NL	NL	NL	NL	NL	NL	350
Funct. Area	Loc ID	Depth	Depth Zone	Date	Sample ID	Type									
West Former Mill	WM-EX-2	11-11 ft	SubSurf (>2ft)	8/3/2006	WM-EX-2-[080306]-11.0	N	31	27	39	9.2	---	36	7.5 U	19	37.555 V
West Former Mill	WM-EX-3	10-10 ft	SubSurf (>2ft)	8/3/2006	WM-EX-3-[080306]-10.0	N	9.2	9	17	7.5 U	---	11	7.5 U	7.5 U	12.855 V
West Former Mill	WM-EX-4	13-13 ft	SubSurf (>2ft)	8/4/2006	WM-EX-4-[080406]-13.0	N	7.7 U	7.7 U	7.7 U	7.7 U	---	7.7 U	7.7 U	7.7 U	5.8135 UV
West Former Mill	WM-EX-5	16-16 ft	SubSurf (>2ft)	8/4/2006	WM-EX-5-[080406]-16.0	N	13	7.7 U	8.3	7.7 U	---	8.7	7.7 U	7.7 U	7.222 V
West Former Mill	WM-EX-6	9-9 ft	SubSurf (>2ft)	8/7/2006	WM-EX-6-[080706]-9.0	N	13	7.3 U	7.3 U	7.3 U	---	10	7.3 U	7.3 U	6.51 V
West Former Mill	WM-EX-7	8.5-8.5 ft	SubSurf (>2ft)	8/7/2006	WM-EX-7-[080706]-8.5	N	64	31	55	18	---	80	7.3 U	17	47.565 V
West Former Mill	WM-EX-8	15-15 ft	SubSurf (>2ft)	8/7/2006	WM-EX-8-[080706]-15.0	N	7.3 U	7.3 U	7.3 U	7.3 U	---	7.3 U	7.3 U	7.3 U	5.5115 UV
West Former Mill	WM-EX-9	10-10 ft	SubSurf (>2ft)	8/7/2006	WM-EX-9-[080706]-10.0	N	7.8 U	7.8 U	7.8 U	7.8 U	---	7.8 U	7.8 U	7.8 U	5.889 UV

Metals in Soil
Port Angeles Rayonier Mill Uplands Study Area

Parameter							Aluminum	Antimony*	Arsenic*	Barium*	Beryllium	Cadmium*	Calcium	Chromium*	Cobalt*	Copper*	Iron	Lead*	Magnesium	Manganese*	Mercury*	Nickel*	Potassium	Selenium*	Silver*	Sodium	Thallium*	Vanadium*	Zinc*	
Units							(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
MTCA Ecological ISC							32600	5	20	102	10	4	NL	48	20	50	NL	50	NL	1200	0.1	48	NL	0.3	2	NL	1	297	86	
MTCA Method B Protective of HH (SFV)							32600	32	20	16000	160	80	NL	120000	NL	3000	NL	250	NL	11000	24	1600	NL	400	400	NL	5.6	560	24000	
MTCA Method B Protective of GW as MSW							NL	580	20	NL	4300	1.2	NL	4.8e+006	NL	50	NL	1600	NL	1200	0.07	48	NL	7.4	0.61	NL	0.67	NL	100	
Funct. Area	Loc ID	Depth	Zone	Date	Sample ID	Type																								
West Former Mill	TP-08	5-5 ft	SubSurf (>2ft)	1/5/2011	TP-08-5'	N	---	---	---	---	---	---	---	---	---	---	---	4	---	---	---	---	---	---	---	---	---	---		
West Former Mill	TP-11	2-2 ft	Surf (0-2ft)	1/7/2011	TP-11-2'	N	---	---	---	---	---	---	---	---	---	---	---	52	---	---	---	---	---	---	---	---	---	---		
West Former Mill	TP-11	5-5 ft	SubSurf (>2ft)	1/7/2011	TP-11-5'	N	---	---	---	---	---	---	---	---	---	---	---	253	---	---	---	---	---	---	---	---	---	---		
West Former Mill	TP-11	5-5 ft	SubSurf (>2ft)	1/7/2011	TP-DUPE-3	FD	---	---	---	---	---	---	---	---	---	---	---	351	---	---	---	---	---	---	---	---	---	---		
West Former Mill	TP-12	2-2 ft	Surf (0-2ft)	1/4/2011	TP-12-2'	N	---	---	---	---	---	---	---	---	---	---	---	177	---	---	---	---	---	---	---	---	---	---		
West Former Mill	TP-12	4-4 ft	SubSurf (>2ft)	1/4/2011	TP-12-4'	N	---	---	---	---	---	---	---	---	---	---	---	90	---	---	---	---	---	---	---	---	---	---		
West Former Mill	TP-15	2-2 ft	Surf (0-2ft)	1/6/2011	TP-15-2'	N	---	---	---	---	---	---	---	---	---	---	---	800	---	---	---	---	---	---	---	---	---	---		
West Former Mill	TP-15	4-4 ft	SubSurf (>2ft)	1/6/2011	TP-15-4'	N	---	---	---	---	---	---	---	---	---	---	---	110	---	---	---	---	---	---	---	---	---	---		
West Former Mill	TP-16	2-2 ft	Surf (0-2ft)	1/6/2011	TP-16-2'	N	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	---	---	---	---	---	---		
West Former Mill	TP-16	5-5 ft	SubSurf (>2ft)	1/6/2011	TP-16-5'	N	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	---	---	---	---	---	---		
West Former Mill	WM21	0-0.25 ft	Surf (0-2ft)	5/13/2003	K2303600-003	N	---	0.46 J	3.5	53.2	---	0.1	---	34.3 J	28.6	36.7	---	7.26	---	566 J	0.02 J	45.4	---	1 U	0.14 J	---	0.037	56.7 J	54	
West Former Mill	WM21	0.25-9.5 ft	SubSurf (>2ft)	5/13/2003	K2303600-004	N	---	0.11 J	3.2	59.1	---	0.11	---	30.4 J	10	36.4	---	13.8	---	389 J	0.03	42.2	---	1.1 U	0.06 J	---	0.046	49.9 J	46	

**Organochlorine Pesticides in Soil
Port Angeles Rayonier Mill Uplands Study Area**

Funct. Area	Loc ID	Depth	Zone	Date	Sample ID	Type	Parameter Units																		
							MTCA Ecological ISC																		
							MTCA Method B Protective of HH (SFV)																		
							MTCA Method B Protective of GW as MSW																		
4,4'-DDD*	4,4'-DDE*	4,4'-DDT*	Aldrin*	alpha-BHC*	alpha-Chlordane*	beta-BHC*	delta-BHC	Dieldrin*	Endosulfan I*	Endosulfan II*	Endosulfan Sulfate*	Endrin*	Endrin Aldehyde*	Endrin Ketone*	gamma-BHC (Lindane)*	gamma-Chlordane*	Heptachlor*	Heptachlor Epoxide*	Hexachlorobenzene*	Methoxychlor	Toxaphene*				
(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)			
Prefab	PF03	2-4 ft	SubSurf (>2ft)	11/18/1997	PF03-2SB	N	4.2 U	4.2 U	4.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	---	22 U	220 U			
Prefab	PF03	4-6 ft	SubSurf (>2ft)	11/18/1997	PF03-4SB	N	4.1 U	4.1 U	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	---	21 U	210 U		
Prefab	PF03	6-8 ft	SubSurf (>2ft)	11/18/1997	PF03-6SB	N	4.4 U	4.4 U	0.58 J	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	4.4 U	2.3 U	4.4 U	4.4 U	4.4 U	4.4 U	2.3 U	2.3 U	2.3 U		
Prefab	PF03	8-10 ft	SubSurf (>2ft)	11/18/1997	PF03-8SB	N	4.5 U	4.5 U	4.5 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	4.5 U	2.3 U	4.5 U	4.5 U	4.5 U	2.3 U	2.3 U	2.3 U	2.3 U		
Prefab	PF03	16-18 ft	SubSurf (>2ft)	11/18/1997	PF03-16SB	N	3.7 U	3.7 U	3.7 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	3.7 U	1.9 U	3.7 U	3.7 U	3.7 U	1.9 U	1.9 U	1.9 U	1.9 U		

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

Parameter							2-Chloronaphthalene	2-Chlorophenol	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene*	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol*	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene*	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine*	
Units							(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
MTCA Ecological ISC							NL	NL	NL	NL	NL	20000	NL	NL	20000	NL	4000	10000	NL	20000	NL	160000	160000	80000	2200
MTCA Method B Protective of HH (SFV)							6.4e+006	400000	4e+006	NL	NL	800000	7.2e+006	NL	42000	NL	8e+006	91000	240000	1.6e+006	160000	160000	80000	2200	
MTCA Method B Protective of GW as MSW							54000	1100	NL	NL	NL	2600	15000	11000	80	NL	130000	28	1300	4500	14000	100	NL	100	
Funct. Area	Loc ID	Depth	Zone	Date	Sample ID	Type																			
City Purchase	BY01	0-2 ft	Surf (0-2ft)	11/17/1997	BY01-OSS	N	370 U	370 U	370 U	930 U	370 U	370 U	370 U	370 U	370 U	---	930 U	370 U	370 U	370 U	930 U	370 U	370 U	370 U	
City Purchase	BY01	2-4 ft	SubSurf (>2ft)	11/17/1997	BY01-2SB	N	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	410 U	410 U	---	1000 U	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	
City Purchase	BY02	0-2 ft	Surf (0-2ft)	11/17/1997	BY02-OSS	N	380 U	380 U	380 U	970 U	380 U	380 U	380 U	380 U	380 U	---	970 U	380 U	380 U	380 U	970 U	380 U	380 U	380 U	
City Purchase	BY02	2-4 ft	SubSurf (>2ft)	11/17/1997	BY02-2SB	N	420 U	420 U	420 U	1100 U	420 U	420 U	420 U	420 U	420 U	---	1100 U	420 U	420 U	420 U	1100 U	420 U	420 U	420 U	
City Purchase	BY03	0-2 ft	Surf (0-2ft)	11/17/1997	BY03-OSS	N	370 U	370 U	370 U	930 U	370 U	370 U	370 U	370 U	370 U	---	930 U	370 U	370 U	370 U	930 U	370 U	370 U	370 U	
City Purchase	BY03	2-4 ft	SubSurf (>2ft)	11/17/1997	BY03-2SB	N	450 U	450 U	450 U	1100 U	450 U	450 U	450 U	450 U	450 U	---	1100 U	450 U	450 U	450 U	1100 U	450 U	450 U	450 U	
City Purchase	BY04	0-2 ft	Surf (0-2ft)	11/17/1997	BY04-OSS	N	390 U	390 U	390 U	990 U	390 U	390 U	390 U	390 U	390 U	---	990 U	390 U	390 U	390 U	990 U	390 U	390 U	390 U	
City Purchase	BY04	2-4 ft	SubSurf (>2ft)	11/17/1997	BY04-2SB	N	430 U	430 U	430 U	1100 U	430 U	430 U	430 U	430 U	430 U	---	1100 U	430 U	430 U	430 U	1100 U	430 U	430 U	430 U	
City Purchase	BY05	0-2 ft	Surf (0-2ft)	11/17/1997	BY05-OSS	N	400 U	400 U	400 U	1000 U	400 U	400 U	400 U	400 U	400 U	---	1000 U	400 U	400 U	400 U	1000 U	400 U	400 U	400 U	
City Purchase	BY05	2-4 ft	SubSurf (>2ft)	11/17/1997	BY05-2SB	N	390 U	390 U	390 U	990 U	390 U	390 U	390 U	390 U	390 U	---	990 U	390 U	390 U	390 U	990 U	390 U	390 U	390 U	
City Purchase	BY05	4-6 ft	SubSurf (>2ft)	11/17/1997	BY05-4SB	N	460 U	460 U	460 U	1200 U	460 U	460 U	460 U	460 U	460 U	---	1200 U	460 U	460 U	460 U	1200 U	460 U	460 U	460 U	
City Purchase	BY05	6-8 ft	SubSurf (>2ft)	11/17/1997	BY05-6SB	N	460 U	460 U	460 U	1200 U	460 U	460 U	460 U	460 U	460 U	---	1200 U	460 U	460 U	460 U	1200 U	460 U	460 U	460 U	
City Purchase	BY05	8-10 ft	SubSurf (>2ft)	11/17/1997	BY05-8SB	N	440 U	440 U	440 U	1100 U	440 U	440 U	440 U	440 U	440 U	---	1100 U	440 U	440 U	440 U	1100 U	440 U	440 U	440 U	
City Purchase	GWG-8	2-3.5 ft	SubSurf (>2ft)	10/28/2010	DUPE3-102810	FD	---	---	---	---	---	---	---	---	24 U	---	---	6.4 U	---	---	---	97 U	---	97 U	
City Purchase	GWG-8	2-3.5 ft	SubSurf (>2ft)	10/28/2010	GWG-8-2-3.5	N	---	---	---	---	---	---	---	---	25 U	---	---	6.4 U	---	---	---	98 U	---	98 U	
City Purchase	GWG-8	10-11.5 ft	SubSurf (>2ft)	10/28/2010	GWG-8-10-11.5	N	---	---	---	---	---	---	---	---	28 U	---	---	7.5 U	---	---	---	99 U	---	99 U	
City Purchase	GWG-8	15-16.5 ft	SubSurf (>2ft)	10/28/2010	GWG-8-15-16.5	N	---	---	---	---	---	---	---	---	23 U	---	---	7.4 U	---	---	---	97 U	---	97 U	
City Purchase	PF01	0-2 ft	Surf (0-2ft)	11/18/1997	PF01-OSS	N	440 U	440 U	440 U	1100 U	440 U	440 U	440 U	440 U	440 U	---	1100 U	440 U	440 U	440 U	1100 U	440 U	440 U	440 U	
City Purchase	PF01	2-4 ft	SubSurf (>2ft)	11/18/1997	PF01-2SB	N	440 U	440 U	440 U	1100 U	440 U	440 U	440 U	440 U	440 U	---	1100 U	440 U	440 U	440 U	1100 U	440 U	440 U	440 U	
City Purchase	SSB-10	2-3.5 ft	SubSurf (>2ft)	10/28/2010	SSB-10-2-3.5	N	---	---	---	---	---	---	---	---	19 U	---	---	7.7 R	---	---	---	96 U	---	96 U	
City Purchase	SSB-10	5-6.5 ft	SubSurf (>2ft)	10/28/2010	SSB-10-5-6.5	N	---	---	---	---	---	---	---	---	19 U	---	---	8.1 R	---	---	---	97 U	---	97 U	
City Purchase	SSB-10	10-11.5 ft	SubSurf (>2ft)	10/28/2010	SSB-10-10-11.5	N	---	---	---	---	---	---	---	---	19 U	---	---	8.2 R	---	---	---	97 U	---	97 U	
City Purchase	SSB-10	15-16.5 ft	SubSurf (>2ft)	10/28/2010	SSB-10-15-16.5	N	---	---	---	---	---	---	---	---	21 U	---	---	7.1 U	---	---	---	98 U	---	98 U	
City Purchase	SSB-10	20-21.5 ft	SubSurf (>2ft)	10/28/2010	SSB-10-20-21.5	N	---	---	---	---	---	---	---	---	27 U	---	---	7.5 U	---	---	---	99 U	---	99 U	
CSO	FOT-EX-12	6-6 ft	SubSurf (>2ft)	8/3/2006	FOT-EX-12-[080306]-6.0	N	---	---	---	---	---	---	---	---	7.2 U	---	---	---	---	---	---	---	---	---	
CSO	FOT-EX-13	13-13 ft	SubSurf (>2ft)	8/3/2006	FOT-EX-13-[080306]-13.0	N	---	---	---	---	---	---	---	---	8.5 U	---	---	---	---	---	---	---	---	---	
CSO	FOT-EX-28	8-8 ft	SubSurf (>2ft)	8/9/2006	WM-EX-28-[080906]-8.0	N	---	---	---	---	---	---	---	---	7.8 U	---	---	---	---	---	---	---	---	---	
CSO	FOT-EX-6	3-3 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-6-[080206]-3.0	N	---	---	---	---	---	---	---	---	17	---	---	---	---	---	---	---	---	---	
CSO	FOT-EX-7	3-3 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-7-[080206]-3.0	N	---	---	---	---	---	---	---	---	15	---	---	---	---	---	---	---	---	---	
CSO	FOT-EX-8	8-8 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-8-[080206]-8.0	N	---	---	---	---	---	---	---	---	7.8 U	---	---	---	---	---	---	---	---	---	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

						Parameter	2-Chloronaphthalene	2-Chlorophenol	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene*	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol*	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene*	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine*	
						Units	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
						MTCA Ecological ISC	NL	NL	NL	NL	NL	20000	NL	NL	20000	NL	4000	10000	NL	20000	NL	160000	160000	80000	2200
						MTCA Method B Protective of HH (SFV)	6.4e+006	400000	4e+006	NL	NL	800000	7.2e+006	NL	42000	NL	8e+006	91000	240000	1.6e+006	160000	160000	80000	2200	
						MTCA Method B Protective of GW as MSW	54000	1100	NL	NL	NL	2600	15000	11000	80	NL	130000	28	1300	4500	14000	100	NL	100	
Funct. Area	Loc ID	Depth	Zone	Date	Sample ID	Type																			
CSO	FOT-EX-9	6-6 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-9-[080206]-6.0	N	---	---	---	---	---	---	---	---	---	7.5 U	---	---	---	---	---	---	---	---	---
CSO	GB02	0-2 ft	Surf (0-2ft)	11/4/1997	LY17SS-GB02	N	400 U	400 U	400 U	1000 U	400 U	400 U	400 U	400 U	400 U	---	1000 U	400 U	400 U	400 U	1000 U	400 U	400 U	400 U	400 U
CSO	GB02	2-4 ft	SubSurf (>2ft)	11/10/1997	LY18SB-GB02	N	370 U	370 U	370 U	940 U	370 U	370 U	370 U	370 U	370 U	---	940 U	370 U	370 U	370 U	---	370 U	370 U	370 U	370 U
CSO	GB03	0-2 ft	Surf (0-2ft)	11/4/1997	LY19SS-GB03	N	380 U	380 U	380 U	950 U	380 U	380 U	380 U	380 U	380 U	---	950 U	380 U	380 U	380 U	950 U	380 U	380 U	380 U	380 U
CSO	GB03	2-4 ft	SubSurf (>2ft)	11/10/1997	LY20SB-GB03	N	390 U	390 U	390 U	990 U	390 U	390 U	390 U	390 U	390 U	---	990 U	390 U	390 U	390 U	---	390 U	390 U	390 U	390 U
CSO	GWG-6	2-3.5 ft	SubSurf (>2ft)	11/2/2010	GWG-6-2-3.5	N	---	---	---	---	---	---	---	---	29 U	---	---	6.6 U	---	---	---	99 UJ	---	99 U	
CSO	GWG-6	5-6.5 ft	SubSurf (>2ft)	11/2/2010	GWG-6-5-6.5	N	---	---	---	---	---	---	---	---	28 U	---	---	7.5 U	---	---	---	97 UJ	---	97 U	
CSO	GWG-6	10-11.5 ft	SubSurf (>2ft)	11/2/2010	GWG-6-10-11.5	N	---	---	---	---	---	---	---	---	29 U	---	---	7.7 U	---	---	---	97 UJ	---	97 U	
CSO	MW-70	2-3.5 ft	SubSurf (>2ft)	5/6/2011	MW70-2-3.5	N	---	---	---	---	---	---	---	---	---	---	---	7.4 U	---	---	---	---	---	---	
CSO	MW-70	5-6.5 ft	SubSurf (>2ft)	5/6/2011	MW70-5-6.5	N	---	---	---	---	---	---	---	---	---	---	---	7.3 U	---	---	---	---	---	---	
CSO	MW-70	10-11.5 ft	SubSurf (>2ft)	5/6/2011	MW70-10-11.5	N	---	---	---	---	---	---	---	---	---	---	---	7.7 U	---	---	---	---	---	---	
CSO	MW-70	15-16.5 ft	SubSurf (>2ft)	5/6/2011	MW70-15-16.5	N	---	---	---	---	---	---	---	---	---	---	---	7 U	---	---	---	---	---	---	
CSO	MW-70	20-21.5 ft	SubSurf (>2ft)	5/6/2011	MW70-20-21.5	N	---	---	---	---	---	---	---	---	---	---	---	7.3 U	---	---	---	---	---	---	
East Former Mill	CD02	0-2 ft	Surf (0-2ft)	11/19/1997	CD02-0SS	N	430 U	430 U	430 U	1100 U	430 U	430 U	430 U	430 U	430 U	---	1100 U	430 U	430 U	430 U	1100 U	430 U	430 U	430 U	430 U
East Former Mill	CD02	2-4 ft	SubSurf (>2ft)	11/19/1997	CD02-2SB	N	450 U	450 U	450 U	1100 U	450 U	450 U	450 U	450 U	450 U	---	1100 U	450 U	450 U	450 U	1100 U	450 U	450 U	450 U	450 U
East Former Mill	CD02	4-6 ft	SubSurf (>2ft)	11/19/1997	CD02-4SB	N	440 U	440 U	440 U	1100 U	440 U	440 U	440 U	440 U	440 U	---	1100 U	440 U	440 U	440 U	1100 U	440 U	440 U	440 U	440 U
East Former Mill	CD02	6-8 ft	SubSurf (>2ft)	11/19/1997	CD02-6SB	N	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	410 U	410 U	---	1000 U	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	410 U
East Former Mill	CD03	0-2 ft	Surf (0-2ft)	11/19/1997	CD03-0SS	N	360 U	360 U	360 U	900 U	360 U	360 U	360 U	360 U	360 U	---	900 U	360 U	360 U	360 U	900 U	360 U	360 U	360 U	360 U
East Former Mill	CD03	2-4 ft	SubSurf (>2ft)	11/19/1997	CD03-3SB	N	360 U	360 U	360 U	900 U	360 U	360 U	360 U	360 U	360 U	---	900 U	360 U	360 U	360 U	900 U	360 U	360 U	360 U	360 U
East Former Mill	GWG-7	2-3.5 ft	SubSurf (>2ft)	11/2/2010	GWG-7-2-3.5	N	---	---	---	---	---	---	---	---	26 U	---	---	7.8 U	---	---	---	98 UJ	---	98 U	
East Former Mill	GWG-7	5-6.5 ft	SubSurf (>2ft)	11/2/2010	GWG-7-5-6.5	N	---	---	---	---	---	---	---	---	29 U	---	---	8 U	---	---	---	97 UJ	---	97 U	
East Former Mill	GWG-7	7-8.5 ft	SubSurf (>2ft)	11/2/2010	GWG-7-7-8.5	N	---	---	---	---	---	---	---	---	25 U	---	---	7.7 U	---	---	---	97 UJ	---	97 U	
East Former Mill	SL22	0-0.25 ft	Surf (0-2ft)	5/14/2003	K2303687-013	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
East Former Mill	SL22	0.25-7.5 ft	SubSurf (>2ft)	5/14/2003	K2303687-014	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
East Shoreline	SL20	0.25-7 ft	SubSurf (>2ft)	5/14/2003	K2303687-010	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
East Shoreline	SL21	0.25-6.5 ft	SubSurf (>2ft)	5/14/2003	K2303687-012	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
East Shoreline	SL21	0.25-6.5 ft	SubSurf (>2ft)	5/14/2003	K2303687-016	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Ennis Creek	DD02	0-0.25 ft	Surf (0-2ft)	11/17/1997	97474373	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

Parameter							2-Chloronaphthalene	2-Chlorophenol	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene*	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol*	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene*	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine*	
Units							(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
MTCA Ecological ISC							NL	NL	NL	NL	NL	20000	NL	NL	20000	NL	4000	10000	NL	NL	20000	NL	80000	NL	2200
MTCA Method B Protective of HH (SFV)							6.4e+006	400000	4e+006	NL	NL	800000	7.2e+006	NL	42000	NL	8e+006	91000	240000	1.6e+006	160000	160000	80000	2200	
MTCA Method B Protective of GW as MSW							54000	1100	NL	NL	NL	2600	15000	11000	80	NL	130000	28	1300	4500	14000	100	NL	100	
Funct. Area	Loc ID	Depth	Zone	Date	Sample ID	Type																			
Estuary	CD01	0-2 ft	Surf (0-2ft)	11/19/1997	CD01-OSS	N	350 U	350 U	350 U	890 U	350 U	350 U	350 U	350 U	350 U	---	890 U	350 U	350 U	350 U	890 U	350 U	350 U	350 U	
Estuary	CD01	2-4 ft	SubSurf (>2ft)	11/19/1997	CD01-2SB	N	360 U	360 U	360 U	910 U	360 U	360 U	360 U	360 U	360 U	---	910 U	360 U	360 U	360 U	910 U	360 U	360 U	360 U	
Estuary	FR05	0-0.25 ft	Surf (0-2ft)	11/13/1997	FR05SS	N	620 U	620 U	620 U	1600 U	620 U	620 U	620 U	620 U	620 U	---	1600 U	620 U	620 U	620 U	1600 U	620 U	620 U	620 U	
Estuary	MW-62	2-3.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-2-3.5	N	---	---	---	---	---	---	---	---	26 B	---	---	6.7 U	---	---	---	96 UJ	---	96 U	
Estuary	MW-62	5-6.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-5-6.5	N	---	---	---	---	---	---	---	---	28 B	---	---	6.6 U	---	---	---	97 U	---	97 U	
Estuary	MW-62	10-11.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-10-11.5	N	---	---	---	---	---	---	---	---	24 B	---	---	7.1 U	---	---	---	98 U	---	98 U	
Estuary	MW-62	15-16.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-15-16.5	N	---	---	---	---	---	---	---	---	26 B	---	---	6.8 U	---	---	---	97 U	---	97 U	
Estuary	MW-62	20-21.25 ft	SubSurf (>2ft)	10/20/2010	MW-62-20-21.5	N	---	---	---	---	---	---	---	---	30 B	---	---	7.2 U	---	---	---	97 U	---	97 U	
Estuary	MW-62	25-26.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-25-26.5	N	---	---	---	---	---	---	---	---	29 U	---	---	7.8 U	---	---	---	98 UJ	---	98 U	
Estuary	RS20	0-0.25 ft	Surf (0-2ft)	5/15/2003	K2303678-013	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	330 U	330 U	2000 U	
Estuary	RS20	0-0.25 ft	Surf (0-2ft)	5/15/2003	K2303687-019	FD	340 U	340 U	340 U	2100 U	340 U	340 U	340 U	340 U	340 U	---	340 U	340 U	340 U	340 U	2100 U	340 U	340 U	2100 U	
Estuary	RS20	0.25-2 ft	Surf (0-2ft)	5/15/2003	K2303678-014	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	330 U	330 U	2000 U	
Estuary	RS21	0-0.25 ft	Surf (0-2ft)	5/16/2003	K2303762-012	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	340 U	340 U	2000 U	
Estuary	RS21	0-0.25 ft	Surf (0-2ft)	5/16/2003	K2303762-015	FD	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	340 U	340 U	2000 U	
Estuary	RS21	0.25-9.5 ft	SubSurf (>2ft)	5/16/2003	K2303762-013	N	340 U	340 U	340 U	2100 U	340 U	340 U	340 U	340 U	340 U	---	340 U	340 U	340 U	340 U	2100 U	340 U	340 U	2100 U	
Main Former Mill	AP01	0-0.25 ft	Surf (0-2ft)	11/13/1997	AP01SS	N	490 U	490 U	490 U	1200 U	490 U	490 U	490 U	490 U	490 U	---	1200 U	490 U	490 U	490 U	1200 U	490 U	490 U	490 U	
Main Former Mill	AP02	0-0.25 ft	Surf (0-2ft)	11/13/1997	AP02SS	N	460 U	460 U	460 U	1200 U	460 U	460 U	460 U	460 U	460 U	---	1200 U	460 U	95 J	460 U	1200 U	460 U	460 U	460 U	
Main Former Mill	AP03	0-0.25 ft	Surf (0-2ft)	11/13/1997	AP03SS	N	480 U	480 U	480 U	1200 U	480 U	480 U	480 U	480 U	480 U	---	1200 U	480 U	480 U	480 U	1200 U	480 U	480 U	480 U	
Main Former Mill	AP04	0-0.25 ft	Surf (0-2ft)	11/13/1997	AP04SS	N	650 U	650 U	650 U	1600 U	650 U	650 U	650 U	650 U	650 U	---	1600 U	650 U	190 J	650 U	1600 U	650 U	650 U	650 U	
Main Former Mill	BL01	0-0.25 ft	Surf (0-2ft)	11/14/1997	BL01SS	N	360 U	360 U	360 U	910 U	360 U	360 U	360 U	360 U	360 U	---	910 U	360 U	360 U	360 U	910 U	360 U	360 U	360 U	
Main Former Mill	BL02	0-0.25 ft	Surf (0-2ft)	11/14/1997	BL02SS	N	570 U	570 U	570 U	1400 U	570 U	570 U	570 U	570 U	570 U	---	1400 U	570 U	570 U	570 U	1400 U	570 U	570 U	570 U	
Main Former Mill	BL03	0-0.25 ft	Surf (0-2ft)	11/14/1997	BL03SS	N	380 U	380 U	380 U	970 U	380 U	380 U	380 U	380 U	380 U	---	970 U	380 U	380 U	380 U	970 U	380 U	380 U	380 U	
Main Former Mill	BL20	0.25-3.5 ft	Surf (0-2ft)	5/15/2003	K2303678-002	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	26 J	---	330 U	330 U	330 U	330 U	2000 U	330 U	330 U	2000 U	
Main Former Mill	BP01	0-0.25 ft	Surf (0-2ft)	11/11/1997	BP01SS	N	430 U	430 U	430 U	1100 U	430 U	430 U	430 U	430 U	430 U	---	1100 U	430 U	430 U	430 U	1100 U	430 U	430 U	430 U	
Main Former Mill	BP02	0-0.25 ft	Surf (0-2ft)	11/11/1997	BP02SS	N	3000 U	3000 U	3000 U	7500 U	3000 U	3000 U	3000 U	3000 U	3000 U	---	7500 U	3000 U	3000 U	3000 U	3000 U	7500 U	3000 U	3000 U	
Main Former Mill	BP03	0-0.25 ft	Surf (0-2ft)	11/11/1997	BP03SS	N	2200 U	2200 U	2200 U	5500 U	2200 U	2200 U	2200 U	2200 U	2200 U	---	5500 U	2200 U	2200 U	2200 U	5500 U	2200 U	2200 U	2200 U	
Main Former Mill	BP04	0-0.25 ft	Surf (0-2ft)	11/11/1997	BP04SS	N	550 U	550 U	550 U	1400 U	550 U	550 U	550 U	550 U	550 U	---	1400 U	550 U	550 U	550 U	1400 U	550 U	550 U	550 U	
Main Former Mill	DB02	0-0.25 ft	Surf (0-2ft)	11/13/1997	DB02SS	N	550 U	550 U	550 U	1400 U	550 U	550 U	550 U	550 U	550 U	---	1400 U	550 U	550 U	550 U	1400 U	550 U	550 U	550 U	
Main Former Mill	DB21	0.25-11 ft	SubSurf (>2ft)	5/19/2003	K2303762-019	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	340 U	340 U	2000 U	
Main Former Mill	FR02	0-0.25 ft	Surf (0-2ft)	11/12/1997	FR02SS	N	770 U	770 U	770 U	1900 U	770 U	770 U	770 U	770 U	770 U	---	1900 U	770 U	770 U	770 U	1900 U	770 U	770 U	770 U	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

Parameter							2-Chloronaphthalene	2-Chlorophenol	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene*	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol*	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene*	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine*		
Units							(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	
MTCA Ecological ISC							NL	NL	NL	NL	NL	20000	NL	NL	20000	NL	4000	10000	NL	NL	20000	NL	160000	160000	80000	2200
MTCA Method B Protective of HH (SFV)							6.4e+006	400000	4e+006	NL	NL	800000	7.2e+006	NL	42000	NL	8e+006	91000	240000	1.6e+006	160000	160000	80000	2200		
MTCA Method B Protective of GW as MSW							54000	1100	NL	NL	NL	2600	15000	11000	80	NL	130000	28	1300	4500	14000	100	NL	100		
Funct. Area	Loc ID	Depth	Zone	Date	Sample ID	Type																				
Main Former Mill	FR02	0.25-5.5 ft	SubSurf (>2ft)	5/16/2003	K2303762-007	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	340 U	340 U	2000 U		
Main Former Mill	FR04	0-0.25 ft	Surf (0-2ft)	11/14/1997	FR04SS	N	490 U	490 U	490 U	1200 U	490 U	490 U	490 U	490 U	490 U	---	1200 U	490 U	490 U	490 U	1200 U	490 U	490 U	---		
Main Former Mill	FR20	0.25-4.5 ft	SubSurf (>2ft)	5/16/2003	K2303762-009	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	340 U	340 U	2000 U		
Main Former Mill	GWG-1	2-3.5 ft	SubSurf (>2ft)	11/3/2010	GWG-1-2-3.5	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Main Former Mill	GWG-1	5-6.5 ft	SubSurf (>2ft)	11/3/2010	GWG-1-5-6.5	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Main Former Mill	GWG-1	7.5-9 ft	SubSurf (>2ft)	11/3/2010	GWG-1-7.5-9	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Main Former Mill	GWG-1	10-11.5 ft	SubSurf (>2ft)	11/4/2010	GWG-1-10-11.5	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Main Former Mill	GWG-1	15-16.5 ft	SubSurf (>2ft)	11/4/2010	GWG-1-15-16.5	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Main Former Mill	GWG-1	20-21.5 ft	SubSurf (>2ft)	11/4/2010	GWG-1-20-21.5	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Main Former Mill	GWG-5	2-3.5 ft	SubSurf (>2ft)	11/3/2010	GWG-5-2-3.5	N	---	---	---	---	---	---	---	---	22 U	---	---	7 U	---	---	---	98 UJ	---	98 U		
Main Former Mill	GWG-5	5-6.5 ft	SubSurf (>2ft)	11/3/2010	GWG-5-5-6.5	N	---	---	---	---	---	---	---	---	59 U	---	---	7.2 U	---	---	---	300 UJ	---	300 UJ		
Main Former Mill	GWG-5A	5-6.5 ft	SubSurf (>2ft)	11/4/2010	GWG-5A-5-6.5	N	---	---	---	---	---	---	---	---	29 U	---	---	6.8 U	---	---	---	98 UJ	---	98 U		
Main Former Mill	GWG-5A	10-11.5 ft	SubSurf (>2ft)	11/4/2010	GWG-5A-10-11.5	N	---	---	---	---	---	---	---	---	34 U	---	---	6.6 U	---	---	---	97 UJ	---	97 U		
Main Former Mill	GWG-5A	15-16.5 ft	SubSurf (>2ft)	11/5/2010	GWG-5A-15-16.5	N	---	---	---	---	---	---	---	---	36 U	---	---	7.3 U	---	---	---	97 UJ	---	97 U		
Main Former Mill	GWG-5A	20-21.5 ft	SubSurf (>2ft)	11/5/2010	GWG-5A-20-21.5	N	---	---	---	---	---	---	---	---	30 U	---	---	6.7 U	---	---	---	97 UJ	---	97 U		
Main Former Mill	GWG-5A	24-25.5 ft	SubSurf (>2ft)	11/5/2010	GWG-5A-24-25.5	N	---	---	---	---	---	---	---	---	36 U	---	---	6.7 U	---	---	---	96 U	---	96 U		
Main Former Mill	LB01	0-2 ft	Surf (0-2ft)	11/22/1997	LB01-OSS	N	380 U	380 U	380 U	950 U	380 U	380 U	380 U	380 U	380 U	---	950 U	380 U	380 U	380 U	950 U	380 U	380 U	380 U		
Main Former Mill	LB02	0-2 ft	Surf (0-2ft)	11/22/1997	LB02-OSS	N	430 U	430 U	430 U	1100 U	430 U	430 U	430 U	430 U	430 U	---	1100 U	430 U	430 U	430 U	1100 U	430 U	430 U	430 U		
Main Former Mill	MR01	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR01SS	N	510 U	510 U	510 U	1300 U	510 U	510 U	510 U	510 U	510 U	---	1300 U	510 U	820	510 U	1300 U	510 U	510 U	510 U		
Main Former Mill	MR02	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR02SS	N	360 U	360 U	360 U	900 U	360 U	360 U	360 U	360 U	360 U	---	900 U	360 U	360 U	360 U	900 U	360 U	360 U	360 U		
Main Former Mill	MR03	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR03SS	N	800 U	800 U	800 U	2000 U	800 U	800 U	800 U	800 U	800 U	---	2000 U	800 U	800 U	800 U	2000 U	800 U	800 U	800 U		
Main Former Mill	MR04	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR04SS	N	350 U	350 U	350 U	890 U	350 U	350 U	350 U	350 U	350 U	---	890 U	350 U	350 U	350 U	890 U	350 U	350 U	---		
Main Former Mill	MR05	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR05SS	N	350 U	350 U	350 U	890 U	350 U	350 U	350 U	350 U	350 U	---	890 U	350 U	350 U	350 U	890 U	350 U	350 U	350 U		
Main Former Mill	MR06	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR06SS	N	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	410 U	410 U	---	1000 U	410 U	410 U	410 U	1000 U	410 U	410 U	410 U		
Main Former Mill	MR07	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR07SS	N	570 U	570 U	570 U	1400 U	570 U	570 U	570 U	570 U	570 U	---	1400 U	570 U	570 U	570 U	1400 U	570 U	570 U	570 U		
Main Former Mill	MR08	0-0.25 ft	Surf (0-2ft)	11/14/1997	MR08SS	N	390 U	390 U	390 U	980 U	390 U	390 U	390 U	390 U	390 U	---	980 U	390 U	390 U	390 U	980 U	390 U	390 U	390 U		
Main Former Mill	MR09	0-0.25 ft	Surf (0-2ft)	11/15/1997	MR09SS	N	350 U	350 U	350 U	880 U	350 U	350 U	350 U	350 U	350 U	---	880 U	350 U	350 U	350 U	880 U	350 U	350 U	350 U		
Main Former Mill	MR10	0-0.25 ft	Surf (0-2ft)	11/13/1997	MR10SS	N	350 U	350 U	350 U	890 U	350 U	350 U	350 U	350 U	350 U	---	890 U	350 U	350 U	350 U	890 U	350 U	350 U	350 U		
Main Former Mill	MR11	0-0.25 ft	Surf (0-2ft)	11/14/1997	MR11SS	N	460 U	460 U	460 U	1200 U	460 U	460 U	460 U	460 U	460 U	---	1200 U	460 U	460 U	460 U	1200 U	460 U	460 U	---		
Main Former Mill	MR12	0-0.25 ft	Surf (0-2ft)	11/14/1997	MR12SS	N	370 U	370 U	370 U	920 U	370 U	370 U	370 U	370 U	370 U	---	920 U	370 U	370 U	370 U	920 U	370 U	370 U	---		

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

Parameter Units							2-Chloronaphthalene	2-Chlorophenol	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene*	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol*	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene*	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine*		
MTCA Ecological ISC							6.4e+006	400000	4e+006	NL	NL	20000	NL	NL	20000	NL	4000	10000	NL	NL	20000	1.6e+006	160000	160000	80000	2200
MTCA Method B Protective of HH (SFV)							54000	1100	NL	NL	NL	800000	7.2e+006	NL	42000	NL	8e+006	91000	240000	1.6e+006	160000	160000	80000	2200		
MTCA Method B Protective of GW as MSW							54000	1100	NL	NL	NL	2600	15000	11000	80	NL	130000	28	1300	4500	14000	100	NL	100		
Funct. Area	Loc ID	Depth	Zone	Date	Sample ID	Type																				
Main Former Mill	MR20	0-0.25 ft	Surf (0-2ft)	5/15/2003	K2303678-015	N	340 U	340 U	340 U	2100 U	340 U	340 U	340 U	340 U	340 U	---	340 U	340 U	340 U	340 U	2100 U	340 U	340 U	2100 U		
Main Former Mill	MS20	0.25-5 ft	SubSurf (>2ft)	5/14/2003	K2303687-004	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	340 U	340 U	2000 U		
Main Former Mill	MW-65	5-6.5 ft	SubSurf (>2ft)	3/10/2011	MW-65-5-6.5	N	---	---	---	---	---	---	---	---	---	---	---	7.1 U	---	---	---	---	---	---		
Main Former Mill	MW-65	15-16.5 ft	SubSurf (>2ft)	3/10/2011	MW-65-15-16.5	N	---	---	---	---	---	---	---	---	---	---	---	7 U	---	---	---	---	---	---		
Main Former Mill	MW-66	2.5-4 ft	SubSurf (>2ft)	3/9/2011	MW-66-2.5-4	N	---	---	---	---	---	---	---	---	---	---	---	8.3 U	---	---	---	---	---	---		
Main Former Mill	MW-66	15-16.5 ft	SubSurf (>2ft)	3/9/2011	MW-66-15-16.5	N	---	---	---	---	---	---	---	---	---	---	---	7 U	---	---	---	---	---	---		
Main Former Mill	MW-69	2-3.5 ft	SubSurf (>2ft)	5/6/2011	MW69-2-3.5	N	---	---	---	---	---	---	---	---	---	---	---	7.3 U	---	---	---	---	---	---		
Main Former Mill	MW-69	5-6.5 ft	SubSurf (>2ft)	5/6/2011	MW69-5-6.5	N	---	---	---	---	---	---	---	---	---	---	---	7.3 U	---	---	---	---	---	---		
Main Former Mill	MW-69	10-11.5 ft	SubSurf (>2ft)	5/6/2011	MW69-10-11.5	N	---	---	---	---	---	---	---	---	---	---	---	14 U	---	---	---	---	---	---		
Main Former Mill	MW-69	15-16.5 ft	SubSurf (>2ft)	5/6/2011	MW69-15-16.5	N	---	---	---	---	---	---	---	---	---	---	---	7.3 U	---	---	---	---	---	---		
Main Former Mill	MW-69	20-21.5 ft	SubSurf (>2ft)	5/6/2011	MW69-20-21.5	N	---	---	---	---	---	---	---	---	---	---	---	7.7 U	---	---	---	---	---	---		
Main Former Mill	MW-69	25-26.5 ft	SubSurf (>2ft)	5/6/2011	MW69-25-26.5	N	---	---	---	---	---	---	---	---	---	---	---	7.8 U	---	---	---	---	---	---		
Main Former Mill	MW-69	29-30 ft	SubSurf (>2ft)	5/6/2011	MW69-29-30	N	---	---	---	---	---	---	---	---	---	---	---	6.9 U	---	---	---	---	---	---		
Main Former Mill	PC01	0-0.25 ft	Surf (0-2ft)	11/10/1997	PC01SS	N	570 U	570 U	570 U	1400 U	570 U	570 U	570 U	570 U	570 U	---	1400 U	570 U	570 U	570 U	---	570 U	570 U	570 U		
Main Former Mill	PW20	0.25-8.5 ft	SubSurf (>2ft)	5/15/2003	K2303678-012	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	330 U	330 U	2000 U		
Main Former Mill	SR01	0-0.25 ft	Surf (0-2ft)	11/21/1997	SR01-SS	N	470 U	470 U	470 U	1200 U	470 U	470 U	470 U	470 U	470 U	---	1200 U	470 U	470 U	470 U	1200 U	470 U	470 U	470 U		
Main Former Mill	SR02	0-0.25 ft	Surf (0-2ft)	11/21/1997	SR02-SS	N	520 U	520 U	520 U	1300 U	520 U	520 U	520 U	520 U	520 U	---	1300 U	520 U	520 U	520 U	1300 U	520 U	520 U	520 U		
Main Former Mill	SR03	0-0.25 ft	Surf (0-2ft)	11/21/1997	SR03-SS	N	590 U	590 U	590 U	1500 U	590 U	590 U	590 U	590 U	590 U	---	1500 U	590 U	590 U	590 U	1500 U	590 U	590 U	590 U		
Main Former Mill	SR03	0.25-11 ft	SubSurf (>2ft)	5/19/2003	K2303763-003	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	340 U	340 U	2000 U		
Main Former Mill	SR04	0-0.25 ft	Surf (0-2ft)	11/21/1997	SR04-SS	N	660 U	660 U	660 U	1700 U	660 U	660 U	660 U	660 U	660 U	---	1700 U	660 U	660 U	660 U	1700 U	660 U	660 U	660 U		
Main Former Mill	SR20	0.25-7 ft	SubSurf (>2ft)	5/19/2003	K2303763-005	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	340 U	340 U	2000 U		
Main Former Mill	SR21	0.25-3 ft	Surf (0-2ft)	5/15/2003	K2303687-018	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	340 U	340 U	2000 U		
Main Former Mill	SR22	0.25-5 ft	SubSurf (>2ft)	5/14/2003	K2303687-006	N	340 U	340 U	340 U	2100 U	340 U	340 U	340 U	340 U	340 U	---	340 U	340 U	340 U	340 U	2100 U	340 U	340 U	2100 U		
Main Former Mill	SR23	0.25-13 ft	SubSurf (>2ft)	5/14/2003	K2303687-008	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	340 U	340 U	2000 U		
Main Former Mill	SR23	0.25-13 ft	SubSurf (>2ft)	5/20/2003	K2303763-015	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	340 U	340 U	2000 U		
Main Former Mill	SR24	0.25-16 ft	SubSurf (>2ft)	5/20/2003	K2303763-014	N	340 U	340 U	340 U	2100 U	340 U	340 U	340 U	340 U	340 U	---	340 U	340 U	340 U	340 U	2100 U	340 U	340 U	2100 U		
Main Former Mill	SSB-1	7-8.5 ft	SubSurf (>2ft)	10/25/2010	SSB-1-7-8.5	N	---	---	---	---	---	---	---	---	66 U	---	---	7.5 R	---	---	---	330 UI	---	330 UI		
Main Former Mill	SSB-1	10-11.5 ft	SubSurf (>2ft)	10/25/2010	DUPE2-102510	FD	---	---	---	---	---	---	---	---	91 U	---	---	8 R	---	---	---	220 UI	---	220 UI		
Main Former Mill	SSB-1	10-11.5 ft	SubSurf (>2ft)	10/25/2010	SSB-1-10-11.5	N	---	---	---	---	---	---	---	---	74 U	---	---	7.6 R	---	---	---	130 UI	---	130 UI		
Main Former Mill	SSB-1	15-16.5 ft	SubSurf (>2ft)	10/25/2010	SSB-1-15-16.5	N	---	---	---	---	---	---	---	---	41 U	---	---	7.6 U	---	---	---	97 U	---	97 U		

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

Parameter Units							2-Chloronaphthalene	2-Chlorophenol	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene*	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol*	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene*	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine*		
MTCA Ecological ISC							(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	
MTCA Method B Protective of HH (SFV)							6.4e+006	400000	4e+006	NL	NL	20000	NL	NL	20000	NL	4000	10000	NL	NL	20000	1.6e+006	160000	160000	80000	2200
MTCA Method B Protective of GW as MSW							54000	1100	NL	NL	NL	2600	15000	11000	80	NL	130000	28	1300	4500	14000	100	NL	NL	100	
Funct. Area	Loc ID	Depth	Zone	Date	Sample ID	Type																				
Main Former Mill	SSB-1	25-26.5 ft	SubSurf (>2ft)	10/25/2010	SSB-1-25-26.5	N	---	---	---	---	---	---	---	---	41 U	---	---	6.5 U	---	---	---	---	96 U	---	96 U	
Main Former Mill	SSB-3	2-3.5 ft	SubSurf (>2ft)	10/22/2010	SSB-3-2-3.5	N	---	---	---	---	---	---	---	---	59 U	---	---	6.6 U	---	---	---	---	300 UJ	---	300 U	
Main Former Mill	SSB-3	10-11.5 ft	SubSurf (>2ft)	10/22/2010	SSB-3-10-11.5	N	---	---	---	---	---	---	---	---	25 B	---	---	7.4 U	---	---	---	---	97 UJ	---	97 U	
Main Former Mill	SSB-3	15-16.5 ft	SubSurf (>2ft)	10/22/2010	SSB-3-15-16.5	N	---	---	---	---	---	---	---	---	28 B	---	---	7.1 U	---	---	---	---	99 UJ	---	99 U	
Main Former Mill	SSB-3	20-21.5 ft	SubSurf (>2ft)	10/22/2010	SSB-3-20-21.5	N	---	---	---	---	---	---	---	---	21 B	---	---	6.8 U	---	---	---	---	98 UJ	---	98 U	
Main Former Mill	SSB-3	25-26.5 ft	SubSurf (>2ft)	10/22/2010	SSB-3-25-26.5	N	---	---	---	---	---	---	---	---	19 U	---	---	6.8 U	---	---	---	---	94 UJ	---	94 U	
Main Former Mill	SSB-3	27-28.5 ft	SubSurf (>2ft)	10/22/2010	SSB-3-27-28.5	N	---	---	---	---	---	---	---	---	25 B	---	---	7.2 U	---	---	---	---	97 UJ	---	97 U	
Main Former Mill	TB01	0-0.25 ft	Surf (0-2ft)	11/12/1997	TB01SS	N	490 U	490 U	490 U	1200 U	490 U	490 U	490 U	490 U	490 U	---	1200 U	490 U	490 U	490 U	1200 U	490 U	490 U	490 U	490 U	
Main Former Mill	TB02	0-0.25 ft	Surf (0-2ft)	11/13/1997	TB02SS	N	350 U	350 U	350 U	880 U	350 U	350 U	350 U	350 U	350 U	---	880 U	350 U	350 U	350 U	880 U	350 U	350 U	---	---	
Main Former Mill	TP-09	2-2 ft	Surf (0-2ft)	1/6/2011	TP-09-2'	N	---	---	---	---	---	---	---	---	20 U	---	---	6.9 U	---	---	---	---	98 U	---	98 U	
Main Former Mill	TP-09	3-3 ft	SubSurf (>2ft)	1/6/2011	TP-09-3'	N	---	---	---	---	---	---	---	---	19 U	---	---	7.3 U	---	---	---	---	97 U	---	97 U	
Main Former Mill	TP-10	2-2 ft	Surf (0-2ft)	1/6/2011	TP-10-2'	N	---	---	---	---	---	---	---	---	20 U	---	---	9.9 U	---	---	---	---	100 U	---	100 U	
Main Former Mill	TP-10	3-3 ft	SubSurf (>2ft)	1/6/2011	TP-10-3'	N	---	---	---	---	---	---	---	---	20 U	---	---	7.3 U	---	---	---	---	98 U	---	98 U	
Main Former Mill	TP-14	2-2 ft	Surf (0-2ft)	1/6/2011	TP-14-2'	N	---	---	---	---	---	---	---	---	20 U	---	---	6.7 U	---	---	---	---	99 U	---	99 U	
Main Former Mill	TP-14	3-3 ft	SubSurf (>2ft)	1/6/2011	TP-14-3'	N	---	---	---	---	---	---	---	---	65 U	---	---	12 U	---	---	---	---	320 U	---	320 U	
Main Former Mill	TP-14	5-5 ft	SubSurf (>2ft)	1/6/2011	TP-14-5'	N	---	---	---	---	---	---	---	---	19 U	---	---	6.8 U	---	---	---	---	97 U	---	97 U	
Main Former Mill	TP-21	3-3 ft	SubSurf (>2ft)	1/7/2011	TP-21-3'	N	---	---	---	---	---	---	---	---	20 U	---	---	10 U	---	---	---	---	100 U	---	100 U	
North Shoreline	BS01	0-0.25 ft	Surf (0-2ft)	11/21/1997	BS01-SS	N	360 U	360 U	360 U	910 U	360 U	360 U	360 U	360 U	360 U	---	910 U	360 U	360 U	360 U	910 U	360 U	360 U	360 U	360 U	
North Shoreline	BS02	0-0.25 ft	Surf (0-2ft)	11/21/1997	BS02-SS	N	390 U	390 U	390 U	980 U	390 U	390 U	390 U	390 U	390 U	---	980 U	390 U	390 U	390 U	980 U	390 U	390 U	390 U	390 U	
North Shoreline	CS20	0.25-9 ft	SubSurf (>2ft)	5/19/2003	K2303762-017	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	340 U	340 U	2000 U	2000 U	
North Shoreline	DK20	0.25-7 ft	SubSurf (>2ft)	5/15/2003	K2303678-008	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	330 U	330 U	2000 U	2000 U	
North Shoreline	PC02	0-0.25 ft	Surf (0-2ft)	11/10/1997	PC02SS	N	430 U	430 U	430 U	1100 U	430 U	430 U	430 U	430 U	430 U	---	1100 U	430 U	430 U	430 U	1100 U	430 U	430 U	430 U	430 U	
North Shoreline	PC20	0.25-11 ft	SubSurf (>2ft)	5/19/2003	K2303763-001	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	340 U	340 U	2000 U	2000 U	
NW Shoreline	GB01	0-2 ft	Surf (0-2ft)	11/4/1997	LY07SS-GB01	N	600 U	600 U	600 U	1500 U	600 U	600 U	600 U	600 U	600 U	---	1500 U	600 U	600 U	600 U	1500 U	600 U	600 U	600 U	600 U	
NW Shoreline	GB01	2-4 ft	SubSurf (>2ft)	11/11/1997	LY08SB-GB01	N	450 U	450 U	450 U	1100 U	450 U	450 U	450 U	450 U	450 U	---	1100 U	450 U	450 U	450 U	1100 U	450 U	450 U	450 U	450 U	
NW Shoreline	GB01	4-6 ft	SubSurf (>2ft)	11/11/1997	LY25SB-GB01	N	380 U	380 U	380 U	970 U	380 U	380 U	380 U	380 U	380 U	---	970 U	380 U	380 U	380 U	970 U	380 U	380 U	380 U	380 U	
NW Shoreline	GB04	0-2 ft	Surf (0-2ft)	11/4/1997	LY01SS-GB04	N	920 U	920 U	920 U	2300 U	920 U	920 U	920 U	920 U	920 U	---	2300 U	920 U	920 U	920 U	2300 U	920 U	920 U	920 U	920 U	
NW Shoreline	GB05	0-2 ft	Surf (0-2ft)	11/4/1997	LY05SS-GB05	N	1200 U	1200 U	1200 U	3000 U	1200 U	1200 U	1200 U	1200 U	1200 U	---	3000 U	1200 U	1200 U	1200 U	3000 U	1200 U	1200 U	1200 U	1200 U	
NW Shoreline	GB05	2-4 ft	SubSurf (>2ft)	11/10/1997	LY06SB-GB05	N	390 U	390 U	390 U	990 U	390 U	390 U	390 U	390 U	390 U	---	990 U	390 U	390 U	390 U	990 U	390 U	390 U	390 U	390 U	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

Parameter							2-Chloronaphthalene	2-Chlorophenol	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene*	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol*	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene*	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine*	
Units							(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
MTCA Ecological ISC							NL	NL	NL	NL	NL	20000	NL	NL	20000	NL	4000	10000	NL	NL	20000	NL	80000	NL	2200
MTCA Method B Protective of HH (SFV)							6.4e+006	400000	4e+006	NL	NL	800000	7.2e+006	NL	42000	NL	8e+006	91000	240000	1.6e+006	160000	160000	80000	80000	2200
MTCA Method B Protective of GW as MSW							54000	1100	NL	NL	NL	2600	15000	11000	80	NL	130000	28	1300	4500	14000	100	NL	NL	100
Funct. Area	Loc ID	Depth	Zone	Date	Sample ID	Type																			
NW Shoreline	GB06	0-2 ft	Surf (0-2ft)	11/4/1997	LY09SS-GB06	N	370 U	370 U	370 U	920 U	370 U	370 U	370 U	370 U	370 U	---	920 U	370 U	370 U	370 U	920 U	370 U	370 U	370 U	
NW Shoreline	GB07	0-2 ft	Surf (0-2ft)	11/4/1997	LY11SS-GB07	N	390 U	390 U	390 U	990 U	390 U	390 U	390 U	390 U	390 U	---	990 U	390 U	390 U	390 U	990 U	390 U	390 U	390 U	
NW Shoreline	GB07	2-4 ft	SubSurf (>2ft)	11/12/1997	LY12SB-GB07	N	350 U	350 U	350 U	890 U	350 U	350 U	350 U	350 U	350 U	---	890 U	350 U	350 U	350 U	890 U	350 U	350 U	350 U	
NW Shoreline	GB07	4-6 ft	SubSurf (>2ft)	11/12/1997	LY14SB-GB07	N	360 U	360 U	360 U	910 U	360 U	360 U	360 U	360 U	360 U	---	910 U	360 U	360 U	360 U	910 U	360 U	360 U	360 U	
NW Shoreline	GB07	6-8 ft	SubSurf (>2ft)	11/12/1997	LY27SB-GB07	N	370 U	370 U	370 U	930 U	370 U	370 U	370 U	370 U	370 U	---	930 U	370 U	370 U	370 U	930 U	370 U	370 U	370 U	
NW Shoreline	GB08	0-2 ft	Surf (0-2ft)	11/4/1997	LY13SS-GB08	N	430 U	430 U	430 U	1100 U	430 U	430 U	430 U	430 U	430 U	---	1100 U	430 U	430 U	430 U	1100 U	430 U	430 U	430 U	
NW Shoreline	GB08	2-4 ft	SubSurf (>2ft)	11/12/1997	LY29SB-GB08	N	360 U	360 U	360 U	910 U	360 U	360 U	360 U	360 U	360 U	---	910 U	360 U	360 U	360 U	910 U	360 U	360 U	360 U	
NW Shoreline	GB09	0-2 ft	Surf (0-2ft)	11/4/1997	LY02SS-GB09	N	730 U	730 U	730 U	1800 U	730 U	730 U	730 U	730 U	730 U	---	1800 U	730 U	730 U	730 U	1800 U	730 U	730 U	730 U	
NW Shoreline	GB09	2-4 ft	SubSurf (>2ft)	11/10/1997	LY04SB-GB09	N	340 U	340 U	340 U	860 U	340 U	340 U	340 U	340 U	340 U	---	860 U	340 U	340 U	340 U	860 U	340 U	340 U	340 U	
NW Shoreline	GB10	10-10 ft	SubSurf (>2ft)	11/11/1997	LY10SB-GB10	N	370 U	370 U	370 U	920 U	370 U	370 U	370 U	370 U	370 U	---	920 U	370 U	370 U	370 U	920 U	370 U	370 U	370 U	
NW Shoreline	LY15	0-2 ft	Surf (0-2ft)	11/4/1997	LY15SS	N	500 U	500 U	500 U	1300 U	500 U	500 U	500 U	500 U	500 U	---	1300 U	500 U	500 U	500 U	1300 U	500 U	500 U	500 U	
NW Shoreline	LY16	0-2 ft	Surf (0-2ft)	11/4/1997	LY16SS	N	500 U	500 U	500 U	1300 U	500 U	500 U	500 U	500 U	500 U	---	1300 U	500 U	500 U	500 U	1300 U	500 U	500 U	500 U	
NW Shoreline	LY24	0-0.25 ft	Surf (0-2ft)	5/12/2003	K2303593-005	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NW Shoreline	LY24	0.25-6.5 ft	SubSurf (>2ft)	5/12/2003	K2303593-006	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NW Shoreline	LY25	0-0.25 ft	Surf (0-2ft)	5/12/2003	K2303593-007	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NW Shoreline	LY25	0.25-8 ft	SubSurf (>2ft)	5/12/2003	K2303593-008	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NW Shoreline	MW-61	5-6.5 ft	SubSurf (>2ft)	10/19/2010	MW-61-5-6.5	N	---	---	---	---	---	---	---	---	19 U	---	6.7 U	---	---	---	97 U	---	97 U	---	
NW Shoreline	MW-61	10-11.5 ft	SubSurf (>2ft)	10/19/2010	MW-61-10-11.5	N	---	---	---	---	---	---	---	---	20 U	---	7.2 U	---	---	---	98 U	---	98 U	---	
NW Shoreline	MW-61	15-16.5 ft	SubSurf (>2ft)	10/19/2010	MW-61-15-16.5	N	---	---	---	---	---	---	---	---	20 U	---	7.1 U	---	---	---	98 U	---	98 U	---	
NW Shoreline	MW-61	20-21.25 ft	SubSurf (>2ft)	10/19/2010	MW-61-20.21.25	N	---	---	---	---	---	---	---	---	20 U	---	7.2 U	---	---	---	98 U	---	98 U	---	
NW Shoreline	MW-67	2-3.5 ft	SubSurf (>2ft)	3/9/2011	MW-67-2-3.5	N	---	---	---	---	---	---	---	---	---	---	6.4 U	---	---	---	---	---	---	---	
NW Shoreline	MW-67	15-16.5 ft	SubSurf (>2ft)	3/9/2011	MW-67-15-16.5	N	---	---	---	---	---	---	---	---	---	---	7.4 U	---	---	---	---	---	---	---	
NW Shoreline	PA01	0-2 ft	Surf (0-2ft)	11/15/1997	PA01-OSS	N	400 U	400 U	400 U	1000 U	400 U	400 U	400 U	400 U	400 U	---	1000 U	400 U	400 U	400 U	1000 U	400 U	400 U	400 U	
NW Shoreline	PA02	0-2 ft	Surf (0-2ft)	11/15/1997	PA02-OSS	N	420 U	420 U	420 U	1100 U	420 U	420 U	420 U	420 U	420 U	---	1100 U	420 U	420 U	420 U	1100 U	420 U	420 U	420 U	
NW Shoreline	PA03	0-2 ft	Surf (0-2ft)	11/15/1997	PA03-OSS	N	350 U	350 U	350 U	880 U	350 U	350 U	350 U	350 U	350 U	---	880 U	350 U	350 U	350 U	880 U	350 U	350 U	350 U	
NW Shoreline	PA04	0-2 ft	Surf (0-2ft)	11/15/1997	PA04-OSS	N	340 U	340 U	340 U	860 U	340 U	340 U	340 U	340 U	340 U	---	860 U	340 U	340 U	340 U	860 U	340 U	340 U	340 U	
NW Shoreline	PA04	2-4 ft	SubSurf (>2ft)	11/15/1997	PA04-2SB	N	340 U	340 U	340 U	860 U	340 U	340 U	340 U	340 U	340 U	---	860 U	340 U	340 U	340 U	860 U	340 U	340 U	340 U	
NW Shoreline	PA04	4-6 ft	SubSurf (>2ft)	11/15/1997	PA04-4SB	N	350 U	350 U	350 U	880 U	350 U	350 U	350 U	350 U	350 U	---	880 U	350 U	350 U	350 U	880 U	350 U	350 U	350 U	
Prefab	PF02	0-2 ft	Surf (0-2ft)	11/18/1997	PF02-OSS	N	420 U	420 U	420 U	1100 U	420 U	420 U	420 U	420 U	420 U	---	1100 U	420 U	420 U	420 U	1100 U	420 U	420 U	420 U	
Prefab	PF02	2-4 ft	SubSurf (>2ft)	11/18/1997	PF02-2SB	N	450 U	450 U	450 U	1100 U	450 U	450 U	450 U	450 U	450 U	---	1100 U	450 U	450 U	450 U	1100 U	450 U	450 U	450 U	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

Parameter Units							2-Chloronaphthalene	2-Chlorophenol	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene*	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol*	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene*	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine*	
MTCA Ecological ISC							NL	NL	NL	NL	NL	20000	NL	NL	20000	NL	4000	10000	NL	NL	20000	NL	160000	80000	NL
MTCA Method B Protective of HH (SFV)							6.4e+006	400000	4e+006	NL	NL	800000	7.2e+006	NL	42000	NL	8e+006	91000	240000	1.6e+006	160000	160000	80000	2200	
MTCA Method B Protective of GW as MSW							54000	1100	NL	NL	NL	2600	15000	11000	80	NL	130000	28	1300	4500	14000	100	NL	100	
Funct. Area	Loc ID	Depth	Zone	Date	Sample ID	Type																			
Prefab	PF03	0-2 ft	Surf (0-2ft)	11/18/1997	PF03-0SS	N	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	410 U	410 U	---	1000 U	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	
Prefab	PF03	2-4 ft	SubSurf (>2ft)	11/18/1997	PF03-2SB	N	420 U	420 U	420 U	1100 U	420 U	420 U	420 U	420 U	420 U	---	1100 U	420 U	420 U	420 U	1100 U	420 U	420 U	420 U	
Prefab	PF03	4-6 ft	SubSurf (>2ft)	11/18/1997	PF03-4SB	N	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	410 U	410 U	---	1000 U	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	
Prefab	PF03	6-8 ft	SubSurf (>2ft)	11/18/1997	PF03-6SB	N	440 U	440 U	440 U	1100 U	440 U	440 U	440 U	440 U	440 U	---	1100 U	440 U	440 U	440 U	1100 U	440 U	440 U	440 U	
Prefab	PF03	8-10 ft	SubSurf (>2ft)	11/18/1997	PF03-8SB	N	450 U	450 U	450 U	1100 U	450 U	450 U	450 U	450 U	450 U	---	1100 U	450 U	450 U	450 U	1100 U	450 U	450 U	450 U	
Prefab	PF03	16-18 ft	SubSurf (>2ft)	11/18/1997	PF03-16SB	N	370 U	370 U	370 U	940 U	370 U	370 U	370 U	370 U	370 U	---	940 U	370 U	370 U	370 U	940 U	370 U	370 U	370 U	
West Former Mill	BP20	0.25-8 ft	SubSurf (>2ft)	5/13/2003	K2303593-014	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	340 U	340 U	2000 U	
West Former Mill	FOT-EX-1	9.5-9.5 ft	SubSurf (>2ft)	8/1/2006	FOT-EX-1-[080106]-9.5	N	---	---	---	---	---	---	---	---	---	8.2 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-10	11.5-11.5 ft	SubSurf (>2ft)	8/7/2006	FOT-EX-10-[080706]-11.5	N	---	---	---	---	---	---	---	---	---	7.6 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-11	9-9 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-19-[080806]-4.0	N	---	---	---	---	---	---	---	---	---	7.3 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-14	9-9 ft	SubSurf (>2ft)	8/3/2006	FOT-EX-14-[080306]-9.0	N	---	---	---	---	---	---	---	---	---	7.3 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-15	11-11 ft	SubSurf (>2ft)	8/7/2006	FOT-EX-15-[080706]-11.0	N	---	---	---	---	---	---	---	---	---	7.5 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-16	8-8 ft	SubSurf (>2ft)	8/7/2006	FOT-EX-16-[080706]-8.0	N	---	---	---	---	---	---	---	---	---	7.8 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-17	3-3 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-17-[080806]-3.0	N	---	---	---	---	---	---	---	---	---	9.4 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-18	7-7 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-18-[080806]-7.0	N	---	---	---	---	---	---	---	---	---	6.9 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-19	9-9 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-19-[080806]-9.0	N	---	---	---	---	---	---	---	---	---	8 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-2	9-9 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-2-[080206]-9.0	N	---	---	---	---	---	---	---	---	---	7.2 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-20	7-7 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-20-[080806]-7.0	N	---	---	---	---	---	---	---	---	---	7.5 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-21	7-7 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-21-[080806]-7.0	N	---	---	---	---	---	---	---	---	---	7.1 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-22	5-5 ft	SubSurf (>2ft)	8/8/2006	FOT-DUP-2-080806	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-22	5-5 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-22-[080806]-5.0	N	---	---	---	---	---	---	---	---	---	7.2 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-23	5-5 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-23-[080806]-5.0	N	---	---	---	---	---	---	---	---	---	7.1 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-24	5-5 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-24-[080806]-5.0	N	---	---	---	---	---	---	---	---	---	9.6	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-25	5-5 ft	SubSurf (>2ft)	8/9/2006	WM-EX-25-[080906]-5.0	N	---	---	---	---	---	---	---	---	---	7.4 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-26	5-5 ft	SubSurf (>2ft)	8/9/2006	WM-EX-26-[080906]-5.0	N	---	---	---	---	---	---	---	---	---	22	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-27	8-8 ft	SubSurf (>2ft)	8/9/2006	WM-EX-27-[080906]-8.0	N	---	---	---	---	---	---	---	---	---	7.8 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-3	11-11 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-3-[080206]-11.0	N	---	---	---	---	---	---	---	---	---	42	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-4	8-8 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-4-[080206]-8.0	N	---	---	---	---	---	---	---	---	---	7.8 U	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-5	15-15 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-5-[080206]-15.0	N	---	---	---	---	---	---	---	---	---	8.3 U	---	---	---	---	---	---	---	---	
West Former Mill	HF01	0-2 ft	Surf (0-2ft)	11/13/1997	HF01-OSS	N	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	410 U	410 U	---	1000 U	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

Parameter							2-Chloronaphthalene	2-Chlorophenol	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene*	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol*	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene*	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine*	
Units							(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
MTCA Ecological ISC							NL	NL	NL	NL	NL	20000	NL	NL	20000	NL	4000	10000	NL	NL	20000	NL	160000	80000	2200
MTCA Method B Protective of HH (SFV)							6.4e+006	400000	4e+006	NL	NL	800000	7.2e+006	NL	42000	NL	8e+006	91000	240000	1.6e+006	160000	160000	80000	2200	
MTCA Method B Protective of GW as MSW							54000	1100	NL	NL	NL	2600	15000	11000	80	NL	130000	28	1300	4500	14000	100	NL	100	
Funct. Area	Loc ID	Depth	Zone	Date	Sample ID	Type																			
West Former Mill	HF01	2-4 ft	SubSurf (>2ft)	11/13/1997	HF01-2SB	N	450 U	450 U	450 U	1100 U	450 U	450 U	450 U	450 U	450 U	---	1100 U	450 U	450 U	450 U	1100 U	450 U	450 U	450 U	
West Former Mill	HF02	0-2 ft	Surf (0-2ft)	11/13/1997	HF02-OSS	N	390 U	390 U	390 U	980 U	390 U	390 U	390 U	390 U	390 U	---	980 U	390 U	390 U	390 U	980 U	390 U	390 U	390 U	
West Former Mill	HF02	2-4 ft	SubSurf (>2ft)	11/13/1997	HF02-2SB	N	370 U	370 U	370 U	920 U	370 U	370 U	370 U	370 U	370 U	---	920 U	370 U	370 U	370 U	920 U	370 U	370 U	370 U	
West Former Mill	HF03	0-2 ft	Surf (0-2ft)	11/14/1997	HF03-OSS	N	370 U	370 U	370 U	930 U	370 U	370 U	370 U	370 U	370 U	---	930 U	370 U	370 U	370 U	930 U	370 U	370 U	370 U	
West Former Mill	HF03	2-4 ft	SubSurf (>2ft)	11/14/1997	HF03-2SB	N	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	410 U	410 U	---	1000 U	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	
West Former Mill	HF04	0-2 ft	Surf (0-2ft)	11/14/1997	HF04-OSS	N	400 U	400 U	400 U	1000 U	400 U	400 U	400 U	400 U	400 U	---	1000 U	400 U	400 U	400 U	1000 U	400 U	400 U	400 U	
West Former Mill	HF04	2-4 ft	SubSurf (>2ft)	11/14/1997	HF04-2SB	N	420 U	420 U	420 U	1100 U	420 U	420 U	420 U	420 U	420 U	---	1100 U	420 U	420 U	420 U	1100 U	420 U	420 U	420 U	
West Former Mill	HF05	0-2 ft	Surf (0-2ft)	11/14/1997	HF05-OSS	N	400 U	400 U	400 U	1000 U	400 U	400 U	400 U	400 U	400 U	---	1000 U	400 U	400 U	400 U	1000 U	400 U	400 U	400 U	
West Former Mill	HF05	2-4 ft	SubSurf (>2ft)	11/14/1997	HF05-2SB	N	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	410 U	410 U	---	1000 U	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	
West Former Mill	HF06	0-2 ft	Surf (0-2ft)	11/14/1997	HF06-OSS	N	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	410 U	410 U	---	1000 U	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	
West Former Mill	HF06	2-4 ft	SubSurf (>2ft)	11/14/1997	HF06-2SB	N	390 U	390 U	390 U	980 U	390 U	390 U	390 U	390 U	390 U	---	980 U	390 U	390 U	390 U	980 U	390 U	390 U	390 U	
West Former Mill	HF07	0-2 ft	Surf (0-2ft)	11/20/1997	HF07-OSS	N	370 U	370 U	370 U	940 U	370 U	370 U	370 U	370 U	370 U	---	940 U	370 U	370 U	370 U	940 U	370 U	370 U	370 U	
West Former Mill	HF07	2-4 ft	SubSurf (>2ft)	11/20/1997	HF07-2SB	N	360 U	360 U	360 U	910 U	360 U	360 U	360 U	360 U	360 U	---	910 U	360 U	360 U	360 U	910 U	360 U	360 U	360 U	
West Former Mill	HF08	0-2 ft	Surf (0-2ft)	11/20/1997	HF08-OSS	N	370 U	370 U	370 U	920 U	370 U	370 U	370 U	370 U	370 U	---	920 U	370 U	370 U	370 U	920 U	370 U	370 U	370 U	
West Former Mill	HF08	2-4 ft	SubSurf (>2ft)	11/20/1997	HF08-2SB	N	370 U	370 U	370 U	940 U	370 U	370 U	370 U	370 U	370 U	---	940 U	370 U	370 U	370 U	940 U	370 U	370 U	370 U	
West Former Mill	HF09	0-2 ft	Surf (0-2ft)	11/19/1997	HF09-OSS	N	380 U	380 U	380 U	950 U	380 U	380 U	380 U	380 U	380 U	---	950 U	380 U	380 U	380 U	950 U	380 U	380 U	380 U	
West Former Mill	HF09	2-4 ft	SubSurf (>2ft)	11/19/1997	HF09-2SB	N	370 U	370 U	370 U	920 U	370 U	370 U	370 U	370 U	370 U	---	920 U	370 U	370 U	370 U	920 U	370 U	370 U	370 U	
West Former Mill	MW-60	2-3.5 ft	SubSurf (>2ft)	10/19/2010	MW-60-2-3.5	N	---	---	---	---	---	---	---	---	59 U	---	---	6.9 U	---	---	---	300 UI	---	300 UI	
West Former Mill	MW-60	10-11.5 ft	SubSurf (>2ft)	10/19/2010	MW-60-10-11.5	N	---	---	---	---	---	---	---	---	570 UI	---	---	8.3 U	---	---	---	2800 UI	---	2800 UI	
West Former Mill	MW-60	15-16.5 ft	SubSurf (>2ft)	10/19/2010	MW-60-15-16.5	N	---	---	---	---	---	---	---	---	59 U	---	---	7.6 U	---	---	---	290 UI	---	290 UI	
West Former Mill	MW-60	20-20.75 ft	SubSurf (>2ft)	10/19/2010	MW-60-20-20.75	N	---	---	---	---	---	---	---	---	20 U	---	---	7.1 U	---	---	---	98 U	---	98 U	
West Former Mill	MW-60	23-24.4 ft	SubSurf (>2ft)	10/19/2010	MW-60-23-24.4	N	---	---	---	---	---	---	---	---	20 U	---	---	7.3 U	---	---	---	96 U	---	96 U	
West Former Mill	MW-68	5.5-6 ft	SubSurf (>2ft)	5/4/2011	MW68-5.5-6	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-68	13-14 ft	SubSurf (>2ft)	5/4/2011	MW68-13-14	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	MW-68	55-55 ft	SubSurf (>2ft)	5/18/2011	MW-68-55	N	---	---	---	---	---	---	---	---	20 U	---	---	7.4 U	---	---	---	98 U	---	98 U	
West Former Mill	PS20	0.25-6.5 ft	SubSurf (>2ft)	5/15/2003	K2303678-010	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	330 U	330 U	2000 U	330 U	330 U	2000 U	
West Former Mill	RB01	0-0.25 ft	Surf (0-2ft)	11/10/1997	RB01SS	N	700 U	700 U	700 U	1800 U	700 U	700 U	700 U	700 U	700 U	---	1800 U	700 U	700 U	700 U	1800 U	700 U	700 U	700 U	
West Former Mill	RB01	0.25-7 ft	SubSurf (>2ft)	5/13/2003	K2303593-015	N	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	330 U	330 U	48 J	330 U	2000 U	340 U	340 U	2000 U	
West Former Mill	RB02	0-0.25 ft	Surf (0-2ft)	11/10/1997	RB02SS	N	790 U	790 U	790 U	2000 U	790 U	790 U	790 U	790 U	790 U	---	2000 U	790 U	790 U	790 U	2000 U	790 U	790 U	790 U	
West Former Mill	RB03	0-2 ft	Surf (0-2ft)	11/21/1997	RB03-OSS	N	350 U	350 U	350 U	890 U	350 U	350 U	350 U	350 U	350 U	---	890 U	350 U	350 U	350 U	890 U	350 U	350 U	350 U	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

						Parameter	2-Chloronaphthalene	2-Chlorophenol	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene*	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol*	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene*	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine*	
						Units	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
						MTCA Ecological ISC	NL	NL	NL	NL	NL	20000	NL	NL	20000	NL	4000	10000	NL	NL	20000	NL	80000	NL	2200
						MTCA Method B Protective of HH (SFV)	6.4e+006	400000	4e+006	NL	NL	800000	7.2e+006	NL	42000	NL	8e+006	91000	240000	1.6e+006	160000	160000	80000	2200	
						MTCA Method B Protective of GW as MSW	54000	1100	NL	NL	NL	2600	15000	11000	80	NL	130000	28	1300	4500	14000	100	NL	100	
Funct. Area	Loc ID	Depth	Zone	Date	Sample ID	Type																			
West Former Mill	RB03	8-10 ft	SubSurf (>2ft)	11/21/1997	RB03-8SB	N	430 U	430 U	430 U	1100 U	430 U	430 U	430 U	430 U	430 U	---	1100 U	430 U	430 U	430 U	1100 U	430 U	430 U	430 U	
West Former Mill	RB04	0-2 ft	Surf (0-2ft)	11/21/1997	RB04-OSS	N	370 U	370 U	370 U	940 U	370 U	370 U	370 U	370 U	370 U	---	940 U	370 U	370 U	370 U	940 U	370 U	370 U	370 U	
West Former Mill	RB04	4-6 ft	SubSurf (>2ft)	11/21/1997	RB04-4SB	N	350 U	350 U	350 U	890 U	350 U	350 U	350 U	350 U	350 U	---	890 U	350 U	350 U	350 U	890 U	350 U	350 U	350 U	
West Former Mill	RB04	8-10 ft	SubSurf (>2ft)	11/21/1997	RB04-8SB	N	380 U	380 U	380 U	970 U	380 U	380 U	380 U	380 U	380 U	---	970 U	380 U	380 U	380 U	970 U	380 U	380 U	380 U	
West Former Mill	RB20	0.25-8 ft	SubSurf (>2ft)	5/13/2003	K2303593-017	N	340 U	340 U	340 U	2100 U	340 U	340 U	340 U	340 U	340 U	---	340 U	340 U	340 U	340 U	2100 U	340 U	340 U	2100 U	
West Former Mill	RB21	0.25-8 ft	SubSurf (>2ft)	5/13/2003	K2303593-019	N	330 U	330 U	330 U	2000 U	330 U	330 U	220 J	330 U	21 J	---	330 U	330 U	330 U	330 U	2000 U	340 U	340 U	2000 U	
West Former Mill	SSB-2	2-3.5 ft	SubSurf (>2ft)	10/21/2010	SSB-2-2-3.5	N	---	---	---	---	---	---	---	---	63 U	---	7.9 U	---	---	---	---	320 UI	---	320 UI	
West Former Mill	SSB-2	5-6.5 ft	SubSurf (>2ft)	10/21/2010	DUPE1-102110	FD	---	---	---	---	---	---	---	---	---	---	8 U	---	---	---	---	320 UI	---	320 UI	
West Former Mill	SSB-2	5-6.5 ft	SubSurf (>2ft)	10/21/2010	SSB-2-5-6.5	N	---	---	---	---	---	---	---	---	24 B	---	8.6 U	---	---	---	---	---	---	---	
West Former Mill	SSB-2	10-11.5 ft	SubSurf (>2ft)	10/21/2010	SSB-2-10-11.5	N	---	---	---	---	---	---	---	---	20 B	---	7 U	---	---	---	---	97 U	---	97 U	
West Former Mill	SSB-2	15-16.5 ft	SubSurf (>2ft)	10/21/2010	SSB-2-15-16.5	N	---	---	---	---	---	---	---	---	19 U	---	7.2 U	---	---	---	---	97 U	---	97 U	
West Former Mill	SSB-2	20-20.5 ft	SubSurf (>2ft)	10/21/2010	SSB-2-20-20.5	N	---	---	---	---	---	---	---	---	26 B	---	7.4 U	---	---	---	---	100 U	---	100 U	
West Former Mill	SSB-7	2-3.5 ft	SubSurf (>2ft)	10/26/2010	SSB-7-2-3.5	N	---	---	---	---	---	---	---	---	---	---	6.4 U	---	---	---	---	96 U	---	96 R	
West Former Mill	SSB-7	10-11.5 ft	SubSurf (>2ft)	10/26/2010	SSB-7-10-11.5	N	---	---	---	---	---	---	---	---	---	---	6.9 U	---	---	---	---	96 U	---	96 U	
West Former Mill	SSB-7	20-21.5 ft	SubSurf (>2ft)	10/26/2010	SSB-7-20-21.5	N	---	---	---	---	---	---	---	---	---	---	6.6 U	---	---	---	---	96 U	---	96 U	
West Former Mill	SSB-7	25-26.5 ft	SubSurf (>2ft)	10/26/2010	SSB-7-25-26.5	N	---	---	---	---	---	---	---	---	---	---	7 U	---	---	---	---	98 U	---	98 U	
West Former Mill	SSB-7	30-30.75 ft	SubSurf (>2ft)	10/26/2010	SSB-7-30-30.75	N	---	---	---	---	---	---	---	---	---	---	7 U	---	---	---	---	95 U	---	95 U	
West Former Mill	TP-01	2-2 ft	Surf (0-2ft)	1/4/2011	TP-01-2'	N	---	---	---	---	---	---	---	---	20 U	---	6.9 U	---	---	---	---	100 U	---	100 U	
West Former Mill	TP-01	8-8 ft	SubSurf (>2ft)	1/4/2011	TP-01-8'	N	---	---	---	---	---	---	---	---	20 U	---	8.2 U	---	---	---	---	98 U	---	98 UJ	
West Former Mill	TP-02	2-2 ft	Surf (0-2ft)	1/4/2011	TP-02-2'	N	---	---	---	---	---	---	---	---	20 U	---	8.2 U	---	---	---	---	98 UJ	---	98 U	
West Former Mill	TP-02	8-8 ft	SubSurf (>2ft)	1/4/2011	TP-02-8'	N	---	---	---	---	---	---	---	---	180 UIJ	---	6.9 U	---	---	---	---	910 UIJ	---	910 UIJ	
West Former Mill	TP-02	8-8 ft	SubSurf (>2ft)	1/4/2011	TP-DUPE-1	FD	---	---	---	---	---	---	---	---	550 UIJ	---	6.7 U	---	---	---	---	2800 UIJ	---	2800 UIJ	
West Former Mill	TP-03	2-2 ft	Surf (0-2ft)	1/4/2011	TP-03-2'	N	---	---	---	---	---	---	---	---	20 U	---	7.1 U	---	---	---	---	99 U	---	99 U	
West Former Mill	TP-03	4-4 ft	SubSurf (>2ft)	1/4/2011	TP-03-4'	N	---	---	---	---	---	---	---	---	20 U	---	7.4 U	---	---	---	---	100 U	---	100 U	
West Former Mill	TP-03	7-7 ft	SubSurf (>2ft)	1/4/2011	TP-03-7'	N	---	---	---	---	---	---	---	---	38 U	---	7.4 U	---	---	---	---	190 UI	---	190 UI	
West Former Mill	TP-04	2-2 ft	Surf (0-2ft)	1/5/2011	TP-04-2'	N	---	---	---	---	---	---	---	---	20 U	---	7.6 U	---	---	---	---	98 U	---	98 U	
West Former Mill	TP-04	7-7 ft	SubSurf (>2ft)	1/5/2011	TP-04-7'	N	---	---	---	---	---	---	---	---	20 U	---	12 U	---	---	---	---	99 U	---	99 U	
West Former Mill	TP-05	2-2 ft	Surf (0-2ft)	1/5/2011	TP-05-2'	N	---	---	---	---	---	---	---	---	20 U	---	6.4 U	---	---	---	---	99 U	---	99 U	
West Former Mill	TP-05	6-6 ft	SubSurf (>2ft)	1/5/2011	TP-05-6'	N	---	---	---	---	---	---	---	---	19 U	---	8.3 U	---	---	---	---	97 U	---	97 U	
West Former Mill	TP-06	3-3 ft	SubSurf (>2ft)	1/5/2011	TP-06-3'	N	---	---	---	---	---	---	---	---	20 U	---	20 U	---	---	---	---	98 U	---	98 U	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

Parameter							2-Chloronaphthalene	2-Chlorophenol	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene*	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol*	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene*	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine*	
Units							(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
MTCa Ecological ISC							NL	NL	NL	NL	NL	20000	NL	NL	20000	NL	4000	10000	NL	NL	20000	NL	NL	2200	
MTCa Method B Protective of HH (SFV)							6.4e+006	400000	4e+006	NL	NL	800000	7.2e+006	NL	42000	NL	8e+006	91000	240000	1.6e+006	160000	160000	80000	2200	
MTCa Method B Protective of GW as MSW							54000	1100	NL	NL	NL	2600	15000	11000	80	NL	130000	28	1300	4500	14000	100	NL	100	
Funct. Area	Loc ID	Depth	Zone	Date	Sample ID	Type																			
West Former Mill	TP-06	7-7 ft	SubSurf (>2ft)	1/5/2011	TP-06-7'	N	---	---	---	---	---	---	---	---	20 U	---	---	6.9 U	---	---	---	99 U	---	99 U	
West Former Mill	TP-07	2-2 ft	Surf (0-2ft)	1/5/2011	TP-07-2'	N	---	---	---	---	---	---	---	---	20 U	---	13	---	---	---	---	97 U	---	97 U	
West Former Mill	TP-07	2-2 ft	Surf (0-2ft)	1/5/2011	TP-DUPE-2	FD	---	---	---	---	---	---	---	---	19 U	---	17 U	---	---	---	---	97 U	---	97 U	
West Former Mill	TP-07	6-6 ft	SubSurf (>2ft)	1/5/2011	TP-07-6'	N	---	---	---	---	---	---	---	---	20 U	---	9.8 U	---	---	---	---	98 U	---	98 U	
West Former Mill	TP-08	2-2 ft	Surf (0-2ft)	1/5/2011	TP-08-2'	N	---	---	---	---	---	---	---	---	20 U	---	7.7 U	---	---	---	---	99 U	---	99 U	
West Former Mill	TP-08	5-5 ft	SubSurf (>2ft)	1/5/2011	TP-08-5'	N	---	---	---	---	---	---	---	---	20 U	---	7.3 U	---	---	---	---	98 U	---	98 U	
West Former Mill	TP-11	2-2 ft	Surf (0-2ft)	1/7/2011	TP-11-2'	N	---	---	---	---	---	---	---	---	20 U	---	8.1 U	---	---	---	---	98 U	---	98 U	
West Former Mill	TP-11	5-5 ft	SubSurf (>2ft)	1/7/2011	TP-11-5'	N	---	---	---	---	---	---	---	---	72 U	---	9.2 U	---	---	---	---	360 UI	---	360 UI	
West Former Mill	TP-11	5-5 ft	SubSurf (>2ft)	1/7/2011	TP-DUPE-3	FD	---	---	---	---	---	---	---	---	67 U	---	9.1 U	---	---	---	---	330 UI	---	330 UI	
West Former Mill	TP-12	2-2 ft	Surf (0-2ft)	1/4/2011	TP-12-2'	N	---	---	---	---	---	---	---	---	67 U	---	7.1 U	---	---	---	---	340 UI	---	340 UI	
West Former Mill	TP-12	4-4 ft	SubSurf (>2ft)	1/4/2011	TP-12-4'	N	---	---	---	---	---	---	---	---	62 U	---	7.5 U	---	---	---	---	310 UI	---	310 UI	
West Former Mill	TP-15	2-2 ft	Surf (0-2ft)	1/6/2011	TP-15-2'	N	---	---	---	---	---	---	---	---	85 UI	---	20 U	---	---	---	---	420 UI	---	420 UI	
West Former Mill	TP-15	4-4 ft	SubSurf (>2ft)	1/6/2011	TP-15-4'	N	---	---	---	---	---	---	---	---	20 U	---	7.8 U	---	---	---	---	99 U	---	99 U	
West Former Mill	TP-16	2-2 ft	Surf (0-2ft)	1/6/2011	TP-16-2'	N	---	---	---	---	---	---	---	---	20 U	---	6.8 U	---	---	---	---	99 U	---	99 U	
West Former Mill	TP-16	5-5 ft	SubSurf (>2ft)	1/6/2011	TP-16-5'	N	---	---	---	---	---	---	---	---	20 U	---	6.6 U	---	---	---	---	98 U	---	98 U	
West Former Mill	WM21	0-0.25 ft	Surf (0-2ft)	5/13/2003	K2303600-003	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	WM21	0.25-9.5 ft	SubSurf (>2ft)	5/13/2003	K2303600-004	N	320 U	320 U	320 U	1900 U	320 U	320 U	320 U	320 U	320 U	---	320 U	320 U	320 U	320 U	1900 U	320 U	320 U	1900 U	
West Former Mill	WM-EX-1	8-8 ft	SubSurf (>2ft)	8/3/2006	WM-EX-1-[080306]-8.0	N	---	---	---	---	---	---	---	---	---	7.3 U	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-10	16-16 ft	SubSurf (>2ft)	8/8/2006	WM-DUP-1-080806	FD	---	---	---	---	---	---	---	---	---	11	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-10	16-16 ft	SubSurf (>2ft)	8/8/2006	WM-EX-10-[080806]-16.0	N	---	---	---	---	---	---	---	---	---	81	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-11	17-17 ft	SubSurf (>2ft)	8/8/2006	WM-EX-11-[080806]-17.0	N	---	---	---	---	---	---	---	---	---	8.9 U	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-12	8-8 ft	SubSurf (>2ft)	8/8/2006	WM-EX-12-[080806]-8.0	N	---	---	---	---	---	---	---	---	---	7.3 U	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-13	9-9 ft	SubSurf (>2ft)	8/8/2006	WM-EX-13-[080806]-9.0	N	---	---	---	---	---	---	---	---	---	7.9 U	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-14	14-14 ft	SubSurf (>2ft)	8/8/2006	WM-EX-14-[080806]-14.0	N	---	---	---	---	---	---	---	---	---	7.5 U	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-15	14-14 ft	SubSurf (>2ft)	8/8/2006	WM-EX-15-[080806]-14.0	N	---	---	---	---	---	---	---	---	---	7.6 U	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-16	14-14 ft	SubSurf (>2ft)	8/8/2006	WM-EX-16-[080806]-14.0	N	---	---	---	---	---	---	---	---	---	1700	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-17	14-14 ft	SubSurf (>2ft)	8/8/2006	WM-EX-17-[080806]-14.0	N	---	---	---	---	---	---	---	---	---	7.4 U	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-18	9-9 ft	SubSurf (>2ft)	8/9/2006	WM-EX-18-[080906]-9.0	N	---	---	---	---	---	---	---	---	---	53	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-2	11-11 ft	SubSurf (>2ft)	8/3/2006	WM-EX-2-[080306]-11.0	N	---	---	---	---	---	---	---	---	---	7.5 U	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-3	10-10 ft	SubSurf (>2ft)	8/3/2006	WM-EX-3-[080306]-10.0	N	---	---	---	---	---	---	---	---	---	7.5 U	---	---	---	---	---	---	---	---	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

							Parameter	2-Chloronaphthalene	2-Chlorophenol	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene*	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol*	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene*	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine*	
							Units	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
							MTCA Ecological ISC	NL	NL	NL	NL	NL	20000	NL	NL	20000	NL	4000	10000	NL	NL	20000	NL	NL	80000	NL
							MTCA Method B Protective of HH (SFV)	6.4e+006	400000	4e+006	NL	NL	800000	7.2e+006	NL	42000	NL	8e+006	91000	240000	1.6e+006	160000	160000	80000	2200	
							MTCA Method B Protective of GW as MSW	54000	1100	NL	NL	2600	15000	11000	80	NL	130000	28	1300	4500	14000	100	NL	100		
Funct. Area	Loc ID	Depth	Zone	Date	Sample ID	Type																				
West Former Mill	WM-EX-4	13-13 ft	SubSurf (>2ft)	8/4/2006	WM-EX-4-[080406]-13.0	N	---	---	---	---	---	---	---	---	---	---	7.7 U	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-5	16-16 ft	SubSurf (>2ft)	8/4/2006	WM-EX-5-[080406]-16.0	N	---	---	---	---	---	---	---	---	---	---	7.7 U	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-6	9-9 ft	SubSurf (>2ft)	8/7/2006	WM-EX-6-[080706]-9.0	N	---	---	---	---	---	---	---	---	---	---	7.3 U	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-7	8.5-8.5 ft	SubSurf (>2ft)	8/7/2006	WM-EX-7-[080706]-8.5	N	---	---	---	---	---	---	---	---	---	---	7.3 U	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-8	15-15 ft	SubSurf (>2ft)	8/7/2006	WM-EX-8-[080706]-15.0	N	---	---	---	---	---	---	---	---	---	---	7.3 U	---	---	---	---	---	---	---	---	
West Former Mill	WM-EX-9	10-10 ft	SubSurf (>2ft)	8/7/2006	WM-EX-9-[080706]-10.0	N	---	---	---	---	---	---	---	---	---	---	7.8 U	---	---	---	---	---	---	---	---	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzyl alcohol	bis(2-Chloro-1-methylethyl)ether*	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether*	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate*	Butylbenzylphthalate	Carbazole	Chrysene	Diethylphthalate
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				NL	NL	NL	NL	320000	NL	400000	NL	NL	20000	NL	NL	NL	NL	14000	NL	910	3.2e+006	71000	1.6e+007	50000	NL	100000
				NL	NL	NL	NL	NL	NL	NL	NL	NL	65000	NL	2.4e+007	NL	2.4e+007	209.54	NL	20	240000	4900	360000	NL	NL	160000
Funct. Area	Loc ID	Depth	Zone																							
City Purchase	BY01	0-2 ft	Surf (0-2ft)	930 U	930 U	370 U	370 U	370 U	370 U	370 U	930 U	930 U	370 U	370 U	370 U	49 J	---	370 U	370 U	370 U	---	370 U	370 U	370 U	370 U	460 U
City Purchase	BY01	2-4 ft	SubSurf (>2ft)	1000 U	1000 U	410 U	410 U	410 U	410 U	410 U	1000 U	1000 U	410 U	410 U	410 U	---	---	410 U	410 U	410 U	---	410 U	410 U	410 U	410 U	500 U
City Purchase	BY02	0-2 ft	Surf (0-2ft)	970 U	970 U	380 U	380 U	380 U	380 U	380 U	970 U	970 U	380 U	380 U	380 U	---	---	380 U	380 U	380 U	---	380 U	380 U	380 U	380 U	470 U
City Purchase	BY02	2-4 ft	SubSurf (>2ft)	1100 U	1100 U	420 U	420 U	420 U	420 U	420 U	1100 U	1100 U	420 U	420 U	420 U	---	---	420 U	420 U	420 U	---	420 U	420 U	420 U	420 U	470 U
City Purchase	BY03	0-2 ft	Surf (0-2ft)	930 U	930 U	370 U	370 U	370 U	370 U	370 U	930 U	930 U	370 U	370 U	370 U	---	---	370 U	370 U	370 U	---	370 U	370 U	370 U	370 U	370 U
City Purchase	BY03	2-4 ft	SubSurf (>2ft)	1100 U	1100 U	450 U	450 U	450 U	450 U	1200	1100 U	1100 U	450 U	450 U	48 J	100 J	---	450 U	450 U	450 U	---	450 U	450 U	450 U	120 J	470 U
City Purchase	BY04	0-2 ft	Surf (0-2ft)	990 U	990 U	390 U	390 U	390 U	390 U	390 U	990 U	990 U	390 U	390 U	390 U	---	---	390 U	390 U	390 U	---	390 U	390 U	390 U	390 U	390 U
City Purchase	BY04	2-4 ft	SubSurf (>2ft)	1100 U	1100 U	430 U	430 U	430 U	430 U	430 U	1100 U	1100 U	430 U	430 U	430 U	---	---	430 U	430 U	430 U	---	430 U	430 U	430 U	430 U	480 U
City Purchase	BY05	0-2 ft	Surf (0-2ft)	1000 U	1000 U	400 U	400 U	400 U	400 U	900	1000 U	1000 U	400 U	400 U	47 J	81 J	---	400 U	400 U	400 U	---	400 U	400 U	400 U	99 J	400 U
City Purchase	BY05	2-4 ft	SubSurf (>2ft)	990 U	990 U	390 U	390 U	390 U	390 U	390 U	990 U	990 U	390 U	390 U	390 U	---	---	390 U	390 U	390 U	---	390 U	390 U	390 U	390 U	390 U
City Purchase	BY05	4-6 ft	SubSurf (>2ft)	1200 U	1200 U	460 U	460 U	460 U	460 U	460 U	1200 U	1200 U	460 U	460 U	460 U	---	---	460 U	460 U	460 U	---	460 U	460 U	460 U	460 U	460 U
City Purchase	BY05	6-8 ft	SubSurf (>2ft)	1200 U	1200 U	460 U	460 U	460 U	460 U	460 U	1200 U	1200 U	460 U	460 U	460 U	---	---	460 U	460 U	460 U	---	460 U	460 U	460 U	460 U	460 U
City Purchase	BY05	8-10 ft	SubSurf (>2ft)	1100 U	1100 U	440 U	440 U	440 U	440 U	440 U	1100 U	1100 U	440 U	440 U	440 U	---	---	440 U	440 U	440 U	---	440 U	440 U	440 U	440 U	440 U
City Purchase	GWG-8	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	17000 J	---	---	24	---
City Purchase	GWG-8	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	44 J	---	---	13	---
City Purchase	GWG-8	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	84	---	---	4.6 U	---
City Purchase	GWG-8	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	310	---	---	4.9 U	---
City Purchase	PF01	0-2 ft	Surf (0-2ft)	1100 U	1100 U	440 U	440 U	440 U	440 U	440 U	1100 U	1100 U	440 U	440 U	440 U	---	---	440 U	440 U	440 U	---	440 U	440 U	440 U	440 U	440 U
City Purchase	PF01	2-4 ft	SubSurf (>2ft)	1100 U	1100 U	440 U	440 U	440 U	440 U	440 U	1100 U	1100 U	440 U	440 U	440 U	---	---	440 U	440 U	440 U	---	440 U	440 U	440 U	440 U	440 U
City Purchase	SSB-10	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	120	---	---	6.4	---
City Purchase	SSB-10	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	130	---	---	5.2	---
City Purchase	SSB-10	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	---	---	---	4.7 U	---
City Purchase	SSB-10	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	100	---	---	4.9 U	---
City Purchase	SSB-10	20-21.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	75	---	---	4.7 U	---
CSO	FOT-EX-12	6-6 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	7.2 U	7.2 U	7.2 U	7.2 U	---	---	---	---	---	---	---	---	7.2 U	---
CSO	FOT-EX-13	13-13 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	8.5 U	8.5 U	8.5 U	8.5 U	---	---	---	---	---	---	---	---	9.4	---
CSO	FOT-EX-28	8-8 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	7.8 U	7.8 U	7.8 U	7.8 U	---	---	---	---	---	---	---	---	7.8 U	---
CSO	FOT-EX-6	3-3 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	8 U	8 U	8 U	8.3	---	---	---	---	---	---	---	---	8 U	---
CSO	FOT-EX-7	3-3 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	7.2 U	7.2 U	7.2 U	7.2 U	---	---	---	---	---	---	---	---	7.2 U	---
CSO	FOT-EX-8	8-8 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	7.8 U	7.8 U	7.8 U	7.8 U	---	---	---	---	---	---	---	---	10	---

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzyl alcohol	bis(2-Chloro-1-methylethyl)ether*	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether*	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate*	Butylbenzylphthalate	Carbazole	Chrysene	Diethylphthalate
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				NL	NL	NL	NL	320000	NL	400000	NL	NL	4.8e+006	NL	2.4e+007	NL	2.4e+007	14000	NL	910	3.2e+006	71000	1.6e+007	50000	NL	100000
				NL	NL	NL	NL	NL	NL	NL	NL	NL	65000	NL	1.2e+007	NL	NL	209.54	NL	20	240000	4900	360000	NL	NL	160000
Funct. Area	Loc ID	Depth	Zone																							
CSO	FOT-EX-9	6-6 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	7.5 U	7.5 U	7.5 U	7.5 U	---	---	---	---	---	---	---	---	7.5 U	---
CSO	GB02	0-2 ft	Surf (0-2ft)	1000 U	1000 U	400 U	400 U	400 U	400 U	400 U	1000 U	1000 U	400 U	400 U	400 U	400 U	---	400 U	400 U	400 U	---	400 U	400 U	400 U	400 U	400 U
CSO	GB02	2-4 ft	SubSurf (>2ft)	940 U	940 U	370 U	370 U	370 U	370 U	370 U	940 U	940 U	370 U	370 U	63 J	370 U	---	370 U	370 U	370 U	---	370 U	370 U	370 U	170 J	370 U
CSO	GB03	0-2 ft	Surf (0-2ft)	950 U	950 U	380 U	380 U	380 U	380 U	380 U	950 U	950 U	380 U	380 U	380 U	46 J	---	380 U	380 U	380 U	---	380 U	380 U	380 U	380 U	380 U
CSO	GB03	2-4 ft	SubSurf (>2ft)	990 U	990 U	390 U	390 U	390 U	390 U	390 U	990 U	990 U	390 U	390 U	35 J	390 U	---	390 U	390 U	390 U	---	390 U	390 U	390 U	55 J	390 U
CSO	GWG-6	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	28 U	---	---	51	---
CSO	GWG-6	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	19 U	---	---	4.7 U	---
CSO	GWG-6	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	36 U	---	---	4.8 U	---
CSO	MW-70	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	26 U	---	---	4.8 U	---
CSO	MW-70	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	110 U	---	---	4.8 U	---
CSO	MW-70	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	---	4.8 U	---
CSO	MW-70	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	---	4.7	---
CSO	MW-70	20-21.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	25 U	---	---	4.9 U	---
East Former Mill	CD02	0-2 ft	Surf (0-2ft)	1100 U	1100 U	430 U	430 U	430 U	430 U	430 U	1100 U	1100 U	430 U	430 U	430 U	44 J	---	430 U	430 U	430 U	---	430 U	430 U	430 U	68 J	430 U
East Former Mill	CD02	2-4 ft	SubSurf (>2ft)	1100 U	1100 U	450 U	450 U	450 U	450 U	450 U	1100 U	1100 U	450 U	450 U	450 U	450 U	---	450 U	450 U	450 U	---	450 U	450 U	450 U	450 U	450 U
East Former Mill	CD02	4-6 ft	SubSurf (>2ft)	1100 U	1100 U	440 U	440 U	440 U	440 U	440 U	1100 U	1100 U	440 U	440 U	440 U	440 U	---	440 U	440 U	440 U	---	440 U	440 U	440 U	440 U	440 U
East Former Mill	CD02	6-8 ft	SubSurf (>2ft)	1000 U	1000 U	410 U	410 U	410 U	410 U	410 U	1000 U	1000 U	410 U	410 U	410 U	410 U	---	410 U	410 U	410 U	---	410 U	410 U	410 U	410 U	410 U
East Former Mill	CD03	0-2 ft	Surf (0-2ft)	900 U	900 U	360 U	360 U	360 U	360 U	360 U	900 U	900 U	360 U	360 U	360 U	360 U	---	360 U	360 U	360 U	---	360 U	360 U	360 U	360 U	360 U
East Former Mill	CD03	2-4 ft	SubSurf (>2ft)	900 U	900 U	360 U	360 U	360 U	360 U	360 U	900 U	900 U	360 U	360 U	360 U	360 U	---	360 U	360 U	360 U	---	360 U	360 U	360 U	56 J	360 U
East Former Mill	GWG-7	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	590 B	---	---	7.7	---
East Former Mill	GWG-7	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	33 U	---	---	4.5 U	---
East Former Mill	GWG-7	7-8.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	22 U	---	---	4.8 U	---
East Former Mill	SL22	0-0.25 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	330 U	330 U	330 U	330 U	---	---	---	---	---	---	---	---	330 U	---
East Former Mill	SL22	0.25-7.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	330 U	330 U	330 U	330 U	---	---	---	---	---	---	---	---	330 U	---
East Shoreline	SL20	0.25-7 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	330 U	330 U	330 U	330 U	---	---	---	---	---	---	---	---	330 U	---
East Shoreline	SL21	0.25-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	330 U	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	SL21	0.25-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	330 U	330 U	---	45 J	---	---	---	---	---	---	---	---	150 J	---
Ennis Creek	DD02	0-0.25 ft	Surf (0-2ft)	---	---	---	---	---	---	730 U	---	---	730 U	---	730 U	730 U	---	---	---	---	---	730 U	---	730 U	100 J	---

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzyl alcohol	bis(2-Chloro-1-methylethyl)ether*	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether*	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate*	Butylbenzylphthalate	Carbazole	Chrysene	Diethylphthalate	
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				NL	NL	NL	NL	320000	NL	400000	NL	NL	4.8e+006	NL	2.4e+007	NL	2.4e+007	14000	NL	910	3.2e+006	71000	1.6e+007	50000	NL	100000	
				NL	NL	NL	NL	NL	NL	NL	NL	NL	65000	NL	1.2e+007	NL	NL	209.54	NL	20	240000	4900	360000	NL	NL	160000	
Funct. Area	Loc ID	Depth	Zone																								
Estuary	CD01	0-2 ft	Surf (0-2ft)	890 U	890 U	350 U	350 U	350 U	350 U	350 U	890 U	890 U	66 J	350 U	100 J	350 U	---	<i>350 U</i>	350 U	<i>350 U</i>	---	350 U	350 U	350 U	160 J	350 U	
Estuary	CD01	2-4 ft	SubSurf (>2ft)	910 U	910 U	360 U	360 U	360 U	360 U	360 U	910 U	910 U	360 U	360 U	360 U	360 U	---	<i>360 U</i>	360 U	<i>360 U</i>	---	360 U	360 U	360 U	33 J	360 U	
Estuary	FR05	0-0.25 ft	Surf (0-2ft)	1600 U	1600 U	620 U	620 U	620 U	620 U	620 U	1600 U	1600 U	620 U	620 U	33 J	620 U	---	<i>620 U</i>	620 U	<i>620 U</i>	---	70 J	620 U	620 U	160 J	620 U	
Estuary	MW-62	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	19 U	---	---	10	---	
Estuary	MW-62	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	90 B	---	---	4.7 U	---	
Estuary	MW-62	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	50 B	---	---	4.8 U	---	
Estuary	MW-62	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	140 B	---	---	5 U	---	
Estuary	MW-62	20-21.25 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	97 B	---	---	4.9 U	---	
Estuary	MW-62	25-26.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	230 B	---	---	4.8 U	---	
Estuary	RS20	0-0.25 ft	Surf (0-2ft)	2000 U	2000 U	330 U	330 U	330 U	330 U	330 U	2000 U	2000 U	330 U	330 U	24 J	83 J	330 U	---	---	<i>330 U</i>	330 U	100 J	330 U	330 U	210 J	330 U	
Estuary	RS20	0-0.25 ft	Surf (0-2ft)	2100 U	2100 U	340 U	340 U	340 U	340 U	340 U	2100 U	2100 U	340 U	340 U	43 J	58 J	340 U	---	---	<i>340 U</i>	340 U	260 J	340 U	25 J	320 J	340 U	
Estuary	RS20	0.25-2 ft	Surf (0-2ft)	2000 U	2000 U	330 U	330 U	330 U	330 U	330 U	2000 U	2000 U	330 U	330 U	330 U	330 U	---	---	<i>330 U</i>	330 U	330 U	330 U	330 U	330 U	330 U	330 U	
Estuary	RS21	0-0.25 ft	Surf (0-2ft)	2000 U	2000 U	330 U	330 U	340 U	330 U	330 U	2000 U	2000 U	22 J	330 U	47 J	110 J	330 U	---	---	<i>330 U</i>	330 U	43 J	330 U	39 J	300 J	330 U	
Estuary	RS21	0-0.25 ft	Surf (0-2ft)	2000 U	2000 U	330 U	330 U	340 U	330 U	330 U	2000 U	2000 U	18 J	330 U	34 J	85 J	330 U	---	---	<i>330 U</i>	330 U	1500	330 U	25 J	270 J	330 U	
Estuary	RS21	0.25-9.5 ft	SubSurf (>2ft)	2100 U	2100 U	340 U	340 U	340 U	340 U	340 U	2100 U	2100 U	340 U	340 U	340 U	340 U	340 U	---	---	<i>340 U</i>	340 U	51 J	340 U	340 U	340 U	340 U	
Main Former Mill	AP01	0-0.25 ft	Surf (0-2ft)	1200 U	1200 U	490 U	490 U	490 U	490 U	490 U	1200 U	1200 U	120 J	490 U	200 J	490 U	---	<i>490 U</i>	490 U	<i>490 U</i>	---	1400	490 U	120 J	690	490 U	
Main Former Mill	AP02	0-0.25 ft	Surf (0-2ft)	1200 U	1200 U	460 U	460 U	460 U	460 U	460 U	1200 U	1200 U	810	150 J	1300	460 U	---	<i>460 U</i>	460 U	<i>460 U</i>	---	1000	460 U	1000	3700	460 U	
Main Former Mill	AP03	0-0.25 ft	Surf (0-2ft)	1200 U	1200 U	480 U	480 U	480 U	480 U	480 U	1200 U	1200 U	75 J	98 J	280 J	59 J	---	<i>480 U</i>	480 U	<i>480 U</i>	---	2500	100 J	180 J	1200	480 U	
Main Former Mill	AP04	0-0.25 ft	Surf (0-2ft)	1600 U	1600 U	650 U	650 U	650 U	650 U	650 U	1600 U	1600 U	210 J	67 J	500 J	650 U	---	<i>650 U</i>	650 U	<i>650 U</i>	---	660	650 U	320 J	1900	650 U	
Main Former Mill	BL01	0-0.25 ft	Surf (0-2ft)	910 U	910 U	360 U	360 U	360 U	360 U	360 U	910 U	910 U	360 U	360 U	52 J	360 U	---	<i>360 U</i>	360 U	<i>360 U</i>	---	120 J	360 U	360 U	240 J	800	
Main Former Mill	BL02	0-0.25 ft	Surf (0-2ft)	1400 U	1400 U	570 U	570 U	570 U	570 U	88 J	1400 U	1400 U	70 J	570 U	78 J	570 U	---	<i>570 U</i>	570 U	<i>570 U</i>	---	95 J	570 U	570 U	260 J	2700	
Main Former Mill	BL03	0-0.25 ft	Surf (0-2ft)	970 U	970 U	380 U	380 U	380 U	380 U	380 U	970 U	970 U	380 U	380 U	380 U	380 U	---	<i>380 U</i>	380 U	<i>380 U</i>	---	77 J	380 U	380 U	380 U	1200	
Main Former Mill	BL20	0.25-3.5 ft	Surf (0-2ft)	2000 U	2000 U	330 U	330 U	330 U	330 U	330 U	2000 U	2000 U	330 U	330 U	330 U	330 U	62 J	330 U	---	<i>330 U</i>	330 U	210 J	330 U	330 U	34 J	330 U	
Main Former Mill	BP01	0-0.25 ft	Surf (0-2ft)	1100 U	1100 U	430 U	430 U	430 U	430 U	430 U	1100 U	1100 U	430 U	430 U	430 U	430 U	---	<i>430 U</i>	430 U	<i>430 U</i>	---	430 U	430 U	430 U	64 J	430 U	
Main Former Mill	BP02	0-0.25 ft	Surf (0-2ft)	7500 U	7500 U	3000 U	3000 U	3000 U	3000 U	3000 U	7500 U	7500 U	3000 U	3000 U	330 J	3000 U	---	<i>3000 U</i>	3000 U	<i>3000 U</i>	---	3000 U	3000 U	3000 U	1000 J	3000 U	
Main Former Mill	BP03	0-0.25 ft	Surf (0-2ft)	5500 U	5500 U	2200 U	2200 U	2200 U	2200 U	470 J	5500 U	5500 U	2200 U	2200 U	2200 U	2200 U	---	<i>2200 U</i>	2200 U	<i>2200 U</i>	---	320 J	2200 U	2200 U	2200 U	2200 U	
Main Former Mill	BP04	0-0.25 ft	Surf (0-2ft)	1400 U	1400 U	550 U	550 U	550 U	550 U	550 U	1400 U	1400 U	550 U	550 U	550 U	550 U	---	<i>550 U</i>	550 U	<i>550 U</i>	---	170 J	550 U	550 U	550 U	550 U	
Main Former Mill	DB02	0-0.25 ft	Surf (0-2ft)	1400 U	1400 U	550 U	550 U	550 U	550 U	550 U	1400 U	1400 U	550 U	550 U	110 J	74 J	---	<i>550 U</i>	550 U	<i>550 U</i>	---	930	550 U	68 J	580	550 U	
Main Former Mill	DB21	0.25-11 ft	SubSurf (>2ft)	2000 U	2000 U	330 U	330 U	340 U	330 U	330 U	2000 U	2000 U	160 J	330 U	57 J	55 J	330 U	---	---	<i>330 U</i>	330 U	49 J	330 U	29 J	120 J	330 U	
Main Former Mill	FR02	0-0.25 ft	Surf (0-2ft)	1900 U	1900 U	770 U	770 U	770 U	770 U	680 J	1900 U	1900 U	770 U	770 U	290 J	---	---	<i>770 U</i>	770 U	<i>770 U</i>	---	4600 J	770 U	770 U	360 J	770 U	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzyl alcohol	bis(2-Chloro-1-methylethyl)ether*	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether*	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate*	Butylbenzylphthalate	Carbazole	Chrysene	Diethylphthalate
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				NL	NL	NL	NL	320000	NL	400000	NL	NL	4.8e+006	NL	2.4e+007	NL	2.4e+007	14000	NL	910	3.2e+006	71000	1.6e+007	50000	NL	100000
				NL	NL	NL	NL	NL	NL	NL	NL	NL	65000	NL	1.2e+007	NL	NL	209.54	NL	20	240000	4900	360000	NL	NL	160000
Funct. Area	Loc ID	Depth	Zone																							
Main Former Mill	FR02	0.25-5.5 ft	SubSurf (>2ft)	2000 U	2000 U	330 U	330 U	340 U	330 U	330 U	2000 U	2000 U	330 U	330 U	330 U	31 J	330 U	---	---	330 U	330 U	64 J	41 J	330 U	52 J	330 U
Main Former Mill	FR04	0-0.25 ft	Surf (0-2ft)	1200 U	1200 U	490 U	490 U	490 U	490 U	160 J	1200 U	1200 U	150 J	88 J	330 J	---	---	490 U	490 U	---	---	490 U	---	140 J	---	490 U
Main Former Mill	FR20	0.25-4.5 ft	SubSurf (>2ft)	2000 U	2000 U	330 U	330 U	340 U	330 U	330 U	2000 U	2000 U	330 U	330 U	330 U	330 U	70 J	---	---	330 U	330 U	46 J	330 U	330 U	47 J	330 U
Main Former Mill	GWG-1	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.8 U
Main Former Mill	GWG-1	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	36
Main Former Mill	GWG-1	7.5-9 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	14
Main Former Mill	GWG-1	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.9 U
Main Former Mill	GWG-1	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.8 U
Main Former Mill	GWG-1	20-21.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.8 U
Main Former Mill	GWG-5	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	160 B	---	---	---	270
Main Former Mill	GWG-5	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	59 U	---	59 U	---	540 B	---	---	---	290
Main Former Mill	GWG-5A	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	45 U	---	---	---	17
Main Former Mill	GWG-5A	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	43 U	---	---	---	4.6 U
Main Former Mill	GWG-5A	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	---	---	---	---	4.6 U
Main Former Mill	GWG-5A	20-21.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	33000 B	---	---	---	4.5 U
Main Former Mill	GWG-5A	24-25.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	---	---	---	---	4.7 U
Main Former Mill	LB01	0-2 ft	Surf (0-2ft)	950 U	950 U	380 U	380 U	380 U	380 U	380 U	950 U	950 U	380 U	380 U	380 U	380 U	---	380 U	380 U	380 U	---	380 U	380 U	380 U	380 U	380 U
Main Former Mill	LB02	0-2 ft	Surf (0-2ft)	1100 U	1100 U	430 U	430 U	430 U	430 U	430 U	1100 U	1100 U	430 U	430 U	430 U	430 U	---	430 U	430 U	430 U	---	53 J	430 U	430 U	430 U	430 U
Main Former Mill	MR01	0-0.25 ft	Surf (0-2ft)	1300 U	1300 U	510 U	510 U	510 U	510 U	510 U	1300 U	1300 U	1300	190 J	1600 J	510 U	---	510 U	510 U	510 U	---	8300 J	510 U	950 J	2300	510 U
Main Former Mill	MR02	0-0.25 ft	Surf (0-2ft)	900 U	900 U	360 U	360 U	360 U	360 U	360 U	900 U	900 U	360 U	360 U	97 J	360 U	---	360 U	360 U	360 U	---	360 U	360 U	360 U	360 U	360 U
Main Former Mill	MR03	0-0.25 ft	Surf (0-2ft)	2000 U	2000 U	800 U	800 U	800 U	800 U	800 U	2000 U	2000 U	120 J	190 J	400 J	---	---	800 U	800 U	800 U	---	2600 J	800 U	180 J	1100 J	800 U
Main Former Mill	MR04	0-0.25 ft	Surf (0-2ft)	---	890 U	---	350 U	350 U	350 U	350 U	890 U	890 U	350 U	350 U	---	---	---	350 U	350 U	350 U	---	---	---	---	---	350 U
Main Former Mill	MR05	0-0.25 ft	Surf (0-2ft)	890 U	890 U	350 U	350 U	350 U	350 U	350 U	890 U	890 U	350 U	350 U	350 U	350 U	---	350 U	350 U	350 U	---	350 U	350 U	350 U	170 J	350 U
Main Former Mill	MR06	0-0.25 ft	Surf (0-2ft)	1000 U	1000 U	410 U	410 U	410 U	410 U	410 U	1000 U	1000 U	190 J	410 U	230 J	---	---	410 U	410 U	410 U	---	410 U	410 U	64 J	530	410 U
Main Former Mill	MR07	0-0.25 ft	Surf (0-2ft)	1400 U	1400 U	570 U	570 U	570 U	570 U	570 U	1400 U	1400 U	110 J	64 J	1200	570 U	---	570 U	570 U	570 U	---	750	570 U	500 J	820	570 U
Main Former Mill	MR08	0-0.25 ft	Surf (0-2ft)	980 U	980 U	390 U	390 U	390 U	390 U	390 U	980 U	110 J	390 U	110 J	83 J	---	---	390 U	390 U	390 U	---	690	390 U	390 U	510	600
Main Former Mill	MR09	0-0.25 ft	Surf (0-2ft)	880 U	880 U	350 U	350 U	350 U	350 U	350 U	880 U	350 U	350 U	48 J	130 J	---	---	350 U	350 U	350 U	---	740	350 U	350 U	280 J	570
Main Former Mill	MR10	0-0.25 ft	Surf (0-2ft)	890 U	890 U	350 U	350 U	350 U	350 U	350 U	890 U	890 U	350 U	350 U	350 U	350 U	---	350 U	350 U	350 U	---	170 J	350 U	350 U	100 J	350 U
Main Former Mill	MR11	0-0.25 ft	Surf (0-2ft)	1200 U	1200 U	460 U	460 U	460 U	460 U	460 U	1200 U	1200 U	63 J	460 U	100 J	---	---	460 U	---	---	---	---	---	460 U	---	460 U
Main Former Mill	MR12	0-0.25 ft	Surf (0-2ft)	920 U	920 U	370 U	370 U	370 U	370 U	370 U	920 U	920 U	370 U	370 U	370 U	---	---	370 U	370 U	370 U	---	---	---	370 U	---	370 U

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzyl alcohol	bis(2-Chloro-1-methylethyl)ether*	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether*	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate*	Butylbenzylphthalate	Carbazole	Chrysene	Diethylphthalate	
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	
				NL	NL	NL	NL	320000	NL	400000	NL	NL	4.8e+006	NL	2.4e+007	NL	2.4e+007	14000	NL	910	3.2e+006	71000	1.6e+007	50000	NL	100000	
				NL	NL	NL	NL	NL	NL	NL	NL	NL	65000	NL	1.2e+007	NL	NL	209.54	NL	20	240000	4900	360000	NL	NL	160000	
Funct. Area	Loc ID	Depth	Zone																								
Main Former Mill	MR20	0-0.25 ft	Surf (0-2ft)	2100 U	2100 U	340 U	340 U	340 U	340 U	340 U	2100 U	2100 U	340 U	340 U	340 U	43 J	340 U	---	---	340 U	340 U	190 J	340 U	340 U	46 J	340 U	
Main Former Mill	MS20	0.25-5 ft	SubSurf (>2ft)	2000 U	2000 U	330 U	330 U	340 U	330 U	330 U	2000 U	2000 U	330 U	330 U	330 U	1700 U	330 U	---	---	330 U	330 U	1.8e+006 J	260 J	330 U	94 J	61 J	
Main Former Mill	MW-65	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	21	---
Main Former Mill	MW-65	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.8 UJ	---
Main Former Mill	MW-66	2.5-4 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	270	---
Main Former Mill	MW-66	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	26	---
Main Former Mill	MW-69	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.6 U	---
Main Former Mill	MW-69	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5.2	---
Main Former Mill	MW-69	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	44	---
Main Former Mill	MW-69	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	11	---
Main Former Mill	MW-69	20-21.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.8 U	---
Main Former Mill	MW-69	25-26.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.7 U	---
Main Former Mill	MW-69	29-30 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6.2	---
Main Former Mill	PC01	0-0.25 ft	Surf (0-2ft)	1400 U	1400 U	570 U	570 U	570 U	570 U	570 U	1400 U	1400 U	570 U	570 U	570 U	570 U	---	570 U	570 U	570 U	---	640	570 U	570 U	570 U	570 U	
Main Former Mill	PW20	0.25-8.5 ft	SubSurf (>2ft)	2000 U	2000 U	330 U	330 U	330 U	330 U	330 U	2000 U	2000 U	330 U	330 U	330 U	36 J	330 U	---	---	330 U	330 U	81 J	330 U	330 U	330 U	330 U	
Main Former Mill	SR01	0-0.25 ft	Surf (0-2ft)	1200 U	1200 U	470 U	470 U	470 U	470 U	470 U	1200 U	1200 U	470 U	470 U	28 J	56 J	---	470 U	470 U	470 U	---	130 J	470 U	470 U	110 J	470 U	
Main Former Mill	SR02	0-0.25 ft	Surf (0-2ft)	1300 U	1300 U	520 U	520 U	520 U	520 U	520 U	80 J	1300 U	1300 U	520 U	520 U	65 J	62 J	---	520 U	520 U	520 U	---	520 U	520 U	520 U	200 J	520 U
Main Former Mill	SR03	0-0.25 ft	Surf (0-2ft)	1500 U	1500 U	590 U	590 U	590 U	590 U	590 U	70 J	1500 U	1500 U	300 J	110 J	480 J	590 U	---	590 U	590 U	---	710	590 U	430 J	1600	590 U	
Main Former Mill	SR03	0.25-11 ft	SubSurf (>2ft)	2000 U	2000 U	330 U	330 U	340 U	330 U	31 J	2000 U	2000 U	93 J	330 U	100 J	89 J	330 U	---	---	330 U	330 U	150 J	330 U	69 J	490	330 U	
Main Former Mill	SR04	0-0.25 ft	Surf (0-2ft)	1700 U	1700 U	660 U	660 U	660 U	660 U	150 J	1700 U	1700 U	660 U	660 U	160 J	660 U	---	660 U	660 U	---	670	660 U	130 J	130 J	570 J	660 U	
Main Former Mill	SR20	0.25-7 ft	SubSurf (>2ft)	2000 U	2000 U	330 U	330 U	340 U	330 U	25 J	2000 U	2000 U	80 J	330 U	55 J	68 J	330 U	---	---	330 U	330 U	510	330 U	25 J	180 J	330 U	
Main Former Mill	SR21	0.25-3 ft	Surf (0-2ft)	2000 U	2000 U	330 U	330 U	330 U	330 U	330 U	2000 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	---	330 U	330 U	41 J	330 U	330 U	330 U	330 U	
Main Former Mill	SR22	0.25-5 ft	SubSurf (>2ft)	2100 U	2100 U	340 U	340 U	340 U	340 U	62 J	2100 U	2100 U	1900	19 J	480	68 J	340 U	---	---	340 U	340 U	150 J	340 U	77 J	660	340 U	
Main Former Mill	SR23	0.25-13 ft	SubSurf (>2ft)	2000 U	2000 U	330 U	330 U	330 U	330 U	310 J	2000 U	2000 U	43 J	330 U	47 J	150 J	330 U	---	---	330 U	330 U	390	330 U	41 J	250 J	330 U	
Main Former Mill	SR23	0.25-13 ft	SubSurf (>2ft)	2000 U	2000 U	330 U	330 U	340 U	330 U	1400	2000 U	2000 U	220 J	330 U	83 J	330 U	330 U	---	---	330 U	330 U	100 J	330 U	120 J	73 J	330 U	
Main Former Mill	SR24	0.25-16 ft	SubSurf (>2ft)	2100 U	2100 U	340 U	340 U	340 U	340 U	340 U	2100 U	2100 U	340 U	340 U	340 U	340 U	340 U	---	---	340 U	340 U	340 U	340 U	340 U	340 U	340 U	
Main Former Mill	SSB-1	7-8.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	66 U	---	66 U	---	320	---	---	---	110	---
Main Former Mill	SSB-1	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	43 U	---	43 U	---	9300	---	---	---	37	---
Main Former Mill	SSB-1	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	27 U	---	27 U	---	40	---	---	---	25	---
Main Former Mill	SSB-1	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	130	---	---	---	4.8 U	---

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzyl alcohol	bis(2-Chloro-1-methylethyl)ether*	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether*	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate*	Butylbenzylphthalate	Carbazole	Chrysene	Diethylphthalate
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				NL	NL	NL	NL	320000	NL	400000	NL	NL	4.8e+006	NL	2.4e+007	NL	2.4e+007	14000	NL	910	3.2e+006	71000	1.6e+007	50000	NL	100000
				NL	NL	NL	NL	NL	NL	NL	NL	NL	65000	NL	1.2e+007	NL	NL	209.54	NL	20	240000	4900	360000	NL	NL	160000
Funct. Area	Loc ID	Depth	Zone																							
Main Former Mill	SSB-1	25-26.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	120	---	---	4.4 U	---
Main Former Mill	SSB-3	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	59 U	---	59 U	---	560 B	---	---	8.1	---
Main Former Mill	SSB-3	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	67 B	---	---	5.1	---
Main Former Mill	SSB-3	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	270 B	---	---	4.8 U	---
Main Former Mill	SSB-3	20-21.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	71 B	---	---	4.9 U	---
Main Former Mill	SSB-3	25-26.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	80 B	---	---	4.9 U	---
Main Former Mill	SSB-3	27-28.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	510 B	---	---	4.8 U	---
Main Former Mill	TB01	0-0.25 ft	Surf (0-2ft)	1200 U	1200 U	490 U	490 U	490 U	490 U	490 U	1200 U	1200 U	490 U	490 U	78 J	490 U	---	490 U	490 U	490 U	---	490 U	490 U	490 U	210 J	490 U
Main Former Mill	TB02	0-0.25 ft	Surf (0-2ft)	880 U	880 U	350 U	350 U	350 U	350 U	44 J	880 U	880 U	130 J	300 J	6100 J	---	---	350 U	350 U	350 U	---	---	---	1200	---	350 U
Main Former Mill	TP-09	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	20 U	---	---	4.6 U	---
Main Former Mill	TP-09	3-3 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	19 U	---	---	65	---
Main Former Mill	TP-10	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	20 U	---	---	14	---
Main Former Mill	TP-10	3-3 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	20 U	---	---	4.9 U	---
Main Former Mill	TP-14	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	20 U	---	---	21	---
Main Former Mill	TP-14	3-3 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	65 U	---	65 U	---	65 U	---	---	83	---
Main Former Mill	TP-14	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	19 U	---	---	4.7 U	---
Main Former Mill	TP-21	3-3 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	20 U	---	---	7.4	---
North Shoreline	BS01	0-0.25 ft	Surf (0-2ft)	910 U	910 U	360 U	360 U	360 U	360 U	360 U	910 U	910 U	360 U	360 U	360 U	360 U	---	360 U	360 U	360 U	---	360 U	360 U	360 U	360 U	360 U
North Shoreline	BS02	0-0.25 ft	Surf (0-2ft)	980 U	980 U	390 U	390 U	390 U	390 U	390 U	980 U	980 U	410	390 U	210 J	390 U	---	390 U	390 U	390 U	---	390 U	390 U	61 J	120 J	390 U
North Shoreline	CS20	0.25-9 ft	SubSurf (>2ft)	2000 U	2000 U	330 U	330 U	340 U	330 U	27 J	2000 U	2000 U	18 J	330 U	330 U	330 U	330 U	---	---	330 U	330 U	330 U	330 U	15 J	31 J	330 U
North Shoreline	DK20	0.25-7 ft	SubSurf (>2ft)	2000 U	2000 U	330 U	330 U	330 U	330 U	330 U	2000 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	---	330 U	330 U	330 U	330 U	330 U	20 J	330 U
North Shoreline	PC02	0-0.25 ft	Surf (0-2ft)	1100 U	1100 U	430 U	430 U	430 U	430 U	430 U	1100 U	1100 U	430 U	430 U	430 U	430 U	---	430 U	430 U	430 U	---	430 U	430 U	430 U	430 U	430 U
North Shoreline	PC20	0.25-11 ft	SubSurf (>2ft)	2000 U	2000 U	330 U	330 U	340 U	330 U	330 U	2000 U	2000 U	29 J	330 U	17 J	330 U	330 U	---	---	330 U	330 U	330 U	330 U	330 U	42 J	330 U
NW Shoreline	GB01	0-2 ft	Surf (0-2ft)	1500 U	1500 U	600 U	600 U	600 U	600 U	600 U	1500 U	1500 U	600 U	600 U	80 J	89 J	---	600 U	600 U	600 U	---	600 U	600 U	600 U	160 J	600 U
NW Shoreline	GB01	2-4 ft	SubSurf (>2ft)	1100 U	1100 U	450 U	450 U	450 U	450 U	450 U	1100 U	1100 U	450 U	450 U	450 U	450 U	---	450 U	450 U	450 U	---	450 U	450 U	450 U	50 J	450 U
NW Shoreline	GB01	4-6 ft	SubSurf (>2ft)	970 U	970 U	380 U	380 U	380 U	380 U	380 U	970 U	970 U	380 U	380 U	380 U	380 U	---	380 U	380 U	380 U	---	380 U	380 U	380 U	380 U	380 U
NW Shoreline	GB04	0-2 ft	Surf (0-2ft)	2300 U	2300 U	920 U	920 U	920 U	920 U	920 U	2300 U	2300 U	920 U	920 U	920 U	920 U	---	920 U	920 U	920 U	---	920 U	920 U	95 J	920 U	920 U
NW Shoreline	GB05	0-2 ft	Surf (0-2ft)	3000 U	3000 U	1200 U	1200 U	1200 U	1200 U	1200 U	3000 U	3000 U	1200 U	1200 U	1200 U	1200 U	---	1200 U	1200 U	1200 U	---	1200 U	1200 U	1200 U	1200 U	1200 U
NW Shoreline	GB05	2-4 ft	SubSurf (>2ft)	990 U	990 U	390 U	390 U	390 U	390 U	390 U	990 U	990 U	390 U	390 U	390 U	390 U	---	390 U	390 U	390 U	---	390 U	390 U	390 U	390 U	390 U

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzyl alcohol	bis(2-Chloro-1-methylethyl)ether*	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether*	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate*	Butylbenzylphthalate	Carbazole	Chrysene	Diethylphthalate	
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	
				NL	NL	NL	NL	320000	NL	NL	NL	NL	20000	NL	NL	NL	NL	14000	NL	910	3.2e+006	71000	1.6e+007	50000	NL	100000	
				NL	NL	NL	NL		NL	NL	NL	NL	4.8e+006	NL	2.4e+007	NL	2.4e+007	209.54	NL	20	240000	4900	360000	NL	NL	6.4e+007	
				NL	NL	NL	NL		NL	NL	NL	NL	65000	NL	1.2e+007	NL	NL									160000	
Funct. Area	Loc ID	Depth	Zone																								
NW Shoreline	GB06	0-2 ft	Surf (0-2ft)	920 U	920 U	370 U	370 U	370 U	370 U	370 U	920 U	920 U	370 U	370 U	22 J	87 J	---	370 U	370 U	370 U	---	370 U	370 U	370 U	98 J	370 U	
NW Shoreline	GB07	0-2 ft	Surf (0-2ft)	990 U	990 U	390 U	390 U	390 U	390 U	390 U	990 U	990 U	390 U	390 U	28 J	390 U	---	390 U	390 U	390 U	---	390 U	390 U	390 U	77 J	390 U	
NW Shoreline	GB07	2-4 ft	SubSurf (>2ft)	890 U	890 U	350 U	350 U	350 U	350 U	350 U	890 U	890 U	350 U	350 U	80 J	350 U	---	350 U	350 U	350 U	---	350 U	350 U	350 U	350 U	350 U	
NW Shoreline	GB07	4-6 ft	SubSurf (>2ft)	910 U	910 U	360 U	360 U	360 U	360 U	360 U	910 U	910 U	360 U	360 U	360 U	360 U	---	360 U	360 U	360 U	---	360 U	360 U	360 U	360 U	360 U	
NW Shoreline	GB07	6-8 ft	SubSurf (>2ft)	930 U	930 U	370 U	370 U	370 U	370 U	370 U	930 U	930 U	370 U	370 U	370 U	370 U	---	370 U	370 U	370 U	---	370 U	370 U	370 U	370 U	370 U	
NW Shoreline	GB08	0-2 ft	Surf (0-2ft)	1100 U	1100 U	430 U	430 U	430 U	430 U	430 U	1100 U	1100 U	430 U	430 U	34 J	430 U	---	430 U	430 U	430 U	---	430 U	430 U	430 U	75 J	430 U	
NW Shoreline	GB08	2-4 ft	SubSurf (>2ft)	910 U	910 U	360 U	360 U	360 U	360 U	360 U	910 U	910 U	360 U	360 U	360 U	360 U	---	360 U	360 U	360 U	---	360 U	360 U	360 U	360 U	360 U	
NW Shoreline	GB09	0-2 ft	Surf (0-2ft)	1800 U	1800 U	730 U	730 U	730 U	730 U	730 U	1800 U	1800 U	730 U	730 U	110 J	730 U	---	730 U	730 U	730 U	---	730 U	730 U	730 U	560 J	730 U	
NW Shoreline	GB09	2-4 ft	SubSurf (>2ft)	860 U	860 U	340 U	340 U	340 U	340 U	340 U	860 U	860 U	340 U	340 U	340 U	340 U	---	340 U	340 U	340 U	---	210 J	340 U	340 U	340 U	340 U	
NW Shoreline	GB10	10-10 ft	SubSurf (>2ft)	920 U	920 U	370 U	370 U	370 U	370 U	370 U	920 U	920 U	370 U	370 U	370 U	370 U	---	370 U	370 U	370 U	---	370 U	370 U	370 U	370 U	370 U	
NW Shoreline	LY15	0-2 ft	Surf (0-2ft)	1300 U	1300 U	500 U	500 U	500 U	500 U	500 U	1300 U	1300 U	500 U	500 U	500 U	500 U	---	500 U	500 U	500 U	---	500 U	500 U	500 U	500 U	500 U	
NW Shoreline	LY16	0-2 ft	Surf (0-2ft)	1300 U	1300 U	500 U	500 U	500 U	500 U	500 U	1300 U	1300 U	500 U	500 U	47 J	500 U	---	500 U	500 U	500 U	---	500 U	500 U	500 U	110 J	500 U	
NW Shoreline	LY24	0-0.25 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	660 U	660 U	660 U	1200 J	---	---	---	---	---	---	---	---	---	440 J	---
NW Shoreline	LY24	0.25-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	330 U	330 U	330 U	81 J	---	---	---	---	---	---	---	---	---	20 J	---
NW Shoreline	LY25	0-0.25 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	330 U	330 U	17 J	110 J	---	---	---	---	---	---	---	---	---	57 J	---
NW Shoreline	LY25	0.25-8 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	330 U	330 U	330 U	330 U	---	---	---	---	---	---	---	---	---	330 U	---
NW Shoreline	MW-61	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.9 U	---
NW Shoreline	MW-61	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.7	---
NW Shoreline	MW-61	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6.6	---
NW Shoreline	MW-61	20-21.25 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.8 U	---
NW Shoreline	MW-67	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.7 U	---
NW Shoreline	MW-67	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.6 UJ	---
NW Shoreline	PA01	0-2 ft	Surf (0-2ft)	1000 U	1000 U	400 U	400 U	400 U	400 U	400 U	1000 U	1000 U	400 U	400 U	400 U	400 U	---	400 U	400 U	400 U	---	60 J	400 U	400 U	48 J	750	
NW Shoreline	PA02	0-2 ft	Surf (0-2ft)	1100 U	1100 U	420 U	420 U	420 U	420 U	420 U	1100 U	1100 U	420 U	420 U	420 U	420 U	---	420 U	420 U	420 U	---	420 U	420 U	420 U	420 U	800	
NW Shoreline	PA03	0-2 ft	Surf (0-2ft)	880 U	880 U	350 U	350 U	350 U	350 U	350 U	880 U	880 U	350 U	350 U	350 U	350 U	---	350 U	350 U	350 U	---	36 J	350 U	350 U	350 U	660	
NW Shoreline	PA04	0-2 ft	Surf (0-2ft)	860 U	860 U	340 U	340 U	340 U	340 U	340 U	860 U	860 U	340 U	340 U	340 U	340 U	---	340 U	340 U	340 U	---	340 U	340 U	340 U	340 U	380 U	
NW Shoreline	PA04	2-4 ft	SubSurf (>2ft)	860 U	860 U	340 U	340 U	340 U	340 U	340 U	860 U	860 U	340 U	340 U	340 U	340 U	---	340 U	340 U	340 U	---	340 U	340 U	340 U	340 U	440 U	
NW Shoreline	PA04	4-6 ft	SubSurf (>2ft)	880 U	880 U	350 U	350 U	350 U	350 U	350 U	880 U	880 U	350 U	350 U	350 U	350 U	---	350 U	350 U	350 U	---	350 U	350 U	350 U	350 U	360 U	
Prefab	PF02	0-2 ft	Surf (0-2ft)	1100 U	1100 U	420 U	420 U	420 U	420 U	420 U	1100 U	1100 U	420 U	420 U	420 U	420 U	---	420 U	420 U	420 U	---	420 U	420 U	420 U	420 U	420 U	
Prefab	PF02	2-4 ft	SubSurf (>2ft)	1100 U	1100 U	450 U	450 U	450 U	450 U	450 U	1100 U	1100 U	450 U	450 U	450 U	450 U	---	450 U	450 U	450 U	---	450 U	450 U	450 U	450 U	450 U	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzyl alcohol	bis(2-Chloro-1-methylethyl)ether*	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether*	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate*	Butylbenzylphthalate	Carbazole	Chrysene	Diethylphthalate
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				NL	NL	NL	NL	320000	NL	400000	NL	NL	4.8e+006	NL	2.4e+007	NL	2.4e+007	14000	NL	910	3.2e+006	71000	1.6e+007	50000	NL	100000
				NL	NL	NL	NL	NL	NL	NL	NL	NL	65000	NL	1.2e+007	NL	NL	209.54	NL	20	240000	4900	360000	NL	NL	160000
Funct. Area	Loc ID	Depth	Zone																							
Prefab	PF03	0-2 ft	Surf (0-2ft)	1000 U	1000 U	410 U	410 U	410 U	410 U	1000 U	1000 U	410 U	410 U	410 U	410 U	---	---	410 U	410 U	410 U	---	70 J	410 U	410 U	410 U	410 U
Prefab	PF03	2-4 ft	SubSurf (>2ft)	1100 U	1100 U	420 U	420 U	420 U	420 U	1100 U	1100 U	420 U	420 U	420 U	420 U	---	---	420 U	420 U	420 U	---	420 U	420 U	420 U	420 U	420 U
Prefab	PF03	4-6 ft	SubSurf (>2ft)	1000 U	1000 U	410 U	410 U	410 U	410 U	1000 U	1000 U	410 U	410 U	410 U	410 U	---	---	410 U	410 U	410 U	---	46 J	410 U	410 U	410 U	410 U
Prefab	PF03	6-8 ft	SubSurf (>2ft)	1100 U	1100 U	440 U	440 U	440 U	440 U	1100 U	1100 U	440 U	440 U	440 U	440 U	---	---	440 U	440 U	440 U	---	440 U	440 U	440 U	440 U	440 U
Prefab	PF03	8-10 ft	SubSurf (>2ft)	1100 U	1100 U	450 U	450 U	450 U	450 U	1100 U	1100 U	450 U	450 U	450 U	450 U	---	---	450 U	450 U	450 U	---	450 U	450 U	450 U	450 U	450 U
Prefab	PF03	16-18 ft	SubSurf (>2ft)	940 U	940 U	370 U	370 U	370 U	370 U	940 U	940 U	370 U	370 U	370 U	370 U	---	---	370 U	370 U	370 U	---	370 U	370 U	370 U	370 U	370 U
West Former Mill	BP20	0.25-8 ft	SubSurf (>2ft)	2000 U	2000 U	330 U	330 U	330 U	330 U	2000 U	2000 U	330 U	330 U	330 U	84 J	330 U	---	---	330 U	330 U	---	130 J	330 U	330 U	41 J	330 U
West Former Mill	FOT-EX-1	9.5-9.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	8.2 U	8.2 U	8.2 U	8.2 U	---	---	---	---	---	---	---	---	---	8.2 U	---
West Former Mill	FOT-EX-10	11.5-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	7.6 U	7.6 U	7.6 U	7.6 U	---	---	---	---	---	---	---	---	---	7.6 U	---
West Former Mill	FOT-EX-11	9-9 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	7.3 U	7.3 U	7.3 U	7.3 U	---	---	---	---	---	---	---	---	---	7.3 U	---
West Former Mill	FOT-EX-14	9-9 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	7.3 U	7.3 U	7.3 U	7.3 U	---	---	---	---	---	---	---	---	---	7.3 U	---
West Former Mill	FOT-EX-15	11-11 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	7.5 U	7.5 U	7.5 U	7.5 U	---	---	---	---	---	---	---	---	---	7.5 U	---
West Former Mill	FOT-EX-16	8-8 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	7.8 U	7.8 U	7.8 U	7.8 U	---	---	---	---	---	---	---	---	---	9.1	---
West Former Mill	FOT-EX-17	3-3 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	9.4 U	9.4 U	9.4 U	120	---	---	---	---	---	---	---	---	---	150	---
West Former Mill	FOT-EX-18	7-7 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	6.9 U	6.9 U	6.9 U	6.9 U	---	---	---	---	---	---	---	---	---	6.9 U	---
West Former Mill	FOT-EX-19	9-9 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	8 U	8 U	8 U	8 U	---	---	---	---	---	---	---	---	---	8 U	---
West Former Mill	FOT-EX-2	9-9 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	7.2 U	7.2 U	7.2 U	7.2 U	---	---	---	---	---	---	---	---	---	7.2 U	---
West Former Mill	FOT-EX-20	7-7 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	7.5 U	7.5 U	7.5 U	7.5 U	---	---	---	---	---	---	---	---	---	7.5 U	---
West Former Mill	FOT-EX-21	7-7 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	7.1 U	7.1 U	7.1 U	7.1 U	---	---	---	---	---	---	---	---	---	7.1 U	---
West Former Mill	FOT-EX-22	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	7.2 U	---	7.2 U	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	FOT-EX-22	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	7.2 U	---	35	---	---	---	---	---	---	---	---	---	14	---
West Former Mill	FOT-EX-23	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	7.1 U	7.1 U	7.1 U	7.1 U	---	---	---	---	---	---	---	---	---	7.1 U	---
West Former Mill	FOT-EX-24	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	6.9 U	6.9 U	6.9 U	18	---	---	---	---	---	---	---	---	---	40	---
West Former Mill	FOT-EX-25	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	7.4 U	7.4 U	7.4 U	7.4 U	---	---	---	---	---	---	---	---	---	7.4 U	---
West Former Mill	FOT-EX-26	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	7.1 U	7.1 U	10	120	---	---	---	---	---	---	---	---	---	35	---
West Former Mill	FOT-EX-27	8-8 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	7.8 U	7.8 U	7.8 U	7.8 U	---	---	---	---	---	---	---	---	---	9.6	---
West Former Mill	FOT-EX-3	11-11 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19	8.3 U	17	45	---	---	---	---	---	---	---	---	---	310	---
West Former Mill	FOT-EX-4	8-8 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	7.8 U	7.8 U	7.8 U	7.8 U	---	---	---	---	---	---	---	---	---	7.8 U	---
West Former Mill	FOT-EX-5	15-15 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	8.3 U	8.3 U	8.3 U	8.3 U	---	---	---	---	---	---	---	---	---	8.3 U	---
West Former Mill	HF01	0-2 ft	Surf (0-2ft)	1000 U	1000 U	410 U	410 U	410 U	410 U	1000 U	1000 U	410 U	410 U	410 U	410 U	---	---	410 U	410 U	410 U	---	410 U	410 U	410 U	410 U	410 U

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				3-Nitroaniline (ug/Kg)	4,6-Dinitro-2-methylphenol (ug/Kg)	4-Bromophenyl-phenylether (ug/Kg)	4-Chloro-3-methylphenol (ug/Kg)	4-Chloroaniline (ug/Kg)	4-Chlorophenyl-phenylether (ug/Kg)	4-Methylphenol (ug/Kg)	4-Nitroaniline (ug/Kg)	4-Nitrophenol (ug/Kg)	Acenaphthene (ug/Kg)	Acenaphthylene (ug/Kg)	Anthracene (ug/Kg)	Benzo(g,h,i)perylene (ug/Kg)	Benzyl alcohol (ug/Kg)	bis(2-Chloro-1-methylethyl)ether* (ug/Kg)	bis(2-Chloroethoxy)methane (ug/Kg)	bis(2-Chloroethyl)ether* (ug/Kg)	bis(2-Chloroisopropyl)ether (ug/Kg)	bis(2-Ethylhexyl)phthalate* (ug/Kg)	Butylbenzylphthalate (ug/Kg)	Carbazole (ug/Kg)	Chrysene (ug/Kg)	Diethylphthalate (ug/Kg)	
				NL	NL	NL	NL	320000	NL	400000	NL	NL	20000	NL	2.4e+007	NL	2.4e+007	14000	NL	910	3.2e+006	240000	71000	1.6e+007	50000	NL	100000
				NL	NL	NL	NL	NL	NL	NL	NL	NL	65000	NL	1.2e+007	NL	NL	209.54	NL	20	240000	4900	360000	NL	NL	160000	
Funct. Area	Loc ID	Depth	Zone																								
West Former Mill	HF01	2-4 ft	SubSurf (>2ft)	1100 U	1100 U	450 U	450 U	450 U	450 U	450 U	1100 U	1100 U	450 U	450 U	450 U	450 U	---	450 U	450 U	450 U	---	450 U	450 U	450 U	450 U	450 U	450 U
West Former Mill	HF02	0-2 ft	Surf (0-2ft)	980 U	980 U	390 U	390 U	390 U	390 U	390 U	980 U	980 U	390 U	390 U	390 U	390 U	---	390 U	390 U	390 U	---	390 U	390 U	390 U	390 U	390 U	390 U
West Former Mill	HF02	2-4 ft	SubSurf (>2ft)	920 U	920 U	370 U	370 U	370 U	370 U	370 U	920 U	920 U	370 U	370 U	370 U	370 U	---	370 U	370 U	370 U	---	370 U	370 U	370 U	370 U	370 U	370 U
West Former Mill	HF03	0-2 ft	Surf (0-2ft)	930 U	930 U	370 U	370 U	370 U	370 U	370 U	930 U	930 U	370 U	370 U	370 U	370 U	---	370 U	370 U	370 U	---	370 U	370 U	370 U	370 U	370 U	1200
West Former Mill	HF03	2-4 ft	SubSurf (>2ft)	1000 U	1000 U	410 U	410 U	410 U	410 U	410 U	1000 U	1000 U	48 J	410 U	410 U	410 U	---	410 U	410 U	410 U	---	57 J	410 U	410 U	410 U	410 U	2100
West Former Mill	HF04	0-2 ft	Surf (0-2ft)	1000 U	1000 U	400 U	400 U	400 U	400 U	400 U	1000 U	1000 U	400 U	400 U	400 U	400 U	---	400 U	400 U	400 U	---	400 U	400 U	400 U	400 U	58 J	2100
West Former Mill	HF04	2-4 ft	SubSurf (>2ft)	1100 U	1100 U	420 U	420 U	420 U	420 U	420 U	1100 U	1100 U	420 U	420 U	420 U	420 U	---	420 U	420 U	420 U	---	420 U	420 U	420 U	420 U	420 U	1400
West Former Mill	HF05	0-2 ft	Surf (0-2ft)	1000 U	1000 U	400 U	400 U	400 U	400 U	400 U	1000 U	1000 U	400 U	400 U	400 U	400 U	---	400 U	400 U	400 U	---	400 U	400 U	400 U	400 U	400 U	1200
West Former Mill	HF05	2-4 ft	SubSurf (>2ft)	1000 U	1000 U	410 U	410 U	410 U	410 U	410 U	1000 U	1000 U	410 U	410 U	410 U	410 U	---	410 U	410 U	410 U	---	49 J	410 U	410 U	410 U	410 U	1200
West Former Mill	HF06	0-2 ft	Surf (0-2ft)	1000 U	1000 U	410 U	410 U	410 U	410 U	410 U	1000 U	1000 U	410 U	410 U	410 U	410 U	---	410 U	410 U	410 U	---	45 J	410 U	410 U	410 U	410 U	1300
West Former Mill	HF06	2-4 ft	SubSurf (>2ft)	980 U	980 U	390 U	390 U	390 U	390 U	390 U	980 U	980 U	390 U	390 U	390 U	390 U	---	390 U	390 U	390 U	---	390 U	390 U	390 U	390 U	390 U	1200
West Former Mill	HF07	0-2 ft	Surf (0-2ft)	940 U	940 U	370 U	370 U	370 U	370 U	370 U	940 U	940 U	52 J	370 U	45 J	370 U	---	370 U	370 U	370 U	---	370 U	370 U	370 U	370 U	110 J	370 U
West Former Mill	HF07	2-4 ft	SubSurf (>2ft)	910 U	910 U	360 U	360 U	360 U	360 U	360 U	910 U	910 U	360 U	360 U	360 U	360 U	---	360 U	360 U	360 U	---	360 U	360 U	360 U	360 U	360 U	360 U
West Former Mill	HF08	0-2 ft	Surf (0-2ft)	920 U	920 U	370 U	370 U	370 U	370 U	370 U	920 U	920 U	370 U	370 U	370 U	370 U	---	370 U	370 U	370 U	---	370 U	370 U	370 U	370 U	370 U	370 U
West Former Mill	HF08	2-4 ft	SubSurf (>2ft)	940 U	940 U	370 U	370 U	370 U	370 U	370 U	940 U	940 U	370 U	370 U	370 U	370 U	---	370 U	370 U	370 U	---	370 U	370 U	370 U	370 U	370 U	370 U
West Former Mill	HF09	0-2 ft	Surf (0-2ft)	950 U	950 U	380 U	380 U	380 U	380 U	380 U	950 U	950 U	380 U	380 U	380 U	380 U	---	380 U	380 U	380 U	---	380 U	380 U	380 U	380 U	380 U	380 U
West Former Mill	HF09	2-4 ft	SubSurf (>2ft)	920 U	920 U	370 U	370 U	370 U	370 U	370 U	920 U	920 U	370 U	370 U	370 U	370 U	---	370 U	370 U	370 U	---	370 U	370 U	370 U	370 U	370 U	370 U
West Former Mill	MW-60	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	59 U	---	59 UI	---	260 U	---	---	---	150	---
West Former Mill	MW-60	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	570 UI	---	570 UI	---	570 U	---	---	---	6800 J	---
West Former Mill	MW-60	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	59 U	---	59 UI	---	110 U	---	---	---	190	---
West Former Mill	MW-60	20-20.75 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	85 U	---	---	---	18	---
West Former Mill	MW-60	23-24.4 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	110 U	---	---	---	4.9 U	---
West Former Mill	MW-68	5.5-6 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	56 U	---	---	---	40	---
West Former Mill	MW-68	13-14 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	75 U	---	---	---	4.7 U	---
West Former Mill	MW-68	55-55 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	62 U	---	---	---	4.9 U	---
West Former Mill	PS20	0.25-6.5 ft	SubSurf (>2ft)	2000 U	2000 U	330 U	330 U	330 U	330 U	330 U	2000 U	2000 U	330 U	330 U	330 U	330 U	330 U	---	---	330 U	330 U	110 J	330 U	330 U	330 U	330 U	330 U
West Former Mill	RB01	0-0.25 ft	Surf (0-2ft)	1800 U	1800 U	700 U	700 U	700 U	700 U	700 U	1800 U	1800 U	800	270 J	1200	700 U	---	700 U	700 U	700 U	---	640 J	700 U	1300	4700	700 U	700 U
West Former Mill	RB01	0.25-7 ft	SubSurf (>2ft)	2000 U	2000 U	330 U	330 U	330 U	330 U	330 U	2000 U	2000 U	1100	330 U	570	220 J	62 J	---	---	330 U	330 U	200 J	330 U	150 J	450	330 U	330 U
West Former Mill	RB02	0-0.25 ft	Surf (0-2ft)	2000 U	2000 U	790 U	790 U	790 U	790 U	790 U	2000 U	2000 U	790 U	790 U	790 U	790 U	---	790 U	790 U	790 U	---	81 J	790 U	790 U	790 U	410 J	790 U
West Former Mill	RB03	0-2 ft	Surf (0-2ft)	890 U	890 U	350 U	350 U	350 U	350 U	350 U	890 U	890 U	350 U	350 U	350 U	350 U	---	350 U	350 U	350 U	---	78 J	350 U	350 U	350 U	350 U	350 U

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				3-Nitroaniline (ug/Kg)	4,6-Dinitro-2-methylphenol (ug/Kg)	4-Bromophenyl-phenylether (ug/Kg)	4-Chloro-3-methylphenol (ug/Kg)	4-Chloroaniline (ug/Kg)	4-Chlorophenyl-phenylether (ug/Kg)	4-Methylphenol (ug/Kg)	4-Nitroaniline (ug/Kg)	4-Nitrophenol (ug/Kg)	Acenaphthene (ug/Kg)	Acenaphthylene (ug/Kg)	Anthracene (ug/Kg)	Benzo(g,h,i)perylene (ug/Kg)	Benzyl alcohol (ug/Kg)	bis(2-Chloro-1-methylethyl)ether* (ug/Kg)	bis(2-Chloroethoxy)methane (ug/Kg)	bis(2-Chloroethyl)ether* (ug/Kg)	bis(2-Chloroisopropyl)ether (ug/Kg)	bis(2-Ethylhexyl)phthalate* (ug/Kg)	Butylbenzylphthalate (ug/Kg)	Carbazole (ug/Kg)	Chrysene (ug/Kg)	Diethylphthalate (ug/Kg)
				NL	NL	NL	NL	320000	NL	400000	NL	NL	4.8e+006	NL	2.4e+007	NL	2.4e+007	14000	NL	910	3.2e+006	71000	1.6e+007	50000	NL	100000
				NL	NL	NL	NL	NL	NL	NL	NL	NL	65000	NL	1.2e+007	NL	NL	209.54	NL	20	240000	4900	360000	NL	NL	160000
Funct. Area	Loc ID	Depth	Zone																							
West Former Mill	RB03	8-10 ft	SubSurf (>2ft)	1100 U	1100 U	430 U	430 U	430 U	430 U	430 U	1100 U	1100 U	430 U	430 U	430 U	430 U	---	430 U	430 U	430 U	---	430 U	430 U	430 U	430 U	430 U
West Former Mill	RB04	0-2 ft	Surf (0-2ft)	940 U	940 U	370 U	370 U	370 U	370 U	370 U	940 U	940 U	370 U	370 U	42 J	370 U	---	370 U	370 U	370 U	---	53 J	370 U	370 U	370 U	370 U
West Former Mill	RB04	4-6 ft	SubSurf (>2ft)	890 U	890 U	350 U	350 U	350 U	350 U	350 U	890 U	890 U	350 U	350 U	350 U	350 U	---	350 U	350 U	350 U	---	350 U	350 U	350 U	350 U	350 U
West Former Mill	RB04	8-10 ft	SubSurf (>2ft)	970 U	970 U	380 U	380 U	380 U	380 U	380 U	970 U	970 U	380 U	380 U	380 U	380 U	---	380 U	380 U	380 U	---	380 U	380 U	380 U	380 U	380 U
West Former Mill	RB20	0.25-8 ft	SubSurf (>2ft)	2100 U	2100 U	340 U	340 U	340 U	340 U	340 U	2100 U	2100 U	16 J	340 U	61 J	160 J	340 U	---	---	340 U	340 U	170 J	340 U	19 J	160 J	340 U
West Former Mill	RB21	0.25-8 ft	SubSurf (>2ft)	2000 U	2000 U	330 U	330 U	330 U	330 U	330 U	2000 U	2000 U	1400	330 U	770	200 J	330 U	---	---	330 U	330 U	240 J	330 U	200 J	600	330 U
West Former Mill	SSB-2	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	SSB-2	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	SSB-2	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	SSB-2	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	SSB-2	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	SSB-2	20-20.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	SSB-7	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	SSB-7	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	SSB-7	20-21.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	SSB-7	25-26.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	SSB-7	30-30.75 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	TP-01	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	TP-01	8-8 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	TP-02	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	TP-02	8-8 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	TP-02	8-8 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	TP-03	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	TP-03	4-4 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	TP-03	7-7 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	TP-04	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	TP-04	7-7 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	TP-05	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	TP-05	6-6 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
West Former Mill	TP-06	3-3 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzyl alcohol	bis(2-Chloro-1-methylethyl)ether*	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether*	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate*	Butylbenzylphthalate	Carbazole	Chrysene	Diethylphthalate
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				NL	NL	NL	NL	320000	NL	NL	NL	NL	20000	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	100000
				NL	NL	NL	NL	400000	NL	NL	NL	NL	4.8e+006	NL	2.4e+007	NL	2.4e+007	14000	NL	910	3.2e+006	71000	1.6e+007	50000	NL	6.4e+007
				NL	NL	NL	NL		NL	NL	NL	NL	65000	NL	1.2e+007	NL	NL	209.54	NL	20	240000	4900	360000	NL	NL	160000
Funct. Area	Loc ID	Depth	Zone																							
West Former Mill	TP-06	7-7 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	20 U	---	---	4.6 U	---
West Former Mill	TP-07	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	20 U	---	---	20	---
West Former Mill	TP-07	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19 U	---	19 U	---	19 U	---	---	30	---
West Former Mill	TP-07	6-6 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	1300	---	---	4.9 U	---
West Former Mill	TP-08	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	20 U	---	---	61	---
West Former Mill	TP-08	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	20 U	---	---	4.9 U	---
West Former Mill	TP-11	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	20 U	---	---	190	---
West Former Mill	TP-11	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	72 U	---	72 UI	---	72 U	---	---	82 J	---
West Former Mill	TP-11	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	67 U	---	67 UI	---	67 U	---	---	71	---
West Former Mill	TP-12	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	67 U	---	67 UI	---	300	---	---	820	---
West Former Mill	TP-12	4-4 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	62 U	---	62 UI	---	1600	---	---	800	---
West Former Mill	TP-15	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	85 U	---	85 UI	---	85 U	---	---	59	---
West Former Mill	TP-15	4-4 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	20 U	---	---	110	---
West Former Mill	TP-16	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	20 U	---	---	4.6 U	---
West Former Mill	TP-16	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	---	20 U	---	20 U	---	---	4.6 U	---
West Former Mill	WM21	0-0.25 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	330 U	---
West Former Mill	WM21	0.25-9.5 ft	SubSurf (>2ft)	1900 U	1900 U	320 U	320 U	320 U	320 U	1900 U	1900 U	320 U	330 U	330 U	330 U	330 U	320 U	---	---	320 U	320 U	200 J	320 U	320 U	19 J	320 U
West Former Mill	WM-EX-1	8-8 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	7.3 U	7.3 U	7.3 U	7.3 U	---	---	---	---	---	---	---	---	7.3 U	---
West Former Mill	WM-EX-10	16-16 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	39	7.7 U	19	27	---	---	---	---	---	---	---	---	45	---
West Former Mill	WM-EX-10	16-16 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	260	19	180	160	---	---	---	---	---	---	---	---	390	---
West Former Mill	WM-EX-11	17-17 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	300	8.9 U	12	8.9 U	---	---	---	---	---	---	---	---	8.9 U	---
West Former Mill	WM-EX-12	8-8 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	16	7.3 U	14	19	---	---	---	---	---	---	---	---	45	---
West Former Mill	WM-EX-13	9-9 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	7.9 U	7.9 U	7.9 U	38	---	---	---	---	---	---	---	---	98	---
West Former Mill	WM-EX-14	14-14 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	7.5 U	7.5 U	7.5 U	7.5 U	---	---	---	---	---	---	---	---	7.5 U	---
West Former Mill	WM-EX-15	14-14 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	26	7.6 U	14	110	---	---	---	---	---	---	---	---	260	---
West Former Mill	WM-EX-16	14-14 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	210	30	150	240	---	---	---	---	---	---	---	---	840	---
West Former Mill	WM-EX-17	14-14 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	19	7.4 U	7.4 U	7.4 U	---	---	---	---	---	---	---	---	7.4 U	---
West Former Mill	WM-EX-18	9-9 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	180	7.7	51	110	---	---	---	---	---	---	---	---	230	---
West Former Mill	WM-EX-2	11-11 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	14	7.5 U	20	39	---	---	---	---	---	---	---	---	36	---
West Former Mill	WM-EX-3	10-10 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	7.5 U	7.5 U	7.5 U	9.3	---	---	---	---	---	---	---	---	11	---

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				3-Nitroaniline (ug/Kg)	4,6-Dinitro-2-methylphenol (ug/Kg)	4-Bromophenyl-phenylether (ug/Kg)	4-Chloro-3-methylphenol (ug/Kg)	4-Chloroaniline (ug/Kg)	4-Chlorophenyl-phenylether (ug/Kg)	4-Methylphenol (ug/Kg)	4-Nitroaniline (ug/Kg)	4-Nitrophenol (ug/Kg)	Acenaphthene (ug/Kg)	Acenaphthylene (ug/Kg)	Anthracene (ug/Kg)	Benzo(g,h,i)perylene (ug/Kg)	Benzyl alcohol (ug/Kg)	bis(2-Chloro-1-methylethyl)ether* (ug/Kg)	bis(2-Chloroethoxy)methane (ug/Kg)	bis(2-Chloroethyl)ether* (ug/Kg)	bis(2-Chloroisopropyl)ether (ug/Kg)	bis(2-Ethylhexyl)phthalate* (ug/Kg)	Butylbenzylphthalate (ug/Kg)	Carbazole (ug/Kg)	Chrysene (ug/Kg)	Diethylphthalate (ug/Kg)	
				NL	NL	NL	NL	NL	NL	NL	NL	NL	20000	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	100000
				NL	NL	NL	NL	320000	NL	400000	NL	NL	4.8e+006	NL	2.4e+007	NL	2.4e+007	14000	NL	910	3.2e+006	71000	1.6e+007	50000	NL	NL	6.4e+007
				NL	NL	NL	NL	NL	NL	NL	NL	NL	65000	NL	1.2e+007	NL	NL	209.54	NL	20	240000	4900	360000	NL	NL	NL	160000
Funct. Area	Loc ID	Depth	Zone																								
West Former Mill	WM-EX-4	13-13 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	12	7.7 U	7.7 U	7.7 U	---	---	---	---	---	---	---	---	---	7.7 U	---
West Former Mill	WM-EX-5	16-16 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	22	7.7 U	7.7 U	7.7 U	---	---	---	---	---	---	---	---	---	8.7	---
West Former Mill	WM-EX-6	9-9 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	47	7.3 U	12	7.3 U	---	---	---	---	---	---	---	---	---	10	---
West Former Mill	WM-EX-7	8.5-8.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	34	7.3 U	22	26	---	---	---	---	---	---	---	---	---	80	---
West Former Mill	WM-EX-8	15-15 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	42	7.3 U	7.3 U	7.3 U	---	---	---	---	---	---	---	---	---	7.3 U	---
West Former Mill	WM-EX-9	10-10 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	17	7.8 U	7.8 U	7.8 U	---	---	---	---	---	---	---	---	---	7.8 U	---

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				Di-n-butylphthalate	Di-n-octylphthalate	Dibenzofuran	Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane*	Isophorone	Naphthalene	Nitrobenzene	n-Nitroso-di-n-propylamine*	n-Nitrosodiphenylamine*	Pentachlorophenol*	Phenanthrene	Phenol	Pyrene*
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				200000	NL	NL	200000	NL	30000	NL	10000	NL	NL	NL	40000	NL	20000	3000	NL	30000	NL
				8e+006	1.6e+006	160000	8e+007	3.2e+006	3.2e+006	13000	480000	71000	1.1e+006	1.6e+006	40000	140	200000	8300	NL	4.8e+007	2.4e+006
				100000	NL	NL	330000	89000	550000	19000	4.4e+006	130	3000	140000	2900	100	180	48	NL	5e+006	3.5e+006
Funct. Area	Loc ID	Depth	Zone																		
City Purchase	BY01	0-2 ft	Surf (0-2ft)	370 U	370 U	370 U	370 U	59 J	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	930 U	49 J	370 U	67 J
City Purchase	BY01	2-4 ft	SubSurf (>2ft)	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	1000 U	77 J	410 U	410 U
City Purchase	BY02	0-2 ft	Surf (0-2ft)	380 U	380 U	380 U	380 U	40 J	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	970 U	380 U	380 U	380 U
City Purchase	BY02	2-4 ft	SubSurf (>2ft)	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	1100 U	420 U	420 U	420 U
City Purchase	BY03	0-2 ft	Surf (0-2ft)	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	930 U	370 U	370 U	370 U
City Purchase	BY03	2-4 ft	SubSurf (>2ft)	450 U	450 U	450 U	450 U	280 J	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	1100 U	240 J	450 U	210 J
City Purchase	BY04	0-2 ft	Surf (0-2ft)	390 U	390 U	390 U	390 U	48 J	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	990 U	43 J	390 U	390 U
City Purchase	BY04	2-4 ft	SubSurf (>2ft)	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	1100 U	430 U	430 U	430 U
City Purchase	BY05	0-2 ft	Surf (0-2ft)	400 U	400 U	400 U	400 U	240 J	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	1000 U	180 J	400 U	180 J
City Purchase	BY05	2-4 ft	SubSurf (>2ft)	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	990 U	390 U	390 U	390 U
City Purchase	BY05	4-6 ft	SubSurf (>2ft)	460 U	460 U	460 U	460 U	460 U	460 U	460 U	460 U	460 U	460 U	460 U	460 U	460 U	460 U	1200 U	460 U	460 U	460 U
City Purchase	BY05	6-8 ft	SubSurf (>2ft)	460 U	460 U	460 U	460 U	460 U	460 U	460 U	460 U	460 U	460 U	460 U	460 U	460 U	460 U	1200 U	460 U	460 U	460 U
City Purchase	BY05	8-10 ft	SubSurf (>2ft)	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	1100 U	440 U	440 U	440 U
City Purchase	GWG-8	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	6.4 U	---	---	18
City Purchase	GWG-8	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	6.4 U	---	---	20
City Purchase	GWG-8	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.5 U	---	---	4.6 U
City Purchase	GWG-8	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	7.4 U	---	---	4.9 U
City Purchase	PF01	0-2 ft	Surf (0-2ft)	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	1100 U	440 U	440 U	440 U
City Purchase	PF01	2-4 ft	SubSurf (>2ft)	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	1100 U	440 U	440 U	440 U
City Purchase	SSB-10	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	7.7 R	---	---	15
City Purchase	SSB-10	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	8.1 R	---	---	9.4
City Purchase	SSB-10	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	8.2 R	---	---	4.7 U
City Purchase	SSB-10	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.1 U	---	---	4.9 U
City Purchase	SSB-10	20-21.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.5 U	---	---	4.7 U
CSO	FOT-EX-12	6-6 ft	SubSurf (>2ft)	---	---	---	---	7.2 U	7.2 U	---	---	---	---	7.2 U	---	---	---	---	7.2 U	---	7.2 U
CSO	FOT-EX-13	13-13 ft	SubSurf (>2ft)	---	---	---	---	8.5 U	8.5 U	---	---	---	---	8.5 U	---	---	---	---	8.6	---	9.2
CSO	FOT-EX-28	8-8 ft	SubSurf (>2ft)	---	---	---	---	7.8 U	7.8 U	---	---	---	---	7.8 U	---	---	---	---	7.8 U	---	7.8 U
CSO	FOT-EX-6	3-3 ft	SubSurf (>2ft)	---	---	---	---	8 U	8 U	---	---	---	---	8 U	---	---	---	---	8.4	---	8 U
CSO	FOT-EX-7	3-3 ft	SubSurf (>2ft)	---	---	---	---	7.2 U	7.2 U	---	---	---	---	7.2 U	---	---	---	---	9.8	---	7.2 U
CSO	FOT-EX-8	8-8 ft	SubSurf (>2ft)	---	---	---	---	7.8 U	7.8 U	---	---	---	---	7.8 U	---	---	---	---	7.8 U	---	12

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				Di-n-butylphthalate	Di-n-octylphthalate	Dibenzofuran	Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane*	Isophorone	Naphthalene	Nitrobenzene	n-Nitroso-di-n-propylamine*	n-Nitrosodiphenylamine*	Pentachlorophenol*	Phenanthrene	Phenol	Pyrene*	
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				200000	NL	NL	200000	NL	30000	NL	10000	NL	NL	NL	40000	NL	20000	3000	NL	30000	NL	2.4e+006
				8e+006	1.6e+006	160000	8e+007	3.2e+006	3.2e+006	13000	480000	71000	1.1e+006	1.6e+006	40000	140	200000	8300	NL	4.8e+007	2.4e+006	
				100000	NL	NL	330000	89000	550000	19000	4.4e+006	130	3000	140000	2900	100	180	48	NL	5e+006	3.5e+006	
Funct. Area	Loc ID	Depth	Zone																			
CSO	FOT-EX-9	6-6 ft	SubSurf (>2ft)	---	---	---	---	7.5 U	7.5 U	---	---	---	---	7.5 U	---	---	---	---	7.5 U	---	---	7.5 U
CSO	GB02	0-2 ft	Surf (0-2ft)	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	43 J	400 U	400 U	400 U	400 U
CSO	GB02	2-4 ft	SubSurf (>2ft)	370 U	370 U	370 U	370 U	110 J	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	940 U	89 J	370 U	160 J	
CSO	GB03	0-2 ft	Surf (0-2ft)	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	950 U	380 U	380 U	380 U	380 U
CSO	GB03	2-4 ft	SubSurf (>2ft)	390 U	390 U	390 U	390 U	130 J	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	990 U	79 J	390 U	90 J	
CSO	GWG-6	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	6.6 U	---	---	85	
CSO	GWG-6	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	7.5 U	---	---	4.7 U	
CSO	GWG-6	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	7.7 U	---	---	4.8 U	
CSO	MW-70	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.4 U	---	---	4.8 U	
CSO	MW-70	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.3 U	---	---	4.8 U	
CSO	MW-70	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.7 U	---	---	4.8 U	
CSO	MW-70	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7 U	---	---	4.6 U	
CSO	MW-70	20-21.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.3 U	---	---	4.9 U	
East Former Mill	CD02	0-2 ft	Surf (0-2ft)	430 U	430 U	430 U	430 U	81 J	430 U	110 J	430 U	430 U	430 U	430 U	430 U	430 U	430 U	1100 U	63 J	430 U	430 U	
East Former Mill	CD02	2-4 ft	SubSurf (>2ft)	450 U	450 U	450 U	450 U	450 U	450 U	110 J	450 U	450 U	450 U	450 U	450 U	450 U	450 U	1100 U	450 U	450 U	450 U	450 U
East Former Mill	CD02	4-6 ft	SubSurf (>2ft)	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	1100 U	440 U	440 U	440 U	440 U
East Former Mill	CD02	6-8 ft	SubSurf (>2ft)	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	410 U
East Former Mill	CD03	0-2 ft	Surf (0-2ft)	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	70 J	360 U	360 U	360 U	900 U	360 U	360 U	360 U	360 U
East Former Mill	CD03	2-4 ft	SubSurf (>2ft)	360 U	360 U	360 U	360 U	57 J	360 U	75 J	360 U	360 U	360 U	360 U	360 U	360 U	360 U	900 U	64 J	360 U	65 J	
East Former Mill	GWG-7	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.8 U	---	---	20	
East Former Mill	GWG-7	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	8 U	---	---	4.5 U	
East Former Mill	GWG-7	7-8.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	7.7 U	---	---	4.8 U	
East Former Mill	SL22	0-0.25 ft	Surf (0-2ft)	---	---	330 U	---	330 U	330 U	---	---	---	---	330 U	---	---	---	---	330 U	---	330 U	
East Former Mill	SL22	0.25-7.5 ft	SubSurf (>2ft)	---	---	330 U	---	330 U	330 U	---	---	---	---	330 U	---	---	---	---	330 U	---	330 U	
East Shoreline	SL20	0.25-7 ft	SubSurf (>2ft)	---	---	330 U	---	17 J	330 U	---	---	---	---	330 U	---	---	---	---	18 J	---	330 U	
East Shoreline	SL21	0.25-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	330 U	---	---	---	---	---	---	---	---	---	---	---	---	---
East Shoreline	SL21	0.25-6.5 ft	SubSurf (>2ft)	---	---	32 J	---	240 J	18 J	---	---	---	---	82 J	---	---	---	---	220 J	---	230 J	
Ennis Creek	DD02	0-0.25 ft	Surf (0-2ft)	---	---	730 U	---	730 U	730 U	---	---	---	---	730 U	---	---	---	---	130 J	730 U	730 U	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				Di-n-butylphthalate	Di-n-octylphthalate	Dibenzofuran	Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane*	Isophorone	Naphthalene	Nitrobenzene	n-Nitroso-di-n-propylamine*	n-Nitrosodiphenylamine*	Pentachlorophenol*	Phenanthrene	Phenol	Pyrene*	
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				200000	NL	NL	200000	NL	30000	NL	10000	NL	NL	NL	40000	NL	20000	3000	NL	30000	NL	2.4e+006
				8e+006	1.6e+006	160000	8e+007	3.2e+006	3.2e+006	13000	480000	71000	1.1e+006	1.6e+006	40000	140	200000	8300	NL	4.8e+007	2.4e+006	
				100000	NL	NL	330000	89000	550000	19000	4.4e+006	130	3000	140000	2900	100	180	48	NL	5e+006	3.5e+006	
Funct. Area	Loc ID	Depth	Zone																			
Estuary	CD01	0-2 ft	Surf (0-2ft)	350 U	350 U	41 J	350 U	230 J	68 J	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	890 U	380	350 U	220 J	
Estuary	CD01	2-4 ft	SubSurf (>2ft)	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	910 U	42 J	360 U	360 U
Estuary	FR05	0-0.25 ft	Surf (0-2ft)	620 U	620 U	620 U	620 U	490 J	620 U	620 U	620 U	620 U	620 U	620 U	620 U	620 U	620 U	92 J	430 J	620 U	400 J	
Estuary	MW-62	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	6.7 U	---	---	16	
Estuary	MW-62	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	6.6 U	---	---	4.7 U	
Estuary	MW-62	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.1 U	---	---	4.8 U	
Estuary	MW-62	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	6.8 U	---	---	9.4	
Estuary	MW-62	20-21.25 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	7.2 U	---	---	4.9 U	
Estuary	MW-62	25-26.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.8 U	---	---	4.8 U	
Estuary	RS20	0-0.25 ft	Surf (0-2ft)	35 J	330 U	31 J	500	500	330 U	330 U	340 U	330 U	330 U	43 J	330 U	330 U	330 U	2000 U	270 J	330 U	350	
Estuary	RS20	0-0.25 ft	Surf (0-2ft)	21 J	340 U	27 J	340	320 J	22 J	340 U	340 U	340 U	340 U	32 J	340 U	340 U	340 U	2100 U	240 J	340 U	310 J	
Estuary	RS20	0.25-2 ft	Surf (0-2ft)	330 U	330 U	330 U	330 U	330 U	330 U	330 U	340 U	330 U	340 U	330 U	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	
Estuary	RS21	0-0.25 ft	Surf (0-2ft)	330 U	330 U	34 J	26 J	390	20 J	330 U	340 U	330 U	340 U	330 U	330 U	35 J	330 U	330 U	2000 U	220 J	330 U	330
Estuary	RS21	0-0.25 ft	Surf (0-2ft)	330 U	330 U	40 J	330 U	280 J	330 U	330 U	340 U	330 U	330 U	47 J	330 U	330 U	330 U	2000 U	120 J	330 U	260 J	
Estuary	RS21	0.25-9.5 ft	SubSurf (>2ft)	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	2100 U	340 U	340 U	340 U	
Main Former Mill	AP01	0-0.25 ft	Surf (0-2ft)	490 U	490 U	490 U	160 J	1100	140 J	490 U	490 U	490 U	490 U	110 J	490 U	490 U	490 U	65 J	960	490 U	1000	
Main Former Mill	AP02	0-0.25 ft	Surf (0-2ft)	460 U	460 U	370 J	100 J	5900 J	810	460 U	460 U	460 U	460 U	280 J	460 U	460 U	460 U	570 J	7500 J	400 J	8600 J	
Main Former Mill	AP03	0-0.25 ft	Surf (0-2ft)	82 J	480 U	57 J	100 J	1700	97 J	480 U	480 U	480 U	480 U	480 U	480 U	480 U	480 U	5300 J	1200	480 U	2000	
Main Former Mill	AP04	0-0.25 ft	Surf (0-2ft)	66 J	650 U	120 J	510 J	2400	260 J	650 U	650 U	650 U	650 U	97 J	650 U	650 U	650 U	1700	2500	530 J	2900	
Main Former Mill	BL01	0-0.25 ft	Surf (0-2ft)	180 J	360 U	120 J	240 J	330 J	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	910 U	240 J	360 U	360 U	
Main Former Mill	BL02	0-0.25 ft	Surf (0-2ft)	570 U	570 U	570 U	160 J	460 J	570 U	570 U	570 U	570 U	570 U	100 J	570 U	570 U	570 U	1400 U	510 J	570 U	570 U	
Main Former Mill	BL03	0-0.25 ft	Surf (0-2ft)	380 U	380 U	380 U	380 U	49 J	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	970 U	380 U	380 U	380 U	
Main Former Mill	BL20	0.25-3.5 ft	Surf (0-2ft)	330 U	330 U	330 U	330 U	67 J	330 U	330 U	340 U	330 U	330 U	29 J	330 U	330 U	330 U	2000 U	61 J	330 U	68 J	
Main Former Mill	BP01	0-0.25 ft	Surf (0-2ft)	430 U	430 U	430 U	120 J	130 J	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	1100 U	120 J	430 U	96 J	
Main Former Mill	BP02	0-0.25 ft	Surf (0-2ft)	3000 U	3000 U	3000 U	3000 U	2300 J	350 J	3000 U	3000 U	3000 U	3000 U	3000 U	3000 U	3000 U	3000 U	4300 J	1600 J	3000 U	1400 J	
Main Former Mill	BP03	0-0.25 ft	Surf (0-2ft)	2200 U	2200 U	2200 U	2200 U	440 J	2200 U	2200 U	2200 U	2200 U	2200 U	2200 U	2200 U	2200 U	2200 U	5500 U	350 J	2200 U	390 J	
Main Former Mill	BP04	0-0.25 ft	Surf (0-2ft)	550 U	550 U	550 U	74 J	170 J	550 U	550 U	550 U	550 U	550 U	550 U	550 U	550 U	550 U	1400 U	110 J	550 U	150 J	
Main Former Mill	DB02	0-0.25 ft	Surf (0-2ft)	550 U	550 U	550 U	550 U	670	550 U	550 U	550 U	550 U	550 U	550 U	550 U	550 U	550 U	460 J	470 J	550 U	580	
Main Former Mill	DB21	0.25-11 ft	SubSurf (>2ft)	15 J	330 U	81 J	120 J	410	110 J	330 U	340 U	330 U	330 U	34 J	330 U	330 U	330 U	2000 U	410	330 U	370	
Main Former Mill	FR02	0-0.25 ft	Surf (0-2ft)	770 U	---	87 J	1100	1100 J	770 U	770 U	770 U	770 U	770 U	87 J	770 U	770 U	770 U	7100 J	1300 J	770 U	780 J	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				Di-n-butylphthalate	Di-n-octylphthalate	Dibenzofuran	Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane*	Isophorone	Naphthalene	Nitrobenzene	n-Nitroso-di-n-propylamine*	n-Nitrosodiphenylamine*	Pentachlorophenol*	Phenanthrene	Phenol	Pyrene*	
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				200000	NL	NL	200000	NL	30000	NL	10000	NL	NL	NL	40000	NL	20000	3000	NL	30000	NL	2.4e+006
				8e+006	1.6e+006	160000	8e+007	3.2e+006	3.2e+006	13000	480000	71000	1.1e+006	1.6e+006	40000	140	200000	8300	NL	4.8e+007	2.4e+006	
				100000	NL	NL	330000	89000	550000	19000	4.4e+006	130	3000	140000	2900	100	180	48	NL	5e+006	3.5e+006	
Funct. Area	Loc ID	Depth	Zone																			
Main Former Mill	FR02	0.25-5.5 ft	SubSurf (>2ft)	330 U	330 U	330 U	24 J	57 J	330 U	330 U	340 U	<i>330 U</i>	330 U	330 U	330 U	<i>330 U</i>	<i>330 U</i>	<i>2000 U</i>	50 J	330 U	55 J	
Main Former Mill	FR04	0-0.25 ft	Surf (0-2ft)	84 J	---	140 J	200 J	1500	180 J	490 U	490 U	<i>490 U</i>	490 U	200 J	490 U	<i>490 U</i>	<i>490 U</i>	<i>1200 U</i>	1300	490 U	940 J	
Main Former Mill	FR20	0.25-4.5 ft	SubSurf (>2ft)	32 J	330 U	330 U	58 J	48 J	330 U	330 U	340 U	<i>330 U</i>	330 U	23 J	330 U	<i>330 U</i>	<i>330 U</i>	<i>2000 U</i>	88 J	330 U	67 J	
Main Former Mill	GWG-1	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	GWG-1	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	GWG-1	7.5-9 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	GWG-1	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	GWG-1	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	GWG-1	20-21.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Main Former Mill	GWG-5	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	13	---	---	430	
Main Former Mill	GWG-5	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	59 U	---	---	---	59 U	59 U	170	---	---	440	
Main Former Mill	GWG-5A	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	16	---	---	15	
Main Former Mill	GWG-5A	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	6.6 U	---	---	4.6 U	
Main Former Mill	GWG-5A	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.3 U	---	---	4.6 U	
Main Former Mill	GWG-5A	20-21.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	6.7 U	---	---	4.5 U	
Main Former Mill	GWG-5A	24-25.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	6.7 U	---	---	4.7 U	
Main Former Mill	LB01	0-2 ft	Surf (0-2ft)	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	<i>380 U</i>	380 U	380 U	380 U	<i>380 U</i>	<i>380 U</i>	<i>950 U</i>	380 U	380 U	380 U	
Main Former Mill	LB02	0-2 ft	Surf (0-2ft)	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	<i>430 U</i>	430 U	430 U	430 U	<i>430 U</i>	<i>430 U</i>	<i>1100 U</i>	430 U	430 U	430 U	
Main Former Mill	MR01	0-0.25 ft	Surf (0-2ft)	510 U	310 J	1100	280 J	6400 J	1300	510 U	510 U	<i>510 U</i>	510 U	270 J	510 U	<i>510 U</i>	<i>510 U</i>	<i>1300 U</i>	8000 J	220 J	3700	
Main Former Mill	MR02	0-0.25 ft	Surf (0-2ft)	360 U	360 U	360 U	55 J	360 U	360 U	360 U	360 U	<i>360 U</i>	360 U	360 U	360 U	<i>360 U</i>	<i>360 U</i>	<i>900 U</i>	120 J	360 U	360 U	
Main Former Mill	MR03	0-0.25 ft	Surf (0-2ft)	800 U	22000 J	95 J	500 J	1500 J	110 J	800 U	800 U	<i>800 U</i>	800 U	800 U	800 U	<i>800 U</i>	<i>800 U</i>	<i>2000 U</i>	1300 J	800 U	1400 J	
Main Former Mill	MR04	0-0.25 ft	Surf (0-2ft)	---	---	350 U	350 U	---	350 U	350 U	350 U	<i>350 U</i>	350 U	43 J	350 U	---	<i>350 U</i>	---	---	350 U	---	
Main Former Mill	MR05	0-0.25 ft	Surf (0-2ft)	350 U	350 U	350 U	350 U	140 J	350 U	350 U	350 U	<i>350 U</i>	350 U	350 U	350 U	<i>350 U</i>	<i>350 U</i>	<i>890 U</i>	140 J	350 U	140 J	
Main Former Mill	MR06	0-0.25 ft	Surf (0-2ft)	59 J	---	79 J	98 J	1100	180 J	410 U	410 U	<i>410 U</i>	620	46 J	410 U	<i>410 U</i>	<i>410 U</i>	<i>1000 U</i>	730	410 U	1100	
Main Former Mill	MR07	0-0.25 ft	Surf (0-2ft)	570 U	570 U	230 J	120 J	1300	290 J	570 U	570 U	<i>570 U</i>	570 U	160 J	570 U	<i>570 U</i>	<i>570 U</i>	<i>150 J</i>	1300	570 U	570 U	
Main Former Mill	MR08	0-0.25 ft	Surf (0-2ft)	370 J	---	390 U	84 J	670	390 U	390 U	390 U	<i>390 U</i>	390 U	390 U	390 U	<i>390 U</i>	<i>390 U</i>	<i>980 U</i>	330 J	390 U	390 U	
Main Former Mill	MR09	0-0.25 ft	Surf (0-2ft)	350 U	350 U	350 U	93 J	310 J	350 U	350 U	350 U	<i>350 U</i>	350 U	350 U	350 U	<i>350 U</i>	<i>350 U</i>	<i>69 J</i>	110 J	350 U	280 J	
Main Former Mill	MR10	0-0.25 ft	Surf (0-2ft)	350 U	350 U	350 U	56 J	190 J	350 U	350 U	350 U	<i>350 U</i>	350 U	350 U	350 U	<i>350 U</i>	<i>350 U</i>	<i>890 U</i>	160 J	350 U	140 J	
Main Former Mill	MR11	0-0.25 ft	Surf (0-2ft)	460 U	460 U	58 J	460 U	260 J	94 J	460 U	460 U	<i>460 U</i>	460 U	120 J	460 U	<i>460 U</i>	<i>460 U</i>	<i>1200 U</i>	410 J	460 U	110 J	
Main Former Mill	MR12	0-0.25 ft	Surf (0-2ft)	370 U	---	370 U	130 J	370 U	370 U	370 U	370 U	<i>370 U</i>	370 U	370 U	370 U	<i>370 U</i>	<i>370 U</i>	<i>920 U</i>	370 U	370 U	---	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				Di-n-butylphthalate	Di-n-octylphthalate	Dibenzofuran	Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane*	Isophorone	Naphthalene	Nitrobenzene	n-Nitroso-di-n-propylamine*	n-Nitrosodiphenylamine*	Pentachlorophenol*	Phenanthrene	Phenol	Pyrene*	
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				200000 8e+006 100000	NL 1.6e+006 NL	NL 160000 NL	200000 8e+007 330000	NL 3.2e+006 89000	30000 3.2e+006 550000	NL 13000 19000	10000 480000 4.4e+006	NL 71000 130	NL 1.1e+006 3000	NL 1.6e+006 140000	40000 40000 2900	NL 140 100	20000 200000 180	3000 8300 48	NL NL NL	30000 4.8e+007 5e+006	NL 2.4e+006 3.5e+006	
Funct. Area	Loc ID	Depth	Zone																			
Main Former Mill	MR20	0-0.25 ft	Surf (0-2ft)	340 U	340 U	340 U	340 U	55 J	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	2100 U	35 J	340 U	57 J	
Main Former Mill	MS20	0.25-5 ft	SubSurf (>2ft)	520	960 J	330 U	330 U	72 J	330 U	330 U	340 U	330 U	330 U	330 U	330 U	330 U	330 U	2000 U	79 J	330 U	150 J	
Main Former Mill	MW-65	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.8 U	---	---	76	
Main Former Mill	MW-65	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7 U	---	---	4.8 UJ	
Main Former Mill	MW-66	2.5-4 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	51	---	---	560	
Main Former Mill	MW-66	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.9 U	---	---	64	
Main Former Mill	MW-69	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.3 U	---	---	6.4	
Main Former Mill	MW-69	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.3 U	---	---	8.4	
Main Former Mill	MW-69	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	14 U	---	---	120	
Main Former Mill	MW-69	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.3 U	---	---	11	
Main Former Mill	MW-69	20-21.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.7 U	---	---	4.8 U	
Main Former Mill	MW-69	25-26.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.8 U	---	---	4.7 U	
Main Former Mill	MW-69	29-30 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6.9 U	---	---	4.6 U	
Main Former Mill	PC01	0-0.25 ft	Surf (0-2ft)	570 U	570 U	570 U	220 J	63 J	570 U	570 U	570 U	570 U	570 U	570 U	570 U	570 U	570 U	1400 U	60 J	570 U	59 J	
Main Former Mill	PW20	0.25-8.5 ft	SubSurf (>2ft)	330 U	330 U	330 U	330 U	330 U	330 U	330 U	340 U	330 U	330 U	330 U	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	
Main Former Mill	SR01	0-0.25 ft	Surf (0-2ft)	140 J	470 U	51 J	470 U	270 J	57 J	470 U	470 U	470 U	470 U	88 J	470 U	470 U	470 U	110 J	380 J	470 U	260 J	
Main Former Mill	SR02	0-0.25 ft	Surf (0-2ft)	520 U	520 U	520 U	520 U	450 J	66 J	520 U	520 U	520 U	520 U	67 J	520 U	520 U	520 U	1300 U	210 J	520 U	360 J	
Main Former Mill	SR03	0-0.25 ft	Surf (0-2ft)	760	590 U	190 J	590 U	2600	210 J	590 U	590 U	590 U	590 U	400 J	590 U	590 U	590 U	15000 J	2200	89 J	1500	
Main Former Mill	SR03	0.25-11 ft	SubSurf (>2ft)	20 J	330 U	75 J	110 J	500	84 J	330 U	340 U	330 U	330 U	53 J	330 U	330 U	330 U	2000 U	370	330 U	410	
Main Former Mill	SR04	0-0.25 ft	Surf (0-2ft)	660 U	660 U	660 U	660 U	1000	660 U	660 U	660 U	660 U	660 U	660 U	660 U	660 U	660 U	530 J	660	660 U	680	
Main Former Mill	SR20	0.25-7 ft	SubSurf (>2ft)	23 J	330 U	61 J	500	520	69 J	330 U	340 U	330 U	330 U	75 J	330 U	330 U	330 U	400 J	310 J	330 U	540	
Main Former Mill	SR21	0.25-3 ft	Surf (0-2ft)	330 U	340 U	330 U	330 U	330 U	330 U	330 U	340 U	330 U	330 U	330 U	330 U	330 U	330 U	2000 U	17 J	330 U	330 U	
Main Former Mill	SR22	0.25-5 ft	SubSurf (>2ft)	17 J	340 U	970	340 U	2900	1900	340 U	340 U	340 U	340 U	420	340 U	340 U	340 U	2100 U	4100	340 U	2700	
Main Former Mill	SR23	0.25-13 ft	SubSurf (>2ft)	22 J	340 U	22 J	330 U	370	36 J	330 U	340 U	330 U	330 U	110 J	330 U	330 U	330 U	2000 U	300 J	330 U	410	
Main Former Mill	SR23	0.25-13 ft	SubSurf (>2ft)	330 U	330 U	170 J	330 U	400	240 J	330 U	340 U	330 U	330 U	360	330 U	330 U	330 U	2000 U	790	61 J	290 J	
Main Former Mill	SR24	0.25-16 ft	SubSurf (>2ft)	340 U	340 U	340 U	340 U	34 J	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	2100 U	37 J	340 U	24 J	
Main Former Mill	SSB-1	7-8.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	66 U	---	---	---	66 U	66 U	110 J	---	---	160	
Main Former Mill	SSB-1	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	43 U	---	---	---	43 U	43 U	27 R	---	---	85	
Main Former Mill	SSB-1	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	27 U	---	---	---	27 U	27 U	7.6 R	---	---	69	
Main Former Mill	SSB-1	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	7.6 U	---	---	7.7	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				Di-n-butylphthalate	Di-n-octylphthalate	Dibenzofuran	Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane*	Isophorone	Naphthalene	Nitrobenzene	n-Nitroso-di-n-propylamine*	n-Nitrosodiphenylamine*	Pentachlorophenol*	Phenanthrene	Phenol	Pyrene*
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				200000	NL	NL	200000	NL	30000	NL	10000	NL	NL	NL	40000	NL	20000	3000	NL	30000	NL
				8e+006	1.6e+006	160000	8e+007	3.2e+006	3.2e+006	13000	480000	71000	1.1e+006	1.6e+006	40000	140	200000	8300	NL	4.8e+007	2.4e+006
				100000	NL	NL	330000	89000	550000	19000	4.4e+006	130	3000	140000	2900	100	180	48	NL	5e+006	3.5e+006
Funct. Area	Loc ID	Depth	Zone																		
Main Former Mill	SSB-1	25-26.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	6.5 U	---	---	4.4 U
Main Former Mill	SSB-3	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	59 U	---	---	---	59 U	59 U	6.6 U	---	---	9.6
Main Former Mill	SSB-3	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.4 U	---	---	25
Main Former Mill	SSB-3	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.1 U	---	---	13
Main Former Mill	SSB-3	20-21.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	6.8 U	---	---	4.9 U
Main Former Mill	SSB-3	25-26.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	6.8 U	---	---	7.3
Main Former Mill	SSB-3	27-28.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	7.2 U	---	---	4.8 U
Main Former Mill	TB01	0-0.25 ft	Surf (0-2ft)	490 U	490 U	490 U	600	360 J	490 U	490 U	490 U	490 U	490 U	490 U	490 U	490 U	490 U	1200 U	330 J	490 U	320 J
Main Former Mill	TB02	0-0.25 ft	Surf (0-2ft)	350 U	---	190 J	160 J	6000 J	210 J	350 U	350 U	350 U	350 U	120 J	350 U	350 U	350 U	3900 J	3200 J	59 J	1.4e+007 J
Main Former Mill	TP-09	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	6.9 U	---	---	4.6 U
Main Former Mill	TP-09	3-3 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	7.3 U	---	---	110
Main Former Mill	TP-10	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	9.9 U	---	---	16
Main Former Mill	TP-10	3-3 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.3 U	---	---	4.9 U
Main Former Mill	TP-14	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	6.7 U	---	---	23
Main Former Mill	TP-14	3-3 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	65 U	---	---	---	65 U	65 U	12 U	---	---	130
Main Former Mill	TP-14	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	6.8 U	---	---	4.7 U
Main Former Mill	TP-21	3-3 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	10 U	---	---	11
North Shoreline	BS01	0-0.25 ft	Surf (0-2ft)	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	910 U	360 U	360 U	360 U
North Shoreline	BS02	0-0.25 ft	Surf (0-2ft)	390 U	390 U	320 J	390 U	810	490	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	980 U	1300	390 U	540
North Shoreline	CS20	0.25-9 ft	SubSurf (>2ft)	330 U	330 U	15 J	330 U	63 J	16 J	330 U	340 U	330 U	330 U	19 J	330 U	330 U	330 U	2000 U	67 J	330 U	43 J
North Shoreline	DK20	0.25-7 ft	SubSurf (>2ft)	330 U	330 U	330 U	330 U	330 U	330 U	330 U	340 U	330 U	330 U	330 U	330 U	330 U	330 U	2000 U	330 U	330 U	330 U
North Shoreline	PC02	0-0.25 ft	Surf (0-2ft)	430 U	430 U	430 U	430 U	430 U	430 U	430 U	---	430 U	430 U	430 U	430 U	430 U	430 U	1100 U	430 U	430 U	430 U
North Shoreline	PC20	0.25-11 ft	SubSurf (>2ft)	30 J	330 U	24 J	260 J	130 J	30 J	330 U	340 U	330 U	330 U	19 J	330 U	330 U	330 U	2000 U	100 J	330 U	110 J
NW Shoreline	GB01	0-2 ft	Surf (0-2ft)	600 U	600 U	600 U	200 J	340 J	600 U	600 U	600 U	600 U	600 U	70 J	600 U	600 U	600 U	1500 U	280 J	600 U	270 J
NW Shoreline	GB01	2-4 ft	SubSurf (>2ft)	450 U	450 U	450 U	450 U	85 J	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	1100 U	96 J	96 J	450 U
NW Shoreline	GB01	4-6 ft	SubSurf (>2ft)	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	970 U	380 U	380 U	380 U
NW Shoreline	GB04	0-2 ft	Surf (0-2ft)	920 U	920 U	920 U	920 U	160 J	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	920 U	110 J	160 J	920 U	140 J
NW Shoreline	GB05	0-2 ft	Surf (0-2ft)	1200 U	1200 U	1200 U	1200 U	1200 U	1200 U	1200 U	1200 U	1200 U	1200 U	1200 U	1200 U	1200 U	1200 U	3000 U	1200 U	1200 U	140 J
NW Shoreline	GB05	2-4 ft	SubSurf (>2ft)	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	990 U	390 U	390 U	390 U

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				Di-n-butylphthalate	Di-n-octylphthalate	Dibenzofuran	Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane*	Isophorone	Naphthalene	Nitrobenzene	n-Nitroso-di-n-propylamine*	n-Nitrosodiphenylamine*	Pentachlorophenol*	Phenanthrene	Phenol	Pyrene*	
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				200000	NL	NL	200000	NL	30000	NL	10000	NL	NL	NL	40000	NL	20000	3000	NL	30000	NL	2.4e+006
				8e+006	1.6e+006	160000	8e+007	3.2e+006	3.2e+006	13000	480000	71000	1.1e+006	1.6e+006	40000	140	200000	8300	NL	4.8e+007	2.4e+006	
				100000	NL	NL	330000	89000	550000	19000	4.4e+006	130	3000	140000	2900	100	180	48	NL	5e+006	3.5e+006	
Funct. Area	Loc ID	Depth	Zone																			
NW Shoreline	GB06	0-2 ft	Surf (0-2ft)	370 U	370 U	370 U	370 U	100 J	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	920 U	50 J	370 U	370 U	
NW Shoreline	GB07	0-2 ft	Surf (0-2ft)	390 U	390 U	390 U	390 U	90 J	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	990 U	84 J	390 U	390 U	
NW Shoreline	GB07	2-4 ft	SubSurf (>2ft)	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	890 U	350 U	350 U	350 U	
NW Shoreline	GB07	4-6 ft	SubSurf (>2ft)	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	910 U	360 U	360 U	360 U	
NW Shoreline	GB07	6-8 ft	SubSurf (>2ft)	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	930 U	41 J	370 U	370 U	
NW Shoreline	GB08	0-2 ft	Surf (0-2ft)	430 U	430 U	430 U	430 U	160 J	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	1100 U	78 J	430 U	110 J	
NW Shoreline	GB08	2-4 ft	SubSurf (>2ft)	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	910 U	360 U	360 U	360 U	
NW Shoreline	GB09	0-2 ft	Surf (0-2ft)	730 U	730 U	730 U	730 U	440 J	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	730 U	1800 U	200 J	730 U	790	
NW Shoreline	GB09	2-4 ft	SubSurf (>2ft)	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	860 U	340 U	340 U	340 U	
NW Shoreline	GB10	10-10 ft	SubSurf (>2ft)	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	920 U	370 U	370 U	370 U	
NW Shoreline	LY15	0-2 ft	Surf (0-2ft)	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	1300 U	500 U	500 U	500 U	
NW Shoreline	LY16	0-2 ft	Surf (0-2ft)	500 U	500 U	500 U	500 U	160 J	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	1300 U	150 J	500 U	140 J	
NW Shoreline	LY24	0-0.25 ft	Surf (0-2ft)	---	---	660 U	---	35 J	660 U	---	---	---	---	660 U	---	---	---	---	230 J	---	6600 U	
NW Shoreline	LY24	0.25-6.5 ft	SubSurf (>2ft)	---	---	330 U	---	18 J	330 U	---	---	---	---	330 U	---	---	---	---	34 J	---	19 J	
NW Shoreline	LY25	0-0.25 ft	Surf (0-2ft)	---	---	330 U	---	100 J	330 U	---	---	---	---	330 U	---	---	---	---	90 J	---	76 J	
NW Shoreline	LY25	0.25-8 ft	SubSurf (>2ft)	---	---	330 U	---	330 U	330 U	---	---	---	---	330 U	---	---	---	---	330 U	---	330 U	
NW Shoreline	MW-61	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	6.7 U	---	---	4.9 U	
NW Shoreline	MW-61	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.2 U	---	---	14 B	
NW Shoreline	MW-61	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.1 U	---	---	35 B	
NW Shoreline	MW-61	20-21.25 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.2 U	---	---	6.7 U	
NW Shoreline	MW-67	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6.4 U	---	---	4.7 U	
NW Shoreline	MW-67	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.4 U	---	---	4.6 U	
NW Shoreline	PA01	0-2 ft	Surf (0-2ft)	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	1000 U	400 U	400 U	400 U	
NW Shoreline	PA02	0-2 ft	Surf (0-2ft)	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	1100 U	420 U	420 U	420 U	
NW Shoreline	PA03	0-2 ft	Surf (0-2ft)	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	880 U	350 U	350 U	350 U	
NW Shoreline	PA04	0-2 ft	Surf (0-2ft)	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	860 U	340 U	340 U	340 U	
NW Shoreline	PA04	2-4 ft	SubSurf (>2ft)	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	860 U	340 U	340 U	340 U	
NW Shoreline	PA04	4-6 ft	SubSurf (>2ft)	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	880 U	350 U	350 U	350 U	
Prefab	PF02	0-2 ft	Surf (0-2ft)	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	1100 U	420 U	420 U	420 U	
Prefab	PF02	2-4 ft	SubSurf (>2ft)	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	1100 U	450 U	450 U	450 U	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				Di-n-butylphthalate	Di-n-octylphthalate	Dibenzofuran	Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane*	Isophorone	Naphthalene	Nitrobenzene	n-Nitroso-di-n-propylamine*	n-Nitrosodiphenylamine*	Pentachlorophenol*	Phenanthrene	Phenol	Pyrene*	
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				200000	NL	NL	200000	NL	30000	NL	10000	NL	NL	NL	40000	NL	20000	3000	NL	30000	NL	NL
				8e+006	1.6e+006	160000	8e+007	3.2e+006	3.2e+006	13000	480000	71000	1.1e+006	1.6e+006	40000	140	200000	8300	NL	4.8e+007	2.4e+006	
				100000	NL	NL	330000	89000	550000	19000	4.4e+006	130	3000	140000	2900	100	180	48	NL	5e+006	3.5e+006	
Funct. Area	Loc ID	Depth	Zone																			
Prefab	PF03	0-2 ft	Surf (0-2ft)	410 U	410 U	410 U	410 U	42 J	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	1000 U	410 U	410 U	50 J	
Prefab	PF03	2-4 ft	SubSurf (>2ft)	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	1100 U	420 U	420 U	420 U	
Prefab	PF03	4-6 ft	SubSurf (>2ft)	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	
Prefab	PF03	6-8 ft	SubSurf (>2ft)	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	440 U	1100 U	440 U	440 U	440 U	
Prefab	PF03	8-10 ft	SubSurf (>2ft)	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	1100 U	450 U	450 U	450 U	
Prefab	PF03	16-18 ft	SubSurf (>2ft)	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	940 U	370 U	370 U	370 U	
West Former Mill	BP20	0.25-8 ft	SubSurf (>2ft)	330 U	340 U	330 U	330 U	60 J	330 U	330 U	340 U	330 U	330 U	330 U	330 U	330 U	330 U	2000 U	49 J	330 U	57 J	
West Former Mill	FOT-EX-1	9.5-9.5 ft	SubSurf (>2ft)	---	---	---	---	8.2 U	8.2 U	---	---	---	---	8.2 U	---	---	---	---	8.2 U	---	8.2 U	
West Former Mill	FOT-EX-10	11.5-11.5 ft	SubSurf (>2ft)	---	---	---	---	7.6 U	7.6 U	---	---	---	---	7.6 U	---	---	---	---	11	---	8.1	
West Former Mill	FOT-EX-11	9-9 ft	SubSurf (>2ft)	---	---	---	---	7.3 U	7.3 U	---	---	---	---	7.3 U	---	---	---	---	7.3 U	---	7.3 U	
West Former Mill	FOT-EX-14	9-9 ft	SubSurf (>2ft)	---	---	---	---	7.3 U	7.3 U	---	---	---	---	7.3 U	---	---	---	---	7.3 U	---	7.3 U	
West Former Mill	FOT-EX-15	11-11 ft	SubSurf (>2ft)	---	---	---	---	7.5 U	7.5 U	---	---	---	---	7.5 U	---	---	---	---	7.5 U	---	7.5 U	
West Former Mill	FOT-EX-16	8-8 ft	SubSurf (>2ft)	---	---	---	---	7.8 U	7.8 U	---	---	---	---	7.8 U	---	---	---	---	7.8 U	---	16	
West Former Mill	FOT-EX-17	3-3 ft	SubSurf (>2ft)	---	---	---	---	160	9.4 U	---	---	---	---	9.4 U	---	---	---	---	50	---	180	
West Former Mill	FOT-EX-18	7-7 ft	SubSurf (>2ft)	---	---	---	---	6.9 U	6.9 U	---	---	---	---	6.9 U	---	---	---	---	6.9 U	---	6.9 U	
West Former Mill	FOT-EX-19	9-9 ft	SubSurf (>2ft)	---	---	---	---	8 U	8 U	---	---	---	---	8 U	---	---	---	---	8 U	---	8 U	
West Former Mill	FOT-EX-2	9-9 ft	SubSurf (>2ft)	---	---	---	---	7.2 U	7.2 U	---	---	---	---	7.2 U	---	---	---	---	7.2 U	---	7.2 U	
West Former Mill	FOT-EX-20	7-7 ft	SubSurf (>2ft)	---	---	---	---	7.5 U	7.5 U	---	---	---	---	7.5 U	---	---	---	---	7.5 U	---	7.5 U	
West Former Mill	FOT-EX-21	7-7 ft	SubSurf (>2ft)	---	---	---	---	7.1 U	7.1 U	---	---	---	---	7.1 U	---	---	---	---	7.1 U	---	7.1 U	
West Former Mill	FOT-EX-22	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
West Former Mill	FOT-EX-22	5-5 ft	SubSurf (>2ft)	---	---	---	---	11	7.2 U	---	---	---	---	7.2 U	---	---	---	---	12	---	18	
West Former Mill	FOT-EX-23	5-5 ft	SubSurf (>2ft)	---	---	---	---	8.1	7.1 U	---	---	---	---	7.1 U	---	---	---	---	7.1 U	---	9.1	
West Former Mill	FOT-EX-24	5-5 ft	SubSurf (>2ft)	---	---	---	---	64	6.9 U	---	---	---	---	6.9 U	---	---	---	---	40	---	56	
West Former Mill	FOT-EX-25	5-5 ft	SubSurf (>2ft)	---	---	---	---	10	7.4 U	---	---	---	---	7.4 U	---	---	---	---	10	---	9	
West Former Mill	FOT-EX-26	5-5 ft	SubSurf (>2ft)	---	---	---	---	23	7.1 U	---	---	---	---	8.8	---	---	---	---	37	---	30	
West Former Mill	FOT-EX-27	8-8 ft	SubSurf (>2ft)	---	---	---	---	8	7.8 U	---	---	---	---	7.8 U	---	---	---	---	12	---	9.5	
West Former Mill	FOT-EX-3	11-11 ft	SubSurf (>2ft)	---	---	---	---	51	28	---	---	---	---	8.3 U	---	---	---	---	170	---	390	
West Former Mill	FOT-EX-4	8-8 ft	SubSurf (>2ft)	---	---	---	---	7.8 U	7.8 U	---	---	---	---	7.8 U	---	---	---	---	7.8 U	---	7.8 U	
West Former Mill	FOT-EX-5	15-15 ft	SubSurf (>2ft)	---	---	---	---	8.3 U	8.3 U	---	---	---	---	8.3 U	---	---	---	---	8.3 U	---	8.3 U	
West Former Mill	HF01	0-2 ft	Surf (0-2ft)	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				Di-n-butylphthalate	Di-n-octylphthalate	Dibenzofuran	Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane*	Isophorone	Naphthalene	Nitrobenzene	n-Nitroso-di-n-propylamine*	n-Nitrosodiphenylamine*	Pentachlorophenol*	Phenanthrene	Phenol	Pyrene*	
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				200000	NL	NL	200000	NL	30000	NL	10000	NL	NL	NL	40000	NL	20000	3000	NL	30000	NL	
				8e+006	1.6e+006	160000	8e+007	3.2e+006	3.2e+006	13000	480000	71000	1.1e+006	1.6e+006	40000	140	200000	8300	NL	4.8e+007	2.4e+006	
				100000	NL	NL	330000	89000	550000	19000	4.4e+006	130	3000	140000	2900	100	180	48	NL	5e+006	3.5e+006	
Funct. Area	Loc ID	Depth	Zone																			
West Former Mill	HF01	2-4 ft	SubSurf (>2ft)	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	49 J	450 U	450 U	450 U	1100 U	450 U	450 U	450 U	
West Former Mill	HF02	0-2 ft	Surf (0-2ft)	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	980 U	390 U	390 U	390 U	
West Former Mill	HF02	2-4 ft	SubSurf (>2ft)	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	920 U	370 U	370 U	370 U	
West Former Mill	HF03	0-2 ft	Surf (0-2ft)	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	930 U	370 U	370 U	370 U	
West Former Mill	HF03	2-4 ft	SubSurf (>2ft)	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	
West Former Mill	HF04	0-2 ft	Surf (0-2ft)	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	1000 U	70 J	400 U	400 U	
West Former Mill	HF04	2-4 ft	SubSurf (>2ft)	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	420 U	1100 U	420 U	420 U	420 U	
West Former Mill	HF05	0-2 ft	Surf (0-2ft)	400 U	400 U	400 U	400 U	150 J	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	1000 U	160 J	400 U	400 U	
West Former Mill	HF05	2-4 ft	SubSurf (>2ft)	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	
West Former Mill	HF06	0-2 ft	Surf (0-2ft)	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	1000 U	410 U	410 U	410 U	
West Former Mill	HF06	2-4 ft	SubSurf (>2ft)	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	980 U	390 U	390 U	390 U	
West Former Mill	HF07	0-2 ft	Surf (0-2ft)	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	940 U	170 J	370 U	160 J	
West Former Mill	HF07	2-4 ft	SubSurf (>2ft)	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	360 U	910 U	360 U	360 U	360 U	
West Former Mill	HF08	0-2 ft	Surf (0-2ft)	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	920 U	43 J	370 U	370 U	
West Former Mill	HF08	2-4 ft	SubSurf (>2ft)	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	940 U	370 U	370 U	370 U	
West Former Mill	HF09	0-2 ft	Surf (0-2ft)	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	950 U	380 U	380 U	380 U	
West Former Mill	HF09	2-4 ft	SubSurf (>2ft)	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	920 U	370 U	370 U	370 U	
West Former Mill	MW-60	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	59 U	---	---	---	59 U	59 U	260	---	---	230 B	
West Former Mill	MW-60	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	570 U	---	---	---	570 U	570 U	8.3 U	---	---	15000 J	
West Former Mill	MW-60	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	59 U	---	---	---	59 U	59 U	7.6 U	---	---	680 B	
West Former Mill	MW-60	20-20.75 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.1 U	---	---	54 B	
West Former Mill	MW-60	23-24.4 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	7.3 U	---	---	5.4 U	
West Former Mill	MW-68	5.5-6 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	110	
West Former Mill	MW-68	13-14 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19	
West Former Mill	MW-68	55-55 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.4 U	---	---	4.9 U	
West Former Mill	PS20	0.25-6.5 ft	SubSurf (>2ft)	330 U	330 U	330 U	330 U	330 U	330 U	330 U	340 U	330 U	330 U	330 U	330 U	330 U	330 U	2000 U	330 U	330 U	330 U	
West Former Mill	RB01	0-0.25 ft	Surf (0-2ft)	700 U	700 U	980	270 J	6700 J	1300	700 U	700 U	700 U	700 U	1800	700 U	700 U	700 U	460 J	6100 J	350 J	5000	
West Former Mill	RB01	0.25-7 ft	SubSurf (>2ft)	330 U	250 J	870	330 U	1300	1200	330 U	340 U	330 U	330 U	2100	330 U	330 U	2000 U	3200	53 J	1300		
West Former Mill	RB02	0-0.25 ft	Surf (0-2ft)	790 U	790 U	790 U	790 U	570 J	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	790 U	100 J	480 J	790 U	490 J	
West Former Mill	RB03	0-2 ft	Surf (0-2ft)	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	890 U	350 U	350 U	350 U	

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				Di-n-butylphthalate	Di-n-octylphthalate	Dibenzofuran	Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane*	Isophorone	Naphthalene	Nitrobenzene	n-Nitroso-di-n-propylamine*	n-Nitrosodiphenylamine*	Pentachlorophenol*	Phenanthrene	Phenol	Pyrene*	
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				200000	NL	NL	200000	NL	30000	NL	10000	NL	NL	NL	40000	NL	20000	3000	NL	30000	NL	2.4e+006
				8e+006	1.6e+006	160000	8e+007	3.2e+006	3.2e+006	13000	480000	71000	1.1e+006	1.6e+006	40000	140	200000	8300	NL	4.8e+007	2.4e+006	
				100000	NL	NL	330000	89000	550000	19000	4.4e+006	130	3000	140000	2900	100	180	48	NL	5e+006	3.5e+006	
Funct. Area	Loc ID	Depth	Zone																			
West Former Mill	RB03	8-10 ft	SubSurf (>2ft)	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U	430 U
West Former Mill	RB04	0-2 ft	Surf (0-2ft)	370 U	370 U	370 U	370 U	120 J	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	370 U	940 U	140 J	370 U	370 U	150 J
West Former Mill	RB04	4-6 ft	SubSurf (>2ft)	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U	890 U	350 U	350 U	350 U	350 U
West Former Mill	RB04	8-10 ft	SubSurf (>2ft)	380 U	380 U	380 U	380 U	43 J	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	380 U	970 U	380 U	380 U	380 U	380 U
West Former Mill	RB20	0.25-8 ft	SubSurf (>2ft)	340 U	340 U	340 U	340 U	330 J	19 J	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	2100 U	220 J	340 U	340 U	290 J
West Former Mill	RB21	0.25-8 ft	SubSurf (>2ft)	330 U	670 U	1100	330 U	1500	1400	330 U	340 U	330 U	330 U	2300	330 U	330 U	330 U	2000 U	3800	330 U	330 U	2000
West Former Mill	SSB-2	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	63 U	---	---	---	63 U	63 U	7.9 U	---	---	---	160
West Former Mill	SSB-2	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	64 U	---	---	---	64 U	---	8 U	---	---	---	270 J
West Former Mill	SSB-2	5-6.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	---	---	---	---	---	20 U	8.6 U	---	---	---	44 J
West Former Mill	SSB-2	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	7 U	---	---	---	7
West Former Mill	SSB-2	15-16.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	7.2 U	---	---	---	17
West Former Mill	SSB-2	20-20.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.4 U	---	---	---	5
West Former Mill	SSB-7	2-3.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	6.4 U	---	---	---	280
West Former Mill	SSB-7	10-11.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	6.9 U	---	---	---	48
West Former Mill	SSB-7	20-21.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	6.6 U	---	---	---	4.6 U
West Former Mill	SSB-7	25-26.5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7 U	---	---	---	13
West Former Mill	SSB-7	30-30.75 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	7 U	---	---	---	4.6 U
West Former Mill	TP-01	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	6.9 U	---	---	---	46
West Former Mill	TP-01	8-8 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	8.2 U	---	---	---	83
West Former Mill	TP-02	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7 U	---	---	---	24 U
West Former Mill	TP-02	8-8 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	180 UIJ	---	---	---	180 UIJ	180 UIJ	6.9 U	---	---	---	86 NJ
West Former Mill	TP-02	8-8 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	550 UIJ	---	---	---	550 UIJ	550 UIJ	6.7 U	---	---	---	100 NJ
West Former Mill	TP-03	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.1 U	---	---	---	39
West Former Mill	TP-03	4-4 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.4 U	---	---	---	540
West Former Mill	TP-03	7-7 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	38 U	---	---	---	38 U	38 U	8.4 U	---	---	---	380
West Former Mill	TP-04	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.6 U	---	---	---	15
West Former Mill	TP-04	7-7 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	12 U	---	---	---	4.9 U
West Former Mill	TP-05	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	6.4 U	---	---	---	4.9 U
West Former Mill	TP-05	6-6 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	8.3 U	---	---	---	13
West Former Mill	TP-06	3-3 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	6.5 U	---	---	---	10

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				Di-n-butylphthalate	Di-n-octylphthalate	Dibenzofuran	Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane*	Isophorone	Naphthalene	Nitrobenzene	n-Nitroso-di-n-propylamine*	n-Nitrosodiphenylamine*	Pentachlorophenol*	Phenanthrene	Phenol	Pyrene*	
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				200000	NL	NL	200000	NL	30000	NL	10000	NL	NL	NL	40000	40000	NL	20000	3000	NL	30000	NL
				8e+006	1.6e+006	160000	8e+007	3.2e+006	3.2e+006	13000	480000	71000	1.1e+006	1.6e+006	40000	140	200000	8300	NL	4.8e+007	2.4e+006	
				100000	NL	NL	330000	89000	550000	19000	4.4e+006	130	3000	140000	2900	100	180	48	NL	5e+006	3.5e+006	
Funct. Area	Loc ID	Depth	Zone																			
West Former Mill	TP-06	7-7 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	6.9 U	---	---	---	19
West Former Mill	TP-07	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	9.9	---	---	---	20
West Former Mill	TP-07	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	19 U	---	---	---	19 U	19 U	10	---	---	---	21
West Former Mill	TP-07	6-6 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	9.8 U	---	---	---	4.9 U
West Former Mill	TP-08	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	15 U	---	---	---	63
West Former Mill	TP-08	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.3 U	---	---	---	4.9 U
West Former Mill	TP-11	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	16	---	---	---	120
West Former Mill	TP-11	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	72 U	---	---	---	72 U	72 U	9.2 U	---	---	---	160 J
West Former Mill	TP-11	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	67 U	---	---	---	67 U	67 U	9.1 U	---	---	---	150
West Former Mill	TP-12	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	67 U	---	---	---	67 U	67 U	53 UI	---	---	---	1800
West Former Mill	TP-12	4-4 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	62 U	---	---	---	62 U	62 U	230	---	---	---	1500
West Former Mill	TP-15	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	85 U	---	---	---	85 U	85 U	52 UI	---	---	---	91
West Former Mill	TP-15	4-4 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	7.8 U	---	---	---	190
West Former Mill	TP-16	2-2 ft	Surf (0-2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	6.8 U	---	---	---	4.6 U
West Former Mill	TP-16	5-5 ft	SubSurf (>2ft)	---	---	---	---	---	---	---	---	20 U	---	---	---	20 U	20 U	6.6 U	---	---	---	4.6 U
West Former Mill	WM21	0-0.25 ft	Surf (0-2ft)	---	---	330 U	---	330 U	330 U	---	---	---	---	330 U	---	---	---	---	330 U	---	---	330 U
West Former Mill	WM21	0.25-9.5 ft	SubSurf (>2ft)	320 U	320 U	320 U	320 U	320 U	320 U	320 U	320 U	320 U	320 U	320 U	320 U	320 U	320 U	1900 U	19 J	320 U	---	25 J
West Former Mill	WM-EX-1	8-8 ft	SubSurf (>2ft)	---	---	---	---	12	7.3 U	---	---	---	---	7.3 U	---	---	---	---	---	10	---	14
West Former Mill	WM-EX-10	16-16 ft	SubSurf (>2ft)	---	---	---	---	210	35	---	---	---	---	19	---	---	---	---	110	---	---	150
West Former Mill	WM-EX-10	16-16 ft	SubSurf (>2ft)	---	---	---	---	1800	320	---	---	---	---	210	---	---	---	---	1400	---	---	1200
West Former Mill	WM-EX-11	17-17 ft	SubSurf (>2ft)	---	---	---	---	31	95	---	---	---	---	23	---	---	---	---	31	---	---	23
West Former Mill	WM-EX-12	8-8 ft	SubSurf (>2ft)	---	---	---	---	140	14	---	---	---	---	17	---	---	---	---	69	---	---	110
West Former Mill	WM-EX-13	9-9 ft	SubSurf (>2ft)	---	---	---	---	120	7.9 U	---	---	---	---	7.9 U	---	---	---	---	33	---	---	160
West Former Mill	WM-EX-14	14-14 ft	SubSurf (>2ft)	---	---	---	---	7.5 U	7.5 U	---	---	---	---	7.5 U	---	---	---	---	7.5 U	---	---	7.5 U
West Former Mill	WM-EX-15	14-14 ft	SubSurf (>2ft)	---	---	---	---	150	14	---	---	---	---	10	---	---	---	---	56	---	---	260
West Former Mill	WM-EX-16	14-14 ft	SubSurf (>2ft)	---	---	---	---	1200	250	---	---	---	---	170	---	---	---	---	990	---	---	1300
West Former Mill	WM-EX-17	14-14 ft	SubSurf (>2ft)	---	---	---	---	34	20	---	---	---	---	9.6	---	---	---	---	27	---	---	22
West Former Mill	WM-EX-18	9-9 ft	SubSurf (>2ft)	---	---	---	---	510	150	---	---	---	---	33	---	---	---	---	410	---	---	430
West Former Mill	WM-EX-2	11-11 ft	SubSurf (>2ft)	---	---	---	---	66	7.5 U	---	---	---	---	10	---	---	---	---	23	---	---	110
West Former Mill	WM-EX-3	10-10 ft	SubSurf (>2ft)	---	---	---	---	35	7.5 U	---	---	---	---	7.5 U	---	---	---	---	13	---	---	50

**Semi-Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

				Di-n-butylphthalate	Di-n-octylphthalate	Dibenzofuran	Dimethylphthalate	Fluoranthene	Fluorene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane*	Isophorone	Naphthalene	Nitrobenzene	n-Nitroso-di-n-propylamine*	n-Nitrosodiphenylamine*	Pentachlorophenol*	Phenanthrene	Phenol	Pyrene*	
				(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
				200000	NL	NL	200000	NL	30000	NL	10000	NL	NL	NL	NL	40000	20000	3000	NL	30000	NL	NL
				8e+006	1.6e+006	160000	8e+007	3.2e+006	3.2e+006	13000	480000	71000	1.1e+006	1.6e+006	40000	140	200000	8300	NL	4.8e+007	2.4e+006	NL
				100000	NL	NL	330000	89000	550000	19000	4.4e+006	130	3000	140000	2900	100	180	48	NL	5e+006	3.5e+006	3.5e+006
Funct. Area	Loc ID	Depth	Zone																			
West Former Mill	WM-EX-4	13-13 ft	SubSurf (>2ft)	---	---	---	---	13	7.7 U	---	---	---	---	7.7 U	---	---	---	---	10	---	---	19
West Former Mill	WM-EX-5	16-16 ft	SubSurf (>2ft)	---	---	---	---	110	27	---	---	---	---	19	---	---	---	---	26	---	---	74
West Former Mill	WM-EX-6	9-9 ft	SubSurf (>2ft)	---	---	---	---	71	45	---	---	---	---	14	---	---	---	---	95	---	---	44
West Former Mill	WM-EX-7	8.5-8.5 ft	SubSurf (>2ft)	---	---	---	---	210	12	---	---	---	---	8.4	---	---	---	---	54	---	---	130
West Former Mill	WM-EX-8	15-15 ft	SubSurf (>2ft)	---	---	---	---	72	7.7	---	---	---	---	7.3 U	---	---	---	---	12	---	---	42
West Former Mill	WM-EX-9	10-10 ft	SubSurf (>2ft)	---	---	---	---	7.8 U	7.8 U	---	---	---	---	7.8 U	---	---	---	---	7.8 U	---	---	7.8 U

**Total Petroleum Hydrocarbons in Soil
Port Angeles Rayonier Mill Uplands Study Area**

							Parameter	Gasoline-range TPH*	Diesel-range TPH*	Fuel oil-range TPH*	Heavy oil-range TPH*
							Units	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
							MTCA Ecological ISC	100	200	200	200
							MTCA Method B Protective of HH (SFV)	30	2000	2000	2000
							MTCA Method B Protective of GW as MSW	30	2000	2000	2000
Funct. Area	Loc ID	Depth	Depth Zone	Date	Sample ID	Type					
City Purchase	GWG-8	2-3.5 ft	SubSurf (>2ft)	10/28/2010	DUPE3-102810	FD	---	7.2	---	42	
City Purchase	GWG-8	2-3.5 ft	SubSurf (>2ft)	10/28/2010	GWG-8-2-3.5	N	---	5.4 U	---	16	
City Purchase	GWG-8	10-11.5 ft	SubSurf (>2ft)	10/28/2010	GWG-8-10-11.5	N	---	6.1 U	---	12 U	
City Purchase	GWG-8	15-16.5 ft	SubSurf (>2ft)	10/28/2010	GWG-8-15-16.5	N	---	5.9 U	---	12 U	
CSO	FOT-EX-12	6-6 ft	SubSurf (>2ft)	8/3/2006	FOT-EX-12-[080306]-6.0	N	---	25 U	40 U	80 U	
CSO	FOT-EX-13	13-13 ft	SubSurf (>2ft)	8/3/2006	FOT-EX-13-[080306]-13.0	N	---	25 U	40 U	80 U	
CSO	FOT-EX-28	8-8 ft	SubSurf (>2ft)	8/9/2006	WM-EX-28-[080906]-8.0	N	---	25 U	40 U	80 U	
CSO	FOT-EX-6	3-3 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-6-[080206]-3.0	N	---	25 U	40 U	80 U	
CSO	FOT-EX-7	3-3 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-7-[080206]-3.0	N	---	25 U	40 U	80 U	
CSO	FOT-EX-8	8-8 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-8-[080206]-8.0	N	---	25 U	40 U	80 U	
CSO	FOT-EX-9	6-6 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-9-[080206]-6.0	N	---	25 U	40 U	80 U	
CSO	GWG-6	2-3.5 ft	SubSurf (>2ft)	11/2/2010	GWG-6-2-3.5	N	---	58	---	200	
CSO	GWG-6	5-6.5 ft	SubSurf (>2ft)	11/2/2010	GWG-6-5-6.5	N	---	6 U	---	12 U	
CSO	GWG-6	10-11.5 ft	SubSurf (>2ft)	11/2/2010	GWG-6-10-11.5	N	---	6.2 U	---	12 U	
CSO	MW-70	2-3.5 ft	SubSurf (>2ft)	5/6/2011	MW70-2-3.5	N	6.5 U	5.9 U	---	12 U	
CSO	MW-70	5-6.5 ft	SubSurf (>2ft)	5/6/2011	MW70-5-6.5	N	6.3 U	5.7 U	---	11 U	
CSO	MW-70	10-11.5 ft	SubSurf (>2ft)	5/6/2011	MW70-10-11.5	N	7.1 U	6.3 U	---	13 U	
CSO	MW-70	15-16.5 ft	SubSurf (>2ft)	5/6/2011	MW70-15-16.5	N	5.8 U	5.4 U	---	11 U	
CSO	MW-70	20-21.5 ft	SubSurf (>2ft)	5/6/2011	MW70-20-21.5	N	5.7 U	5.8 U	---	12 U	
East Former Mill	GWG-7	2-3.5 ft	SubSurf (>2ft)	11/2/2010	GWG-7-2-3.5	N	---	6.3 U	---	20	
East Former Mill	GWG-7	5-6.5 ft	SubSurf (>2ft)	11/2/2010	GWG-7-5-6.5	N	---	6.5 U	---	13 U	
East Former Mill	GWG-7	7-8.5 ft	SubSurf (>2ft)	11/2/2010	GWG-7-7-8.5	N	---	6.2 U	---	12 U	
Estuary	EC-11	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-020	N	---	28 U	---	12 J	
Estuary	EC-11	0-1 ft	Surf (0-2ft)	6/25/2002	KWG0204679-2	FD	---	30 U	---	19	
Estuary	EC-15	0-1 ft	Surf (0-2ft)	6/25/2002	K2205252-001	N	---	38 J	---	260	
Estuary	EC-15	0-1 ft	Surf (0-2ft)	6/25/2002	K2205252-001-FD	FD	---	36 J	---	130 J	
Estuary	EC-15	1-2 ft	Surf (0-2ft)	6/25/2002	K2205252-002	N	---	26 J	---	200 J	
Estuary	EC-17	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-035	N	---	6.2 J	---	34	
Estuary	EC-18	1-2 ft	Surf (0-2ft)	6/25/2002	K2204294-036	N	---	6.2 J	---	29	
Estuary	EC-18	2-3 ft	SubSurf (>2ft)	6/25/2002	K2204294-039	N	---	38	---	120	
Estuary	EC-19	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-040	N	---	16 J	---	77	
Estuary	EC-21	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-045	N	---	28 U	---	16	
Estuary	EC-22	0-0.5 ft	Surf (0-2ft)	6/25/2002	K2204294-046	N	---	27 J	---	160	
Estuary	EC-22	0-0.5 ft	Surf (0-2ft)	6/25/2002	KWG0204724-3	FD	---	21	---	150	
Estuary	EC-22	2-3 ft	SubSurf (>2ft)	6/25/2002	K2204294-051	N	---	29 U	---	18	
Estuary	EC-3	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-003	N	---	26 U	---	10 J	
Estuary	EC-3	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-003DUP	FD	---	26 U	---	7.9 J	
Estuary	EC-5	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-007	N	---	29 U	---	21	
Estuary	EC-7	0-1 ft	Surf (0-2ft)	6/25/2002	K2204294-012	N	---	26 U	---	18	
Estuary	FW0054	4.5-4.5 ft	SubSurf (>2ft)	8/9/2002	K2205480-003	N	---	240	---	440	
Estuary	FW0055	1-1 ft	Surf (0-2ft)	8/9/2002	K2205480-004	N	---	8.6 J	---	31 J	
Estuary	FW0056	1-1 ft	Surf (0-2ft)	8/10/2002	K2205480-005	N	---	29 U	---	19 J	
Estuary	FW0057	4.5-4.5 ft	SubSurf (>2ft)	8/10/2002	K2205480-006	N	---	100	---	250	
Estuary	FW0058	1-1 ft	Surf (0-2ft)	8/10/2002	K2205480-007	N	---	30 U	---	23 J	
Estuary	FW0059	4.5-4.5 ft	SubSurf (>2ft)	8/10/2002	K2205480-008	N	---	340	---	1700	
Estuary	FW0061	1-1 ft	Surf (0-2ft)	8/10/2002	K2205480-010	N	---	48	---	350	
Estuary	FW0062	1-1 ft	Surf (0-2ft)	8/12/2002	K2205480-011	N	---	130	---	600	
Estuary	FW0063	4.5-4.5 ft	SubSurf (>2ft)	8/12/2002	K2205480-012	N	---	140	---	170	
Estuary	FW0064	1-1 ft	Surf (0-2ft)	8/12/2002	K2205480-013	N	---	8.8 J	---	57 J	
Estuary	FW0065	4.5-4.5 ft	SubSurf (>2ft)	8/12/2002	K2205480-014	N	---	300	---	470	
Estuary	FW0067	1-1 ft	Surf (0-2ft)	8/12/2002	K2205480-016	N	---	1100	---	3000	
Estuary	FW0067	1-1 ft	Surf (0-2ft)	8/12/2002	KWG0206007-2	FD	---	1100	---	3000	
Estuary	FW0068	4.5-4.5 ft	SubSurf (>2ft)	8/12/2002	K2205480-017	N	---	380	---	1000	
Estuary	FW0069	1-1 ft	Surf (0-2ft)	8/12/2002	K2205480-018	N	---	26 J	---	68 J	
Estuary	FW0070	1-1 ft	Surf (0-2ft)	8/12/2002	FW0070	N	---	1300	---	6600	

**Total Petroleum Hydrocarbons in Soil
Port Angeles Rayonier Mill Uplands Study Area**

							Gasoline-range TPH*	Diesel-range TPH*	Fuel oil-range TPH*	Heavy oil-range TPH*
Parameter							(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Units							100	200	200	200
MTCA Ecological ISC							30	2000	2000	2000
MTCA Method B Protective of HH (SFV)							30	2000	2000	2000
MTCA Method B Protective of GW as MSW							30	2000	2000	2000
Funct. Area	Loc ID	Depth	Depth Zone	Date	Sample ID	Type				
Estuary	FW0070	1-1 ft	Surf (0-2ft)	8/12/2002	FW0070-FD	FD	---	1200	---	6600
Estuary	MW-62	2-3.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-2-3.5	N	---	5.4 U	---	11 U
Estuary	MW-62	5-6.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-5-6.5	N	---	5.2 U	---	10 U
Estuary	MW-62	10-11.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-10-11.5	N	---	5.7 U	---	11 U
Estuary	MW-62	15-16.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-15-16.5	N	---	5.4 U	---	11 U
Estuary	MW-62	20-21.25 ft	SubSurf (>2ft)	10/20/2010	MW-62-20-21.5	N	---	5.8 U	---	12 U
Estuary	MW-62	25-26.5 ft	SubSurf (>2ft)	10/20/2010	MW-62-25-26.5	N	---	6.1 U	---	12 U
Estuary	WEC-1	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	NORTH WALL-3	N	---	---	---	590
Estuary	WEC-10	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 2-3-(2)	N	---	---	---	180
Estuary	WEC-11	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 2-2-(2)	N	---	---	---	65
Estuary	WEC-12	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 1-3-(2)	N	---	---	---	670
Estuary	WEC-13	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	WEST WALL-8	N	---	---	---	40 U
Estuary	WEC-14	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 4-4-(1)	N	---	---	---	58
Estuary	WEC-15	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 4-1-(3)	N	---	---	---	40 U
Estuary	WEC-16	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 3-4-(3)	N	---	---	---	220
Estuary	WEC-17	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 3-1-(3)	N	---	---	---	480
Estuary	WEC-18	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	WEST WALL-9	N	---	---	---	30
Estuary	WEC-19	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 4-5-(1)	N	---	---	---	150
Estuary	WEC-2	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	NORTH WALL-2	N	---	---	---	40 U
Estuary	WEC-20	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 3-5-(3)	N	---	---	---	45
Estuary	WEC-21	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 4-3-(1)	N	---	---	---	40 U
Estuary	WEC-22	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 4-2-(3)	N	---	---	---	300
Estuary	WEC-23	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 3-3-(2)	N	---	---	---	40 U
Estuary	WEC-24	6-6 ft	SubSurf (>2ft)	10/13/1998	COMP 3-2-(2)	N	---	---	---	640
Estuary	WEC-25	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	WEST WALL-10	N	---	---	---	40 U
Estuary	WEC-26	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 6-4-(1)	N	---	---	---	320
Estuary	WEC-27	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 6-1-(2)	N	---	---	---	230
Estuary	WEC-28	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 5-4-(1)	N	---	---	---	790
Estuary	WEC-29	6-6 ft	SubSurf (>2ft)	10/13/1998	COMP 5-1-(3)	N	---	---	---	670
Estuary	WEC-3	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	NORTH WALL-1	N	---	---	---	40 U
Estuary	WEC-30	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	WEST WALL-11	N	---	---	---	850
Estuary	WEC-31	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 6-5-(1)	N	---	---	---	40 U
Estuary	WEC-32	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 5-5-(2)	N	---	---	---	1100
Estuary	WEC-33	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 6-3-(3)	N	---	---	---	40 U
Estuary	WEC-34	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 6-2-(3)	N	---	---	---	40 U
Estuary	WEC-35	6-6 ft	SubSurf (>2ft)	10/13/1998	COMP 5-3-(2)	N	---	---	---	410
Estuary	WEC-36	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	COMP 5-2-(2)	N	---	---	---	420
Estuary	WEC-38	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 8-4-(1)	N	---	---	---	71
Estuary	WEC-39	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 8-1-(1)	N	---	---	---	40 U
Estuary	WEC-4	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 2-4	N	---	---	---	40 U
Estuary	WEC-40	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 7-4-2	N	---	---	---	40 U
Estuary	WEC-41	6-6 ft	SubSurf (>2ft)	10/13/1998	COMP 7-1-(2)	N	---	---	---	140
Estuary	WEC-42	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	S-WALL-11	N	---	---	---	120
Estuary	WEC-43	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	S-WALL-10	N	---	---	---	40 U
Estuary	WEC-44	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	S-WALL-12	N	---	---	---	40 U
Estuary	WEC-45	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 7-3-(A)	N	---	---	---	40 U
Estuary	WEC-46	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	S-WALL-8	N	---	---	---	40 U
Estuary	WEC-47	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 7-5-(2)	N	---	---	---	40 U
Estuary	WEC-5	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 2-1-(2)	N	---	---	---	40 U
Estuary	WEC-6	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 1-4-(2)	N	---	---	---	650
Estuary	WEC-7	1.5-1.5 ft	Surf (0-2ft)	10/13/1998	WEST WALL -1	N	---	---	---	1050
Estuary	WEC-8	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 2-5	N	---	---	---	115
Estuary	WEC-9	3-3 ft	SubSurf (>2ft)	10/13/1998	COMP 1-5-(3)	N	---	---	---	800
Main Former Mill	GWG-4	8-9.5 ft	SubSurf (>2ft)	11/1/2010	GWG-4-8-9.5	N	---	5.8 U	---	21
Main Former Mill	GWG-4	10-11.5 ft	SubSurf (>2ft)	11/2/2010	GWG-4-10-11.5	N	---	9.2	---	24
Main Former Mill	GWG-4	15-16.5 ft	SubSurf (>2ft)	11/2/2010	GWG-4-15-16.5	N	---	5.6 U	---	11 U

**Total Petroleum Hydrocarbons in Soil
Port Angeles Rayonier Mill Uplands Study Area**

							Parameter	Gasoline-range TPH*	Diesel-range TPH*	Fuel oil-range TPH*	Heavy oil-range TPH*
							Units	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
							MTCA Ecological ISC	100	200	200	200
							MTCA Method B Protective of HH (SFV)	30	2000	2000	2000
							MTCA Method B Protective of GW as MSW	30	2000	2000	2000
Funct. Area	Loc ID	Depth	Depth Zone	Date	Sample ID	Type					
Main Former Mill	GWG-4	20-21.5 ft	SubSurf (>2ft)	11/2/2010	GWG-4-20-21.5	N	---	5.6 U	---	11 U	
Main Former Mill	GWG-4	26-27.5 ft	SubSurf (>2ft)	11/2/2010	GWG-4-26-27.5	N	---	5.6 U	---	11 U	
Main Former Mill	GWG-4	30-31.5 ft	SubSurf (>2ft)	11/2/2010	GWG-4-30-31.5	N	---	5.6 U	---	11 U	
Main Former Mill	MCH0001	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-001	N	---	120	---	140	
Main Former Mill	MCH0002	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-002	N	---	100	---	180	
Main Former Mill	MCH0003	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-003	N	---	190	---	350	
Main Former Mill	MCH0004	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-004	N	---	560	---	1700	
Main Former Mill	MCH0005	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-005	N	---	63	---	26 J	
Main Former Mill	MCH0006	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-006	N	---	28 U	---	11 J	
Main Former Mill	MCH0007	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-007	N	---	60	---	79 J	
Main Former Mill	MCH0008	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-008	N	---	32 U	---	13 J	
Main Former Mill	MCH0008	9-9 ft	SubSurf (>2ft)	9/3/2002	KWG0207078-1	FD	---	32 U	---	14	
Main Former Mill	MCH0009	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-001	N	---	31 U	---	20 J	
Main Former Mill	MCH0010	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-002	N	---	36 U	---	15 J	
Main Former Mill	MCH0011	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-003	N	---	31 U	---	14 J	
Main Former Mill	MCH0012	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-004	N	---	8.3 J	---	22 J	
Main Former Mill	MCH0013	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-005	N	---	38 U	---	20 J	
Main Former Mill	MCH0014	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-006	N	---	64 U	---	29 J	
Main Former Mill	MCH0015	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-007	N	---	31 U	---	14 J	
Main Former Mill	MCH0015	9-9 ft	SubSurf (>2ft)	9/4/2002	KWG0207094-1	FD	---	31 U	---	14 J	
Main Former Mill	MCH0016	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-008	N	---	27 U	---	13 J	
Main Former Mill	MR20	0-0.25 ft	Surf (0-2ft)	5/14/2003	K2303687-003	N	33 U	150	---	1300	
Main Former Mill	MS20	0.25-5 ft	SubSurf (>2ft)	5/14/2003	K2303687-004	N	5 J	110	---	320	
Main Former Mill	MW-65	5-6.5 ft	SubSurf (>2ft)	3/10/2011	MW-65-5-6.5	N	---	20	---	100	
Main Former Mill	MW-65	15-16.5 ft	SubSurf (>2ft)	3/10/2011	MW-65-15-16.5	N	---	5.7 U	---	11 U	
Main Former Mill	MW-69	2-3.5 ft	SubSurf (>2ft)	5/6/2011	MW69-2-3.5	N	6.1 U	6 U	---	12 U	
Main Former Mill	MW-69	5-6.5 ft	SubSurf (>2ft)	5/6/2011	MW69-5-6.5	N	5.8 U	6 U	---	12 U	
Main Former Mill	MW-69	10-11.5 ft	SubSurf (>2ft)	5/6/2011	MW69-10-11.5	N	16 U	12	---	25	
Main Former Mill	MW-69	15-16.5 ft	SubSurf (>2ft)	5/6/2011	MW69-15-16.5	N	5.7 U	5.7 U	---	11 U	
Main Former Mill	MW-69	20-21.5 ft	SubSurf (>2ft)	5/6/2011	MW69-20-21.5	N	6.3 U	6.2 U	---	12 U	
Main Former Mill	MW-69	25-26.5 ft	SubSurf (>2ft)	5/6/2011	MW69-25-26.5	N	6.6 U	7	---	12 U	
Main Former Mill	MW-69	29-30 ft	SubSurf (>2ft)	5/6/2011	MW69-29-30	N	5.1 U	5.7 U	---	11 U	
Main Former Mill	SSB-1	10-11.5 ft	SubSurf (>2ft)	10/25/2010	DUPE2-102510	FD	---	580	---	170	
Main Former Mill	SSB-1	10-11.5 ft	SubSurf (>2ft)	10/25/2010	SSB-1-10-11.5	N	---	380	---	120	
Main Former Mill	SSB-1	15-16.5 ft	SubSurf (>2ft)	10/25/2010	SSB-1-15-16.5	N	---	6.2 U	---	12 U	
Main Former Mill	SSB-1	25-26.5 ft	SubSurf (>2ft)	10/25/2010	SSB-1-25-26.5	N	---	5.5 U	---	11 U	
Main Former Mill	TP-09	2-2 ft	Surf (0-2ft)	1/6/2011	TP-09-2'	N	---	5.5 U	---	11 U	
Main Former Mill	TP-09	3-3 ft	SubSurf (>2ft)	1/6/2011	TP-09-3'	N	---	41	---	150	
Main Former Mill	TP-10	2-2 ft	Surf (0-2ft)	1/6/2011	TP-10-2'	N	---	8 U	---	18	
Main Former Mill	TP-10	3-3 ft	SubSurf (>2ft)	1/6/2011	TP-10-3'	N	---	5.8 U	---	12 U	
Main Former Mill	TP-14	2-2 ft	Surf (0-2ft)	1/6/2011	TP-14-2'	N	---	5.5 U	---	30	
Main Former Mill	TP-14	3-3 ft	SubSurf (>2ft)	1/6/2011	TP-14-3'	N	---	680	---	2000	
Main Former Mill	TP-14	5-5 ft	SubSurf (>2ft)	1/6/2011	TP-14-5'	N	---	5.6 U	---	11 U	
Main Former Mill	TP-21	3-3 ft	SubSurf (>2ft)	1/7/2011	TP-21-3'	N	---	14	---	26	
Main Former Mill	WEC-37	3-3 ft	SubSurf (>2ft)	10/13/1998	S-WALL-7	N	---	---	---	110	
North Shoreline	DK20	0-0.25 ft	Surf (0-2ft)	5/15/2003	K2303678-007	N	36 U	79	---	340	
North Shoreline	DK20	0.25-7 ft	SubSurf (>2ft)	5/15/2003	K2303678-008	N	33 U	14 J	---	190	
NW Shoreline	MW-61	5-6.5 ft	SubSurf (>2ft)	10/19/2010	MW-61-5-6.5	N	---	5.4 U	---	11 U	
NW Shoreline	MW-61	10-11.5 ft	SubSurf (>2ft)	10/19/2010	MW-61-10-11.5	N	---	6.9	---	49	
NW Shoreline	MW-61	15-16.5 ft	SubSurf (>2ft)	10/19/2010	MW-61-15-16.5	N	---	5.7 U	---	11 U	
NW Shoreline	MW-61	20-21.25 ft	SubSurf (>2ft)	10/19/2010	MW-61-20.21.25	N	---	5.7 U	---	12 U	
NW Shoreline	MW-67	2-3.5 ft	SubSurf (>2ft)	3/9/2011	MW-67-2-3.5	N	---	5.1 U	---	10 U	
NW Shoreline	MW-67	15-16.5 ft	SubSurf (>2ft)	3/9/2011	MW-67-15-16.5	N	---	6 U	---	12 U	
West Former Mill	B-11	2.5-2.5 ft	SubSurf (>2ft)	9/25/1990	LANDAUB-11-2.5	N	---	---	85	---	
West Former Mill	B-11	7.5-7.5 ft	SubSurf (>2ft)	9/25/1990	LANDAUB-11-7.5	N	---	---	240	---	
West Former Mill	B-12	7.5-7.5 ft	SubSurf (>2ft)	9/25/1990	LANDAUB-12-7.5	N	---	---	26	---	

**Total Petroleum Hydrocarbons in Soil
Port Angeles Rayonier Mill Uplands Study Area**

							Gasoline-range TPH*	Diesel-range TPH*	Fuel oil-range TPH*	Heavy oil-range TPH*
Parameter							(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Units							100	200	200	200
MTCA Ecological ISC							30	2000	2000	2000
MTCA Method B Protective of HH (SFV)							30	2000	2000	2000
MTCA Method B Protective of GW as MSW							30	2000	2000	2000
Funct. Area	Loc ID	Depth	Depth Zone	Date	Sample ID	Type				
West Former Mill	B-13	7.5-7.5 ft	SubSurf (>2ft)	9/24/1990	LANDAUB-13-7.5	N	---	---	5 U	---
West Former Mill	B-14	7.5-7.5 ft	SubSurf (>2ft)	9/25/1990	LANDAUB-14-7.5	N	---	---	5 U	---
West Former Mill	B-15	7.5-7.5 ft	SubSurf (>2ft)	9/25/1990	LANDAUB-15-7.5	N	---	---	5 U	---
West Former Mill	B-17	5-5 ft	SubSurf (>2ft)	2/20/1991	LANDAUB-17-5.0	N	---	---	18	---
West Former Mill	B-17	7.5-7.5 ft	SubSurf (>2ft)	2/20/1991	LANDAUB-17-7.5	N	---	---	13	---
West Former Mill	B-21	2.5-2.5 ft	SubSurf (>2ft)	2/21/1991	LANDAUB-21-2.5	N	---	---	5 U	---
West Former Mill	B-21	5-5 ft	SubSurf (>2ft)	2/21/1991	LANDAUB-21-5.0	N	---	---	5 U	---
West Former Mill	B-23	5-5 ft	SubSurf (>2ft)	2/21/1991	LANDAUB-23-5.0	N	---	---	5 U	---
West Former Mill	B-23	7.5-7.5 ft	SubSurf (>2ft)	2/21/1991	LANDAUB-23	N	---	---	5 U	---
West Former Mill	B-9	10-10 ft	SubSurf (>2ft)	9/24/1990	LANDAUB-9	N	---	---	1400	---
West Former Mill	FOT-0001	10-10 ft	SubSurf (>2ft)	7/29/2002	K2205162-001	N	---	5000	---	3500
West Former Mill	FOT-0002	10-10 ft	SubSurf (>2ft)	7/30/2002	K2205162-002	N	---	5.9 J	---	13 J
West Former Mill	FOT-0002	10-10 ft	SubSurf (>2ft)	7/30/2002	KWG0205625-1	FD	---	7.9	---	44
West Former Mill	FOT-0003	10-10 ft	SubSurf (>2ft)	7/30/2002	K2205162-003	N	---	30 U	---	9.4 J
West Former Mill	FOT-0003	10-10 ft	SubSurf (>2ft)	7/30/2002	K2205162-003-SPLIT	SP	---	5 U	---	---
West Former Mill	FOT-0004	6-6 ft	SubSurf (>2ft)	7/30/2002	K2205162-004	N	---	87	---	210
West Former Mill	FOT-0005	6-6 ft	SubSurf (>2ft)	7/30/2002	K2205162-005	N	---	9.1 J	---	13 J
West Former Mill	FOT-0006	10-10 ft	SubSurf (>2ft)	7/30/2002	K2205162-006	N	---	36 J	---	150 J
West Former Mill	FOT-0008	10-10 ft	SubSurf (>2ft)	7/31/2002	K2205162-007	N	---	6.9 J	---	13 J
West Former Mill	FOT-0009	10-10 ft	SubSurf (>2ft)	7/31/2002	K2205162-008	N	---	480	---	340
West Former Mill	FOT-0010	10-10 ft	SubSurf (>2ft)	7/31/2002	K2205162-009	N	---	2300	---	1000
West Former Mill	FOT-0012	10-10 ft	SubSurf (>2ft)	8/1/2002	K2205235-001	N	---	32 U	---	11 J
West Former Mill	FOT-0012	10-10 ft	SubSurf (>2ft)	8/1/2002	K2205235-001-SPLIT	SP	---	5.4 U	---	---
West Former Mill	FOT-0013	10-10 ft	SubSurf (>2ft)	8/1/2002	K2205235-002	N	---	6.9 J	---	16 J
West Former Mill	FOT-0014	10-10 ft	SubSurf (>2ft)	8/1/2002	K2205235-003	N	---	29 U	---	10 J
West Former Mill	FOT-0014	10-10 ft	SubSurf (>2ft)	8/1/2002	KWG0205679-1	FD	---	4.9 U	---	8.6 J
West Former Mill	FOT-0015	10-10 ft	SubSurf (>2ft)	8/1/2002	K2205235-004	N	---	7.5 J	---	13 J
West Former Mill	FOT-0016	10-10 ft	SubSurf (>2ft)	8/1/2002	K2205235-005	N	---	110	---	280
West Former Mill	FOT-0017	10-10 ft	SubSurf (>2ft)	8/1/2002	K2205235-006	N	---	150	---	170
West Former Mill	FOT-0023	6-6 ft	SubSurf (>2ft)	8/2/2002	K2205235-012	N	---	9.6 J	---	29 J
West Former Mill	FOT-0026	6-6 ft	SubSurf (>2ft)	8/2/2002	K2205235-015	N	---	38	---	29 J
West Former Mill	FOT-0027	6-6 ft	SubSurf (>2ft)	8/6/2002	K2205299-001	N	---	9.7 J	---	29 J
West Former Mill	FOT-0028	6-6 ft	SubSurf (>2ft)	8/6/2002	K2205299-002	N	---	6.9 J	---	14 J
West Former Mill	FOT-0028	6-6 ft	SubSurf (>2ft)	8/6/2002	KWG0205846-1	FD	---	7.8	---	14
West Former Mill	FOT-0029	6-6 ft	SubSurf (>2ft)	8/6/2002	K2205299-003	N	---	140	---	250
West Former Mill	FOT-0030	10-10 ft	SubSurf (>2ft)	8/6/2002	K2205301-001	N	---	15000	---	6600
West Former Mill	FOT-0030	10-10 ft	SubSurf (>2ft)	8/6/2002	K2205301-001DUP	FD	---	15000	---	7300
West Former Mill	FOT-0031	6-6 ft	SubSurf (>2ft)	8/8/2002	K2205415-001	N	---	19 J	---	60 J
West Former Mill	FOT-0031	6-6 ft	SubSurf (>2ft)	8/8/2002	K2205415-001DUP	FD	---	11	---	32
West Former Mill	FOT-0032	6-6 ft	SubSurf (>2ft)	8/8/2002	K2205415-002	N	---	12 J	---	17 J
West Former Mill	FOT-0033	6-6 ft	SubSurf (>2ft)	8/8/2002	K2205415-003	N	---	150	---	140
West Former Mill	FOT-0034	6-6 ft	SubSurf (>2ft)	8/8/2002	K2205415-004	N	---	6.2 J	---	11 J
West Former Mill	FOT-0035	6-6 ft	SubSurf (>2ft)	8/8/2002	K2205415-005	N	---	59	---	20 J
West Former Mill	FOT-0071	10-10 ft	SubSurf (>2ft)	8/29/2002	K2206190-001	N	---	27 U	---	7.9 J
West Former Mill	FOT-0072	10-10 ft	SubSurf (>2ft)	8/29/2002	K2206190-002	N	---	18 J	---	29 J
West Former Mill	FOT-0072	10-10 ft	SubSurf (>2ft)	8/29/2002	KWG0206855-1	FD	---	31	---	53
West Former Mill	FOT-0073	10-10 ft	SubSurf (>2ft)	8/29/2002	K2206190-003	N	---	27 U	---	4.9 J
West Former Mill	FOT-0074	10-10 ft	SubSurf (>2ft)	8/29/2002	K2206190-004	N	---	7.2 J	---	11 J
West Former Mill	FOT-0075	10-10 ft	SubSurf (>2ft)	8/29/2002	K2206190-005	N	---	36	---	32 J
West Former Mill	FOT-0076	10-10 ft	SubSurf (>2ft)	8/29/2002	K2206190-006	N	---	32	---	56 J
West Former Mill	FOT-0081	6-6 ft	SubSurf (>2ft)	8/30/2002	K2206190-011	N	---	7 J	---	43 J
West Former Mill	FOT-0081	6-6 ft	SubSurf (>2ft)	8/30/2002	KWG0206855-2	FD	---	7.8	---	18
West Former Mill	FOT-0082	6-6 ft	SubSurf (>2ft)	8/30/2002	K2206190-012	N	---	5.2 J	---	7.5 J
West Former Mill	FOT-0083	6-6 ft	SubSurf (>2ft)	8/30/2002	K2206190-013	N	---	1500	---	1100
West Former Mill	FOT-0085	10-10 ft	SubSurf (>2ft)	9/6/2002	K2206278-001	N	---	26 J	---	48 J
West Former Mill	FOT-0086	7-7 ft	SubSurf (>2ft)	9/6/2002	K2206278-002	N	---	39000	---	25000

**Total Petroleum Hydrocarbons in Soil
Port Angeles Rayonier Mill Uplands Study Area**

							Gasoline-range TPH*	Diesel-range TPH*	Fuel oil-range TPH*	Heavy oil-range TPH*
Parameter							(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Units										
MTCA Ecological ISC							100	200	200	200
MTCA Method B Protective of HH (SFV)							30	2000	2000	2000
MTCA Method B Protective of GW as MSW							30	2000	2000	2000
Funct. Area	Loc ID	Depth	Depth Zone	Date	Sample ID	Type				
West Former Mill	FOT-0087	10-10 ft	SubSurf (>2ft)	9/6/2002	K2206278-003	N	---	61	---	260
West Former Mill	FOT-0088	10-10 ft	SubSurf (>2ft)	9/6/2002	K2206278-004	N	---	5600	---	400
West Former Mill	FOT-0089	10-10 ft	SubSurf (>2ft)	9/6/2002	K2206278-005	N	---	7.4 J	---	8 J
West Former Mill	FOT-0090	10-10 ft	SubSurf (>2ft)	9/6/2002	K2206278-006	N	---	8.5 J	---	6.8 J
West Former Mill	FOT-0091	10-10 ft	SubSurf (>2ft)	9/6/2002	K2206278-007	N	---	34	---	27 J
West Former Mill	FOT-0091	10-10 ft	SubSurf (>2ft)	9/6/2002	KWG0207178-4	FD	---	30	---	15
West Former Mill	FOT-EX-1	9.5-9.5 ft	SubSurf (>2ft)	8/1/2006	FOT-EX-1-[080106]-9.5	N	---	25 U	40 U	80 U
West Former Mill	FOT-EX-10	11.5-11.5 ft	SubSurf (>2ft)	8/7/2006	FOT-EX-10-[080706]-11.5	N	---	25 U	40 U	80 U
West Former Mill	FOT-EX-11	9-9 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-19-[080806]-4.0	N	---	25 U	40 U	320
West Former Mill	FOT-EX-14	9-9 ft	SubSurf (>2ft)	8/3/2006	FOT-EX-14-[080306]-9.0	N	---	25 U	40 U	80 U
West Former Mill	FOT-EX-15	11-11 ft	SubSurf (>2ft)	8/7/2006	FOT-EX-15-[080706]-11.0	N	---	25 U	40 U	80 U
West Former Mill	FOT-EX-16	8-8 ft	SubSurf (>2ft)	8/7/2006	FOT-EX-16-[080706]-8.0	N	---	25 U	40 U	80 U
West Former Mill	FOT-EX-17	3-3 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-17-[080806]-3.0	N	---	25 U	40 U	80 U
West Former Mill	FOT-EX-18	7-7 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-18-[080806]-7.0	N	---	25 U	40 U	918
West Former Mill	FOT-EX-19	9-9 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-19-[080806]-9.0	N	---	25 U	40 U	80 U
West Former Mill	FOT-EX-2	9-9 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-2-[080206]-9.0	N	---	25 U	40 U	80 U
West Former Mill	FOT-EX-20	7-7 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-20-[080806]-7.0	N	---	25 U	40 U	80 U
West Former Mill	FOT-EX-21	7-7 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-21-[080806]-7.0	N	---	25 U	40 U	516
West Former Mill	FOT-EX-22	5-5 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-22-[080806]-5.0	N	---	25 U	40 U	760
West Former Mill	FOT-EX-23	5-5 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-23-[080806]-5.0	N	---	25 U	40 U	80 U
West Former Mill	FOT-EX-24	5-5 ft	SubSurf (>2ft)	8/8/2006	FOT-EX-24-[080806]-5.0	N	---	25 U	40 U	80 U
West Former Mill	FOT-EX-25	5-5 ft	SubSurf (>2ft)	8/9/2006	WM-EX-25-[080906]-5.0	N	---	25 U	40 U	80 U
West Former Mill	FOT-EX-26	5-5 ft	SubSurf (>2ft)	8/9/2006	WM-EX-26-[080906]-5.0	N	---	25 U	40 U	204
West Former Mill	FOT-EX-27	8-8 ft	SubSurf (>2ft)	8/9/2006	WM-EX-27-[080906]-8.0	N	---	25 U	40 U	80 U
West Former Mill	FOT-EX-3	11-11 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-3-[080206]-11.0	N	---	25 U	40 U	80 U
West Former Mill	FOT-EX-4	8-8 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-4-[080206]-8.0	N	---	25 U	40 U	80 U
West Former Mill	FOT-EX-5	15-15 ft	SubSurf (>2ft)	8/2/2006	FOT-EX-5-[080206]-15.0	N	---	25 U	40 U	80 U
West Former Mill	MW-60	2-3.5 ft	SubSurf (>2ft)	10/19/2010	MW-60-2-3.5	N	---	31	---	240
West Former Mill	MW-60	10-11.5 ft	SubSurf (>2ft)	10/19/2010	MW-60-10-11.5	N	---	6200	---	9100
West Former Mill	MW-60	15-16.5 ft	SubSurf (>2ft)	10/19/2010	MW-60-15-16.5	N	---	160	---	250
West Former Mill	MW-60	20-20.75 ft	SubSurf (>2ft)	10/19/2010	MW-60-20-20.75	N	---	21	---	34
West Former Mill	MW-60	23-24.4 ft	SubSurf (>2ft)	10/19/2010	MW-60-23-24.4	N	---	5.8 U	---	12 U
West Former Mill	MW-68	5.5-6 ft	SubSurf (>2ft)	5/4/2011	MW68-5.5-6	N	---	53	---	110
West Former Mill	MW-68	13-14 ft	SubSurf (>2ft)	5/4/2011	MW68-13-14	N	---	5.4 U	---	18
West Former Mill	RB01	0-0.25 ft	Surf (0-2ft)	5/13/2003	K2303600-001	N	5.4 J	14 J	---	110 J
West Former Mill	RB01	0.25-7 ft	SubSurf (>2ft)	5/13/2003	K2303593-015	N	33 U	22 J	---	170 J
West Former Mill	RB20	0-0.25 ft	Surf (0-2ft)	5/13/2003	K2303593-016	N	34 U	580	---	250 J
West Former Mill	RB20	0.25-8 ft	SubSurf (>2ft)	5/13/2003	K2303593-017	N	33 U	110 J	---	160 J
West Former Mill	RB22	0-0.25 ft	Surf (0-2ft)	5/13/2003	K2303600-005	N	6.6 J	19 J	---	45 J
West Former Mill	RB22	0-0.25 ft	Surf (0-2ft)	5/13/2003	KWG0306962-1	FD	---	21 J	---	65 J
West Former Mill	RB22	0.25-7.5 ft	SubSurf (>2ft)	5/13/2003	K2303600-002	N	9.8 J	270 U	---	6.1 J
West Former Mill	SSB-2	2-3.5 ft	SubSurf (>2ft)	10/21/2010	SSB-2-2-3.5	N	---	24	---	99
West Former Mill	SSB-2	5-6.5 ft	SubSurf (>2ft)	10/21/2010	DUPE1-102110	FD	---	35	---	110
West Former Mill	SSB-2	5-6.5 ft	SubSurf (>2ft)	10/21/2010	SSB-2-5-6.5	N	---	7 U	---	14
West Former Mill	SSB-2	10-11.5 ft	SubSurf (>2ft)	10/21/2010	SSB-2-10-11.5	N	---	5.6 U	---	13
West Former Mill	SSB-2	15-16.5 ft	SubSurf (>2ft)	10/21/2010	SSB-2-15-16.5	N	---	5.8 U	---	12 U
West Former Mill	SSB-2	20-20.5 ft	SubSurf (>2ft)	10/21/2010	SSB-2-20-20.5	N	---	5.9 U	---	12
West Former Mill	SSB-7	2-3.5 ft	SubSurf (>2ft)	10/26/2010	SSB-7-2-3.5	N	---	7.2	---	39
West Former Mill	SSB-7	10-11.5 ft	SubSurf (>2ft)	10/26/2010	SSB-7-10-11.5	N	---	6.3	---	46
West Former Mill	SSB-7	20-21.5 ft	SubSurf (>2ft)	10/26/2010	SSB-7-20-21.5	N	---	5.6 U	---	11 U
West Former Mill	SSB-7	25-26.5 ft	SubSurf (>2ft)	10/26/2010	SSB-7-25-26.5	N	---	5.7 U	---	11 U
West Former Mill	SSB-7	30-30.75 ft	SubSurf (>2ft)	10/26/2010	SSB-7-30-30.75	N	---	5.5 U	---	11 U
West Former Mill	TP-01	2-2 ft	Surf (0-2ft)	1/4/2011	TP-01-2'	N	---	5.5 U	---	20
West Former Mill	TP-01	8-8 ft	SubSurf (>2ft)	1/4/2011	TP-01-8'	N	---	26	---	150
West Former Mill	TP-02	2-2 ft	Surf (0-2ft)	1/4/2011	TP-02-2'	N	---	14	---	180
West Former Mill	TP-02	8-8 ft	SubSurf (>2ft)	1/4/2011	TP-02-8'	N	---	2100	---	12000

**Total Petroleum Hydrocarbons in Soil
Port Angeles Rayonier Mill Uplands Study Area**

							Gasoline-range TPH*	Diesel-range TPH*	Fuel oil-range TPH*	Heavy oil-range TPH*
Parameter							(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Units										
MTCA Ecological ISC							100	200	200	200
MTCA Method B Protective of HH (SFV)							30	2000	2000	2000
MTCA Method B Protective of GW as MSW							30	2000	2000	2000
Funct. Area	Loc ID	Depth	Depth Zone	Date	Sample ID	Type				
West Former Mill	TP-02	8-8 ft	SubSurf (>2ft)	1/4/2011	TP-DUPE-1	FD	---	1700	---	9600
West Former Mill	TP-03	2-2 ft	Surf (0-2ft)	1/4/2011	TP-03-2'	N	---	7.2	---	58
West Former Mill	TP-03	4-4 ft	SubSurf (>2ft)	1/4/2011	TP-03-4'	N	---	86	---	560
West Former Mill	TP-03	7-7 ft	SubSurf (>2ft)	1/4/2011	TP-03-7'	N	---	280	---	1400
West Former Mill	TP-04	2-2 ft	Surf (0-2ft)	1/5/2011	TP-04-2'	N	---	9	---	12 U
West Former Mill	TP-04	7-7 ft	SubSurf (>2ft)	1/5/2011	TP-04-7'	N	---	9.3 U	---	19 U
West Former Mill	TP-05	2-2 ft	Surf (0-2ft)	1/5/2011	TP-05-2'	N	---	5.3 U	---	11 U
West Former Mill	TP-05	6-6 ft	SubSurf (>2ft)	1/5/2011	TP-05-6'	N	---	6.6 U	---	13 U
West Former Mill	TP-06	3-3 ft	SubSurf (>2ft)	1/5/2011	TP-06-3'	N	---	5.3 U	---	11
West Former Mill	TP-06	7-7 ft	SubSurf (>2ft)	1/5/2011	TP-06-7'	N	---	5.6 U	---	11 U
West Former Mill	TP-07	2-2 ft	Surf (0-2ft)	1/5/2011	TP-07-2'	N	---	7.3	---	46
West Former Mill	TP-07	2-2 ft	Surf (0-2ft)	1/5/2011	TP-DUPE-2	FD	---	32	---	170
West Former Mill	TP-07	6-6 ft	SubSurf (>2ft)	1/5/2011	TP-07-6'	N	---	7.8 U	---	16 U
West Former Mill	TP-08	2-2 ft	Surf (0-2ft)	1/5/2011	TP-08-2'	N	---	12	---	92
West Former Mill	TP-08	5-5 ft	SubSurf (>2ft)	1/5/2011	TP-08-5'	N	---	5.8 U	---	12 U
West Former Mill	TP-11	2-2 ft	Surf (0-2ft)	1/7/2011	TP-11-2'	N	---	14	---	100
West Former Mill	TP-11	5-5 ft	SubSurf (>2ft)	1/7/2011	TP-11-5'	N	---	330	---	2000
West Former Mill	TP-11	5-5 ft	SubSurf (>2ft)	1/7/2011	TP-DUPE-3	FD	---	300	---	1900
West Former Mill	TP-12	2-2 ft	Surf (0-2ft)	1/4/2011	TP-12-2'	N	---	71	---	490
West Former Mill	TP-12	4-4 ft	SubSurf (>2ft)	1/4/2011	TP-12-4'	N	---	58	---	430
West Former Mill	TP-15	2-2 ft	Surf (0-2ft)	1/6/2011	TP-15-2'	N	---	1000	---	1700
West Former Mill	TP-15	4-4 ft	SubSurf (>2ft)	1/6/2011	TP-15-4'	N	---	6.3 U	---	20
West Former Mill	TP-16	2-2 ft	Surf (0-2ft)	1/6/2011	TP-16-2'	N	---	5.5 U	---	11 U
West Former Mill	TP-16	5-5 ft	SubSurf (>2ft)	1/6/2011	TP-16-5'	N	---	5.5 U	---	11 U
West Former Mill	WM21	0-0.25 ft	Surf (0-2ft)	5/13/2003	K2303600-003	N	6.7 J	260 U	---	5.2 J
West Former Mill	WM21	0.25-9.5 ft	SubSurf (>2ft)	5/13/2003	K2303600-004	N	23 J	270 U	---	9.5 J
West Former Mill	WM-EX-1	8-8 ft	SubSurf (>2ft)	8/3/2006	WM-EX-1-[080306]-8.0	N	---	25 U	40 U	80 U
West Former Mill	WM-EX-10	16-16 ft	SubSurf (>2ft)	8/8/2006	WM-DUP-1-[080806]	FD	---	25 U	40 U	730
West Former Mill	WM-EX-10	16-16 ft	SubSurf (>2ft)	8/8/2006	WM-EX-10-[080806]-16.0	N	---	25 U	40 U	709
West Former Mill	WM-EX-11	17-17 ft	SubSurf (>2ft)	8/8/2006	WM-EX-11-[080806]-17.0	N	---	25 U	40 U	80 U
West Former Mill	WM-EX-12	8-8 ft	SubSurf (>2ft)	8/8/2006	WM-EX-12-[080806]-8.0	N	---	25 U	40 U	80 U
West Former Mill	WM-EX-13	9-9 ft	SubSurf (>2ft)	8/8/2006	WM-EX-13-[080806]-9.0	N	---	25 U	40 U	300
West Former Mill	WM-EX-14	14-14 ft	SubSurf (>2ft)	8/8/2006	WM-EX-14-[080806]-14.0	N	---	25 U	40 U	184
West Former Mill	WM-EX-15	14-14 ft	SubSurf (>2ft)	8/8/2006	WM-EX-15-[080806]-14.0	N	---	25 U	40 U	80 U
West Former Mill	WM-EX-16	14-14 ft	SubSurf (>2ft)	8/8/2006	WM-EX-16-[080806]-14.0	N	---	25 U	40 U	80 U
West Former Mill	WM-EX-17	14-14 ft	SubSurf (>2ft)	8/8/2006	WM-EX-17-[080806]-14.0	N	---	25 U	40 U	80 U
West Former Mill	WM-EX-18	9-9 ft	SubSurf (>2ft)	8/9/2006	WM-EX-18-[080906]-9.0	N	---	25 U	40 U	1780
West Former Mill	WM-EX-2	11-11 ft	SubSurf (>2ft)	8/3/2006	WM-EX-2-[080306]-11.0	N	---	25 U	40 U	80 U
West Former Mill	WM-EX-3	10-10 ft	SubSurf (>2ft)	8/3/2006	WM-EX-3-[080306]-10.0	N	---	25 U	40 U	80 U
West Former Mill	WM-EX-4	13-13 ft	SubSurf (>2ft)	8/4/2006	WM-EX-4-[080406]-13.0	N	---	25 U	40 U	80 U
West Former Mill	WM-EX-5	16-16 ft	SubSurf (>2ft)	8/4/2006	WM-EX-5-[080406]-16.0	N	---	25 U	40 U	1440
West Former Mill	WM-EX-6	9-9 ft	SubSurf (>2ft)	8/7/2006	WM-EX-6-[080706]-9.0	N	---	25 U	40 U	80 U
West Former Mill	WM-EX-7	8.5-8.5 ft	SubSurf (>2ft)	8/7/2006	WM-EX-7-[080706]-8.5	N	---	25 U	40 U	80 U
West Former Mill	WM-EX-8	15-15 ft	SubSurf (>2ft)	8/7/2006	WM-EX-8-[080706]-15.0	N	---	25 U	40 U	80 U
West Former Mill	WM-EX-9	10-10 ft	SubSurf (>2ft)	8/7/2006	WM-EX-9-[080706]-10.0	N	---	25 U	40 U	80 U
West Former Mill	WWHF-10	2-4 ft	SubSurf (>2ft)	10/4/2000	WWHF-10D	N	---	1400	---	3600
West Former Mill	WWHF-9	0-2 ft	Surf (0-2ft)	10/4/2000	WWHF-9D	N	---	220	---	650

**Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

Parameter							1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone	2-Hexanone	4-Methyl-2-Pentanone	Acetone	Acrylonitrile	
Units							(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
MTCA Ecological ISC							NL	NL	NL	NL	NL	NL	NL	700000	NL	NL	NL	NL	NL	NL
MTCA Method B Protective of HH (SFV)							7.2e+007	5000	18000	1.6e+007	4e+006	11000	720000	15000	4.8e+007	NL	6.4e+006	8e+006	NL	NL
MTCA Method B Protective of GW as MSW							3.3e+006	22	89	NL	23	180	NL	77	NL	NL	NL	NL	NL	NL
Funct. Area	Loc ID	Depth	Depth Zone	Date	Sample ID	Type														
City Purchase	BY01	0-2 ft	Surf (0-2ft)	11/17/1997	BY01-0SS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	---	11 U	---	
City Purchase	BY01	2-4 ft	SubSurf (>2ft)	11/17/1997	BY01-2SB	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	170	---
City Purchase	BY02	0-2 ft	Surf (0-2ft)	11/17/1997	BY02-0SS	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---	---	12 U	---	
City Purchase	BY02	2-4 ft	SubSurf (>2ft)	11/17/1997	BY02-2SB	N	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	---
City Purchase	BY03	0-2 ft	Surf (0-2ft)	11/17/1997	BY03-0SS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---
City Purchase	BY03	2-4 ft	SubSurf (>2ft)	11/17/1997	BY03-2SB	N	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	---
City Purchase	BY04	0-2 ft	Surf (0-2ft)	11/17/1997	BY04-0SS	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---
City Purchase	BY04	2-4 ft	SubSurf (>2ft)	11/17/1997	BY04-2SB	N	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	110	---
City Purchase	BY05	0-2 ft	Surf (0-2ft)	11/17/1997	BY05-0SS	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---
City Purchase	BY05	2-4 ft	SubSurf (>2ft)	11/17/1997	BY05-2SB	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---
City Purchase	BY05	4-6 ft	SubSurf (>2ft)	11/17/1997	BY05-4SB	N	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	22 U	---
City Purchase	BY05	6-8 ft	SubSurf (>2ft)	11/17/1997	BY05-6SB	N	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	---
City Purchase	BY05	8-10 ft	SubSurf (>2ft)	11/17/1997	BY05-8SB	N	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	---
City Purchase	PA-19	7.5-9 ft	SubSurf (>2ft)	8/21/2009	PA-19	N	---	---	---	---	---	---	---	---	---	---	---	---	31	---
City Purchase	PF01	0-2 ft	Surf (0-2ft)	11/18/1997	PF01-0SS	N	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	---
City Purchase	PF01	2-4 ft	SubSurf (>2ft)	11/18/1997	PF01-2SB	N	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	---
CSO	GB02	0-2 ft	Surf (0-2ft)	11/4/1997	LY17SS-GB02	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---	---	12 U	---	
CSO	GB02	2-4 ft	SubSurf (>2ft)	11/10/1997	LY18SB-GB02	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	---	11 U	---	
CSO	GB03	0-2 ft	Surf (0-2ft)	11/4/1997	LY19SS-GB03	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	---	11 U	---	
CSO	GB03	2-4 ft	SubSurf (>2ft)	11/10/1997	LY20SB-GB03	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---	---	12 U	---	
East Former Mill	CD02	0-2 ft	Surf (0-2ft)	11/19/1997	CD02-0SS	N	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	---
East Former Mill	CD02	2-4 ft	SubSurf (>2ft)	11/19/1997	CD02-2SB	N	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	100	---
East Former Mill	CD02	4-6 ft	SubSurf (>2ft)	11/19/1997	CD02-4SB	N	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	---
East Former Mill	CD02	6-8 ft	SubSurf (>2ft)	11/19/1997	CD02-6SB	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---
East Former Mill	CD03	0-2 ft	Surf (0-2ft)	11/19/1997	CD03-0SS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---
East Former Mill	CD03	2-4 ft	SubSurf (>2ft)	11/19/1997	CD03-3SB	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	26	---
Estuary	CD01	0-2 ft	Surf (0-2ft)	11/19/1997	CD01-0SS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---
Estuary	CD01	2-4 ft	SubSurf (>2ft)	11/19/1997	CD01-2SB	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---
Estuary	FR05	0-0.25 ft	Surf (0-2ft)	11/13/1997	FR05SS	N	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	---
Main Former Mill	AP01	0-0.25 ft	Surf (0-2ft)	11/13/1997	AP01SS	N	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	---	---	15 U	---	
Main Former Mill	AP02	0-0.25 ft	Surf (0-2ft)	11/13/1997	AP02SS	N	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	---	---	14 U	---	
Main Former Mill	AP03	0-0.25 ft	Surf (0-2ft)	11/13/1997	AP03SS	N	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	---	---	14 U	---	
Main Former Mill	AP04	0-0.25 ft	Surf (0-2ft)	11/13/1997	AP04SS	N	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	---
Main Former Mill	BL01	0-0.25 ft	Surf (0-2ft)	11/14/1997	BL01SS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	---	11 U	---	
Main Former Mill	BL02	0-0.25 ft	Surf (0-2ft)	11/14/1997	BL02SS	N	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	21	17 U	17 U	28 U	---
Main Former Mill	BL03	0-0.25 ft	Surf (0-2ft)	11/14/1997	BL03SS	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---
Main Former Mill	BP01	0-0.25 ft	Surf (0-2ft)	11/11/1997	BP01SS	N	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	---	---	13 U	96	---
Main Former Mill	BP02	0-0.25 ft	Surf (0-2ft)	11/11/1997	BP02SS	N	450 U	450 U	450 U	450 U	450 U	450 U	450 U	450 U	2200	---	450 U	10000	---	
Main Former Mill	BP03	0-0.25 ft	Surf (0-2ft)	11/11/1997	BP03SS	N	67 U	67 U	67 U	67 U	67 U	67 U	67 U	67 U	3100	---	67 U	3900	---	
Main Former Mill	BP04	0-0.25 ft	Surf (0-2ft)	11/11/1997	BP04SS	N	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	---
Main Former Mill	DB02	0-0.25 ft	Surf (0-2ft)	11/13/1997	DB02SS	N	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	---	---	17 U	---	
Main Former Mill	FR02	0-0.25 ft	Surf (0-2ft)	11/12/1997	FR02SS	N	23 U	23 U	23 U	23 U	23 U	23 U	23 U	23 U	23 U	23 U	23 U	23 U	23 U	---
Main Former Mill	FR04	0-0.25 ft	Surf (0-2ft)	11/14/1997	FR04SS	N	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	---
Main Former Mill	LB01		Surf (0-2ft)	11/22/1997	LB01-0SS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---
Main Former Mill	LB02		Surf (0-2ft)	11/22/1997	LB02-0SS	N	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	---
Main Former Mill	MCH0001	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-001	N	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	---	4.3 U	18 U	18 U	18 U	18 U	12 J	---
Main Former Mill	MCH0002	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-002	N	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	---	5.4 U	22 U	22 U	22 U	22 U	14 J	---

**Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

Parameter							1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone	2-Hexanone	4-Methyl-2-Pentanone	Acetone	Acrylonitrile	
Units							(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
MTCA Ecological ISC							NL	NL	NL	NL	NL	NL	NL	700000	NL	NL	NL	NL	NL	NL
MTCA Method B Protective of HH (SFV)							7.2e+007	5000	18000	1.6e+007	4e+006	11000	720000	15000	4.8e+007	NL	6.4e+006	8e+006	NL	NL
MTCA Method B Protective of GW as MSW							3.3e+006	22	89	NL	23	180	NL	77	NL	NL	NL	NL	NL	NL
Funct. Area	Loc ID	Depth	Depth Zone	Date	Sample ID	Type														
Main Former Mill	MCH0003	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-003	N	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	6.5 U	---	6.5 U	26 U	26 U	26 U	20 J	---	
Main Former Mill	MCH0004	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-004	N	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	---	5.2 U	21 U	21 U	21 U	23 J	---	
Main Former Mill	MCH0005	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-005	N	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	---	4.6 U	19 U	19 U	19 U	12 J	---	
Main Former Mill	MCH0006	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-006	N	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	---	5.8 U	24 U	24 U	24 U	18 J	---	
Main Former Mill	MCH0007	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-007	N	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	---	5.2 U	21 U	21 U	21 U	19 J	---	
Main Former Mill	MCH0008	9-9 ft	SubSurf (>2ft)	9/3/2002	K2206204-008	N	6.4 U	6.4 U	6.4 U	6.4 U	6.4 U	6.4 U	---	6.4 U	26 U	26 U	26 U	21 J	---	
Main Former Mill	MCH0009	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-001	N	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	---	6.3 U	26 U	26 U	26 U	39 J	---	
Main Former Mill	MCH0010	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-002	N	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	---	6.2 U	25 U	25 U	25 U	22 J	---	
Main Former Mill	MCH0011	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-003	N	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	---	5.5 U	22 U	22 U	22 U	20 J	---	
Main Former Mill	MCH0012	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-004	N	6.6 U	6.6 U	6.6 U	6.6 U	6.6 U	6.6 U	---	6.6 U	27 U	27 U	27 U	30 J	---	
Main Former Mill	MCH0013	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-005	N	8.3 U	8.3 U	8.3 U	8.3 U	8.3 U	8.3 U	---	8.3 U	34 U	34 U	34 U	24 J	---	
Main Former Mill	MCH0014	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-006	N	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	---	5.2 U	21 U	21 U	21 U	52 U	---	
Main Former Mill	MCH0015	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-007	N	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	---	5.8 U	24 U	24 U	24 U	21 J	---	
Main Former Mill	MCH0016	9-9 ft	SubSurf (>2ft)	9/4/2002	K2206250-008	N	5.3 U	5.3 U	5.3 U	5.3 U	5.3 U	5.3 U	---	5.3 U	22 U	22 U	22 U	69	---	
Main Former Mill	MR01	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR01SS	N	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	
Main Former Mill	MR02	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR02SS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	
Main Former Mill	MR03	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR03SS	N	24 U	24 U	24 U	24 U	24 U	24 U	24 U	24 U	24 U	24 U	24 U	24 U	24 U	
Main Former Mill	MR04	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR04SS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	
Main Former Mill	MR05	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR05SS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	
Main Former Mill	MR06	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR06SS	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	
Main Former Mill	MR07	0-0.25 ft	Surf (0-2ft)	11/12/1997	MR07SS	N	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	
Main Former Mill	MR08	0-0.25 ft	Surf (0-2ft)	11/14/1997	MR08SS	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	
Main Former Mill	MR09	0-0.25 ft	Surf (0-2ft)	11/15/1997	MR09SS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	4	11 U	11 U	11 U	11 U	
Main Former Mill	MR10	0-0.25 ft	Surf (0-2ft)	11/13/1997	MR10SS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	
Main Former Mill	MR11	0-0.25 ft	Surf (0-2ft)	11/14/1997	MR11SS	N	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	---	---	---	---	14 U	
Main Former Mill	MR12	0-0.25 ft	Surf (0-2ft)	11/14/1997	MR12SS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	---	---	---	11 U	
Main Former Mill	PC01	0-0.25 ft	Surf (0-2ft)	11/10/1997	PC01SS	N	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	---	---	---	---	17 U	
Main Former Mill	SR01	0-0.25 ft	Surf (0-2ft)	11/21/1997	SR01-SS	N	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	20 U	
Main Former Mill	SR02	0-0.25 ft	Surf (0-2ft)	11/21/1997	SR02-SS	N	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	9	16 U	16 U	16 U	17 U	
Main Former Mill	SR03	0-0.25 ft	Surf (0-2ft)	11/21/1997	SR03-SS	N	18 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U	
Main Former Mill	SR04	0-0.25 ft	Surf (0-2ft)	11/21/1997	SR04-SS	N	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	7	20 U	20 U	20 U	20 U	
Main Former Mill	TB01	0-0.25 ft	Surf (0-2ft)	11/12/1997	TB01SS	N	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	---	---	---	74	
Main Former Mill	TB02	0-0.25 ft	Surf (0-2ft)	11/13/1997	TB02SS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	
North Shoreline	BS01	0-0.25 ft	Surf (0-2ft)	11/21/1997	BS01-SS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	
North Shoreline	BS02	0-0.25 ft	Surf (0-2ft)	11/21/1997	BS02-SS	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	
North Shoreline	PC02	0-0.25 ft	Surf (0-2ft)	11/10/1997	PC02SS	N	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	---	---	---	---	13 U	
NW Shoreline	GB01	0-2 ft	Surf (0-2ft)	11/4/1997	LY07SS-GB01	N	18 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U	---	---	---	18 U	
NW Shoreline	GB01	2-4 ft	SubSurf (>2ft)	11/11/1997	LY08SB-GB01	N	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	---	---	---	---	14 U	
NW Shoreline	GB01	4-6 ft	SubSurf (>2ft)	11/11/1997	LY25SB-GB01	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---	---	---	---	12 U	
NW Shoreline	GB04	0-2 ft	Surf (0-2ft)	11/4/1997	LY01SS-GB04	N	28 U	28 U	28 U	28 U	28 U	28 U	28 U	28 U	28 U	---	---	---	28 U	
NW Shoreline	GB05	0-2 ft	Surf (0-2ft)	11/4/1997	LY05SS-GB05	N	36 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U	---	---	---	36 U	
NW Shoreline	GB05	2-4 ft	SubSurf (>2ft)	11/10/1997	LY06SB-GB05	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---	---	---	---	12 U	
NW Shoreline	GB06	0-2 ft	Surf (0-2ft)	11/4/1997	LY09SS-GB06	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	6	---	---	---	11 U	
NW Shoreline	GB07	0-2 ft	Surf (0-2ft)	11/4/1997	LY11SS-GB07	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---	---	---	---	12 U	
NW Shoreline	GB07	2-4 ft	SubSurf (>2ft)	11/12/1997	LY12SB-GB07	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	
NW Shoreline	GB07	4-6 ft	SubSurf (>2ft)	11/12/1997	LY14SB-GB07	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	---	---	---	11 U	
NW Shoreline	GB07	6-8 ft	SubSurf (>2ft)	11/12/1997	LY27SB-GB07	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	
NW Shoreline	GB08	0-2 ft	Surf (0-2ft)	11/4/1997	LY13SS-GB08	N	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	---	---	---	---	13 U	
NW Shoreline	GB08	2-4 ft	SubSurf (>2ft)	11/12/1997	LY29SB-GB08	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	7	11 U	11 U	20 U	---	
NW Shoreline	GB09	0-2 ft	Surf (0-2ft)	11/4/1997	LY02SS-GB09	N	22 U	22 U	22 U	22 U	22 U	22 U	22 U	22 U	22 U	---	---	---	22 U	

**Volatile Organic Compounds in Soil
Port Angeles Rayonier Mill Uplands Study Area**

Parameter							1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2-Dichloroethane	1,2-Dichloropropane	2-Butanone	2-Hexanone	4-Methyl-2-Pentanone	Acetone	Acrylonitrile	
Units							(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
MTCA Ecological ISC							NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MTCA Method B Protective of HH (SFV)							7.2e+007	5000	18000	1.6e+007	4e+006	11000	720000	15000	4.8e+007	NL	6.4e+006	8e+006	NL	NL
MTCA Method B Protective of GW as MSW							3.3e+006	22	89	NL	23	180	NL	77	NL	NL	NL	NL	NL	NL
Funct. Area	Loc ID	Depth	Depth Zone	Date	Sample ID	Type														
NW Shoreline	GB09	2-4 ft	SubSurf (>2ft)	11/10/1997	LY04SB-GB09	N	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	14	---	---	10 U	---	
NW Shoreline	GB10	10-10 ft	SubSurf (>2ft)	11/11/1997	LY10SB-GB10	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	
NW Shoreline	LY15	0-2 ft	Surf (0-2ft)	11/4/1997	LY15SS	N	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	---	---	15 U	---		
NW Shoreline	LY16	0-2 ft	Surf (0-2ft)	11/4/1997	LY16SS	N	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	---	---	15 U	---		
NW Shoreline	PA01	0-2 ft	Surf (0-2ft)	11/15/1997	PA01-OSS	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---	
NW Shoreline	PA02	0-2 ft	Surf (0-2ft)	11/15/1997	PA02-OSS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	
NW Shoreline	PA03	0-2 ft	Surf (0-2ft)	11/15/1997	PA03-OSS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	
NW Shoreline	PA04	0-2 ft	Surf (0-2ft)	11/15/1997	PA04-OSS	N	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	---	---	10 U	---		
NW Shoreline	PA04	2-4 ft	SubSurf (>2ft)	11/15/1997	PA04-2SB	N	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	---	---	10 U	---		
NW Shoreline	PA04	4-6 ft	SubSurf (>2ft)	11/15/1997	PA04-4SB	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	---	11 U	---		
Prefab	PF02	0-2 ft	Surf (0-2ft)	11/18/1997	PF02-OSS	N	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	---	
Prefab	PF02	2-4 ft	SubSurf (>2ft)	11/18/1997	PF02-2SB	N	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	---	
Prefab	PF03	0-2 ft	Surf (0-2ft)	11/18/1997	PF03-OSS	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---	
Prefab	PF03	2-4 ft	SubSurf (>2ft)	11/18/1997	PF03-2SB	N	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	---	
Prefab	PF03	4-6 ft	SubSurf (>2ft)	11/18/1997	PF03-4SB	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	67 U	---	
Prefab	PF03	6-8 ft	SubSurf (>2ft)	11/18/1997	PF03-6SB	N	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	---	
Prefab	PF03	8-10 ft	SubSurf (>2ft)	11/18/1997	PF03-8SB	N	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	---	
Prefab	PF03	16-18 ft	SubSurf (>2ft)	11/18/1997	PF03-16SB	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	
West Former Mill	B-21	2.5-2.5 ft	SubSurf (>2ft)	2/21/1991	LANDAUB-21-2.5	N	---	---	---	---	---	---	---	---	750 U	---	---	---	---	
West Former Mill	B-21	5-5 ft	SubSurf (>2ft)	2/21/1991	LANDAUB-21-5.0	N	---	---	---	---	---	---	---	---	750 U	---	---	---	---	
West Former Mill	B-23	5-5 ft	SubSurf (>2ft)	2/21/1991	LANDAUB-23-5.0	N	---	---	---	---	---	---	---	---	750 U	---	---	---	---	
West Former Mill	FOT-0027	6-6 ft	SubSurf (>2ft)	8/6/2002	K2205299-001	N	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	---	6.2 U	37	---	25 U	160	---	
West Former Mill	FOT-0028	6-6 ft	SubSurf (>2ft)	8/6/2002	K2205299-002	N	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	---	5.7 U	23 U	23 U	23 U	19	---	
West Former Mill	HF01	0-2 ft	Surf (0-2ft)	11/13/1997	HF01-OSS	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---	
West Former Mill	HF01	2-4 ft	SubSurf (>2ft)	11/13/1997	HF01-2SB	N	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	---	---	14 U	---		
West Former Mill	HF02	0-2 ft	Surf (0-2ft)	11/13/1997	HF02-OSS	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	10	---	
West Former Mill	HF02	2-4 ft	SubSurf (>2ft)	11/13/1997	HF02-2SB	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	---	11 U	---		
West Former Mill	HF03	0-2 ft	Surf (0-2ft)	11/14/1997	HF03-OSS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	---	11 U	---		
West Former Mill	HF03	2-4 ft	SubSurf (>2ft)	11/14/1997	HF03-2SB	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	97	---	
West Former Mill	HF04	0-2 ft	Surf (0-2ft)	11/14/1997	HF04-OSS	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---	---	12 U	---		
West Former Mill	HF04	2-4 ft	SubSurf (>2ft)	11/14/1997	HF04-2SB	N	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	42	---	
West Former Mill	HF05	0-2 ft	Surf (0-2ft)	11/14/1997	HF05-OSS	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	20 U	---	
West Former Mill	HF05	2-4 ft	SubSurf (>2ft)	11/14/1997	HF05-2SB	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---	---	12 U	---		
West Former Mill	HF06	0-2 ft	Surf (0-2ft)	11/14/1997	HF06-OSS	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---	---	15	---		
West Former Mill	HF06	2-4 ft	SubSurf (>2ft)	11/14/1997	HF06-2SB	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---	---	12 U	---		
West Former Mill	HF07	0-2 ft	Surf (0-2ft)	11/20/1997	HF07-OSS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	20	---	
West Former Mill	HF07	2-4 ft	SubSurf (>2ft)	11/20/1997	HF07-2SB	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1400	---	
West Former Mill	HF08	0-2 ft	Surf (0-2ft)	11/20/1997	HF08-OSS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	
West Former Mill	HF08	2-4 ft	SubSurf (>2ft)	11/20/1997	HF08-2SB	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	53	---	
West Former Mill	HF09	0-2 ft	Surf (0-2ft)	11/19/1997	HF09-OSS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	
West Former Mill	HF09	2-4 ft	SubSurf (>2ft)	11/19/1997	HF09-2SB	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	
West Former Mill	MW-63	23-24.5 ft	SubSurf (>2ft)	10/21/2010	MW-63-23-24.5	N	---	---	---	---	---	0.7 U	---	---	---	---	---	---	3.6 U	
West Former Mill	MW-63	26-27.5 ft	SubSurf (>2ft)	10/21/2010	MW-63-26-27.5	N	---	---	---	---	---	0.5 U	---	---	---	---	---	---	2.6 U	
West Former Mill	MW-68	55-55 ft	SubSurf (>2ft)	5/18/2011	MW-68-55	N	---	---	---	1 U	1 U	---	---	---	---	---	---	---	---	
West Former Mill	RB01	0-0.25 ft	Surf (0-2ft)	11/10/1997	RB01SS	N	21 U	21 U	21 U	21 U	21 U	21 U	21 U	21 U	21 U	21 U	21 U	21 U	---	
West Former Mill	RB02	0-0.25 ft	Surf (0-2ft)	11/10/1997	RB02SS	N	24 U	24 U	24 U	24 U	24 U	24 U	24 U	24 U	24 U	24 U	24 U	24 U	---	
West Former Mill	RB03	0-2 ft	Surf (0-2ft)	11/21/1997	RB03-OSS	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	
West Former Mill	RB04	0-2 ft	Surf (0-2ft)	11/21/1997	RB04-OSS	N	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	---	
West Former Mill	RB04	4-6 ft	SubSurf (>2ft)	11/21/1997	RB04-4SB	N	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	---	
West Former Mill	RB04	8-10 ft	SubSurf (>2ft)	11/21/1997	RB04-8SB	N	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	---	

**Ammonia as (N) in Surface Water
Port Angeles Rayonier Mill Uplands Study Area**

				Ammonia-N (un-ionized)
				(mg/L)
				0.035
				Parameter
				Units
				MTCA-B GW AS MSW
Funct. Area	Loc ID	sys_sample_code	Sample Type	
Ennis Creek	SW-4	SW-4_100827	N	1.72e-005 V
Ennis Creek	SW-5	SW-5_100827	N	1.34e-005 V
Estuary	SW-1	SW-1_100826	N	0.0001028 V
Estuary	SW-2	SW-2_100826	N	9.56e-005 V
Estuary	SW-3	SW-3_100826	N	8.62e-005 V

Aroclors in Surface Water
Port Angeles Rayonier Mill Uplands Study Area

				Parameter	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	Total PCBs (sum of Aroclors)
				Units	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
				MTCA-B GW AS MSW	NL	NL	NL	NL	NL	NL	NL	0.01
Funct. Area	Loc ID	Sample ID	Sample Type									
Ennis Creek	SW-4	SW-4_100827	N	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 UV
Ennis Creek	SW-5	SW-5_100827	N	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 UV
Estuary	SW-1	SW-1_100826	N	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 UV
Estuary	SW-2	SW-2_100826	N	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 UV
Estuary	SW-3	SW-3_100826	N	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 UV

**Carcinogenic Polycyclic Aromatic Hydrocarbons in Surface Water
Port Angeles Rayonier Mill Uplands Study Area**

Parameter				Benzo(a)anthracene	Benzo(a)pyrene	Benzofluoranthenes, Total (b+k+j)	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	cPAH TEC
Units				(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MTCA-B GW AS MSW				NL	NL	NL	NL	NL	NL	0.018
Funct. Area	Loc ID	Sample ID	Sample Type							
Ennis Creek	SW-4	SW-4_100827	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
Ennis Creek	SW-5	SW-5_100827	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
Estuary	SW-1	SW-1_100826	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
Estuary	SW-2	SW-2_100826	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV
Estuary	SW-3	SW-3_100826	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.00705 UV

**Dioxins/Furans in Surface Water
Port Angeles Rayonier Mill Uplands Study Area**

					Parameter	1,2,3,4,6,7,8-HpCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	1,2,3,7,8-PeCDD	2,3,7,8-TCDD	OCDD	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	1,2,3,7,8-PeCDF	2,3,4,6,7,8-HxCDF	2,3,4,7,8-PeCDF	2,3,7,8-TCDF	OCDF	Dioxins/Furans TEC	
					Units	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)	(pg/l)
					MTCA Method B MSW	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	0.0051
Funct. Area	Loc ID	Date	Sample ID	Type																				
Ennis Creek	SW-4	8/27/2010	SW-4_100827	N	1.82 U	0.912 U	1.19 U	1.04 U	0.892 U	0.591 U	5.34 J		1.25 U	1.78 U	0.791 U	0.792 U	0.843 U	0.74 U	0.837 U	0.753 U	0.443 U	2.47 U		1.23 J
Ennis Creek	SW-5	8/27/2010	SW-5_100827	N	1.81 U	0.766 U	1.03 U	0.889 U	0.736 U	0.579 U	4.62 J		0.962 U	1.43 U	0.627 U	0.625 U	0.626 U	0.674 U	0.632 U	0.678 U	0.439 U	2.47 U		1.07 J
Estuary	SW-1	8/26/2010	SW-1_100826	N	2.4 U	1.04 U	1.34 U	1.19 U	0.913 U	0.47 U	17.6		1.1 U	1.79 U	0.645 U	0.678 U	0.766 U	0.664 U	0.745 U	0.686 U	0.289 U	2.5 U		1.17 J
Estuary	SW-2	8/26/2010	SW-2_100826	N	1.93 U	1.15 U	1.45 U	1.29 U	0.877 U	0.412 U	8.83 J		0.987 U	1.6 U	0.588 U	0.586 U	0.662 U	0.629 U	0.647 U	0.653 U	0.293 U	2.39 U		1.11 J
Estuary	SW-3	8/26/2010	SW-3_100826	N	1.81 U	1.07 U	1.36 U	1.2 U	1.02 U	0.632 U	6.48 J		1.01 U	1.74 U	0.578 U	0.583 U	0.665 U	0.791 U	0.616 U	0.807 U	0.3 U	2.42 U		1.3 J

**Metals in Surface Water
Port Angeles Rayonier Mill Uplands Study Area**

Parameter Units MTCA Method B MSW						Aluminum (mg/L) NL	Antimony (mg/L) 0.64	Arsenic (mg/L) 0.005	Barium (mg/L) NL	Cadmium (mg/L) 0.0088	Calcium (mg/L) NL	Chromium (mg/L) 240**	Cobalt (mg/L) NL	Copper (mg/L) 0.0024	Iron (mg/L) NL	Lead (mg/L) 0.0081	Magnesium (mg/L) NL	Manganese (mg/L) 0.1	Mercury (mg/L) 2.5e-005	Nickel (mg/L) 0.0082	Potassium (mg/L) NL	Selenium (mg/L) 0.071	Silver (mg/L) 0.0019	Sodium (mg/L) NL	Thallium (mg/L) 0.00047	Vanadium (mg/L) NL	Zinc (mg/L) 0.081
Funct. Area	Loc ID	Date	Sample ID	Total (T) or Dissolved (D)	Type																						
Ennis Creek	EC05	11/18/1997	97474384	T	N	0.058 J	---	0.0041 U	0.0045 J	0.00095 J	14.6	0.00092 J	---	0.259	0.0912 U	0.0094	5.34	0.0296	---	0.0074 J	0.862 J	---	---	13	0.0037 J	0.002 J	0.0655
Ennis Creek	EC06	11/18/1997	97474386	T	N	0.0723 J	---	0.0041 U	0.0064 J	0.0024 J	14.6	0.00088 J	---	0.541	0.0979 U	0.0134	4.43 J	0.0458	---	0.0029 J	0.555 J	---	---	11.9	0.0029 J	0.002 J	0.0757
Ennis Creek	EC07	11/18/1997	97474388	T	N	0.0504 J	---	0.0041 U	0.0078 J	0.0003 U	17.2	0.0007 U	---	0.02 J	0.23	0.0018 U	7.81	0.0444	---	0.003 J	1.55 J	---	---	13.4	0.004 J	0.0022 J	0.046
Ennis Creek	EC08	11/18/1997	97474390	T	N	0.0435 J	---	0.0041 U	0.0033 J	0.0003 U	14.3	0.0007 U	---	0.0092 J	0.0932 U	0.0018 U	4.29 J	0.0073 J	---	0.0013 U	0.567 J	---	---	6.48	0.0029 U	0.0022 J	0.0039 J
Ennis Creek	SW-4	8/27/2010	SW-4_100827	T	N	---	0.0002 U	0.0002 U	0.0033	0.0002 U	---	0.0005 U	0.0002 U	0.0008	---	0.001 U	---	0.0054	2e-005 U	0.0008	---	0.0005 U	0.0002 U	---	0.0002 U	0.0022	0.004 U
Ennis Creek	SW-5	8/27/2010	SW-5_100827	T	N	---	0.0002 U	0.0002 U	0.003	0.0002 U	---	0.0005 U	0.0002 U	0.0007	---	0.001 U	---	0.0039	2e-005 U	0.0007	---	0.0005 U	0.0002 U	---	0.0002 U	0.0025	0.004 U
Estuary	EC01	11/17/1997	97474370	T	N	0.136 J	---	0.0051 J	0.0124 J	0.001 J	135	0.0007 U	---	0.238	0.0967 J	0.0069	439	0.0227	---	0.0018 J	149 J	---	---	3320	0.0035 J	0.0026 J	0.0509
Estuary	EC02	11/18/1997	97474378	T	N	0.115 J	---	0.0049 J	0.0209 J	0.0031 J	15.7	0.0017 J	---	0.747	0.222	0.031	5.25	0.0997	---	0.0084 J	0.692 J	---	---	9.04	0.0029 U	0.003 J	0.11
Estuary	EC03	11/18/1997	97474380	T	N	0.148 J	---	0.007 J	0.0056 J	0.0013 J	14.9	0.0342	---	0.273	0.258	0.0125	4.86	0.0337	---	0.0198 J	0.618 J	---	---	7.91	0.0029 U	0.0024 J	0.0637
Estuary	EC04	11/18/1997	97474382	T	N	0.0975 J	---	0.0041 U	0.0107 J	0.0012 J	14.5	0.0007 U	---	0.322	0.153	0.0076	4.65 J	0.0377	---	0.002 J	0.642 J	---	---	7.37	0.0032 J	0.0024 J	0.0697
Estuary	SW-1	8/26/2010	SW-1_100826	T	N	---	0.0002 U	0.0002	0.003	0.0002 U	---	0.0005 U	0.0002 U	0.0008	---	0.001 U	---	0.0077	2e-005 U	0.0007	---	0.0005 U	0.0002 U	---	0.0002 U	0.0024	0.004 U
Estuary	SW-2	8/26/2010	SW-2_100826	T	N	---	0.0002 U	0.0002	0.004	0.0002 U	---	0.0005 U	0.0002 U	0.001	---	0.001 U	---	0.0127	2e-005 U	0.0009	---	0.0005 U	0.0002 U	---	0.0002 U	0.0029	0.004 U
Estuary	SW-3	8/26/2010	SW-3_100826	T	N	---	0.0002 U	0.0002	0.004	0.0002 U	---	0.0005 U	0.0002 U	0.0008	---	0.001 U	---	0.0071	2e-005 U	0.0007	---	0.0005 U	0.0002 U	---	0.0002 U	0.0024	0.004 U

**Screening level for trivalent chromium - there is no established screening level for total chromium. The lack of hexavalent chromium detections in groundwater suggests that hexavalent chromium is not present.

**Organochlorine Pesticides in Surface Water
Port Angeles Rayonier Mill Uplands Study Area**

Parameter Units MTCA Method B MSW					4,4'-DDD (ug/L) 0.0017	4,4'-DDE (ug/L) 0.0017	4,4'-DDT (ug/L) 0.0017	Aldrin (ug/L) 0.00083	alpha-BHC (ug/L) 0.0049	alpha-Chlordane (ug/L) 0.00083	beta-BHC (ug/L) 0.017	delta-BHC (ug/L) 0.041	Dieldrin (ug/L) 0.0017	Endosulfan I (ug/L) 0.0087	Endosulfan II (ug/L) 0.0087	Endosulfan Sulfate (ug/L) 0.0087	Endrin (ug/L) 0.0023	Endrin Aldehyde (ug/L) 0.0023	Endrin Ketone (ug/L) 0.0023	gamma-BHC (Lindane) (ug/L) 0.038	gamma-Chlordane (ug/L) 0.00083	Heptachlor (ug/L) 0.00083	Heptachlor Epoxide (ug/L) 0.00083	Hexachlorobenzene (ug/L) 0.00083	Methoxychlor (ug/L) 0.03	Toxaphene (ug/L) 0.083	
Funct. Area	Loc ID	Date	Sample ID	Type																							
Ennis Creek	SW-4	8/27/2010	SW-4_100827	N	0.0017 U	0.0017 U	0.0017 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0017 U	0.00083 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0083 U	0.083 U
Ennis Creek	SW-5	8/27/2010	SW-5_100827	N	0.0017 U	0.0017 U	0.0017 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0017 U	0.00083 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0083 U	0.083 U
Estuary	SW-1	8/26/2010	SW-1_100826	N	0.0017 U	0.0017 U	0.0017 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0017 U	0.00083 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0083 U	0.083 U
Estuary	SW-2	8/26/2010	SW-2_100826	N	0.0017 U	0.0017 U	0.0017 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0017 U	0.00083 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0083 U	0.083 U
Estuary	SW-3	8/26/2010	SW-3_100826	N	0.0017 U	0.0017 U	0.0017 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0017 U	0.00083 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0083 U	0.083 U

**Semi-Volatile Organic Compounds in Surface Water
Port Angeles Rayonier Mill Uplands Study Area**

					Parameter	1,4-Dichlorobenzene	2,4,6-Trichlorophenol	2,4-Dinitrotoluene	3,3'-Dichlorobenzidine	Bis(2-chloro-1-methylethy) ether	bis(2-Chloroethy)ether	bis(2-Ethylhexy)phthalate	Chrysene	Hexachloroethane	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Pyrene
					Units	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
					MTCA Method B MSW	4.9	2.4	5	5	37	1	2.2	NL	3.3	1	6	3	2600
Funct. Area	Loc ID	Date	Sample ID	Type														
Ennis Creek	EC05	11/18/1997	97474384	N	---	---	---	---	---	---	---	10 U	---	---	---	---	---	---
Ennis Creek	EC06	11/18/1997	97474386	N	---	---	---	---	---	---	---	10 U	---	---	---	---	---	---
Ennis Creek	EC07	11/18/1997	97474388	N	---	---	---	---	---	---	---	10 U	---	---	---	---	---	---
Ennis Creek	EC08	11/18/1997	97474390	N	---	---	---	---	---	---	---	10 U	---	---	---	---	---	---
Ennis Creek	SW-4	8/27/2010	SW-4_100827	N	1 UJ	0.25 U	5 UJ	5 UJ	1 UJ	1 UJ	1 UJ	1 UJ	0.01 U	1 UJ	1 UJ	5 UJ	0.25 U	0.01 U
Ennis Creek	SW-5	8/27/2010	SW-5_100827	N	1 U	0.25 U	5 U	5 U	1 U	1 U	1 U	1 U	0.01 U	1 U	1 U	5 UJ	0.25 U	0.01 U
Estuary	EC01	11/17/1997	97474370	N	---	---	---	---	---	---	---	10 U	---	---	---	---	---	---
Estuary	EC02	11/18/1997	97474378	N	---	---	---	---	---	---	---	31	---	---	---	---	---	---
Estuary	EC03	11/18/1997	97474380	N	---	---	---	---	---	---	---	10 U	---	---	---	---	---	---
Estuary	EC04	11/18/1997	97474382	N	---	---	---	---	---	---	---	10 U	---	---	---	---	---	---
Estuary	SW-1	8/26/2010	SW-1_100826	N	1 U	0.25 U	5 U	5 U	1 U	1 U	1 U	1 U	0.01 U	1 U	1 U	5 UJ	0.25 U	0.01 U
Estuary	SW-2	8/26/2010	SW-2_100826	N	1 U	0.25 U	5 U	5 U	1 U	1 U	1 U	1 U	0.01 U	1 U	1 U	5 UJ	0.25 U	0.01 U
Estuary	SW-3	8/26/2010	SW-3_100826	N	1 U	0.25 U	5 U	5 U	1 U	1 U	1 U	1 U	0.01 U	1 U	1 U	5 UJ	0.25 U	0.01 U

**Total Petroleum Hydrocarbons in Surface Water
Port Angeles Rayonier Mill Uplands Study Area**

				Gasoline-range TPH	Diesel-range TPH	Heavy oil-range TPH
Parameter				(mg/L)	(mg/L)	(mg/L)
Units						
MTCA-B GW AS MSW				0.8	0.5	0.5
Funct. Area	Loc ID	Sample ID	Sample Type			
Ennis Creek	SW-4	SW-4_100827	N	0.25 U	0.1 U	0.2 U
Ennis Creek	SW-5	SW-5_100827	N	0.25 U	0.1 U	0.2 U
Estuary	SW-1	SW-1_100826	N	0.25 U	0.1 U	0.2 U
Estuary	SW-2	SW-2_100826	N	0.25 U	0.1 U	0.2 U
Estuary	SW-3	SW-3_100826	N	0.25 U	0.1 U	0.2 U

**Volatile Organic Compounds in Surface Water
Port Angeles Rayonier Mill Uplands Study Area**

				Parameter Units MTCA-B GW AS MSW	Carbon Disulfide (ug/L) NL
Funct. Area	Loc ID	Sample ID	Sample Type		
Ennis Creek	EC05	97474384	N		11000
Ennis Creek	EC06	97474386	N		10000 U
Ennis Creek	EC07	97474388	N		1000 J
Ennis Creek	EC08	97474390	N		8000 J
Estuary	EC01	97474370	N		10000 U
Estuary	EC02	97474378	N		10000 U
Estuary	EC03	97474380	N		19000
Estuary	EC04	97474382	N		59000

Footnotes for Analytical Data Summary Tables Port Angeles Rayonier Mill Upland Study Area

Notes:

N = normal (primary) sample; FD = field duplicate sample; SP = split sample; RE = reanalysis.

mg/l = milligrams per liter; ug/l = micrograms per liter; pg/l = picograms per liter.

mg/kg = milligrams per kilogram; ug/kg = micrograms per kilogram; ng/kg = nanograms per kilogram.

Total carcinogenic polycyclic aromatic hydrocarbons (cPAHs) calculated using toxic equivalent concentration (TEC) methodology relative to benzo(a)pyrene. Non-detect results for individual cPAH compounds ("U" qualifier) were assigned a value of one half of the method reporting limit for these calculations.

Total dioxins/furans calculated using toxic equivalent concentration (TEC) methodology relative to 2,3,7,8-TCDD. Non-detect results for individual dioxin/furan congeners ("U" qualifier) were assigned a value of one half of the method reporting limit for these calculations.

Total PCBs (sum of Aroclors) calculated by summing positive detections of individual Aroclors. If there were no positive detections in the sample, then the Total PCBs result is reported as not detected ("U" qualifier) at the highest individual Aroclor method reporting limit.

J = Estimated concentration detected above the method detection limit but below the method reporting limit.

R = Rejected datum.

V = Total value was calculated or selected from one or more positive detections of individual constituents.

U = Not detected at or above the listed method reporting limit.

UV = There were no positive detections of individual constituents; total value was calculated or selected from the non-detect results for individual constituents.

BOLD = Result detected above the method reporting limit.

Soil = For soil, indicates the result exceeds the screening level protective of terrestrial ecological receptors (Ecological Indicator Soil Concentrations);

GW for groundwater and surface water, indicates the result exceeds the screening level protective of marine surface water.

Soil = Soil result exceeds the screening level protective of human health (direct contact/ingestion pathway; MTCA Method B Standard Formula Value).

Underline = Soil result exceeds the screening level protective of groundwater as marine surface water.

Italics = Not detected at or above the listed method reporting limit; the listed method reporting limit exceeds a screening level.

cPAHs = Carcinogenic polycyclic aromatic hydrocarbons.

TEC = Total toxic equivalent concentration.

PCBs = Polychlorinated biphenyls.

TPH = Total petroleum hydrocarbons.

MTCA = Washington State Model Toxics Control Act.

ISC = Indicator Soil Concentrations.

HH = Human health.

SFV = Standard Formula Value.

GW = Groundwater.

MSW = Marine surface water.

NL = Screening level not established.

Filtered (dissolved) vs. unfiltered (total) metals results for groundwater: for the 2010-2011 groundwater monitoring events, only those groundwater samples with turbidity > 10 nephelometric turbidity units (field measurement) were field-filtered with a 0.45-micron filter prior to laboratory analysis.

* Constituents marked with an asterisk were identified as confirmed or suspected COPCs for the Upland Study Area in the *Supplemental Upland Data Collection Work Plan* (GeoEngineers, 2010).



APPENDIX F
Data Validation Reports

VALIDATION QUALIFIER SUMMARY

The analytical data validation for this project was divided up into seven separate reporting segments, correlating with the major sampling events of the project. They are listed chronologically below:

- **Baseline Sampling Event, Quarterly Monitoring 1 - (August 2010)**

23 groundwater samples, 5 surface water samples, 1 field duplicate, 3 equipment rinsate blanks, and 7 trip blanks

Groundwaters including field duplicates (2687 Data Points):

- ✓ 141 estimated positive detections/non-detected MRLs
- ✓ 28 elevated MRLs due to matrix interference

Surface waters including field duplicates (480 Data Points):

- ✓ 23 estimated positive detections/non-detected MRLs

Equipment Blanks (300 Data Points):

- ✓ 5 rejected non-detected MRLs
- ✓ 12 estimated positive detections/non-detected MRLs

Trip Blank (35 Data Points – No qualifications)

- **Phase 2 Investigation (October 2010)**

104 soil samples, 9 grab water samples, 5 groundwater samples, 4 field duplicates, and 12 equipment rinsate blanks

Soils, including field duplicates (4543 Data Points):

- ✓ 12 rejected non-detected MRLs
- ✓ 81 estimated positive detections/non-detected MRLs
- ✓ 43 detections qualified as “not-detected” because of blank contamination
- ✓ 172 elevated MRLs due to matrix interference

Groundwaters & grab waters (606 Data Points):

- ✓ 45 estimated positive detections/non-detected MRLs
- ✓ 5 detections qualified as “not-detected” because of blank contamination
- ✓ 7 elevated MRLs due to matrix interference

Equipment Rinsate Blanks (812 Data Points):

- ✓ 42 estimated positive detections/non-detected MRLs
- ✓ 2 detections qualified as “not-detected” because of blank contamination

- **Quarterly Monitoring 2 (November 2010)**

23 groundwater samples, 4 equipment rinsate blanks, and 2 trip blanks

Groundwaters including field duplicates (629 Data Points):

- ✓ 13 estimated positive detections/non-detected MRLs
- ✓ 3 elevated MRLs due to matrix interference

- ✓ 11 detections qualified as “not-detected” because of blank contamination
Equipment Blanks (210 Data Points – No qualifications)
Trip Blank (6 Data Points – No qualifications)
- **Phase 3 Investigation (January 2011)**
40 soil samples, 3 field duplicates, and 1 water sample
Soils, including field duplicates (1545 Data Points):
 - ✓ 40 estimated positive detections/non-detected MRLs
 - ✓ 10 tentatively identified positive detections
 - ✓ 41 elevated MRLs due to matrix interferenceWater (75 Data Points):
 - ✓ 1 tentatively identified positive detection
 - ✓ 4 elevated MRLs due to matrix interference
- **Quarterly Monitoring 3 (February 2011)**
31 groundwater samples, 3 field duplicates, 1 equipment rinsate blank, and 1 trip blank
Groundwaters including field duplicates (1322 Data Points):
 - ✓ 53 estimated positive detections/non-detected MRLs
 - ✓ 5 elevated MRLs due to matrix interferenceEquipment Blanks (71 Data Points – No qualifications)
Trip Blank (8 Data Points – No qualifications)
- **Phase 4 Investigation (March 2011)**
24 soil samples, 3 groundwater samples, and 2 equipment rinsate blanks
Soils (797 Data Points):
 - ✓ 16 estimated positive detections/non-detected MRLs
 - ✓ 8 detections qualified as “not-detected” because of blank contaminationGroundwaters (77 Data Points):
 - ✓ 1 tentatively identified positive detection
 - ✓ 1 elevated MRL due to matrix interferenceEquipment Blanks (124 Data Points – No qualifications)
- **Quarterly Monitoring 4 (May 2011)**
36 groundwater samples, 2 field duplicates, 2 equipment rinsate blanks, and 3 trip blanks
Groundwaters including field duplicates (679 Data Points):
 - ✓ 1 elevated MRL due to matrix interference
 - ✓ 1 detection qualified as “not-detected” because of blank contaminationEquipment Blanks (62 Data Points – No qualifications)
Trip Blanks (25 Data Points – No qualifications)

- **Totals**

175 soil samples (including field duplicates), 137 groundwater & grab water samples (including field duplicates), 24 equipment rinsate blanks, and 13 trip blanks

Soils, including field duplicates (6885 Data Points):

- ✓ 12 rejected non-detected MRLs
- ✓ 137 estimated positive detections/non-detected MRLs
- ✓ 51 detections qualified as “not-detected” because of blank contamination
- ✓ 213 elevated MRLs due to matrix interference
- ✓ 10 tentatively identified positive detection

Groundwaters & Grab samples, including field duplicates (6075 Data Points):

- ✓ 252 estimated positive detections/non-detected MRLs
- ✓ 17 detections qualified as “not-detected” because of blank contamination
- ✓ 49 elevated MRLs due to matrix interference
- ✓ 2 tentatively identified positive detection

Equipment Blanks (1579 Data Points)

- ✓ 5 rejected non-detected MRLs
- ✓ 54 estimated positive detections/non-detected MRLs
- ✓ 2 detections qualified as “not-detected” because of blank contamination

Trip Blanks (74 Data Points – No qualifications)

DATA QUALITY ASSESSMENT SUMMARY

**DIOXINS/FURANS EPA 1613,
 VOLATILES BY METHOD SW8260,
 SEMIVOLATILES BY METHOD SW8270,
 PAHS BY METHOD SW8270-SIM,
 PESTICIDES BY METHOD SW8081,
 PCBs BY METHOD SW8082,
 TOTAL METALS (INCLUDING MERCURY) BY METHOD EPA6010, 200.8, 7471A,
 TOTAL PETROLEUM HYDROCARBONS BY METHODS NWTPH-Gx AND NWTPH-Dx**

ARI Laboratory SDG (Frontier SDG)	Samples Validated (Bold indicates the sample was qualified)
RK98 (6327)	MW-23, MW-52, MW-28, MW-29, RINSE082510, MW-51, PZ-3, MW-53, MW-57, PZ-9, PZ-10, RINSE082610, DUP082610, MW-58, MW-59, TB082510GRL, TB082610GRL, and TB082710GRL
RLO6 (6328)	PZ-12, PZ-6, PZ-5, and TRIP BLANK
RK99 (6329)	PZ-11, PZ-7, RINSE082710, MW-55, MW-54, MW-56, PA-19, SW-1, SW-2, SW-3, SW-4, SW-5, PZ-2, PZ-4, TB082510JBA, TB082610JBA, TB082710JBA, RINSE-082710

PROJECT: RAYONIER MILL (00137-015-03)

This report documents the results of an EPA level II-B data validation of analytical data from the analyses of groundwater and surface water samples and the associated laboratory quality control (QC) samples. This standard review normally includes the following:

- Chain of Custody
- Holding Times
- Surrogates
- Method Blanks, Equipment Rinsate Blanks, and Trip Blanks
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory and Field Duplicates
- Internal Standards
- DDT/Endrin Breakdown confirmations (Pesticides only)
- Instrument Initial Calibrations (ICALs)
- Instrument Continuing Calibrations (CCALs)
- Instrument Tunes
- Three HRGC/HRMS system performance checks (Dioxins/Furans only)
 1. Mass Calibration and Resolution



2. Selected Ion Monitoring switching times
3. GC Resolution

DATA PACKAGE COMPLETENESS

ARI, located in Tukwila, Washington, was the primary sub-contracted laboratory analyzing the samples evaluated as part of this data validation review. ARI analyzed all chemical parameters, with the exception of the dioxin/furan analyses. Frontier Analytical Laboratory in El Dorado Hills, California, as sub-contracted through ARI, conducted the Dioxin/Furan analyses. Both laboratories provided all required deliverables for the validation according to the National Functional Guidelines. Both laboratories followed adequate corrective action processes and all identified anomalies were discussed in the representative case narratives.

The following sections discuss the data. Based on the review, qualification of the laboratory data was performed because of no secondary column confirmation being performed at low levels in the dioxin analysis.

Based on this validation, data were qualified because of surrogate %R values, LCS/LCSD & MS %R outliers, and continuing calibration %D outliers, and because of no secondary column confirmation being performed at low levels in the dioxin analysis.

Based on this validation, data were rejected because of volatile temperature and holding time outliers, and an MS %R value being less than 10%.

OBJECTIVE

The objective of the data validation was to review laboratory analytical procedures and quality control (QC) results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide detection limits below applicable regulatory criteria;
- The precision and accuracy of the data are well defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

DATA QUALITY ASSESSMENT SUMMARY

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in the USEPA Contract Laboratory Program *National Functional Guidelines for Inorganic Data Review* (USEPA 2002) and USEPA Contract Laboratory Program *National Functional Guidelines for Organic Data Review* (USEPA 2008).

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. There were no anomalies noted on the COC forms; proper COC protocols appear to have been followed for this sampling event.



Holding Times

The holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for the analysis, with the following exceptions:

SDG RK99 (Volatiles): Sample RINSE-082710 was analyzed 4 days outside of the maximum hold time of 14 days. The laboratory noted in the case narrative that the sample containers had been stored at room temperature for at least 24 hours prior to the analysis. There were no positive results for any target analytes in the sample. Therefore, all reporting limits were rejected (R) because of the combined effect of the outliers on a volatile analysis.

SDG RK99 (Semivolatiles): Samples SW-4 and PZ-11 were analyzed 4 days outside of the holding time of 7 days. There were no positive results for any target analytes in these samples. All reporting limits were qualified as estimated (UJ) in these samples.

Surrogate/Labeled Compound Recoveries

A surrogate compound is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added at a known concentration and percent recoveries are calculated following analysis. All surrogate recoveries for field samples were within the laboratory control limits, with the exception below:

SDG RK98 (Semivolatiles): The percent recovery (%R) for one of four base/neutral surrogates, d4-1,2-dichlorobenzene, was less than the lower control limit (32%) in Sample MW-51. As the %R values in the other three base-neutral surrogates were within the control limits, and the outlier was not less than 10%, no action was taken.

SDG RK98 (Pesticides): The %R for the surrogate tetrachloromethylxylene (TCMX) was less than the lower control limit (30%) in Sample MW-57. There were no positive results for any target analytes in the sample. Therefore, the reporting limits for all target analytes were qualified as estimated (UJ) in this sample.

SDG RK98 (PCBs): The %R for the surrogate tetrachloromethylxylene (TCMX) was less than the lower control limit (30%) in Sample MW-57. There were no positive results for any target analytes in the sample. Therefore, the reporting limits for all target analytes were qualified as estimated (UJ) in this sample.

Method Blanks & Equipment Rinsate Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. Method blanks were analyzed with each batch of samples, at a frequency of one per twenty samples. For all sample batches, method blanks for all applicable methods were analyzed at the required frequency.

None of the analytes of interest were detected above the reporting limits in any of the method blanks.

Equipment rinsate blanks are analyzed to provide an indication as to whether field decontamination and sampling procedures effectively prevent cross-contamination in field activities. Three equipment rinsate blanks were collected: RINSE082510, RINSE082610, and RINSE082710.

SDG RK98, RK99, RL06 (Metals): There was a positive result for manganese in the Equipment Blank RINSE082510. The positive results for manganese in the associated field samples were all greater than the appropriate action levels. No qualifiers were required.

Dioxin/Furans by 1613: There was a positive result for OCDD in the equipment blank RINSE082510 at a level that was below the QAPP required reporting limit of 10 pg/L. No further action was necessary.

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. Typically, samples are stored in a cooler for as much as 24 hours before arriving at the laboratory. Seven trip blanks were collected: TB082510GRL, TB082610GRL, TB082710GRL, TB082510JBA, TB082610JBA, TB082710JBA, and TRIP BLANK. None of the volatiles analytes were detected above the reporting limits in any of the trip blanks.

Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

Because actual analyte concentration in environmental samples is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis. One aliquot of sample is analyzed in the normal manner, than a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery (%R) is calculated. Matrix spike duplicates (MSD) analyses are generally performed for organic analyses as a precision check. For some organic analytical methods, such as NWTPH-Dx, a laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) sample set is performed in lieu of a MS/MSD analysis.

For inorganics methods, the matrix spike (referred to as a “spiked sample” is typically followed by a post spike sample if any element recoveries were outside the control limits in the “spike sample”. In this case, the laboratory did not analyze a post spike sample. No other action was taken other than to note it here.

Matrix spike analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for matrix spikes and laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits, with the following exceptions:

SDG RK98, RK99, RL06 (Metals): A single MS sample was performed on Sample PZ-9. There was no recovery for total manganese in this QC sample. There was no positive result for this compound in the parent sample. The parent concentration of total manganese was greater than four times the concentration spiked into the sample, no qualifiers were required.

SDG RK98: (SVOCs) A single MS sample was performed on Sample PZ-9. The MS %R values for N-Nitrosodiphenylamine was less than the control limit of 60%. There was no positive result for this compound in the parent sample. The reporting limits for N-Nitrosodiphenylamine were qualified (UJ) in the parent sample. Also, there was no recovery for 3,3'-Dichlorobenzidine in the same MS sample. As there was no positive result for this compound in the parent sample, the reporting limit for 3,3'-Dichlorobenzidine was rejected (R) in the parent sample.

SDG RK98: (Pesticides) A MS/MSD sample set was performed on Sample PZ-9. The %R values for 13 compounds exceeded their respective control limits. There were no positive results for these compounds in the parent sample. The reporting limits for all 13 compounds were qualified (UJ) in the parent sample only. The list of the 13 compounds are listed below:

4,4'DDE , 4,4'DDT, 4,4'DDD , Alpha-BHC, Delta-BHC, Heptachlor, Aldrin, Heptachlor Epoxide, Dieldrin, Endrin, Endosulfan II, Endosulfan Sulfate, Methoxychlor

Laboratory Control Samples/ Laboratory Control Sample Duplicates (LCS/LCSD)

A laboratory control sample is essentially a blank sample that is spiked with a known amount of analyte concentration and analyzed. It is to be treated much like a matrix spike, without the possibility for matrix interference. As there is no actual sample matrix in the analysis, the analytical expectations for accuracy

and precision are usually more rigorous and qualification would apply to all samples in the batch, instead of the parent sample only.

Laboratory control sample analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits, with the following exceptions:

SDG RK98 & RL06: (SVOCs) The %R values for N-Nitrosodiphenylamine were less than the control limit of 60% in the LCS/LCSD samples extracted on 8/30/10. There were no positive results for this compound in the associated batched samples. The reporting limits for N-Nitrosodiphenylamine were qualified (UJ) in all of the associated samples.

SDG RK98: (Pesticides) The %R values for delta-BHC, endosulfan II, endosulfan sulfate, and endrin aldehyde were less than the control limits of 30%, 68%, 60%, and 27% in the LCS sample extracted on 8/31/10. There were no positive results for these compounds in the associated batched samples. The reporting limits for delta-BHC, endosulfan II, endosulfan sulfate, and endrin aldehyde were qualified (UJ) in all of the associated samples.

SDG RL06: (Pesticides) The %R values for delta-BHC was less than the control limit of 30% in the LCS sample extracted on 9/2/10. There were no positive results for this compound in the associated batched samples. The reporting limits for delta-BHC were qualified (UJ) in all of the associated samples.

SDG RK99: (Pesticides) The %R values for delta-BHC and endosulfan sulfate were less than the control limits of 59%, and 60% in the LCS/LCSD sample set extracted on 9/7/10. There were no positive results for these compounds in the associated batched samples. The reporting limits for delta-BHC and endosulfan sulfate were qualified (UJ) in all of the associated samples.

Laboratory Duplicates (Inorganics analyses only)

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory, and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met in all cases.

Field Replicates/Duplicates

Field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. As mentioned above for the laboratory duplicates the RPD is used as the criteria for assessing precision, unless one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

SDG RK98: One set of field duplicates, Samples PZ-9 and DUP082610, was submitted to the laboratory. All RPD and absolute difference values were within the control limits.

Pesticide Breakdown Check Standards

The laboratory analyzed a DDT Breakdown check standard at the beginning and end of every analytical

batch, All of the % breakdown results were greater than the control limit of 20 %.

Internal Standards (Low Resolution Mass Spectrometry)

Like the surrogate, an internal standard is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Internal standards are used only for the mass spectrometry (MS) instrumentation and are usually added to the sample aliquot after extraction has taken place. The internal standard should be analyzed at the beginning of a 12 hour sample run and the control limits for internal standard recoveries are -50% to +100% of the calibration standard. All internal standard recoveries were within the control limits.

Initial Calibrations (ICALs)

All initial calibrations were conducted according to the laboratory methods, and consisted of the appropriate number of standards. For the organics analyses, all percent relative standard deviation (%RSD) values were less than +/- 30% and all relative response factors (RRF) were greater than 0.05.

Continuing Calibration (CCALs)

All continuing calibrations were conducted according to the laboratory methods, and consisted of the appropriate number of standards. For the organics analyses, all percent difference (%D) values were less than +/- 25% and all relative response factors (RRF) were greater than 0.05, with the following exceptions:

SDG RK99 (PAHs): The percent difference (%D) values for pyrene were greater than the control limits of $\pm 25\%$ in the continuing calibration (CCAL) standards analyzed on 9/21/10 and 9/22/10. As this outlier is indicative of a high bias, only the positive results for this compound were qualified as estimated (J) in Samples MW-54, MW-55, MW-56, PA-19, PZ-2, PZ-7, and PZ-11.

Additional Data Quality Issues

The positive results for 2,3,7,8-TCDF were qualified as estimated (J) in Samples MW-23 and PZ-4 because this compound was not confirmed by a secondary column by the laboratory. The positive result for the corresponding TEC value was also qualified as estimated (J).

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD and MS/MSD %R values, with the exceptions below. Precision was also acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and field duplicate RPD and absolute difference values, with the exceptions below:

Based on this validation, data were qualified because of surrogate %R values, LCS/LCSD & MS %R outliers, and continuing calibration %D outliers, and because of no secondary column confirmation being performed at low levels in the dioxin analysis.

Based on this validation, data were rejected because of volatile temperature and holding time outliers, and an MS %R value being less than 10%.

In general, the data are acceptable for use as qualified.

DATA QUALITY ASSESSMENT SUMMARY

**DIOXINS/FURANS EPA 1613,
 VOLATILES BY METHOD SW8260,
 SEMIVOLATILES BY METHOD SW8270,
 PAHS BY METHOD SW8270-SIM,
 PESTICIDES BY METHOD SW8081,
 PCBs BY METHOD SW8082,
 CHLOROPHENOLS BY METHOD SW8041,
 TOTAL METALS (INCLUDING MERCURY) BY METHOD EPA6010, 200.8, 7471A
 TOTAL PETROLEUM HYDROCARBONS BY METHODS NWTPH-Gx AND NWTPH-Dx**

ARI Laboratory SDG (Frontier SDG)	Samples Validated (Bold indicates the sample was qualified)
RT41, RT46	MW-62-2-3.5, MW-62-5-6.5, MW-62-10-11.5, MW-62-15-16.5, MW-62-20-21.5, MW-62-25-26.5, MW-62-30-31.5, MW-62-35-36.5, SSB-2-2-3.5, SSB-2-5-6.5, SSB-2-10-11.5, SSB-2-15-16.5, SSB-2-20-20.5, DUPE1-102110
RT40 (6433)	MW-60-2-3.5, MW-60-10-11.5, MW-60-15-16.5, MW-60-20-20.75, MW-60-23-24.4, MW-61-5-6.5, MW-61-10-11.5, MW-61-15-16.5, MW-61-20-21.25, MW-64-2-3.5, MW-64-10-11.5, MW-64-20-20.66, RB-10/18/10-W, RB-102110-W
RT02	SSB-3-2-3.5, SSB-3-10-11.5, SSB-3-15-16.5, SSB-3-20-21.5, SSB-3-25-26.5, SSB-3-27-28.5, SSB-4-5-6.5, SSB-4-10-11.5, SSB-4-15-16.5, SSB-4-21-22.33, RB-102210-W
RU19 (6432)	SSB-1-7-8.5, SSB-1-10-11.5, SSB-1-15-16.5, SSB-20-21.5, SSB-1-25-26.5, SSB-8-2-3.5, SSB-8-5-6.5, SSB-8-10-11.5, SSB-8-15-16.5, SSB-8-20-21.5, SSB-8-25-26.33, DUPE2-102510
RU30, RU69, RU70	RB-102510-W, RB-102610-W , RB-102810-W, GWG-8-W
RS79	MW-63-23-24.5, MW-63-26-27.5
RU43, RU61 (6435, 6436)	GWG-8-2-3.5, GWG-8-10-11.5, GWG-8-15-16.5, DUPE3-102810, SSB-5-10-11.5, SSB-5-15-16.5, SSB-5-20-21.5, SSB-6-5-6.5, SSB-6-10-11.5, SSB-7-2-3.5, SSB-7-10-11.5, SSB-7-20-21.5, SSB-7-25-26.5, SSB-7-30-30.75, SSB-9-2-3.5, SSB-9-5-6.5, SSB-9-10-11.5, SSB-9-15-16.5, SSB-9-20-21.5, SSB-10-2-3.5, SSB-10-5-6.5, SSB-10-10-11.5, SSB-10-15-16.5, SSB-10-20-21.5
RV28, RV17 (6446)	GWG-1-2-3.5, GWG-1-5-6.5, GWG-1-7.5-9, GWG-1-10-11.5, GWG-1-15-16.5, GWG-1-20-21.5, GWG-4-8-9.5 , GWG-4-10-11.5, GWG-4-15-16.5, GWG-4-20-21.5, GWG-4-26-27.5, GWG-4-30-31.5, GWG-5-2-3.5, GWG-5-5-6.5, GWG-5A-5-6.5, GWG-5A-10-11.5, GWG-5A-15-16.5, GWG-5A-20-21.5, GWG-5A-24-25.5, GWG-6-2-3.5, GWG-6-5-6.5, GWG-6-10-11.5, GWG-7-2-3.5, GWG-7-5-6.5, GWG-7-7-8.5 , RB-110410, RB-110510-W, SSB-6-15-16.5, SSB-6-20-21.5, SSB-6-25-26.5, SSB-6-28-28.75, SSB-6-28-29
RV10, RV13 (6448)	GWG-1-W, GWG-2-W, GWG-3-W, GWG-4-W, GWG-5-W, GWG-6-W, GWG-7-W , RB-110110-W, RB-110210-W, RB-110310-W
RV24	GWG-9-W
RW11, RW18, RW23	MW-62_101109, MW-63_101110, MW-64_101108

RW56, RW60	MW-60_101111, MW-61_101111
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PROJECT: RAYONIER MILL (00137-015-03)

This report documents the results of an EPA level III and EPA level IV (one SDG) data validation of analytical data from the analyses of soil and groundwater samples and the associated laboratory quality control (QC) samples. This standard review included the following:

- Chain of Custody
- Holding Times
- Surrogates/Labeled Compounds
- Method Blanks, Equipment Rinsate Blanks, and Trip Blanks
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory and Field Duplicates
- Internal Standards (Mass Spectrometry)
- DDT/Endrin Breakdown and column confirmations (Pesticides only)
- Instrument Initial Calibrations (ICALs)
- Instrument Continuing Calibrations (CCALs)
- Instrument Tunes
- Three HRGC/HRMS system performance checks (Dioxins/Furans only)
 1. Mass Calibration and Resolution
 2. Selected Ion Monitoring switching times
 3. GC Resolution
- Reporting Limits
- 2,3,7,8-TCDF secondary column confirmation

DATA PACKAGE COMPLETENESS

ARI, located in Tukwila, Washington, was the primary sub-contracted laboratory analyzing the samples evaluated as part of this data validation review. ARI analyzed all chemical parameters, with the exception of the dioxin/furan analyses. Frontier Analytical Laboratory in El Dorado Hills, California, as sub-contracted through ARI, conducted the Dioxin/Furan analyses. Both laboratories provided all required deliverables for the validation according to the National Functional Guidelines. Both laboratories followed adequate corrective action processes and all identified anomalies were discussed in the representative case narratives.



OBJECTIVE

The objective of the data validation was to review laboratory analytical procedures and quality control (QC) results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide detection limits below applicable regulatory criteria;
- The precision and accuracy of the data are well defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

DATA QUALITY ASSESSMENT SUMMARY

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in the USEPA Contract Laboratory Program *National Functional Guidelines for Inorganic Data Review* (USEPA 2002) and USEPA Contract Laboratory Program *National Functional Guidelines for Organic Data Review* (USEPA 2008), National functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) (USEPA 2005).

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. There were no anomalies noted on the COC forms; proper COC protocols appear to have been followed for this sampling event.

Holding Times

The holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for the analysis, with the following exceptions:

SDG RT40 (Semivolatiles, CPAHs, & Pesticides): The Rinse Blank RB-10/18/10-W was analyzed 3 days outside of the holding time of 7 days. There were no positive results for any semivolatile, CPAH, or pesticides target analytes in this sample. All reporting limits for these three analyses were qualified as estimated (UJ) in this sample.

SDG RU19 (Pesticides): Sample SSB-1-25-26.5 was analyzed 32 days outside of the holding time of 14 days. The positive results and reporting limits for all target analytes were qualified as estimated (J/UJ) in this sample.

SDG RV10 (PCBs): Samples GWG-1-W and GWG-3-W were analyzed several days outside of the holding time of 14 days. These samples were originally extracted/analyzed within holding time, although one or more surrogate %R values were low in each sample. For this reason, the second set of data was chosen for use. The positive results and reporting limits for all target analytes were qualified as estimated (J/UJ) in these samples.

Surrogate/Labeled Compound Recoveries

A surrogate compound is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added at a known concentration and percent recoveries are calculated following analysis.

All surrogate recoveries for field samples were within the laboratory control limits, with the following exceptions:

SDG RT41, RT46 (Semivolatiles): The percent recovery (%R) for at least one of four acid fraction surrogates were less than the laboratory lower control limits in Samples SSB-2-2-3.5, SSB-2-2-3.5 (Re-extraction), SSB-2-5-6.5, DUPE1-102110. As the %R values in at least two other acid-fraction surrogates were within the control limits, no action was taken.

SDG RT40 (CPAHs): The %R value for the surrogate d10-2-methylnaphthalene was less than 10% in Sample MW-60-10-11.5. All positive results were qualified as estimated (J) in this sample.

SDG RT40 (VOCs): The %R value for the surrogate d4-1,2-dichloroethane exceeded the control limits in Sample MW-RB-102110-W. As the %R values in three other surrogates were within the control limits, no action was taken.

SDG 6448 (Dioxins): The %R value for the labeled compound 13C-1,2,3,4,6,7,8-HpCDF was less than the control limit of 28% in Sample GWG-1-W. The positive result for the only associated compound 1,2,3,4,6,7,8-HpCDF was qualified as estimated (J) in this sample.

SDG RU19 (Pesticides): The %R for both surrogates were less than the lower control limits in Sample SSB-1-25-26.5. The positive results and reporting limits for all target analytes were qualified as estimated (J/UJ) in this sample.

SDG RU19 (Chlorophenols): There was no surrogate recovery in Samples SSB-1-7-8.5, SSB-1-10-11.5, and DUPE2-102510. The positive results were qualified as estimated (J) in these samples, while the reporting limits for any analytes that were not detected were rejected (R).

SDG RU43 (Chlorophenols): There was no surrogate recovery in Samples SSB-10-2-3.5, SSB-10-5-6.5, and SSB-10-11.5. The positive results were qualified as estimated (J) in these samples, while the reporting limits for any analytes that were not detected were rejected (R).

SDG RV10 (Pesticides): There was no recovery value for tetrachlorometaxylene (TCMX) in Sample GWG-1-W. The %R value for the surrogate decachlorobiphenyl (DCBP) was within the control limits. For this reason, the reporting limits for all target analytes were qualified (UJ), rather than rejected in Sample GWG-1-W.

Method Blanks & Equipment Rinsate Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. Method blanks were analyzed with each batch of samples, at a frequency of one per twenty samples. For all sample batches, method blanks for all applicable methods were analyzed at the required frequency.

None of the analytes of interest were detected above the reporting limits in any of the method blanks, with the following exceptions:

SDG RT41, RT46 (Semivolatiles): The method blank analyzed on 11/2/10 reported positive detections for 1,4-dichlorobenzene and bis(2-ethylhexyl)phthalate. These compounds were also reported in the associated field samples at levels below the respective action limits. The positive results for this 1,4-dichlorobenzene were qualified as not detected (U) in Samples MW-62-2-3.5, MW-62-5-6.5, MW-62-10-11.5, MW-62-15-16.5, MW-62-20-21.5, SSB-2-5-6.5, SSB-2-10-11.5, SSB-2-15-16.5, SSB-2-20-20.5, SSB-2-25-26.5. The positive results for this bis(2-ethylhexyl)phthalate were qualified as not detected (U) in Samples MW-62-5-6.5, MW-62-10-11.5, MW-62-15-16.5, MW-62-20-21.5, SSB-2-10-11.5.

The method blank analyzed on 11/12/10 reported a positive detection for 1,4-dichlorobenzene. There were no positive results for these compounds greater than the action levels. No further action was

necessary.

SDG RT40 (Semivolatiles): The method blank analyzed on 10/30/10 reported positive detections for 1,4-dichlorobenzene and bis(2-ethylhexyl)phthalate. These compounds were also reported in the associated field samples at levels below the respective action limits. The positive results for this 1,4-dichlorobenzene were qualified as not detected (U) in Samples MW-60-20-20.75 and MW-60-23-24.4. The positive results for this bis(2-ethylhexyl)phthalate were qualified as not detected (U) in Samples MW-61-5-6.5, MW-61-15-16.5, MW-60-2-3.5, MW-60-15-16.5, MW-60-20-20.75, MW-60-23-24.4.

SDG RT40 (CPAHs): The method blank analyzed on 10/30/10 reported positive detections for pyrene and total benzofluoranthenes. These compounds were also reported in the associated field samples at levels below the respective action limits. The positive results for pyrene were qualified as not detected (U) in Samples MW-61-20-21.25 and MW-60-23-24.4. The positive results for total benzofluoranthenes were qualified as not detected (U) in Samples MW-61-10-11.5, MW-61-15-16.5 and MW-60-20-20.75.

SDG RT02 (Semivolatiles): The method blank analyzed on 11/2/10 reported positive detections for 1,4-dichlorobenzene and bis(2-ethylhexyl)phthalate. These compounds were also reported in the associated field samples at levels below the respective action limits. The positive results for 1,4-dichlorobenzene were qualified as not detected (U) in Samples SSB-3-10-11.5, SSB-3-15-16.5, SSB-3-20-21.5, SSB-3-27-28.5. The positive results for this bis(2-ethylhexyl)phthalate were qualified as not detected (U) in Samples SSB-3-10-11.5, SSB-3-15-16.5, SSB-3-20-21.5, SSB-3-25-26.5.

SDG RU30, RU69, RU70 (CPAHs): The method blank analyzed on 11/1/10 reported positive detections for six out of the seven target analytes. Of these compounds, only pyrene and benzo(a)anthracene were also reported in any of the associated field samples at levels below the respective action limits. The positive results for pyrene and benzo(a)anthracene were qualified as not detected (U) in Sample RB-102610-W.

SDG RU43, RU61 (Semivolatiles): The method blank analyzed on 11/8/10 reported a positive detection for 1,4-dichlorobenzene. This compound was also reported in the associated field samples at levels below the respective action limits. The positive results for this 1,4-dichlorobenzene were qualified as not detected (U) in Samples SSB-10-15-16.5, SSB-10-20-21.5, GWG-8-2-3.5, GWG-8-10-11.5, GWG-8-15-16.5, DUPE3-102810, SSB-7-2-3.5, SSB-7-10-11.5, SSB-7-20-21.5, SSB-7-25-26.5, SSB-7-30-30.75.

SDG RU28, RV17 (Semivolatiles): The method blank analyzed on 11/10/10 reported positive detections for 1,4-dichlorobenzene and bis(2-ethylhexyl)phthalate. These compounds were also reported in the associated field samples at levels below the respective action limits. The positive results for 1,4-dichlorobenzene were qualified as not detected (U) in Samples GWG-6-2-3.5, GWG-6-5-6.5, GWG-6-10-11.5, GWG-7-2-3.5, GWG-7-5-6.5, GWG-7-7-8.5, GWG-5-2-3.5, GWG-5A-5-6.5, GWG-5A-10-11.5, GWG-5A-15-16.5, GWG-5A-24-25.5. The positive results for bis(2-ethylhexyl)phthalate were qualified as not detected (U) in Samples GWG-6-2-3.5, GWG-6-10-11.5, GWG-7-5-6.5, GWG-7-7-8.5, GWG-5A-5-6.5, GWG-5A-10-11.5, GWG-5A-15-16.5, GWG-5A-24-25.5.

Equipment rinsate blanks are analyzed to provide an indication as to whether field decontamination and sampling procedures effectively prevent cross-contamination in field activities. Three equipment rinsate blanks were collected: RB-10/18/10-W, RB-102110-W, RB-102210-W, RB-102510-W, RB-102610-W, RB-102710-W, RB-102810-W, RB-110110-W, RB-110210-W, RB-110310-W, RB-110410-W.

SDG RT40 & RT02 (Metals): There were positive results for copper, manganese, nickel, and vanadium in the equipment blanks RB-102110-W and RB-102210-W. The associated field samples for these rinsate blanks reported positive results for these elements at levels greater than the action levels. No further action was required.

SDG RV10 (Metals): There was a positive result for copper in the equipment blank RB-110210-W. Also, there was a positive result for manganese in the equipment blank RB-110310-W. The associated field samples for this rinsate blank reported positive results for this element at levels greater than the action levels. No further action was required.

SDG RV28 (Metals): There was a positive result for copper in the equipment blank RB-110410-W. The associated field samples for this rinsate blank reported positive results for this element at levels greater than the action levels. No further action was required.

SDG RU30, RU69, RU70 (Semivolatiles): There was a positive result for bis(2-ethylhexyl)phthalate in the equipment blank RB-102510-W. The associated field Samples SSB-1-7-8.5, SSB-1-10-11.5, SSB-1-15-16.5, SSB-1-25-26.5 reported positive results for this compound at levels greater than the action level for this compound. No further action was necessary.

SDG RV10, RV13 (Semivolatiles): There was a positive result for bis(2-ethylhexyl)phthalate in the equipment blank RB-110210-W. The associated field Sample GWG-6-W reported a positive result for this compound at levels that were less than the action level for this compound. The positive result for bis(2-ethylhexyl)phthalate was qualified as not detected (U) in Sample GWG-6-W.

SDG RU19 and RU30 (Dioxins): There was a positive result for OCDD in the equipment blank RB-102510-W. The associated field Samples SSB-1-7-8.5, SSB-1-10-11.5, SSB-1-15-16.5, SSB-1-20-21.5, SSB-1-25-26.5 reported positive results at levels greater than ten times the blank concentration for this compound. No further action was necessary.

SDG RV10 (Dioxins): There was a positive result for OCDD in the equipment blank RB-110310-W. The associated field Samples GWG-1-2-3.5, GWG-1-5-6.5, GWG-1-7.5-9 and GWG-5-W reported positive results at levels greater than ten times the blank concentration for this compound. No further action was necessary.

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. Typically, samples are stored in a cooler for as much as 24 hours before arriving at the laboratory. Seven trip blanks were collected: TB082510GRL, TB082610GRL, TB082710GRL, TB082510JBA, TB082610JBA, TB082710JBA, and TRIP BLANK. None of the volatiles analytes were detected above the reporting limits in any of the trip blanks.

In all cases, the blank contamination qualified results should be recognized as a reporting limit, instead of a positive result for data users.

Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

Because actual analyte concentration in environmental samples is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis. One aliquot of sample is analyzed in the normal manner, than a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery (%R) is calculated. Matrix spike duplicates (MSD) analyses are generally performed for organic analyses as a precision check. For some organic analytical methods, such as NWTPH-Dx, a laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) sample set is performed in lieu of a MS/MSD analysis.

For inorganics methods, the matrix spike (referred to as a “spiked sample” is typically followed by a post spike sample if any element recoveries were outside the control limits in the “spike sample”.

Matrix spike analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for matrix spikes and laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits, with the following exceptions:

SDG RU43, RU61 (Semivolatiles): A MS/MSD sample set was performed on Sample SSB-7-2-3.5. There were no recovery values for 3,3'-Dichlorobenzidine in either the MS or the MSD. There was no positive



result for this compound in the parent sample. The reporting limits for 3,3'-Dichlorobenzidine were rejected (R) in the parent sample.

SDG RU28, RV17 (Semivolatiles): A MS/MSD sample set was performed on Sample GWG-6-5-6.5. The %R values for 2,4'-Dinitrotoluene were less than the control limits in both the MS and the MSD. There was no positive result for this compound in the parent sample. The reporting limits for 2,4'-Dinitrotoluene were qualified as estimated (UJ) in the parent sample.

SDG RT40 (Total Metals): A matrix spike sample set was performed on Sample MW-64-2-3.5. The %R value for antimony was less than 10% in the spiked sample. The %R values for antimony was within the control limits in the post digest spike sample. According to the National Functional Guidelines, no further action is required.

SDG RT41 (Total Metals): A matrix spike sample set was performed on Sample SSB-2-2-3.5. The %R value for antimony was less than 10% in the spiked sample. The %R values for antimony was within the control limits in the post digest spike sample. According to the National Functional Guidelines, no further action is required.

SDG RT02 (Total Metals): A matrix spike sample set was performed on Sample SSB-4-5-6.5. The %R values for antimony, lead, nickel, and selenium were outside of the control limits in the spiked sample. The %R values for these elements were within the control limits in the post digest spike sample. According to the National Functional Guidelines, no further action is required.

SDG RU19 (Total Metals): A matrix spike sample set was performed on Sample SSB-8-2-3.5. The %R values for antimony, lead, nickel, and vanadium were outside of the control limits in the spiked sample. The %R values for these elements were within the control limits in the post digest spike sample. According to the National Functional Guidelines, no further action is required.

SDG RU43 (Total Metals): A matrix spike sample set was performed on Sample SSB-10-2-3.5. The %R values for antimony and nickel were outside of the control limits in the spiked sample. The %R values for these elements were within the control limits in the post digest spike sample. According to the National Functional Guidelines, no further action is required.

SDG RV17 (Total Metals): A matrix spike sample set was performed on Sample GWG-6-2-3.5. The %R value for antimony was outside of the control limits in the spiked sample. The %R value for this element was within the control limits in the post digest spike sample. According to the National Functional Guidelines, no further action is required.

SDG RV28 (Total Metals): A matrix spike sample set was performed on Sample GWG-5-2-3.5. The %R values for antimony, chromium, copper, lead, and mercury were outside of the control limits in the spiked sample. The %R value for these elements was within the control limits in the post digest spike sample. According to the National Functional Guidelines, no further action is required.

Laboratory Control Samples/ Laboratory Control Sample Duplicates (LCS/LCSD)

A laboratory control sample is essentially a blank sample that is spiked with a known amount of analyte concentration and analyzed. It is to be treated much like a matrix spike, without the possibility for matrix interference. As there is no actual sample matrix in the analysis, the analytical expectations for accuracy and precision are usually more rigorous and qualification would apply to all samples in the batch, instead of the parent sample only.

Laboratory control sample analyses should be performed once per analytical batch or every twenty field



samples, whichever is more frequent. The recovery criteria for laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits.

Laboratory Duplicates (Inorganics analyses only)

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory, and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met in all cases.

Field Replicates/Duplicates

Field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. As mentioned above for the laboratory duplicates the RPD is used as the criteria for assessing precision, unless one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

The RPD control limits for soil samples is 50%, while the RPD control limits for water samples is 35%. The absolute difference control limits for soil samples is twice the PQL value, while the absolute difference control limits for water samples is the same as the PQL value.

In cases where any of the cPAH compounds or Dioxin/Furan congeners were qualified for precision, the resulting TEC value was also qualified as estimated (J) in that sample.

SDG RT41,46 (CPAHs): One set of field duplicates, Samples SSB-2-5-6.5 & DUPE1-102110, was submitted to the laboratory. The RPD/absolute difference values for all CPAH compounds exceeded the control limits described above. All positive results were qualified as estimated (J) in both samples.

SDG RT41,46 (PCBs): One set of field duplicates, Samples SSB-2-5-6.5 & DUPE1-102110, was submitted to the laboratory. The RPD/absolute difference values for PCB 1260 and Total PCBs (sum of Aroclors) exceeded the control limits described above. All positive results were qualified as estimated (J) in both samples.

SDG RT43, RU61 (Semivolatiles): One set of field duplicates, Samples GWG-8-2-3.5 & DUPE3-102810, was submitted to the laboratory. The absolute difference value for bis(2-ethylhexyl)phthalate exceeded the control limit. This compound was qualified as estimated (J) in both parent and duplicate samples.

SDG RT43, RU61 (CPAHs), (Metals), (Fuels), (Chlorophenols): One set of field duplicates, Samples GWG-8-2-3.5 & DUPE3-102810, was submitted to the laboratory. The absolute difference value for chrysene exceeded the control limit. This compound was qualified as estimated (J) in both parent and duplicate samples.

SDG RT43, RU61 (Metals), (Fuels), (Chlorophenols): One set of field duplicates, Samples GWG-8-2-3.5 & DUPE3-102810, was submitted to the laboratory.

SDG RU19 (Pesticides & PCBs): One set of field duplicates, Samples SSB-1-10-11.5 & DUPE2-102510, was submitted to the laboratory. The precision requirements mentioned above were met for all target analytes.

Pesticide Breakdown Check Standards and Dual Column Confirmations

The laboratory analyzed a DDT Breakdown check standard at the beginning and end of every analytical batch, All of the % breakdown results were greater than the control limit of 20 %.

SDG RU61 (Pesticides): The Aroclor 1260 column confirmation RPD value was greater than 40% in Sample SSB-7-23.5. This positive result was qualified as estimated (J).

Internal Standards (Low Resolution Mass Spectroscopy)

Like the surrogate, an internal standard is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Internal standards are used only for the mass spectrometry (MS) instrumentation and are usually added to the sample aliquot after extraction has taken place. The internal standard should be analyzed at the beginning of a 12 hour sample run and the control limits for internal standard recoveries are -50% to +100% of the calibration standard. All internal standard recoveries were within the control limits.

Initial Calibrations (ICALs)

All initial calibrations were conducted according to the laboratory methods, and consisted of the appropriate number of standards. For the organics analyses, all percent relative standard deviation (%RSD) values were less than +/- 30% and all relative response factors (RRF) were greater than 0.05.

SDG RU30 (Pesticides): The initial calibration (secondary column 11/11/10) used less than five standards for the analyte delta-BHC. However, this analyte was appropriately calibrated for on the primary column, and there were no positive detections for this compound in the associated field samples. No action was required.

Continuing Calibration (CCALs)

All continuing calibrations were conducted according to the laboratory methods, and consisted of the appropriate number of standards. For the organics analyses, all percent difference (%D) values were less than +/- 25% and all relative response factors (RRF) were greater than 0.05, with the following exceptions:

SDG RT41,46 (Semivolatiles): The percent difference (%D) values for 2,4-Dinitrotoluene were less than the control limits of $\pm 25\%$ in the continuing calibration (CCAL) standards analyzed on 11/5/10 and 11/15/10. The reporting limits for this compound were qualified as estimated (UJ) in Samples MW-62-2-3.5, SSB-2-2-3.5, DUPE1-102110.

SDG RT40 (Semivolatiles): The %D values for 2,4-Dinitrotoluene were less than the control limits of $\pm 25\%$ in the continuing calibration (CCAL) standards analyzed on 11/4/10. The reporting limits for this compound were qualified as estimated (UJ) in Samples RB-10/18/10-W, RB-102110-W.

SDG RT02 (Semivolatiles): The %D values for 2,4-Dinitrotoluene were less than the control limits of $\pm 25\%$ in the continuing calibration (CCAL) standards analyzed on 11/4/10. The reporting limit for this compound was qualified as estimated (UJ) in Sample RB-102210-W.

The %D values for 2,4-Dinitrotoluene were less than the control limits of $\pm 25\%$ in the continuing calibration (CCAL) standards analyzed on 11/5/10. The reporting limits for this compound were qualified as estimated (UJ) in Samples SSB-3-2-3.5, SSB-3-10-11.5, SSB-3-15-16.5, SSB-3-20-21.5, SSB-3-25-26.5, SSB-3-27-28.5.

SDG RU28, RV17 (Semivolatiles): The %D values for 2,4-Dinitrotoluene were less than the control limits of $\pm 25\%$ in the continuing calibration (CCAL) standards analyzed on 11/15/10. The reporting limits for this compound were qualified as estimated (UJ) in Samples GWG-6-2-3.5, GWG-6-5-6.5, GWG-6-10-11.5, GWG-7-2-3.5, GWG-7-5-6.5, GWG-7-7-8.5, GWG-5-2-3.5, GWG-5A-5-6.5, GWG-5A-10-11.5, GWG-5A-15-16.5, GWG-5A-20-21.5.

SDG RU19 (Pesticides): The secondary column %D values for delta-BHC and heptachlor were both outside of the control limits of $\pm 25\%$ in the opening and closing CCAL standards analyzed on 12/10/10 (18:09 and 20:35). The primary column %D values for these analytes were within the control limits, no qualification was required.

SDG RV17 (Pesticides): The secondary column %D value for 4,4'-DDD was outside of the control limit of $\pm 25\%$ in the CCAL standard analyzed on 11/28/10 (02:13). The primary column %D value for this analyte was within the control limits, no qualification was required.

Internal Standards (Low Resolution Mass Spectroscopy)

Like the surrogate, an internal standard is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Internal standards are used only for the mass spectrometry (MS) instrumentation and are usually added to the sample aliquot after extraction has taken place. The internal standard should be analyzed at the beginning of a 12 hour sample run and the control limits for internal standard recoveries are -50% to +100% of the calibration standard. All internal standard recoveries were within the control limits.

SDG 6432 (Dioxins): The positive result for 2,3,7,8-TCDF in Sample SSB-1-10-11.5 was not verified by a secondary column as described above. For this reason, the positive result for 2,3,7,8-TCDF was qualified as estimated (J) in this sample.

SDG 6448 (Dioxins): The positive results for 2,3,7,8-TCDF in Samples GWG-1-W, GWG-3-W, and GWG-5-W were not verified by a secondary column as described above. For this reason, the positive result for 2,3,7,8-TCDF was qualified as estimated (J) in this sample.

SDG 6446 (Dioxins): The positive result for 2,3,7,8-TCDF in Sample GWG-1-5-6.5 was not verified by a secondary column as described above. For this reason, the positive result for 2,3,7,8-TCDF was qualified as estimated (J) in this sample.

Reporting Limits and Miscellaneous

SDG RU43, RU61 (Semivolatiles): The compound bis(2-ethylhexyl)phthalate exceeded the linear range of the instrument in Samples SSB-7-20-21.5, SSB-10-10-11.5 and DUPE3-102810. For this reason, these samples were diluted by the laboratory and re-analyzed. Both sets of data were reported. In each sample, the initial reported result for bis(2-ethylhexyl)phthalate was labeled as “Not reportable” in the database. Also in each sample, the diluted reporting limits for all target analytes except bis(2-ethylhexyl)phthalate were labeled as “Not reportable” in the database.

SDG RU28, RV17 (Semivolatiles): The compound bis(2-ethylhexyl)phthalate exceeded the linear range of the instrument in Sample GWG-5A-20-21.5. For this reason, this sample was diluted by the laboratory and re-analyzed. Both sets of data were reported. In this sample, the initial reported result for bis(2-ethylhexyl)phthalate was labeled as “Not reportable” in the database. Also, the diluted reporting limits for all target analytes except bis(2-ethylhexyl)phthalate were labeled as “Not reportable” in the database.

These database qualifiers were assigned so that only one set of target analytes would be displayed in any data tables derived from the database.

SDG RT40 (CPAHs): The compound pyrene exceeded the linear range of the instrument in Sample MW-60-15-16.5. For this reason, this sample was diluted by the laboratory and re-analyzed. Both sets of data were reported. In each sample, the initial reported result for pyrene was labeled as “Not reportable” in the database. Also in each sample, the diluted reporting limits for all target analytes except pyrene were labeled as “Not reportable” in the database.

All Pesticides and PCBs: The laboratory indicated that several samples were screened before extraction because of the probable affects of natural matrix interference. In cases where certain Aroclors and pesticides could not be distinguished because of chromatographic interference, the laboratory raised the reporting limits, and indicated this with a “Y” qualifier. These data points were appropriately taken through the validation process, and these reporting limits were qualified (UI) in GeoEngineer’s database.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD and MS/MSD %R values, with the exceptions mentioned above. Precision was also acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and field duplicate RPD and absolute difference values, with the exceptions mentioned above.

Data were qualified because of holding time, surrogate %R, MS/MSD %R, field duplicate RPD/absolute difference, dual column confirmation precision, CCAL %D outliers, and because of no secondary column confirmation being performed at low levels in the dioxin analysis.

Data were qualified as not detected because of method blank and equipment blank contamination.

In general, the data are acceptable for use as qualified.



DATA QUALITY ASSESSMENT SUMMARY

**DIOXINS/FURANS EPA 1613,
 SEMIVOLATILES BY METHOD SW8270,
 PAHS BY METHOD SW8270-SIM,
 PCBs BY METHOD SW8082,
 CHLOROPHENOLS BY METHOD SW8041,
 TOTAL & DISSOLVED METALS (INCLUDING MERCURY) BY METHODS 200.8, 6010A & 7470A
 TOTAL PETROLEUM HYDROCARBONS BY METHODS NWTPH-Gx & NWTPH-Dx**

ARI Laboratory SDG (Frontier SDG)	Samples Validated (Bold indicates the sample was qualified)
SD95, SD99 (6524)	PIPE-1-SR23
SD94, SF62 (TCLP only)	TP-01-2', TP-01-8' , TP-01-10', TP-02-2' , TP-02-8' , TP-02-9', TP-03-2', TP-03-4', TP-03-7' , TP-12-2' , TP-12-4' , TP-DUPE-1
SD96, SE71 (TCLP only)	TP-09-2', TP-09-3', TP-09-5', TP-10-2', TP-10-3', TP-11-2', TP-11-5' , TP-11-7', TP-14-2', TP-14-3' , TP-14-5', TP-15-2' , TP-15-4', TP-15-5', TP-16-2', TP-16-5', TP-21-3', TP-DUPE-3
SD98	TP-04-2', TP-04-7', TP-05-2' , TP-05-6' , TP-05-8', TP-06-3', TP-06-7', TP-07-2' , TP-07-6' , TP-07-8', TP-08-2', TP-08-5', TP-DUPE-2

PROJECT: RAYONIER MILL (00137-015-03)

This report documents the results of an EPA level III data validation of analytical data from the analyses of groundwater and the associated laboratory quality control (QC) samples. This standard review normally includes the following:

- Chain of Custody
- Holding Times
- Surrogates/Labeled Compounds
- Method Blanks, Equipment Rinsate Blanks, and Trip Blanks
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory and Field Duplicates
- Internal Standards (Mass Spectrometry)
- DDT/Endrin Breakdown confirmations (Pesticides only)
- Instrument Initial Calibrations (ICALs)
- Instrument Continuing Calibrations (CCALs)

- Instrument Tunes
- Three HRGC/HRMS system performance checks (Dioxins/Furans only)
 1. Mass Calibration and Resolution
 2. Selected Ion Monitoring switching times
 3. GC Resolution
- Reporting Limits and Miscellaneous
- 2,3,7,8-TCDF secondary column confirmation

DATA PACKAGE COMPLETENESS

ARI, located in Tukwila, Washington, was the primary sub-contracted laboratory analyzing the samples evaluated as part of this data validation review. ARI analyzed all chemical parameters, with the exception of the dioxin/furan analyses. Frontier Analytical Laboratory in El Dorado Hills, California, as sub-contracted through ARI, conducted the Dioxin/Furan analyses. Both laboratories provided all required deliverables for the validation according to the National Functional Guidelines. Both laboratories followed adequate corrective action processes and all identified anomalies were discussed in the representative case narratives.

OBJECTIVE

The objective of the data validation was to review laboratory analytical procedures and quality control (QC) results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide detection limits below applicable regulatory criteria;
- The precision and accuracy of the data are well defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

DATA QUALITY ASSESSMENT SUMMARY

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in the USEPA Contract Laboratory Program *National Functional Guidelines for Inorganic Data Review* (USEPA 2002) and USEPA Contract Laboratory Program *National Functional Guidelines for Organic Data Review* (USEPA 2008), National functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) (USEPA 2005).

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. There were no anomalies noted on the COC forms; proper COC protocols appear to have been followed for this sampling event.

Holding Times

The holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for all analyses, with the exceptions below:

Surrogate/Labeled Compound Recoveries

A surrogate compound is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added at a known concentration and percent recoveries are calculated following analysis. All surrogate recoveries for field samples were within the laboratory control limits, with the exceptions below:

SD94 (Semivolatiles): The percent recovery (%R) value for 2,4,6-tribromophenol was less than the control limit in Sample TP-12-2'. There were three other acidic surrogates with %R values that were within the control limits. No qualifiers were required.

SD95 (Semivolatiles): The %R value for d14-p-Terphenyl was less than the control limits in Sample PIPE-1-SR23. There were three other base-neutral surrogates with %R values that were within the control limits. No qualifiers were required.

SD98 (Semivolatiles): The %R values for the acidic fraction surrogates d5-phenol, 2-fluorophenol, 2,4,6-tribromophenol, and d4-2-chlorophenol were all less than 10% in Samples TP-4-2' and TP-4-7'. The SVOC target analyte list only included base-neutral compounds in this phase of the project. For this reason, no qualifiers were required in either case.

SD94 (CPAHs): The %R value for d10-2-methylnaphthalene was greater than the control limit in Sample TP-2-8'. The positive results for pyrene, benzo(a)pyrene, and the resulting TEQ value were qualified as estimated (J) in this sample.

SD96 (CPAHs): The %R value for d10-2-methylnaphthalene was greater than the control limit in Sample TP-11-5'. The positive results for six target analytes and the resulting TEQ value were qualified as estimated (J) in this sample.

Method Blanks, Trip Blanks & Equipment Rinsate Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. Method blanks were analyzed with each batch of samples, at a frequency of one per twenty samples. For all sample batches, method blanks for all applicable methods were analyzed at the required frequency.

None of the analytes of interest were detected above the reporting limits in any of the method blanks.

In all cases, any blank contamination qualified results should be recognized as a reporting limit, instead of a positive result for data users.

Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

Because actual analyte concentration in environmental samples is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis. One aliquot of sample is analyzed in the normal manner, than a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery (%R) is calculated. Matrix spike duplicates (MSD) analyses are generally performed for organic analyses and the relative percent difference (RPD) is used as a measurement of precision. For some organic analytical methods, such as

NWTPH-Dx, a laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) sample set is performed in lieu of a MS/MSD analysis.

For inorganics methods, the matrix spike (referred to as a “spiked sample” is typically followed by a post spike sample if any element recoveries were outside the control limits in the “spike sample”.

Matrix spike analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for matrix spikes and laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits, with the exception below:

SD94 (Semivolatiles): An MS/MSD sample set was performed on Sample TP-01-8'. The %R value for 3,3'-dichlorobenzidine was less than 10% in the MS, while the %R value was acceptable in the MSD. The reporting limit for this analyte was qualified as estimated (UJ), rather than rejected (R) in the parent sample.

SD94 (CPAHs): An MS/MSD sample set was performed on Sample TP-03-4'. The %R values for several analytes were greater than the control limits in the MS and MSD. The parent sample had at least one analyte that had a concentration that exceeded the linear range of the instrument. For this reason, no qualifiers were required.

SD94 (Metals): The laboratory performed a matrix spike on Sample TP-02-2'. The %R values for Total Antimony and Total Manganese were greater outside of the control limits of 75% to 125%. The Total Antimony recovery in the post spike was within the control limits. The parent sample concentration of manganese was greater than four times the amount spiked into the sample, no action was required.

SD96 (Metals): The laboratory performed a matrix spike on Sample TP-05-2'. The %R values for Total Antimony and Total Manganese were greater outside of the control limits of 75% to 125%. The Total Antimony recovery in the post spike was within the control limits. The parent sample concentration of manganese was greater than four times the amount spiked into the sample, no action was required.

SD98 (Metals): The laboratory performed a matrix spike on Sample TP-05-2'. The %R values for Total Antimony and Total Manganese were greater outside of the control limits of 75% to 125%. The Total Antimony recovery in the post spike was within the control limits. The parent sample concentration of manganese was greater than four times the amount spiked into the sample, no action was required.

Laboratory Control Samples/ Laboratory Control Sample Duplicates (LCS/LCSD)

A laboratory control sample is essentially a blank sample that is spiked with a known amount of analyte concentration and analyzed. It is to be treated much like a matrix spike, without the possibility for matrix interference. As there is no actual sample matrix in the analysis, the analytical expectations for accuracy and precision are usually more rigorous and qualification would apply to all samples in the batch, instead of the parent sample only.

Laboratory control sample analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits.



Laboratory Duplicates (Inorganics analyses only)

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory, and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met in all cases.

Field Replicates/Duplicates

Field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. As mentioned above for the laboratory duplicates the RPD is used as the criteria for assessing precision, unless one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

The RPD control limits for soil samples is 50%, while the RPD control limits for water samples is 35%. The absolute difference control limits for soil samples is twice the PQL value, while the absolute difference control limits for water samples is the same as the PQL value.

In cases where any of the cPAH compounds or Dioxin/Furan congeners were qualified for precision, the resulting TEC value was also qualified as estimated (J) in that sample.

SDG SD94: One set of field duplicates, Samples TP-02-8' & TP-DUPE-1, was submitted to the laboratory.

(SVOCs): There were no positive results in either sample. However, the reporting limits for Sample TP-DUPE-1 were more than twice the reporting limits in Sample TP-02-8'. This indicates a potential lack of precision in the field duplicates. For this reason, all reporting limits in both samples were qualified as estimated (UJ).

(CPAHs): The RPD/absolute difference values for chrysene, benzo(a)pyrene, total benzofluoranthenes, and the TEQ value exceeded the control limits described above. All positive results and reporting limits were qualified as estimated (J/UJ) in both samples.

(PCBs, Chlorophenols, Fuels, Metals): The precision requirements mentioned above were met for all target analytes.

SDG SD96: One set of field duplicates, Samples TP-11-5' & TP-DUPE-3, was submitted to the laboratory.

(SVOCs, CPAHs, PCBs, Chlorophenols, Fuels, Metals): The precision requirements mentioned above were met for all target analytes.

SDG SD98: One set of field duplicates, Samples TP-07-2' & TP-DUPE-2, was submitted to the laboratory.

(SVOCs, PCBs, Chlorophenols, Fuels): The precision requirements mentioned above were met for all target analytes.

(CPAHs): The absolute difference value for benzo(a)pyrene exceeded the control limits described above. The positive results were qualified as estimated (J) in both samples.



(PCBs): The absolute difference value for benzo(a)pyrene exceeded the control limits described above. The positive results were qualified as estimated (J) in both samples.

(Total Metals): The RPD value for arsenic exceeded the control limits described above. The positive results were arsenic were qualified as estimated (J) in all samples in the sample delivery group.

Internal Standards (Low Resolution Mass Spectrometry)

Like the surrogate, an internal standard is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Internal standards are used only for the mass spectrometry (MS) instrumentation and are usually added to the sample aliquot after extraction has taken place. The internal standard should be analyzed at the beginning of a 12 hour sample run and the control limits for internal standard recoveries are -50% to +100% of the calibration standard. All internal standard recoveries were within the control limits.

(CPAHs): Several internal standard recovery values were greater than the control limits mentioned above. These outliers were indicative of an instrumental high bias, leaving the reporting limits for non-detected analytes unaffected.

(SDG SD94): The positive results for all target analytes and the resulting TEQ values were qualified as estimated (J) in Samples TP-03-2', TP-03-4', and TP-01-8' because the internal standards d12-chrysene and d12-perylene were outside the control limits. The positive results for pyrene, benzo(a)anthracene, chrysene, and the resulting TEQ values were qualified as estimated (J) in Samples TP-02-4', TP-12-2', and TP-12-4' because the internal standard d12-chrysene was outside the control limits.

(SDG SD96): The positive results for all target analytes and the resulting TEQ values were qualified as estimated (J) in Samples TP-11-5', TP-15-2', and TP-DUPE-3' because the internal standards d12-chrysene and d12-perylene were outside the control limits. The positive results for pyrene, benzo(a)anthracene, chrysene, and the resulting TEQ value were qualified as estimated (J) in Sample TP-14-3' because the internal standard d12-chrysene was outside the control limits. The positive results for benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, total benzofluoranthenes, and the resulting TEQ values were qualified as estimated (J) in Samples TP-09-3' and TP-11-2' because the internal standard d12-perylene was outside the control limits.

(SDG SD98): The positive results for benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, total benzofluoranthenes, and the resulting TEQ values were qualified as estimated (J) in Samples TP-07-2' and TP-08-2' because the internal standard d12-perylene was outside the control limits.

Initial Calibrations (ICALs)

All initial calibrations were conducted according to the laboratory methods, and consisted of the appropriate number of standards. For the organics analyses, all percent relative standard deviation (%RSD) values were less than +/- 30% and all relative response factors (RRF) were greater than 0.05.

Continuing Calibration (CCALs)

All continuing calibrations were conducted according to the laboratory methods, and consisted of the appropriate number of standards. For the organics analyses, all percent difference (%D) values were less than +/- 25% and all relative response factors (RRF) were greater than 0.05.

Initial Three HRGC/HRMS system performance checks (Dioxins/Furans only)



There are three fundamental system performance checks that must be conducted for every analytical batch of dioxin/furan samples, according to method EPA 1613. Mass calibration and resolution is the first part of the three fundamental High Resolution Gas Chromatography/HRMS (HRGC/HRMS) system performance checks. The second fundamental performance check is the Mass Spectrometer Selected Ion Monitoring (SIM) scan descriptor switching times. The third fundamental performance check is Gas Chromatograph (GC) resolution.

All three of these performance checks were appropriately conducted and no findings of significance were observed from this validation.

Reporting Limits and Miscellaneous

CPAHs: The laboratory flagged several results with an “M”, indicating that there was a low spectral match which reduced confidence in the qualitative analysis of the sample result. Consequently, the results listed below were qualified as tentatively identified (NJ) in the associated samples. The resulting TEQ values from these samples should be considered estimates.

Sample ID	Analytes
TP-02-2'	Total Benzofluoranthenes
TP-02-8'	Pyrene
TP-03-7'	Benzo(a)anthracene, Benzo(a)pyrene, Total Benzofluoranthenes, Chrysene
TP-DUPE-1	Benzo(a)pyrene, Total Benzofluoranthenes, Chrysene, pyrene

SDG SD95 (CPAHs): The compound pyrene exceeded the linear range of the instrument in Sample PIPE-1-SR23. For this reason, this sample was diluted by the laboratory and re-analyzed. Both sets of data were reported. In each sample, the initial reported result for pyrene was qualified as “Not reportable” in the database. Also in each sample, the diluted reporting limits for all target analytes except pyrene were qualified as “Not reportable” in the database.

SDG SD95 (Chlorophenols): The positive result for pentachlorophenol in Sample PIPE-1-SR23 could not be confirmed by a secondary column confirmation by the laboratory because of chromatographic interference. For this reason, the positive result for this target analyte was qualified as tentatively identified (NJ).

Reporting Limits

SVOCs: Samples TP-02-8', TP-03-7', TP-12-2', TP-12-4', TP-DUPE-1, TP-11-5', TP-14-3; TP-15-2', and TP-DUPE-3' were analyzed at dilutions or used a lower amount of mass in the initial extraction. In any case the outcome was to effectively raise the reporting limits to levels greater than those prescribed in the QAPP due to potential matrix interference. There were no positive results for any target analytes in these samples.

CPAHs: Samples TP-01-8', TP-02-2', TP-02-8', TP-12-2', TP-12-4, 'TP-DUPE-1, TP-11-5', TP-14-3; TP-15-2', and TP-DUPE-3' were analyzed at dilutions or used a lower amount of mass in the initial extraction. In any case the outcome was to effectively raise the reporting limits to levels greater than those prescribed in

the QAPP due to potential matrix interference. There were no positive results for any target analytes in these samples.

All Chlorophenols and/or PCBs: The laboratory indicated that several samples were screened before extraction because of the probable affects of natural matrix interference. In cases where certain Aroclors and pesticides could not be distinguished because of chromatographic interference, the laboratory raised the reporting limits, and indicated this with a “Y” qualifier. These data points were appropriately taken through the validation process, and these reporting limits were qualified (UI) in GeoEngineer’s database.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD and MS/MSD %R values, with the exceptions mentioned above. Precision was also acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and field duplicate RPD and absolute difference values, with the exceptions noted above.

Data were qualified as estimated because of surrogate outliers, MS/MSD %R outliers, field duplicate precision outliers, and internal standard recovery outliers.

Data were tentatively identified because of LR/MS poor spectral matches.

Several reporting limits were elevated because of chromatographic/spectral interferences.

In general, the data are acceptable for use as qualified.



DATA QUALITY ASSESSMENT SUMMARY

DIOXINS/FURANS EPA 1613,
PAHS BY METHOD SW8270-SIM,
PCBS BY METHOD SW8082,
CHLOROPHENOLS BY METHOD SW8041,
TOTAL METALS (INCLUDING MERCURY) BY METHOD EPA6010, 200.8, 7471A
TOTAL PETROLEUM HYDROCARBONS BY METHODS NWTPH-Gx AND NWTPH-Dx

ARI Laboratory SDG (Frontier SDG)	Samples Validated (Bold indicates the sample was qualified)
SN00, SN06, SN01 (Mercury only) (6667)	MW-65-110311-W, MW-66-110311-W , MW-67-110311-W, RB-110309-W_*2011, RB-110310-W_*2011
SN03 (6667)	MW-65-5-6.5 , MW-65-15-16.5 , MW-66-2.5-4 , MW-66-15-16.5 , MW-66-30-30.5, MW-67-2-3.5, MW-67-15-16.5 , MW-67-25-25.5
SV93	MW68-5.5-6, MW68-13-14 , MW69-2-3.5 , MW69-5-6.5, MW69-10-11.5, MW69-15-16.5 , MW69-20-21.5, MW69-25-26.5, MW69-29-30 , MW70-2-3.5 , MW70-5-6.5 , MW70-10-11.5, MW70-15-16.5, MW70-20-21.5 , MW70-25-26.5
SX49	MW-68-55

PROJECT: RAYONIER MILL (00137-015-03)

This report documents the results of an EPA level III data validation of analytical data from the analyses of groundwater and the associated laboratory quality control (QC) samples. This standard review normally includes the following:

- Chain of Custody
- Holding Times
- Surrogates/Labeled Compounds
- Method Blanks, Equipment Rinsate Blanks, and Trip Blanks
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory and Field Duplicates
- Internal Standards (Mass Spectrometry)
- DDT/Endrin Breakdown confirmations (Pesticides only)
- Instrument Initial Calibrations (ICALs)
- Instrument Continuing Calibrations (CCALs)
- Instrument Tunes

- Three HRGC/HRMS system performance checks (Dioxins/Furans only)
 1. Mass Calibration and Resolution
 2. Selected Ion Monitoring switching times
 3. GC Resolution
- 2,3,7,8-TCDF secondary column confirmation

DATA PACKAGE COMPLETENESS

ARI, located in Tukwila, Washington, was the primary sub-contracted laboratory analyzing the samples evaluated as part of this data validation review. ARI analyzed all chemical parameters, with the exception of the dioxin/furan analyses. Frontier Analytical Laboratory in El Dorado Hills, California, as sub-contracted through ARI, conducted the Dioxin/Furan analyses. Both laboratories provided all required deliverables for the validation according to the National Functional Guidelines. Both laboratories followed adequate corrective action processes and all identified anomalies were discussed in the representative case narratives.

OBJECTIVE

The objective of the data validation was to review laboratory analytical procedures and quality control (QC) results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide detection limits below applicable regulatory criteria;
- The precision and accuracy of the data are well defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

DATA QUALITY ASSESSMENT SUMMARY

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in the USEPA Contract Laboratory Program *National Functional Guidelines for Inorganic Data Review* (USEPA 2002) and USEPA Contract Laboratory Program *National Functional Guidelines for Organic Data Review* (USEPA 2008), National functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) (USEPA 2005).

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. There were no anomalies noted on the COC forms; proper COC protocols appear to have been followed for this sampling event.

Holding Times

The holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection.



Established holding times were met for all analyses.

Surrogate/Labeled Compound Recoveries

A surrogate compound is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added at a known concentration and percent recoveries are calculated following analysis. All surrogate recoveries for field samples were within the laboratory control limits, with the exceptions below:

SDG SV93 (Chlorophenols): The %R value for 2,4,6-tribromophenol was less than 10% in Sample MW70-2-3.5. For this reason, the laboratory re-extracted and analyzed this sample a second time with the surrogate value being within the control limit. Only the re-extracted data was used for the purposes of this report.

Method Blanks, Trip Blanks & Equipment Rinsate Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. Method blanks were analyzed with each batch of samples, at a frequency of one per twenty samples. For all sample batches, method blanks for all applicable methods were analyzed at the required frequency.

None of the analytes of interest were detected above the reporting limits in any of the method blanks, with the exceptions below:

Equipment rinsate blanks are analyzed to provide an indication as to whether field decontamination and sampling procedures effectively prevent cross-contamination in field activities. Two equipment rinsate blanks were collected: RB-110309-W (collected on 3/9/11) and RB-110310-W (collected on 3/10/11).

SDG SN06 (Metals): There was a positive result for manganese in the equipment blank collected on 3/9/11. The associated field Samples MW-66-2.5-4, MW-66-15-16.5, MW-66-30-30.5, MW-67-2-3.5, MW-67-15-16.5, and MW-67-25-25.5 reported positive results for this compound at a levels greater than the action level for this compound. No qualifiers were required.

SDG SV93 (Semivolatiles): The method blank analyzed on 5/17/11 reported a positive detection for bis(2-ethylhexyl)phthalate. The positive results for bis(2-ethylhexyl)phthalate were qualified as not detected (U) in Samples MW68-13-14, MW69-2-3.5, MW69-15-16.5, MW69-29-30, MW69-2-3.5, MW70-5-6.5, MW70-20-21.5.

SDG SX49 (Semivolatiles): The method blank analyzed on 5/28/11 reported a positive detection for bis(2-ethylhexyl)phthalate. The positive result for bis(2-ethylhexyl)phthalate was qualified as not detected (U) in Sample MW68-55.

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. No Trip Blanks were collected in this sampling event.

In all cases, the blank contamination qualified results should be recognized as a reporting limit, instead of a positive result for data users.

Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

Because actual analyte concentration in environmental samples is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis. One aliquot of sample is analyzed in the normal manner, than a second aliquot of the sample is spiked with a known amount of



analyte concentration and analyzed. From these analyses, a percent recovery (%R) is calculated. Matrix spike duplicates (MSD) analyses are generally performed for organic analyses as a precision check. For some organic analytical methods, such as NWTPH-Dx, a laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) sample set is performed in lieu of a MS/MSD analysis.

For inorganics methods, the matrix spike (referred to as a “spiked sample” is typically followed by a post spike sample if any element recoveries were outside the control limits in the “spiked sample”. If the post spiked sample recoveries are within the control limits, no qualifiers are required.

Matrix spike analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for matrix spikes and laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits.

SN03 (Metals): The laboratory performed a matrix spike on Sample MW-65-5-6.5. The %R values for Total Antimony and Total Vanadium were less than the control limits of 75% to 125%. The Total Antimony and Total Vanadium recoveries in the post spike were within the control limits, no action was required.

Laboratory Control Samples/ Laboratory Control Sample Duplicates (LCS/LCSD) or Ongoing Precision & Accuracy (OPR) Samples

A laboratory control sample is essentially a blank sample that is spiked with a known amount of analyte concentration and analyzed. It is to be treated much like a matrix spike, without the possibility for matrix interference. As there is no actual sample matrix in the analysis, the analytical expectations for accuracy and precision are usually more rigorous and qualification would apply to all samples in the batch, instead of the parent sample only.

Laboratory control sample analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits.

Laboratory Duplicates (Inorganics analyses only)

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory, and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met in all cases.

Field Replicates/Duplicates

Field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. As mentioned above for the laboratory duplicates the RPD is used as the criteria for assessing precision, unless one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

The RPD control limits for soil samples is 50%, while the RPD control limits for water samples is 35%. The absolute difference control limits for soil samples is twice the PQL value, while the absolute difference control limits for water samples is the same as the PQL value.



In cases where any of the cPAH compounds or Dioxin/Furan congeners were qualified for precision, the resulting TEC value was also qualified as estimated (J) in that sample.

Pesticide Breakdown Check Standards

The laboratory analyzed a DDT Breakdown check standard at the beginning and end of every analytical batch. All of the % breakdown results were greater than the control limit of 20 %.

Internal Standards (Low Resolution Mass Spectrometry)

Like the surrogate, an internal standard is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Internal standards are used only for the mass spectrometry (MS) instrumentation and are usually added to the sample aliquot after extraction has taken place. The internal standard should be analyzed at the beginning of a 12 hour sample run and the control limits for internal standard recoveries are -50% to +100% of the calibration standard. All internal standard recoveries were within the control limits.

(CPAHs): Several internal standard recovery values were less than the control limits mentioned above. These outliers were indicative of an instrumental low bias. Therefore, the reporting limits for non-detected analytes were qualified as well as the positive results.

(SDG SN03): The reporting limits for pyrene, benzo(a)anthracene, chrysene, and the resulting TEQ value were qualified as estimated (UJ) in Samples MW-65-15-16.5 and MW-67-15-16.5 because the internal standard d12-chrysene was lower than the control limits. The positive results and reporting limits for benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, total benzofluoranthenes, and the resulting TEQ value were qualified as estimated (J/UJ) in Sample MW-65-5-6.5 because the internal standard d12-perylene was outside the control limits.

Initial Three HRGC/HRMS system performance checks (Dioxins/Furans only)

There are three fundamental system performance checks that must be conducted for every analytical batch of dioxin/furan samples, according to method EPA 1613. Mass calibration and resolution is the first part of the three fundamental High Resolution Gas Chromatography/HRMS (HRGC/HRMS) system performance checks. The second fundamental performance check is the Mass Spectrometer Selected Ion Monitoring (SIM) scan descriptor switching times. The third fundamental performance check is Gas Chromatograph (GC) resolution.

All three of these performance checks were appropriately conducted and no findings of significance were observed from this validation.

3,7,8-TCDF secondary column confirmation

Isomer specificity for all 2,3,7,8-substituted dioxins and furans cannot be achieved on the one 60-meter DB-5 column alone. Historically, problems have been associated with the separation of 2,3,7,8-TCDF from 1,2,3,9-TCDF and 2,3,4,7-TCDF. There are significant toxicological concerns associated with 2,3,7,8-TCDF; therefore, a second column confirmation is used and additional analyses may be required for some samples.

The National Functional Guidelines state “If second-column confirmation is required but was not performed, qualify the 2,3,7,8-TCDF detects as unusable “R””. However, the laboratory (Frontier Analytical) is using calibration standards that are lower than the levels prescribed by EPA Method 1613 in order to achieve the concentration levels prescribed in the QAPP. In this analysis, the confirmation column (DB-225) cannot be relied on to see below 10 pg/L, as the target analyte peaks cannot be



separated from chromatographic noise. For this reason, any positive results that have not been confirmed by a secondary column were qualified as estimated (J), rather than rejected, in the following samples.

SDG 6667: MW-65-5-6.5, MW-66-2.5-4, MW-66-15-16.5

Initial Calibrations (ICALs)

All initial calibrations were conducted according to the laboratory methods, and consisted of the appropriate number of standards. For the organics analyses, all percent relative standard deviation (%RSD) values were less than +/- 30% and all relative response factors (RRF) were greater than 0.05.

Continuing Calibration (CCALs)

All continuing calibrations were conducted according to the laboratory methods, and consisted of the appropriate number of standards. For the organics analyses, all percent difference (%D) values were less than +/- 25% and all relative response factors (RRF) were greater than 0.05.

Reporting Limits and Miscellaneous

CPAHs: The laboratory flagged several results with an “M”, indicating that there was a low spectral match which reduced confidence in the qualitative analysis of the sample result. Consequently, the results listed below were qualified as tentatively identified (NJ) in the associated samples. The resulting TEQ values from these samples should be considered estimates.

Sample ID	Analytes
MW-66-110311-W	Dibenz(a,h)anthracene

SDG SN00 (CPAHs): The compound pyrene exceeded the linear range of the instrument in Samples MW-66-110311-W and MW-66-2.5-4. For this reason, these samples were diluted by the laboratory and re-analyzed. Both sets of data were reported. In each sample, the initial reported result for pyrene was qualified as “Not reportable” in the database. Also in each sample, the diluted reporting limits for all target analytes except pyrene were qualified as “Not reportable” in the database.

These database qualifiers were assigned so that only one set of target analytes would be displayed in any data tables derived from the database.

SDG SV93 (Chlorophenols): Sample MW70-2-3.5 was re-extracted and analyzed because the %R value for the surrogate 2,4,6-tribromophenol was less than the control limits. Both sets of data were reported. The initial reported results for pentachlorophenol and 2,4,6-trichlorophenol were qualified as “Not reportable” in the database.

These database qualifiers were assigned so that only one set of target analytes would be displayed in any data tables derived from the database.

All Chlorophenols and/or PCBs: The laboratory indicated that several samples were screened before extraction because of the probable affects of natural matrix interference. In cases where certain Aroclors and pesticides could not be distinguished because of chromatographic interference, the laboratory raised

the reporting limits, and indicated this with a “Y” qualifier. These data points were appropriately taken through the validation process, and these reporting limits were qualified (UI) in GeoEngineer’s database.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD and MS/MSD %R values, with the exceptions mentioned above. Precision was also acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and field duplicate RPD and absolute difference values, with the exceptions mentioned above.

Data were tentatively identified because of LR/MS poor spectral matches.

Several reporting limits were elevated because of chromatographic/spectral interferences.

Data were qualified as estimated because there no secondary column confirmation could be performed at low levels.

Data were qualified as not detected because of method blank contamination.

In general, the data are acceptable for use as qualified.



DATA QUALITY ASSESSMENT SUMMARY

**DIOXINS/FURANS EPA 1613,
 VOLATILES BY METHOD SW8260,
 SEMIVOLATILES BY METHOD SW8270,
 PAHS BY METHOD SW8270-SIM,
 PESTICIDES BY METHOD SW8081,
 PCBs BY METHOD SW8082,
 CHLOROPHENOLS BY METHOD SW8041,
 TOTAL & DISSOLVED METALS (INCLUDING MERCURY) BY METHODS 200.8 & 7470A
 TOTAL PETROLEUM HYDROCARBONS BY METHODS NWTPH-Gx & NWTPH-Dx**

ARI Laboratory SDG (Frontier SDG)	Samples Validated (Bold indicates the sample was qualified)
RW11, RW23 Mercury only - (6460)	MW-51_101110, MW-52_101108, MW-55_101108, MW-56_101109, MW-57_101108, MW-59_101110, PA-15_101109, PZ-3_101109, PZ-4_101109, PZ-6_101109, PZ-7_101110, PZ-9_101110, PZ-11_101109, PZ-12_101109, PA- 23_101108, PA-24_101109, R-101108, R-101109,
RW18, RW23 (Mercury only)	MW-23_101110, MW-28_101110, and TRIP BLANK_101108
RW56, RW23, RW60 (Mercury only) - (6464)	MW-29_101111, MW-54_101111, MW-58_101111, PA-19_101111, PZ-2_101111, R-101110, R-101111, and TRIP BLANK_101110

PROJECT: RAYONIER MILL (00137-015-06)

This report documents the results of an EPA level III data validation of analytical data from the analyses of groundwater and the associated laboratory quality control (QC) samples. This standard review normally includes the following:

- Chain of Custody
- Holding Times
- Surrogates/Labeled Compounds
- Method Blanks, Equipment Rinsate Blanks, and Trip Blanks
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory and Field Duplicates
- Internal Standards (Mass Spectrometry)
- DDT/Endrin Breakdown confirmations (Pesticides only)
- Instrument Initial Calibrations (ICALs)
- Instrument Continuing Calibrations (CCALs)
- Instrument Tunes



- Three HRGC/HRMS system performance checks (Dioxins/Furans only)
 1. Mass Calibration and Resolution
 2. Selected Ion Monitoring switching times
 3. GC Resolution
- 2,3,7,8-TCDF secondary column confirmation

DATA PACKAGE COMPLETENESS

ARI, located in Tukwila, Washington, was the primary sub-contracted laboratory analyzing the samples evaluated as part of this data validation review. ARI analyzed all chemical parameters, with the exception of the dioxin/furan analyses. Frontier Analytical Laboratory in El Dorado Hills, California, as sub-contracted through ARI, conducted the Dioxin/Furan analyses. Both laboratories provided all required deliverables for the validation according to the National Functional Guidelines. Both laboratories followed adequate corrective action processes and all identified anomalies were discussed in the representative case narratives.

OBJECTIVE

The objective of the data validation was to review laboratory analytical procedures and quality control (QC) results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide detection limits below applicable regulatory criteria;
- The precision and accuracy of the data are well defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

DATA QUALITY ASSESSMENT SUMMARY

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in the USEPA Contract Laboratory Program *National Functional Guidelines for Inorganic Data Review* (USEPA 2002) and USEPA Contract Laboratory Program *National Functional Guidelines for Organic Data Review* (USEPA 2008), National functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) (USEPA 2005).

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. There were no anomalies noted on the COC forms; proper COC protocols appear to have been followed for this sampling event.

Holding Times

The holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection.



Established holding times were met for all analyses, with the exceptions below:

RW11 (Semivolatiles): Sample PA-24_101109 was re-extracted and re-analyzed outside of the holding time of seven days because of low surrogate recoveries in the first analysis. Only the re-analyzed, second set of data was used in order to avoid duplicate reporting for the same sample information. The positive result was qualified as estimated (J) in the usable set of data for this sample.

Surrogate/Labeled Compound Recoveries

A surrogate compound is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added at a known concentration and percent recoveries are calculated following analysis. All surrogate recoveries for field samples were within the laboratory control limits, with the exceptions below:

RW56 (Volatiles): The percent recovery (%R) values for d4-dichloroethane were greater than the upper control limits of 120% in Samples MW-29_101111 and the Trip Blank taken on 11/11/10. The samples were each spiked with three other surrogates that exhibited %R values that were within control limits. No qualifiers were required.

RW11, RW56 (Pesticides): The %R values for decachlorobiphenyl were less than the lower control limits of 30% in Samples MW-56_101109, MW-58_101111, and MW-59_101110. These outliers were indicative of a low bias, and the reporting limits for all target analytes were qualified as estimated (UJ).

Method Blanks, Trip Blanks & Equipment Rinsate Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. Method blanks were analyzed with each batch of samples, at a frequency of one per twenty samples. For all sample batches, method blanks for all applicable methods were analyzed at the required frequency.

None of the analytes of interest were detected above the reporting limits in any of the method blanks, with the exceptions below:

(Metals): The method blank for dissolved metals prepared on 11/19/10 reported a positive detection for manganese. The positive results for this element in the associated field samples were all greater than the action level. No qualifiers were required.

Equipment rinsate blanks are analyzed to provide an indication as to whether field decontamination and sampling procedures effectively prevent cross-contamination in field activities. Four equipment rinsate blanks were collected: R-101108, R-101109, R-101110, and R-101111.

RW11 (PAHs): There was a positive result for pyrene in the equipment blank R-101109. The associated field Sample PA-24_101109 reported a positive result for this compound, and this positive result was qualified as not-detected (U) in this sample.

RW11 (Metals): The equipment blank R-101108 reported positive detections for copper and manganese. The positive results for these elements in the associated field Samples MW-55_101108 and MW-64_101108 were qualified as not detected (U) in these samples. Also, the positive results for copper only in the associated field Samples MW-57_101108 and PA-23_101108 were qualified as not detected (U) in these samples.

The equipment blank R-101109 reported a positive detection for copper. The positive results for this element in the associated field Samples PA-15_101109 and PZ-6_101109 were qualified as not detected (U) in these samples.

The equipment blank R-101110 reported a positive detection for manganese. There were no positive

results for this element in the associated field samples that were less than the action level. No qualifiers were required.

The equipment blank R-101111 reported positive detections for copper and manganese. The positive results for copper in the associated field Samples MW-58_10111, MW-60_10111 (phase 2 investigation), MW-61_10111 (phase 2 investigation), PA-19_101111, and PZ-2_101111 were qualified as not detected (U) in these samples. Also, the positive results for manganese in the associated field Sample MW-29_101111 was qualified as not detected (U) in this sample.

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. Typically, samples are stored in a cooler for as long as 24 hours before arriving at the laboratory. Two trip blanks were collected in this sampling event: TRIP BLANK_101108 and TRIP BLANK_101110. There were no positive results for any volatile analytes above the reporting limits in these field QC samples.

In all cases, any blank contamination qualified results should be recognized as a reporting limit, instead of a positive result for data users.

Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

Because actual analyte concentration in environmental samples is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis. One aliquot of sample is analyzed in the normal manner, than a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery (%R) is calculated. Matrix spike duplicates (MSD) analyses are generally performed for organic analyses and the relative percent difference (RPD) is used as a measurement of precision. For some organic analytical methods, such as NWTPH-Dx, a laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) sample set is performed in lieu of a MS/MSD analysis.

For inorganics methods, the matrix spike (referred to as a “spiked sample” is typically followed by a post spike sample if any element recoveries were outside the control limits in the “spike sample”.

Matrix spike analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for matrix spikes and laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits, with the following exceptions:

(PCBs): The laboratory performed a MS/MSD sample set on Sample MW-60_101111. The RPD values for Aroclor 1016 and Aroclor 1260 were both greater than the control limit of 30%. There were no positive results for either of these two target analytes, no action was required.

(Metals): The laboratory performed a matrix spike on Sample MW-60_101111. The %R value for Total manganese was greater than the control limit of 125%. The parent sample concentration was greater than four times the amount spiked into the sample, no action was required.

Laboratory Control Samples/ Laboratory Control Sample Duplicates (LCS/LCSD)

A laboratory control sample is essentially a blank sample that is spiked with a known amount of analyte concentration and analyzed. It is to be treated much like a matrix spike, without the possibility for matrix interference. As there is no actual sample matrix in the analysis, the analytical expectations for accuracy and precision are usually more rigorous and qualification would apply to all samples in the batch, instead of the parent sample only.

Laboratory control sample analyses should be performed once per analytical batch or every twenty field



samples, whichever is more frequent. The recovery criteria for laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits.

Laboratory Duplicates (Inorganics analyses only)

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory, and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met in all cases.

Field Replicates/Duplicates

There were no field duplicates for this phase of the project.

Pesticide Breakdown Check Standards

The laboratory analyzed a DDT Breakdown check standard at the beginning and end of every analytical batch, All of the % breakdown results were greater than the control limit of 20 %.

Initial Calibrations (ICALs)

All initial calibrations were conducted according to the laboratory methods, and consisted of the appropriate number of standards. For the organics analyses, all percent relative standard deviation (%RSD) values were less than +/- 30% and all relative response factors (RRF) were greater than 0.05.

Continuing Calibration (CCALs)

All continuing calibrations were conducted according to the laboratory methods, and consisted of the appropriate number of standards. For the organics analyses, all percent difference (%D) values were less than +/- 25% and all relative response factors (RRF) were greater than 0.05, with the exceptions below:

(Pesticides): The secondary column %D value for 4,4'-DDD was outside of the control limit of $\pm 25\%$ in the CCAL standards analyzed on 11/20/10 (20:13) and 11/21/10 (01:05). The primary column %D values for this analyte were within the control limits, no qualification was required.

Initial Three HRGC/HRMS system performance checks (Dioxins/Furans only)

There are three fundamental system performance checks that must be conducted for every analytical batch of dioxin/furan samples, according to method EPA 1613. Mass calibration and resolution is the first part of the three fundamental High Resolution Gas Chromatography/HRMS (HRGC/HRMS) system performance checks. The second fundamental performance check is the Mass Spectrometer Selected Ion Monitoring (SIM) scan descriptor switching times. The third fundamental performance check is Gas Chromatograph (GC) resolution.

All three of these performance checks were appropriately conducted and no findings of significance were observed from this validation.

2,3,7,8-TCDF secondary column confirmation

Isomer specificity for all 2,3,7,8-substituted dioxins and furans cannot be achieved on the one 60-meter DB-5 column alone. Historically, problems have been associated with the separation of 2,3,7,8-TCDF from 1,2,3,9-TCDF and 2,3,4,7-TCDF. There are significant toxicological concerns associated with 2,3,7,8-TCDF; therefore, a second column confirmation is used and additional analyses may be required for some samples.

The National Functional Guidelines state “If second-column confirmation is required but was not performed, qualify the 2,3,7,8-TCDF detects as unusable “R””. However, the laboratory (Frontier Analytical) is using calibration standards that are lower than the levels prescribed by EPA Method 1613 in order to achieve the concentration levels prescribed in the QAPP. In this analysis, the confirmation column (DB-225) cannot be relied on to see below 10 pg/L, as the target analyte peaks cannot be separated from chromatographic noise.

Reporting Limits

All Pesticides and PCBs: The laboratory indicated that several samples were screened before extraction because of the probable affects of natural matrix interference. In cases where certain Aroclors and pesticides could not be distinguished because of chromatographic interference, the laboratory raised the reporting limits, and indicated this with a “Y” qualifier. These data points were appropriately taken through the validation process, and these reporting limits were qualified (UI) in GeoEngineer’s database.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD and MS/MSD %R values, with the exceptions mentioned above. Precision was also acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and field duplicate RPD and absolute difference values, with the exceptions noted above.

Data were qualified as estimated because of holding time outliers, surrogate %R outliers,

Data were qualified as not detected because of equipment rinsate blank contamination.

In general, the data are acceptable for use as qualified.



DATA QUALITY ASSESSMENT SUMMARY

**DIOXINS/FURANS EPA 1613,
 VOLATILES BY METHOD SW8260,
 SEMIVOLATILES BY METHOD SW8270,
 PAHS BY METHOD SW8270-SIM,
 PESTICIDES BY METHOD SW8081,
 PCBs BY METHOD SW8082,
 CHLOROPHENOLS BY METHOD SW8041,
 TOTAL METALS (INCLUDING MERCURY) BY METHOD EPA6010, 200.8, 7471A
 TOTAL PETROLEUM HYDROCARBONS BY METHODS NWTPH-DX**

ARI Laboratory SDG (Frontier SDG)	Samples Validated (Bold indicates the sample was qualified)
SI14 (6593)	MW-23_110209, MW-28_110208 , MW-29_110208, MW-52_110209, MW-60_110209, MW-63_110208, MW-63_110208D, MW-64_110207, PZ-2_110207, PZ-5_110208, PZ-7_110208, PZ-9_110208, PZ-11_110208, PA-19_110209, PA-19_110209D , RINSE_110208
SI67 (6594)	MW-51_110211, MW-53_110211, MW-54_110211, MW-55_110211, MW-56_110211, MW-58_110211, MW-59_110210 , MW-61_110211, MW-62_110210, PA-17_110211, PA-24_110211, PZ-3_110210

PROJECT: RAYONIER MILL (00137-015-05)

This report documents the results of an EPA level III data validation of analytical data from the analyses of groundwater and the associated laboratory quality control (QC) samples. This standard review normally includes the following:

- Chain of Custody
- Holding Times
- Surrogates/Labeled Compounds
- Method Blanks, Equipment Rinsate Blanks, and Trip Blanks
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory and Field Duplicates
- Internal Standards (Mass Spectrometry)
- DDT/Endrin Breakdown confirmations (Pesticides only)
- Instrument Initial Calibrations (ICALs)
- Instrument Continuing Calibrations (CCALs)
- Instrument Tunes
- Three HRGC/HRMS system performance checks (Dioxins/Furans only)
 1. Mass Calibration and Resolution



2. Selected Ion Monitoring switching times
3. GC Resolution

DATA PACKAGE COMPLETENESS

ARI, located in Tukwila, Washington, was the primary sub-contracted laboratory analyzing the samples evaluated as part of this data validation review. ARI analyzed all chemical parameters, with the exception of the dioxin/furan analyses. Frontier Analytical Laboratory in El Dorado Hills, California, as sub-contracted through ARI, conducted the Dioxin/Furan analyses. Both laboratories provided all required deliverables for the validation according to the National Functional Guidelines. Both laboratories followed adequate corrective action processes and all identified anomalies were discussed in the representative case narratives.

OBJECTIVE

The objective of the data validation was to review laboratory analytical procedures and quality control (QC) results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide detection limits below applicable regulatory criteria;
- The precision and accuracy of the data are well defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

DATA QUALITY ASSESSMENT SUMMARY

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in the USEPA Contract Laboratory Program *National Functional Guidelines for Inorganic Data Review* (USEPA 2002) and USEPA Contract Laboratory Program *National Functional Guidelines for Organic Data Review* (USEPA 2008), National functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) (USEPA 2005).

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. There were no anomalies noted on the COC forms; proper COC protocols appear to have been followed for this sampling event.

Holding Times

The holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for all analyses.



Surrogate/Labeled Compound Recoveries

A surrogate compound is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added at a known concentration and percent recoveries are calculated following analysis. All surrogate recoveries for field samples were within the laboratory control limits, with the exceptions below:

SDG SI14 and SI67 (Pesticides): The percent recovery (%R) values for decachlorobiphenyl were less than the lower control limits of 30% in Samples MW-56_110211, MW-58_110211, MW-59_110211, and PZ-11_110208. There were no positive results for any target analytes in these samples. These outliers were indicative of a low bias; for this reason, all reporting limits were qualified as estimated (UJ) in each of these samples.

SDG SI14 and SI67 (PCBs): The %R values for decachlorobiphenyl were less than the lower control limits of 30% in Samples MW-51_110211 and MW-56_110211. There were no positive results for any target analytes in these samples. These outliers were indicative of a low bias; for this reason, all reporting limits were qualified as estimated (UJ) in each of these samples.

Method Blanks, Trip Blanks & Equipment Rinsate Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. Method blanks were analyzed with each batch of samples, at a frequency of one per twenty samples. For all sample batches, method blanks for all applicable methods were analyzed at the required frequency.

None of the analytes of interest were detected above the reporting limits in any of the method blanks, with the exceptions below:

SDG SI14 (Semivolatiles): The method blank extracted on 2/10/11 reported a positive detection for bis(2-ethylhexyl)phthalate. There were no positive results for this compound in the associated samples. No qualifiers were required.

Equipment rinsate blanks are analyzed to provide an indication as to whether field decontamination and sampling procedures effectively prevent cross-contamination in field activities. One equipment rinsate blank was collected: Rinse (collected on 2/8/11).

SDG SI14 (PAHs): There was a positive result for pyrene in the equipment blank collected on 2/8/11. The associated field Sample SSB MW-28_110208 reported a positive result for this compound at a level greater than the action level for this compound. No qualifiers were required.

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. Typically, samples are stored in a cooler for as long as 24 hours before arriving at the laboratory. One trip blank was collected in this sampling event: TRIP BLANK (collected on 2/7/11). None of the volatiles analytes were detected above the reporting limits in this sample.

In all cases, the blank contamination qualified results should be recognized as a reporting limit, instead of a positive result for data users.

Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

Because actual analyte concentration in environmental samples is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis. One aliquot of sample is analyzed in the normal manner, than a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery (%R) is calculated. Matrix

spike duplicates (MSD) analyses are generally performed for organic analyses as a precision check. For some organic analytical methods, such as NWTPH-Dx, a laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) sample set is performed in lieu of a MS/MSD analysis.

For inorganics methods, the matrix spike (referred to as a “spiked sample” is typically followed by a post spike sample if any element recoveries were outside the control limits in the “spike sample”.

Matrix spike analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for matrix spikes and laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits.

Laboratory Control Samples/ Laboratory Control Sample Duplicates (LCS/LCSD)

A laboratory control sample is essentially a blank sample that is spiked with a known amount of analyte concentration and analyzed. It is to be treated much like a matrix spike, without the possibility for matrix interference. As there is no actual sample matrix in the analysis, the analytical expectations for accuracy and precision are usually more rigorous and qualification would apply to all samples in the batch, instead of the parent sample only.

Laboratory control sample analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits.

Laboratory Duplicates (Inorganics analyses only)

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory, and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met in all cases.

Field Replicates/Duplicates

Field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. As mentioned above for the laboratory duplicates the RPD is used as the criteria for assessing precision, unless one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

The RPD control limits for soil samples is 50%, while the RPD control limits for water samples is 35%. The absolute difference control limits for soil samples is twice the PQL value, while the absolute difference control limits for water samples is the same as the PQL value.

In cases where any of the cPAH compounds or Dioxin/Furan congeners were qualified for precision, the resulting TEC value was also qualified as estimated (J) in that sample.

SDG S114 (6593)



(Dioxin/Furans): One set of field duplicates, Samples PA-19_110209 & PA-19_110209D, was submitted to the laboratory. The RPD value for the Total Dioxin/Furan TEQ value exceeded the control limits described above. The positive results were qualified as estimated (J) in both samples.

(PAHs): One set of field duplicates, Samples PA-19_110209 & PA-19_110209D, was submitted to the laboratory. Pyrene was detected in Sample PA-19_110209, while reported as being not detected in Sample PA-19_110209D. In this case, the positive result was greater than twice the reporting limit. For this reason, the positive result and reporting limit for this compound was qualified (J/UJ) in the respective samples.

(Pesticides, PCBs, and Chlorophenols): One set of field duplicates, Samples PA-19_110209 & PA-19_110209D, was submitted to the laboratory. The RPD/absolute difference values for all target analytes were within the control limits described above. No qualifiers were required.

(Volatiles and Semivolatiles): One set of field duplicates, Samples MW-63_110208 & MW-63_110208D, was submitted to the laboratory. The RPD/absolute difference values for all target analytes were within the control limits described above. No qualifiers were required.

Pesticide Breakdown Check Standards

The laboratory analyzed a DDT Breakdown check standard at the beginning and end of every analytical batch, All of the % breakdown results were greater than the control limit of 20 %.

Initial Calibrations (ICALs)

All initial calibrations were conducted according to the laboratory methods, and consisted of the appropriate number of standards. For the organics analyses, all percent relative standard deviation (%RSD) values were less than +/- 30% and all relative response factors (RRF) were greater than 0.05.

Continuing Calibration (CCALs)

All continuing calibrations were conducted according to the laboratory methods, and consisted of the appropriate number of standards. For the organics analyses, all percent difference (%D) values were less than +/- 25% and all relative response factors (RRF) were greater than 0.05.

Additional Data Quality Issues

The laboratory flagged several results with a “D” (polychlorinated diphenyl ether [PCDE] interference) where interfering substances reduced confidence in the sample result. Consequently, the results listed below were qualified as not detected in the associated samples.

Sample ID	Analytes
*MW-28_110208	None

* = The positive results for 2,3,7,8-TCDF were qualified as estimated (J) because this compound was not confirmed by a secondary column by the laboratory. The positive result for the corresponding TEC value was also qualified as estimated (J).

Reporting Limits and Miscellaneous

SDG SI14 and SI67 (Pesticides): The reporting limits for certain analytes in the following samples were elevated because of chromatographic interference. The reporting limits for these compounds were qualified (UY) in order to specify this discrepancy:

Sample ID	Analytes
MW-56_110211	Heptachlor
PA-19_110209	alpha-Chlordane
PA-19_110209D	alpha-Chlordane

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD and MS/MSD %R values, with the exceptions mentioned above. Precision was also acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and field duplicate RPD and absolute difference values, with the exceptions mentioned above.

Data were qualified because of surrogate %R outliers and field duplicate precision outliers. Data were also qualified because the appropriate column confirmation was not performed.

Reporting limits were qualified in order to indicate elevated reporting limits.

In general, the data are acceptable for use as qualified.



DATA QUALITY ASSESSMENT SUMMARY

DIOXINS/FURANS EPA 1613,
VOLATILES BY METHOD SW8260,
SEMIVOLATILES BY METHOD SW8270,
PAHS BY METHOD SW8270-SIM,
PCBs BY METHOD SW8082,
CHLOROPHENOLS BY METHOD SW8041,
TOTAL METALS (INCLUDING MERCURY) BY METHOD EPA6010, 200.8, 7471A
TOTAL PETROLEUM HYDROCARBONS BY METHODS NWTPH-Gx & NWTPH-Dx

ARI Laboratory SDG (Frontier SDG)	Samples Validated (Bold indicates the sample was qualified)
SX49	MW-68 RINSATE, TRIP BLANK_110519
SX93	MW-23-110519, MW-28-110520, MW-29-110520, MW-51-110519, MW-52-110517, MW-53-110518, MW-54-110518 , MW-55-110519, MW-56-110518, MW-57-110520, MW-58-110519, MW-59-110518, MW-60-110519, MW-61-110518, MW-62-110518, MW-63-110520, MW-64-110517, MW-65-110518, MW-66-110518, MW-67-110518,
SX95	MW-69-110518 , MW-70-110518, MW-70-110518D, PA-15-110518, PA-17-110517, PA-19-110518, PA-23-110517, PA-24-110518, PZ-02-110517, PZ-03-110519, PZ-04-110517, PZ-06-110517, PZ-07-110517, PZ-09-110520, PZ-09-110520D, PZ-11-110517, PZ-12-110517, RINSE_110520, TRIP BLANK_110520
SZ90	MW-68-110607, TRIP BLANKS_110607

PROJECT: RAYONIER MILL (00137-015-05)

This report documents the results of an EPA level III and one EPA level IV data validation of analytical data from the analyses of groundwater and the associated laboratory quality control (QC) samples. This standard review normally includes the following:

- Chain of Custody
- Holding Times
- Surrogates/Labeled Compounds
- Method Blanks, Equipment Rinsate Blanks, and Trip Blanks
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory and Field Duplicates
- Internal Standards (Mass Spectrometry)
- Instrument Initial Calibrations (ICALs)
- Instrument Continuing Calibrations (CCALs)

- Instrument Tunes
- Three HRGC/HRMS system performance checks (Dioxins/Furans only)
 1. Mass Calibration and Resolution
 2. Selected Ion Monitoring switching times
 3. GC Resolution

DATA PACKAGE COMPLETENESS

ARI, located in Tukwila, Washington, was the primary sub-contracted laboratory analyzing the samples evaluated as part of this data validation review. ARI analyzed all chemical parameters, with the exception of the dioxin/furan analyses. Frontier Analytical Laboratory in El Dorado Hills, California, as sub-contracted through ARI, conducted the Dioxin/Furan analyses. Both laboratories provided all required deliverables for the validation according to the National Functional Guidelines. Both laboratories followed adequate corrective action processes and all identified anomalies were discussed in the representative case narratives.

OBJECTIVE

The objective of the data validation was to review laboratory analytical procedures and quality control (QC) results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide detection limits below applicable regulatory criteria;
- The precision and accuracy of the data are well defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

DATA QUALITY ASSESSMENT SUMMARY

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in the USEPA Contract Laboratory Program *National Functional Guidelines for Inorganic Data Review* (USEPA 2002) and USEPA Contract Laboratory Program *National Functional Guidelines for Organic Data Review* (USEPA 2008), National functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) (USEPA 2005).

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. There were no anomalies noted on the COC forms; proper COC protocols appear to have been followed for this sampling event.

Holding Times

The holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection.



Established holding times were met for all analyses.

Surrogate/Labeled Compound Recoveries

A surrogate compound is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added at a known concentration and percent recoveries are calculated following analysis. All surrogate recoveries for field samples were within the laboratory control limits.

Method Blanks, Trip Blanks & Equipment Rinsate Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. Method blanks were analyzed with each batch of samples, at a frequency of one per twenty samples. For all sample batches, method blanks for all applicable methods were analyzed at the required frequency.

None of the analytes of interest were detected above the reporting limits in any of the method blanks.

SDG SX49 (Semivolatiles): The method blank analyzed on 5/28/11 reported a positive detection for bis(2-ethylhexyl)phthalate. This compound was reported in the associated field sample at a level greater than the respective action limits. No qualifiers were required.

Equipment rinsate blanks are analyzed to provide an indication as to whether field decontamination and sampling procedures effectively prevent cross-contamination in field activities. Two equipment rinsate blanks were collected: MW-68 RINSATE (collected on 5/18/11) and RINSE_110520 (collected on 5/20/11).

SDG SX49 (Semivolatiles): The rinsate blank collected on 5/20/11 reported a positive detection for bis(2-ethylhexyl)phthalate. The positive result for bis(2-ethylhexyl)phthalate was qualified as not detected (U) in Sample MW-69-110518.

SDG SX49 (Metals): The rinsate blank collected on 5/20/11 reported a positive detection for copper, manganese, and nickel. These elements were also detected in the associated soil Sample MW-68-55 at levels greater than the action level. No qualifiers were required for these outliers.

In all cases, the blank contamination qualified results should be recognized as a reporting limit, instead of a positive result for data users.

Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

Because actual analyte concentration in environmental samples is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis. One aliquot of sample is analyzed in the normal manner, than a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery (%R) is calculated. Matrix spike duplicates (MSD) analyses are generally performed for organic analyses as a precision check. For some organic analytical methods, such as NWTPH-Dx, a laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) sample set is performed in lieu of a MS/MSD analysis.

For inorganics methods, the matrix spike (referred to as a “spiked sample” is typically followed by a post spike sample if any element recoveries were outside the control limits in the “spike sample”.

Matrix spike analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for matrix spikes and laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits, with the exceptions below:

SN03 (Metals): The laboratory performed a matrix spike on Sample MW-68-55. The %R value for Total Manganese was greater than the control limits of 75% to 125%. The native sample concentration for Total manganese was greater than four times the amount spiked into the sample. No action was required.

SX95 (Metals): The laboratory performed a matrix spike on Sample PZ-09-110520. The %R value for Total Manganese was greater than the control limits of 75% to 125%. The native sample concentration for Total manganese was greater than four times the amount spiked into the sample. No action was required.

Laboratory Control Samples/ Laboratory Control Sample Duplicates (LCS/LCSD)

A laboratory control sample is essentially a blank sample that is spiked with a known amount of analyte concentration and analyzed. It is to be treated much like a matrix spike, without the possibility for matrix interference. As there is no actual sample matrix in the analysis, the analytical expectations for accuracy and precision are usually more rigorous and qualification would apply to all samples in the batch, instead of the parent sample only.

Laboratory control sample analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits.

Laboratory Duplicates (Inorganics analyses only)

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory, and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met in all cases.

Field Replicates/Duplicates

Field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. As mentioned above for the laboratory duplicates the RPD is used as the criteria for assessing precision, unless one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

The RPD control limits for soil samples is 50%, while the RPD control limits for water samples is 35%. The absolute difference control limits for soil samples is twice the PQL value, while the absolute difference control limits for water samples is the same as the PQL value.

In cases where any of the cPAH compounds or Dioxin/Furan congeners were qualified for precision, the resulting TEC value was also qualified as estimated (J) in that sample.

SDG SX95

(Volatiles): One set of field duplicates, Samples PZ-09-110520 & PZ-09-110520D, was submitted to the laboratory. There were no positive results in either sample. No qualifiers were required.



(Semivolatiles, PAHs, PCBs, Chlorophenols, NWTPH-Gx & NWTPH-Dx): One set of field duplicates, Samples MW-70-110518 & MW-70-110518D, was submitted to the laboratory. There were no positive results in either sample. No qualifiers were required.

(Metals): Two sets of field duplicates, Samples MW-70-110518 & MW-70-110518D and PZ-09-110520 & PZ-09-110520D, was submitted to the laboratory. The precision requirements above were met for all target analytes.

(Dioxins): One set of field duplicates, Samples MW-70-110518 & MW-70-110518D, was submitted to the laboratory. The precision requirements above were met for all target analytes.

Initial Calibrations (ICALs)

All initial calibrations were conducted according to the laboratory methods, and consisted of the appropriate number of standards. For the organics analyses, all percent relative standard deviation (%RSD) values were less than +/- 30% and all relative response factors (RRF) were greater than 0.05.

Continuing Calibration (CCALs)

All continuing calibrations were conducted according to the laboratory methods, and consisted of the appropriate number of standards. For the organics analyses, all percent difference (%D) values were less than +/- 25% and all relative response factors (RRF) were greater than 0.05.

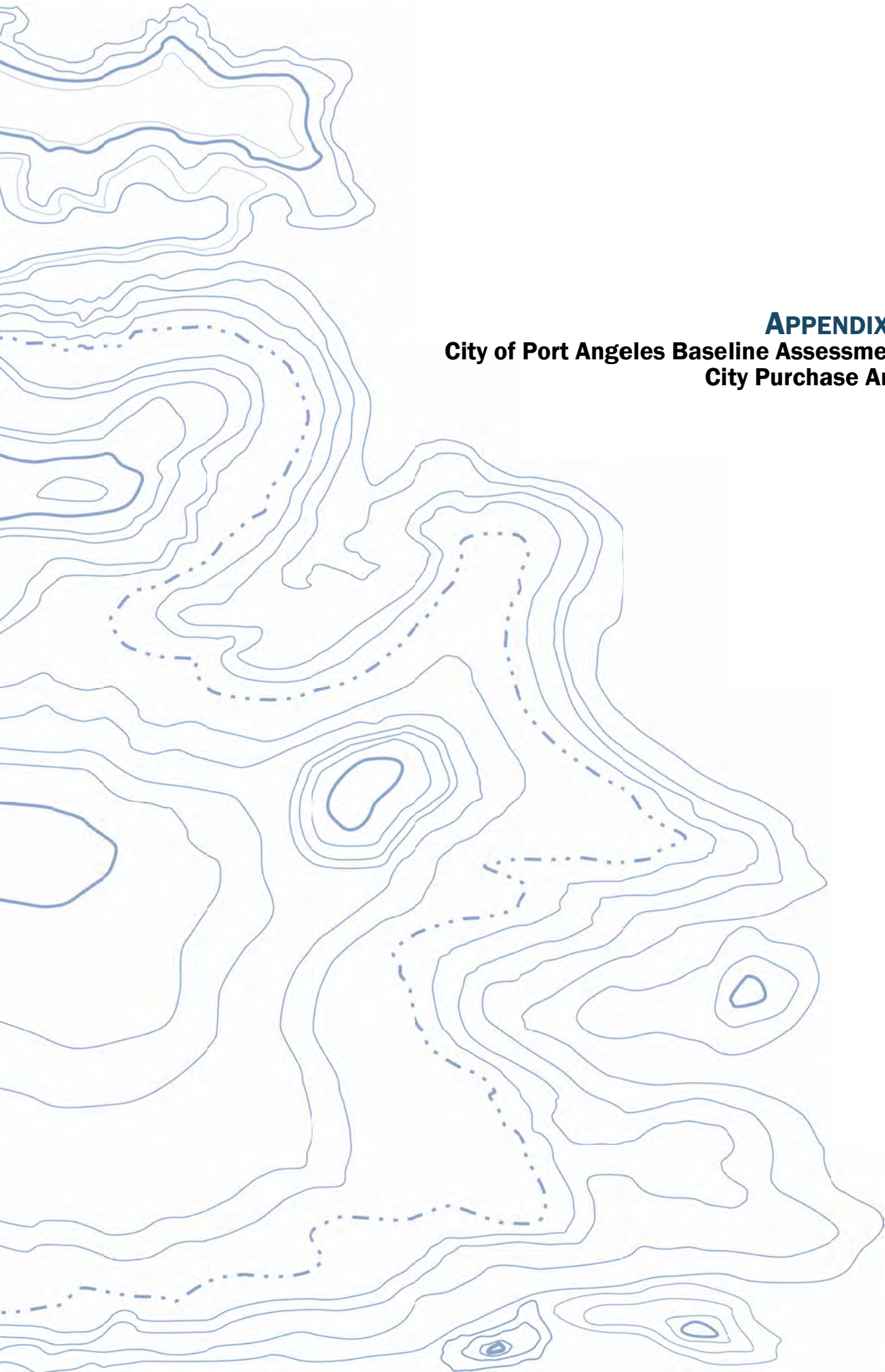
OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD and MS/MSD %R values, with the exceptions mentioned above. Precision was also acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and field duplicate RPD and absolute difference values, with the exceptions mentioned above.

Data were qualified as not-detected because of blank contamination.

In general, the data are acceptable for use as qualified.





APPENDIX G
City of Port Angeles Baseline Assessment-
City Purchase Area

BASELINE SUBSURFACE ENVIRONMENTAL ASSESSMENT

**PORTION OF RAYONIER MILL PROPERTY
700 NORTH ENNIS STREET
PORT ANGELES, WASHINGTON**

**Submitted by:
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**For:
City of Port Angeles/Public Works and Utilities
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FIGURES

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Figure 2 *Baseline Assessment Sampling Locations*

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Appendix A Soil and Groundwater Screening Levels (GeoEngineers, Inc. 2010)

Appendix B Boring and Well Construction Logs

Appendix C Analytical Results

Appendix D Laboratory Analytical Reports



ACRONYMS AND ABBREVIATIONS

Agreed Order	Agreed Order No. DE 6815 between Rayonier and the Washington State Department of Ecology
AOPCS	Areas of Potential Concern
AST	aboveground storage tank
Baseline Assessment	baseline subsurface environmental assessment
bgs	below ground surface
City	City of Port Angeles, Washington
COPCs	constituents of potential concern
cPAHs	carcinogenic polycyclic aromatic hydrocarbons
CSO	Combined Sewer Overflow
DRO	total petroleum hydrocarbons as diesel-range organics
EPA	U.S. Environmental Protection Agency
ESN Northwest	Environmental Services Northwest of Olympia, Washington
Farallon	Farallon Consulting, L.L.C.
GeoEngineers	GeoEngineers, Inc.
GRO	total petroleum hydrocarbons as gasoline-range organics
Mill Property	former Rayonier Mill facility at 700 North Ennis Street in Port Angeles, Washington
MTCA	Washington State Model Toxics Control Act Cleanup Regulation
ORO	total petroleum hydrocarbons as oil-range organics
PCBs	polychlorinated biphenyls
Phase I ESA Report	Phase I Environmental Site Assessment Report, Rayonier Property Lots 1 and 2, Port Angeles, Washington dated May 11, 2011 prepared by Farallon Consulting, L.L.C.



PQL	practical quantitation limit
RI/FS	remedial investigation/feasibility study
SAP	Sampling and Analysis Plan, Sale Parcel Baseline Assessment, Former Rayonier Mill Facility, 700 North Ennis Street, Port Angeles, Washington dated June 3, 2011, prepared by Farallon Consulting, L.L.C.
Site	land purchased by the City of Port Angeles on May 12, 2011 comprising the southeastern portion of the former Rayonier Mill facility
SVOCs	semivolatile organic compounds
TEC	toxic equivalent concentration
TPH	total petroleum hydrocarbons
USCS	Unified Soil Classification System
VOCs	volatile organic compounds
WAC	Washington Administrative Code
Work Plan	Supplemental Upland Data Collection Work Plan, Port Angeles Rayonier Mill Site, Port Angeles, Washington dated July 20, 2010 prepared by GeoEngineers, Inc.



1.0 INTRODUCTION

Farallon Consulting, L.L.C. (Farallon) has prepared this Baseline Assessment Report to document the field work and results for the baseline subsurface environmental assessment (Baseline Assessment) of land purchased by the City of Port Angeles (City) on May 12, 2011 comprising the southeastern portion of the former Rayonier Mill facility (Mill Property) at 700 North Ennis Street in Port Angeles, Washington (Figure 1). The land purchased by the City is herein referred to as the Site (Figure 2).

The overall objective of the Baseline Assessment was to collect soil, groundwater, and catch basin sediment samples for analysis for constituents of potential concern (COPCs) to enable assessment of subsurface environmental conditions at the Site at the time of purchase by the City. The scope of work for the Baseline Assessment was described in the *Sampling and Analysis Plan, Sale Parcel Baseline Assessment, Former Rayonier Mill Facility, 700 North Ennis Street, Port Angeles, Washington* dated June 3, 2011 prepared by Farallon (2011b) (SAP). The scope of work for the Baseline Assessment was developed based on what was known of past Rayonier operations at the Site; information provided in the *Supplemental Upland Data Collection Work Plan, Port Angeles Rayonier Mill Site, Port Angeles, Washington* dated July 20, 2010 prepared by GeoEngineers, Inc. (GeoEngineers) (2010) (Work Plan) and from subsequent GeoEngineers sampling through November 2010; and the findings presented in the *Phase I Environmental Site Assessment Report, Rayonier Property Lots 1 and 2, Port Angeles, Washington* dated May 11, 2011 prepared by Farallon (2011a) (Phase I ESA Report). Data collected from the Baseline Assessment were used herein to assess whether COPCs were released at the Site prior to the City's purchase.

As discussed in the Work Plan, Rayonier is completing a supplemental data collection program for the upland portion of the Mill Property, including work on the Site. Work by Rayonier at the Mill Property is being conducted under Agreed Order No. DE 6815 between Rayonier and the Washington State Department of Ecology (Agreed Order). Supplemental upland data collection conducted by Rayonier since July 2010 is summarized in the *Draft Supplemental Upland Data Collection Technical Memorandum for the Upland Portion of the Study Area, Port Angeles Rayonier Mill Site, Port Angeles, Washington* dated June 15, 2011 prepared by GeoEngineers (2011). The objective of the supplemental upland data collection field investigation was to complete the characterization of the nature and extent of contamination within the upland study area, with a focus on filling the data gaps identified in Exhibit B of the Agreed Order. Results of supplemental upland data collection are necessary for Rayonier to complete the Upland Data Summary Report and the Interim Action Alternatives Evaluation Report that will outline the cleanup action alternatives for the upland study area, including the Site.

COPCs identified by Rayonier for the upland portion of the Mill Property are listed in the Work Plan. Screening levels used in the Baseline Assessment were derived by Rayonier for the purpose of its work at the upland portion of the Mill Property and are provided in Appendix A of this Baseline Assessment Report.



The Baseline Assessment Report includes a brief description of physical features and a summary of background information regarding the Site, an overview of the Baseline Assessment activities and results, and a summary of Farallon's conclusions based on the results of the Baseline Assessment.



2.0 SITE DESCRIPTION AND BACKGROUND

This section presents a brief description of the Site features and historical use. More-detailed information for the Site and the Mill Property is provided in the Work Plan and the Phase I ESA Report.

The Site comprises portions of Clallam County, Washington Tax Parcel Nos. 063000570150, 063000100120, and 063000100130 located on the southeast portion of the former Rayonier Mill and total approximately 35 acres of land. Site features include various pieces of equipment, including an unused 5-million-gallon secondary treatment aboveground storage tank (AST) that was used to contain wastewater (secondary treatment AST); an out-of-service 2,000-gallon AST and pump that was used to store landfill leachate transported from an off-Site source (leachate transfer AST); a laboratory building; the concrete foundation for a former secondary treatment control building; and a concrete foundation for a former storage building. The remaining portions of the Site include a paved former parking area on the southern portion of the Site, a former equipment storage area that was used to store unused equipment and materials on the eastern portion of the Site, and a stormwater runoff ditch and wetland area on the northern portion of the Site. A stormwater collection system comprising seven catch basins conveys stormwater runoff from the southern portion of the Site to the ditch and ultimately to Ennis Creek. Access to the Site is gained from East Ennis Creek Road, which transects the Site from north to south.

The City acquired the Site as part of a pending Phase 1 Combined Sewer Overflow (CSO) project, which will involve trenching along a piping alignment that crosses the Mill Property to the west and north and through the eastern portion of the Site, and ultimately to the City wastewater treatment plant adjacent to and southeast of the Site (Figure 2). Phase I CSO construction is planned to commence in mid-2012 and will entail installation of underground piping and utilities, construction of a bridge over Ennis Creek, use of the secondary treatment AST, and improvements to the sewer outfall to the Strait of Juan de Fuca.

For the purposes of the Baseline Assessment, the Site and proximate area was divided into 12 Areas of Potential Concern (AOPCs) based on what was known of past Site use during operation of the Rayonier Mill, results of prior sampling by Rayonier, and findings presented in the Phase I ESA Report. Figure 2 shows the 12 AOPCs. The sampling rationale for the Baseline Assessment was outlined in the SAP and is summarized in Table 1.

The Baseline Assessment focused on COPCs identified for Rayonier in the Work Plan, which include:

- Total petroleum hydrocarbons (TPH) as gasoline-range organics (GRO), as diesel-range organics (DRO), and as oil-range organics (ORO); and benzene, toluene, ethylbenzene, and xylenes;
- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs);
- Volatile organic compounds (VOCs);



- Semivolatile organic compounds (SVOCs);
- Polychlorinated biphenyls (PCBs);
- Pesticides; and
- Metals.

As noted in the Work Plan, dioxins and furans also were considered to be COPCs, but will not be evaluated further as part of the Baseline Assessment. It is assumed that dioxins and furans at the Site will be characterized by Rayonier as part of the remedial investigation for the upland areas of the Mill Property under the Agreed Order. Concentrations of COPCs detected in soil and groundwater at the Site during the Baseline Assessment were compared to conservative screening levels developed as part of the Rayonier Mill RI/FS and are presented in Tables 1 and 2, respectively, of the Work Plan. The screening levels are based on the Washington State Model Toxics Control Act Cleanup Regulation (MTCA), as established in Chapter 173-340 of the Washington Administrative Code (WAC 173-340) and consider potentially applicable or relevant and appropriate standards, background concentrations, and achievable laboratory practical quantitation limits. These screening levels were used in the Baseline Assessment for comparison purposes only and do not indicate that they have been reviewed or selected as appropriate screening levels, or that they are appropriate for use as action levels, cleanup levels, remediation levels, or other triggering concentrations at the Site. The soil and groundwater screening levels as established in the Work Plan are presented in Appendix A.

Because of the potential for encountering culturally significant archeological artifacts during the Baseline Assessment, a City archeologist monitored aspects of the work involving drilling. No artifacts were observed during the Baseline Assessment field investigation activities.



3.0 BASELINE ASSESSMENT ACTIVITIES

Baseline Assessment sampling locations and AOPCs are shown on Figure 2. The Baseline Assessment included:

- Advancing 19 direct-push Geoprobe borings and sampling soil and groundwater (where encountered);
- Installing and sampling two groundwater monitoring wells;
- Collecting two surface soil grab samples from the base of the drainage ditch on the northern portion of the Site;
- Collecting two sediment grab samples from catch basins in the central portion of the Site; and
- Collecting groundwater samples from previously installed piezometers PA-12 and PZ-19.

The sampling rationale for the Baseline Assessment is summarized in Table 1. Table 2 summarizes sampling location, media, and depth information and the associated chemical analyses for each sample. A description of the Baseline Assessment sampling activities is presented in the following sections.

3.1 DIRECT-PUSH BORINGS

In June 2011, direct-push borings FAR1 through FAR4, FAR7 through FAR17, and FAR20 through FAR23 were advanced at locations shown on Figure 2 using a Geoprobe push-probe drill rig. Locations FAR5 and FAR6 (ditch surface soil sampling locations) and FAR18 and FAR19 (storm drain catch basin sediment sampling locations) were sampled using hand tools, as described in Sections 3.3 and 3.4, respectively. Direct-push borings were advanced to depths ranging from 13 to 22 feet below ground surface (bgs). Drilling services for the advancement of the borings were provided by Environmental Services Northwest of Olympia, Washington (ESN Northwest). Before drilling activities commenced, a private utility location survey was conducted by Applied Professional Services, Inc. of North Bend, Washington to locate on-Site utilities, in addition to the public One-Call utility locating service.

Soil samples were collected continuously from each boring to the maximum depth explored using a 4-foot macrocore sampler lined with a disposable acetate sleeve. Soil samples were collected in accordance with ASTM International and U.S. Environmental Protection Agency (EPA) standard protocols, and were classified in accordance with the Unified Soil Classification System (USCS). Field-screening included noting indications of visual or olfactory evidence of contamination and conducting headspace analysis for the presence of volatile organic vapors using a photoionization detector. Headspace analysis was conducted by placing a portion of soil from each sample interval into a resealable plastic bag and allowing the sample to warm for several minutes. The probe of the photoionization detector was then inserted into the bag, and the highest reading obtained over an approximate 30-second interval was recorded. The USCS symbol, visual and olfactory notations regarding the samples, and photoionization detector readings were recorded on boring log forms. The boring logs are provided in Appendix B.



Soil samples were collected directly from the disposable sampling sleeve using plastic sampling tools. Non-dedicated sampling equipment was decontaminated between uses. Soil samples were transferred immediately into laboratory-supplied sample containers. Samples to be analyzed for VOCs were collected in accordance with EPA Method 5035A. Care was taken not to handle the seal or inside cap of the container when the sample was placed into the container. The containers were filled to eliminate headspace (when applicable) and the seal/cap was secured.

Reconnaissance groundwater samples were collected from each boring where groundwater was encountered. Groundwater was not encountered in direct-push borings FAR4, FAR7 through FAR10, FAR20, FAR21, and FAR23.

Reconnaissance groundwater samples were not collected at borings FAR11 or FAR16 because monitoring wells were subsequently constructed at these locations and sampled. Reconnaissance groundwater samples were collected using a 2-inch-outside-diameter tool driven to approximately 36 inches below the depth at which groundwater was encountered. The outer casing of the tool was then partially withdrawn, exposing a 5-foot well screen. Groundwater samples were collected using low-flow methodology according to EPA standard protocols. Groundwater was extracted through a 0.25-inch-diameter tube inserted at the approximate midpoint of the well screen interval using a peristaltic pump at a low-flow rate of less than 500 milliliters per minute. Groundwater was purged until a steady flow was established and observed turbidity was minimized. Reconnaissance groundwater samples were collected directly from the pump outlet into laboratory-prepared containers. Care was taken to minimize turbulence and to not handle the seals or lids of the containers when the samples were placed into the containers. The containers were filled to eliminate headspace and the seals/lids were secured. Dedicated tubing was used for collection of each reconnaissance groundwater sample. Non-dedicated equipment was decontaminated between sampling locations.

Soil and reconnaissance groundwater sample containers were placed on ice in a cooler pending transport to the analytical laboratory. Samples were delivered to OnSite Environmental Inc. of Redmond, Washington under standard chain-of-custody protocols. Select soil samples and reconnaissance groundwater samples collected from each boring were submitted for laboratory analysis for the COPCs established for the Site as applicable to each AOPC (Table 1). The analyses conducted for each sample are presented in Table 2. Upon completion of soil and reconnaissance groundwater sampling, each of the borings was abandoned by backfilling with bentonite. The soil cuttings, decontamination water, and purge water generated during the drilling activities were placed into 55-gallon drums and labeled. The drums were stored at the Site pending waste profiling.

3.2 MONITORING WELL INSTALLATION

Monitoring wells constructed at borings FAR11 and FAR16 were installed at the Site in June 2011 by ESN Northwest (Figure 2). Monitoring well FAR11 was installed in AOPC-8, west-adjacent to the secondary treatment AST. Monitoring well FAR16 was installed in AOPC-9, in the paved parking area south of the secondary treatment AST (Figure 2). The monitoring well borings were advanced using a hollow-stem auger drilling rig. No soil samples were



collected during drilling at these locations because the monitoring wells were co-located with borings FAR11 and FAR16 that were sampled during advancement of the direct-push borings.

Each monitoring well boring was advanced to a depth of 22 feet bgs. The monitoring wells were constructed in accordance with the *Minimum Standards for Construction and Maintenance of Wells*, as established in WAC 173-160. The monitoring wells were constructed using polyvinyl chloride casings with 10 feet of screen and completed with flush-mounted monuments. Each monitoring well was constructed with a screened interval extending from 12 to 22 feet bgs. Following installation, the monitoring wells were developed using a surge block and centrifugal pump. Detailed well construction information was noted on the boring logs for each location. The boring logs are included in Appendix B.

3.3 SURFACE SOIL SAMPLING

Surface soil samples were collected from locations FAR5 and FAR6 at the base of the drainage ditch on the northern portion of the Site (Figure 2). Field-screening included noting indications of visual or olfactory evidence of contamination. Soil samples were collected using disposable plastic sampling tools. Non-dedicated sampling equipment was decontaminated between uses. Soil samples were transferred immediately into laboratory-supplied sample containers. Samples to be analyzed for VOCs were collected in accordance with EPA Method 5035A. Care was taken not to handle the seal or inside cap of the container when placing the sample into the container. The containers were filled to eliminate headspace (when applicable) and the seal/cap was secured. Sample containers were placed on ice in a cooler pending transport to the analytical laboratory. Samples were delivered to OnSite Environmental Inc. under standard chain-of-custody protocols. Surface soil samples were submitted for laboratory analysis for the COPCs established for the Site as applicable to each AOPC (Table 1). Analyses conducted for each sample are summarized in Table 2.

3.4 CATCH BASIN SEDIMENT SAMPLING

Catch basin sediment samples were collected from two catch basins in the central portion of the Site at locations FAR18 and FAR19 (Figure 2). Field-screening included noting indications of visual or olfactory evidence of contamination. Catch basin sediment samples were collected using disposable plastic sampling tools. Non-dedicated sampling equipment was decontaminated between uses. Catch basin sediment samples were transferred immediately into laboratory-supplied sample containers. Samples for analysis for VOCs were collected in accordance with EPA Method 5035A. Care was taken not to handle the seal or inside cap of the container when the sample was placed into the container. The containers were filled to eliminate headspace (when applicable) and the seal/cap was secured. Sample containers were placed on ice in a cooler pending transport to the analytical laboratory. Samples were delivered to OnSite Environmental Inc. under standard chain-of-custody protocols. Catch basin sediment samples were submitted for laboratory analysis for the COPCs established for the Site as applicable to each AOPC (Table 1). Analyses conducted for each sample are summarized in Table 2.



3.5 GROUNDWATER SAMPLING

Groundwater monitoring and sampling at the Site occurred on June 28, 2011. Groundwater monitoring included collection of groundwater samples from the monitoring wells constructed at boring locations FAR11 and FAR16 and from previously installed piezometers PA-12 and PZ-19 (Figure 2). The scope of work for the groundwater monitoring and sampling event included:

- Measuring water levels in the wells/piezometers;
- Purging groundwater and monitoring groundwater quality parameters using low-flow sampling techniques per EPA protocols to ensure aquifer stabilization prior to collecting groundwater samples; and
- Collecting and submitting groundwater samples to the analytical laboratory for analysis for COPCs established for the Site as applicable to the AOPC (Table 1). Analyses conducted for each sample are summarized in Table 2.

The monitoring wells were opened and the water level in the wells was permitted to equilibrate with atmospheric pressure for approximately 30 minutes before groundwater level measurements were obtained. Groundwater levels were measured to an accuracy of 0.01 foot using an electronic water-level meter.

Groundwater sampling was conducted in accordance with the EPA (1996) guidance document *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures* dated April 1996. The well purging and sampling was performed using a peristaltic pump and dedicated polyethylene tubing at flow rates ranging from 100 to 300 milliliters per minute. The tubing intake was placed at approximately mid-screen in each monitoring well, or at the midpoint between the water table and the bottom of the well screen if the water table was lower than the top of the screen interval. During purging, water quality was monitored using a YSI water quality system equipped with a flow-through cell. The water quality parameters monitored and recorded included temperature, pH, specific conductance, oxidation-reduction potential, and dissolved oxygen. The wells were purged until the water quality parameters stabilized. Following purging, groundwater samples were collected directly from the tubing into laboratory-prepared containers, placed on ice in a cooler, and transported to OnSite Environmental Inc. under standard chain-of-custody protocols for analysis for COPCs.

Purge water generated during the groundwater sampling event was placed in a labeled 55-gallon steel drum and stored at the Site pending waste profiling.



4.0 RESULTS

The results of the Baseline Assessment are presented in the following sections, including a general discussion of soil and groundwater conditions encountered during the Baseline Assessment, and specific observations, measurements, and analytical results for soil, groundwater, and catch basin sediment samples collected during the Baseline Assessment. Sampling locations are shown on Figure 2. The sampling rationale is summarized in Table 1. Table 2 presents sampling and chemical analytical information. Appendix A provides the screening levels for soil and groundwater proposed by Rayonier for the RI/FS work at the Mill Property. Logs for the soil borings and well construction details are provided in Appendix B. Appendix C presents tabulated analytical results. Laboratory analytical reports for the samples collected during the Baseline Assessment are provided in Appendix D.

4.1 SOIL CONDITIONS

The Site is partially paved with asphalt or concrete, which ranges from 2 to 4 inches in thickness. Unpaved areas are covered by 2 to 4 inches of topsoil and vegetation. Underlying soil in most locations includes 0.5 foot to 6 feet of fill material consisting of sands and gravels with varying amounts of silt. Lithologic logs from some locations (e.g., borings FAR3 and FAR4) indicate that fill in these areas may be as thick as 10 feet. Fill material was not noted to be present in borings FAR9 or FAR12. Underlying native soils generally consist of sands and silts and an occasional gravel lens. Charcoal was observed in boring FAR3, as was a piece of plastic and shell fragments. Shell fragments were observed also in boring FAR11. Wood fragments were observed in boring FAR4. A fragment of red brick was observed in boring FAR7. Approximately 0.5 foot of sediment was observed in Site catch basins at the time catch basin sediment samples were collected at locations FAR18 and FAR19. Levels of volatile organic vapors measured in soil using the photoionization detector in the field were negligible, ranging from 0 to 0.2 units. The field-screening of soil and sediment samples, including visual and olfactory observations, did not identify evidence of obvious contamination.

4.2 GROUNDWATER CONDITIONS

The depth to groundwater measured at the Site during drilling activities, including both the soil boring investigation and the monitoring well installation, ranged from less than 5 to 15 feet bgs. Groundwater was not encountered during drilling at borings FAR4, FAR7 through FAR10, FAR20, FAR21, or FAR23. The depth to groundwater measured in the monitoring wells and piezometers ranged from 4.90 feet below the top of the casing at piezometer PA-19 to 15.32 feet below the top of the casing at monitoring well FAR16. Observations at boring FAR14 indicate that groundwater elevations are relatively high in this area at the base of the slope east of the Site. Groundwater in the area around the laboratory building is relatively deep and was not encountered during drilling to the maximum depth of 15 feet bgs in AOPC-6. Based on the topography and proximity to Ennis Creek and Port Angeles Harbor, groundwater flow direction at the Site is estimated to be generally toward the west-northwest.



4.3 AOPC-2: PIEZOMETER PA-19 AREA

Direct-push borings FAR1 and FAR2 were advanced in AOPC-2 at the north end of the Site for collection of soil and reconnaissance groundwater samples (Figure 2). A groundwater sample was collected also from piezometer PA-19 installed by the City in August 2010. Soil and groundwater quality in the area around piezometer PA-19 was identified in the Phase I ESA Report as a recognized environmental condition because of the analytical results for a groundwater sample collected from the borehole during construction of piezometer PA-19 in August 2010. These results indicated the presence of SVOCs, DRO, and metals. Analysis of a soil sample collected during installation of piezometer PA-19 identified detectable concentrations of metals and the VOC acetone.

Table 2 presents sample information and chemical analyses conducted on samples collected at AOPC-2. Tables C-1A and C-1B in Appendix C present analytical results for soil and reconnaissance groundwater samples collected at AOPC-2, respectively. Tables C-7A and C-7B summarize analytes detected in soil and groundwater samples collected during the Baseline Assessment, respectively. Table C-8 compares detected analytical results for samples collected during the Baseline Assessment to screening levels presented in the Work Plan.

Boring FAR1 was located near the west boundary of AOPC-2 adjacent to the Pre-Fabrication Area and on the alignment for the CSO. Boring FAR2 was located proximate to piezometer PA-19 and also on a section of the CSO alignment near the north boundary of the Site. Groundwater was encountered at depths of 11 and 6 feet bgs during drilling at borings FAR1 and FAR2, respectively. Soil samples were collected from boring FAR1 at depths of 6 and 10 feet bgs and from boring FAR2 at depths of 2.5 and 5.5 feet bgs and submitted for laboratory analysis. No indications of contamination, based on the field-screening methods described in Section 3.1, were noted during drilling, although an ash layer was noted at boring FAR1 at depths between 6 and 6.2 feet bgs.

Piezometer PA-19 is located near the center of AOPC-2, between two sections of the CSO alignment. Depth to groundwater was measured at 4.9 feet bgs during sampling of piezometer PA-19. Volatile organic vapors reportedly were noted during drilling of piezometer PA-19 in August 2010, but no odors were noted during the June 2011 sampling event.

Concentrations of the following COPCs above the laboratory method practical quantitation limit (PQL) were detected in soil samples collected from locations within AOPC-2 (Tables C-1A, C-7A):

- Acetone was detected in soil samples collected from each of the sampling intervals at both borings FAR1 and FAR2;
- Chromium, lead, and 14 SVOCs were detected in a soil sample collected from boring FAR1 at a depth of 10 feet bgs near the water table encountered during drilling; and
- Chromium was detected in a soil sample collected from boring FAR2 at a depth of 5.5 feet bgs near the water table encountered during drilling.



When establishing compliance with cleanup levels under MTCA, mixtures of cPAHs are evaluated as a single hazardous substance by calculating the total toxic equivalent concentration (TEC) relative to benzo(a)pyrene for each constituent of the mixture using methodology specified by WAC 173-340-708(8)(e) for seven cPAH constituents. The method entails a summation of detected concentrations, each multiplied by a specified toxicity equivalency factor. When a cPAH constituent was not detected, one-half of the PQL was used in the calculation. Of all detections in soil samples collected from AOPC-2, only the calculated cPAH TEC in the soil sample collected from FAR1 at 10 feet bgs exceeded the screening levels established in the Work Plan.

Concentrations of nine SVOCs above the PQL were detected in the reconnaissance groundwater sample collected from boring FAR2 within AOPC-2 (Tables C-1B, C-7B). Calculated TECs for cPAHs in the reconnaissance groundwater sample collected from boring FAR2 exceeded the screening levels established in the Work Plan. No COPCs above the PQL were detected in groundwater samples collected from boring FAR1 or piezometer PA-19.

Based on the analytical results for samples collected during the Baseline Assessment, the sample locations where screening levels were exceeded at AOPC-2 are summarized below:

- Vadose Zone Soil: FAR1—calculated cPAH TEC
- Groundwater: FAR2—calculated cPAH TEC

4.4 AOPC-4: STORAGE AREA AND DRAINAGE DITCH

Direct-push borings FAR3 and FAR4 were advanced in AOPC-4 in areas around the former storage building and the drainage ditch for collection of soil and reconnaissance groundwater samples south-adjacent to AOPC-2 and north of the laboratory and former control buildings. In addition, one surface soil sample was collected from the drainage ditch at location FAR5. Because portions of the area comprising AOPC-4 reportedly were used to store unknown materials, a recognized environmental condition was identified in the Phase I ESA Report. The drainage ditch also was identified as a recognized environmental condition because it receives runoff from other areas within AOPC-4 where unknown materials reportedly were stored, and from areas with known environmental concerns such as the equipment storage area at AOPC-7.

Table 2 presents sample information and identified the chemical analyses conducted on samples collected at AOPC-4. Tables C-2A and C-2B in Appendix C present analytical results for soil and reconnaissance groundwater samples collected at AOPC-4, respectively. Tables C-7A and C-7B summarize analytes detected in soil and groundwater samples, respectively, during the Baseline Assessment. Table C-8 compares detected analytical results for samples collected during the Baseline Assessment to the screening levels presented in the Work Plan.

Boring FAR3 was located near the northern boundary of AOPC-4, north of the former storage building and on the alignment for the CSO. Groundwater was encountered at a depth of 13 feet bgs during drilling, and soil samples submitted for chemical analysis were collected from a depth of 12.5 feet bgs. No indications of contamination, based on the field-screening methods described in Section 3.1, were noted during drilling.



Boring FAR4 was located near the southern boundary of AOPC-4, proximate to the drainage ditch. Groundwater was not encountered in this boring, which was advanced to a depth of 16 feet bgs. Soil samples were collected from depths of 4 and 9 feet bgs and submitted for laboratory analysis. No indications of contamination, based on the field-screening methods described in Section 3.1, were noted during drilling.

A surface soil sample was collected from the drainage ditch at location FAR5 at a depth at 0.5 foot bgs. No indications of contamination, based on the field-screening methods described in Section 3.1, were noted during collection of this sample.

Concentrations of the following COPCs above the PQL were detected in soil samples collected from locations within AOPC-4 (Tables C-2A, C-7A):

- Chromium, acetone, and carbon disulfide were detected in a soil sample collected from boring FAR3 at 12.5 feet bgs near the water table encountered during drilling;
- Cadmium, chromium, lead, 4,4'-DDT, Aroclor 1260, DRO, ORO, and 17 SVOCs were detected in the soil sample collected from boring FAR4 at a depth of 4 feet bgs; and
- Chromium, lead, Beta-BHC, and nine SVOCs were detected in the surface soil sample collected from location FAR5.

Concentrations of COPCs above the PQL were not detected in the reconnaissance groundwater sample collected from boring FAR3, the only reconnaissance groundwater sampling location within AOPC-4 (Tables C-2B, C-7B).

Chromium detected in the soil sample collected from boring FAR3 at a depth of 12.5 feet bgs exceeded the screening levels established in the Work Plan. The soil sample collected from boring FAR4 at 4 feet bgs exceeded screening levels for chromium, lead, 4,4'-DDT, and calculated total Aroclors based on one detected concentration of Aroclor 1260. Total Aroclors was calculated by summing the detected Aroclor concentrations and using half the PQL for those not detected. The surface soil ditch sample at location FAR5 exceeded the screening level for the pesticide Beta-BHC.

Based on the analytical results for samples collected during the Baseline Assessment, the sample locations where screening levels were exceeded at AOPC-4 are summarized below:

- Vadose Zone Soil: FAR3—chromium
FAR4—chromium, lead, 4,4'-DDT, calculated total Aroclors
- Ditch Surface Soil: FAR5—Beta-BHC

4.5 AOPC-6: LABORATORY AND FORMER CONTROL BUILDINGS

Direct-push borings FAR7 through FAR9, FAR20, and FAR21 were advanced in AOPC-6 in the area around the laboratory and the former control buildings for collection of soil and reconnaissance groundwater samples. In addition, a surface soil sample was collected from location FAR6 in the drainage ditch on the east side of AOPC-6, upstream of the FAR5 location



sampled in AOPC-4. Soil and groundwater quality in the area around the laboratory and former control buildings was identified in the Phase I ESA Report as a recognized environmental condition because of the potential for releases of hazardous substances possibly used in the laboratory and former control buildings during operation of the Rayonier Mill.

Table 2 presents sample information and chemical analyses conducted on samples collected at AOPC-6. Table C-3 in Appendix C presents analytical results for soil samples collected at AOPC-6. Groundwater was not encountered above the 15-foot total depth of the borings, and no reconnaissance groundwater samples were collected. Table C-7A summarizes analytes detected in soil samples collected during the Baseline Assessment. Table C-8 compares detected analytical results for samples collected during the Baseline Assessment to screening levels presented in the Work Plan.

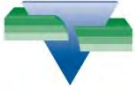
Borings FAR7 through FAR9 were located along the north boundary of AOPC-6, north of the laboratory and former control buildings and proximate to sections of the CSO alignment. Borings FAR20 and FAR21 were located on the south side of AOPC-6, south of the laboratory building. These locations are not on the CSO alignment. Other than a small zone of yellow-colored powder observed at a depth of 3 feet bgs at boring FAR20, no indications of contamination, based on the field-screening methods described in Section 3.1, were noted during drilling.

A surface soil sample was collected at a depth at 0.5 foot bgs in the drainage ditch at location FAR6. No indications of contamination, based on the field-screening methods described in Section 3.1, were noted during collection of this sample.

Concentrations of a number of COPCs above the PQL were detected in soil samples collected from locations within AOPC-6 (Tables C-3, C-7A). Concentrations of chromium, lead, Aroclor 1260, ORO, and two VOCs were detected in the soil sample collected at 2.5 feet bgs from boring FAR7 north of the laboratory building. Only the calculated total Aroclors exceeded its screening level in this sample (Table C-8). Concentrations of DRO and ORO below screening levels were detected in the sample collected from boring FAR7 at a depth of 6 feet bgs. Concentrations of chromium, lead, and ORO exceeding screening levels were detected in the soil sample collected at 2.5 feet bgs from boring FAR9, approximately 30 feet west of FAR7. Soil collected from boring FAR8 also was tested for SVOCs, and 16 constituents were detected at low concentrations. The calculated cPAH TEC was below its screening level.

Concentrations of chromium, lead, DRO, and ORO were detected in the soil sample collected at 5 feet bgs from boring FAR8, north of the former control buildings in the east part of AOPC-6. Concentrations of ORO were detected also in the soil sample collected at a depth of 11 feet bgs. Only the concentration of ORO detected in the sample collected from boring FAR8 at 5 feet bgs exceeded the screening level.

Concentrations of chromium; lead; the pesticides 4-4'-DDT, 4-4'-DDE, and dieldrin; Aroclor 1260; 18 SVOCs; ORO; 2-butanone; acetone; and benzene were detected in soil samples collected at 2.5 feet bgs from borings FAR20 and FAR21, south of the laboratory building. Several SVOCs and ORO were detected in the 5- and 6-foot samples collected from borings



FAR20 and FAR21, respectively. COPCs exceeding the soil screening levels in the 2.5-foot samples included lead, chromium (boring FAR20 only), the pesticides, calculated total Aroclors, and ORO. Only ORO exceeded the soil screening level in the deeper sampling intervals.

Chromium, lead, 4,4'-DDT, Aroclor 1260, 19 SVOCs, and ORO were detected in the surface soil sample collected from drainage ditch location FAR6. Lead, 4,4'-DDT, calculated the cPAHs TEC, and calculated total Aroclors exceeded screening levels (Table C-8).

Based on the analytical results for samples collected during the Baseline Assessment, the sample locations where screening levels were exceeded are summarized below:

- Vadose Zone Soil—Laboratory Building Area:
 - FAR7—calculated total Aroclors
 - FAR9—chromium, lead, ORO
 - FAR20—chromium, lead, 4,4'-DDT, calculated total Aroclors, ORO
 - FAR21—lead, 4,4'-DDE, 4,4'-DDT, dieldrin, calculated total Aroclors, ORO
- Vadose Zone Soil—Former Control Buildings Area:
 - FAR8—ORO
- Ditch Surface Soil: FAR6—lead, 4,4'-DDT, calculated total Aroclors, calculated cPAH TEC, ORO

4.6 AOPC-8: SECONDARY TREATMENT AST AND FORMER AST

Direct-push borings FAR10 through FAR12 and FAR23 were advanced in AOPC-8 around the secondary treatment AST, south-adjacent to AOPC-6, east of the chemical storage area (AOPC-5), and west of the equipment storage area (AOPC-7) for collection of soil and groundwater samples. One monitoring well subsequently was installed at the FAR11 boring location. A recognized environmental condition related to previously installed piezometer PZ-12 was identified in the Phase I ESA Report. Historical detections in groundwater samples collected from piezometer PZ-12 included SVOCs, pesticides, and metals. Other recognized environmental conditions were not specifically identified for this area in the Phase I ESA Report.

Table 2 presents sample information and chemical analyses conducted on samples collected at AOPC-8. Tables C-4A and C-4B in Appendix C present analytical results for soil and groundwater samples, respectively, collected at AOPC-8. Tables C-7A and C-7B summarize analytes detected in soil and groundwater samples, respectively, during the Baseline Assessment. Table C-8 compares detected analytical results in samples collected during the Baseline Assessment to screening levels presented in the Work Plan.

Boring FAR10 was located near the north boundary of AOPC-8, north of the secondary treatment AST and on the alignment for the CSO. Groundwater was not encountered above the total depth of the boring at 15 feet bgs. Soil samples were collected from depths of 2.5 and 15



feet bgs and submitted for laboratory analysis. No indications of contamination, based on the field-screening methods described in Section 3.1, were noted during drilling.

Boring FAR11 subsequently was completed as a monitoring well and was located near the western boundary of AOPC-8 immediately west of the secondary treatment AST and east-adjacent to AOPC-5 (the chemical storage area). This location was selected for a monitoring well because of its inferred down-gradient direction for west-northwest groundwater flow across this portion of the Site. Therefore, any groundwater impacts at this location may be attributable to releases to the east. Groundwater was encountered in this boring at a depth of 15 feet bgs, and the well screen was installed between depths of 12 and 22 feet bgs. Soil samples were collected from depths of 2.5 and 14.5 feet bgs and submitted for laboratory analysis. No indications of contamination, based on the field-screening methods described in Section 3.1, were noted during drilling.

Boring FAR12 was located near the east boundary of AOPC-8, west of the equipment storage area (AOPC-7). This location is not on the CSO alignment. Groundwater was encountered at a depth of 11 feet bgs during drilling. Soil samples were collected from a depth of 2.5 feet bgs and submitted for laboratory analysis. No indications of contamination, based on the field-screening methods described in Section 3.1, were noted during drilling.

Boring FAR23 was located near the south boundary of AOPC-8, proximal to piezometer PZ-12 installed previously by Rayonier. This location is not on the CSO alignment. Groundwater was not encountered above the total depth of the boring at 15 feet bgs. Soil samples were collected from depths of 2.5 and 6 feet bgs and submitted for laboratory analysis. No indications of contamination, based on the field-screening methods described in Section 3.1, were noted during drilling.

Piezometer PZ-12 is located south of the secondary treatment AST near the south boundary of AOPC-8. Depth to groundwater during sampling of piezometer PZ-12 was measured at 14.2 feet bgs.

Concentrations of COPCs above the PQL were detected in soil samples collected from locations within AOPC-8 (Tables C-4A and C-7A). Chromium, lead, Aroclor 1260, 11 SVOCs, ORO, and seven VOCs were detected in a soil sample collected from boring FAR10 at 2.5 feet bgs. Acetone also was detected in the soil sample retained from 15 feet bgs. Lead, calculated total Aroclors, ORO, and benzene detected in the 2.5 foot bgs sample were the only COPCs tested in soil samples collected from boring FAR10 that exceeded screening levels.

Concentrations of chromium, lead, endrin aldehyde, Aroclor 1260, 10 SVOCs, DRO, ORO, and two VOCs were detected in a soil sample collected from boring FAR11 at 2.5 feet bgs. Lead, endrin aldehyde, and calculated total Aroclors exceeded the screening levels in this sample.

Chromium was detected at a concentration exceeding the screening level in the soil sample collected from boring FAR12 at a depth of 2.5 feet bgs.



Chromium and acetone were detected in the soil sample collected from boring FAR23 at a depth of 2.5 feet bgs, and acetone was detected in the soil sample retained from 6 feet bgs. None of the concentrations detected exceeded the screening levels.

Concentrations of three VOCs above the PQL were detected at the monitoring well installed at boring FAR11 (Tables C-4B and C-7B). None of these detections exceeded the screening levels.

Based on the analytical results for samples collected during the Baseline Assessment, the sample locations where screening levels were exceeded at AOPC-8 are summarized below:

- Vadose Zone Soil: FAR10—lead, calculated total Aroclors, ORO, benzene
FAR11—lead, endrin aldehyde, calculated total Aroclors
FAR12—chromium

4.7 AOPC-9: UPPER YARD

Direct-push borings FAR13 through FAR16 were advanced in AOPC-9, a paved parking area south of AOPCs 7 and 8, for collection of soil and groundwater samples. One monitoring well subsequently was installed at the FAR16 boring location. The area is drained by a storm drain system with seven catch basins within AOPCs 8, 9, and 12 that discharges to the drainage ditches sampled at locations FAR6 (AOPC-6) and FAR4 (AOPC-4). Sediment in two of the five catch basins within AOPC-9 was sampled during the Baseline Assessment. Recognized environmental conditions were not specifically identified for this area in the Phase I ESA Report.

Table 2 presents sample information and chemical analyses conducted on samples collected at AOPC-9. Tables C-5A and C-5B in Appendix C present analytical results for soil and groundwater samples, respectively, collected at AOPC-9. Tables C-7A and C-7B summarize analytes detected in soil and groundwater samples, respectively, during the Baseline Assessment. Table C-8 compares detected analytical results for samples collected during the Baseline Assessment to screening levels presented in the Work Plan.

Borings FAR13 and FAR14 were located on the east side of AOPC-9 on the CSO alignment. Groundwater was encountered at a depth of 9 feet bgs at boring FAR13, and within 5 feet of the ground surface at boring FAR14. Soil samples were collected from boring FAR13 at depths of 2.5 and 6 feet bgs and from boring FAR14 at a depth of 3.5 feet bgs and submitted for laboratory analysis. No indications of contamination, based on the field-screening methods described in Section 3.1, were noted during drilling.

Boring FAR15 was located on the north-central portion of AOPC-9. This boring is not on the CSO alignment. Soil samples were collected from depths of 2.5 and 11 feet bgs and submitted for laboratory analysis. Groundwater was encountered at a depth of 12 feet bgs. No indications of contamination, based on the field-screening methods described in Section 3.1, were noted during drilling.

Boring FAR16 subsequently was completed as a monitoring well and was located near the western boundary of AOPC-9. This location was selected for a monitoring well because of its



inferred down-gradient direction for west-northwest groundwater flow across this portion of the Site. Therefore, any groundwater impacts at this location may be attributable to releases to the east. The soil sample submitted for chemical analysis was collected at a depth of 2.5 feet bgs. Groundwater was encountered in this boring at a depth of 15.7 feet bgs, and the well screen was installed between depths of 12 and 22 feet bgs. No indications of contamination, based on the field-screening methods described in Section 3.1, were noted during drilling.

Sediment samples were collected from two of the catch basins in AOPC-9 at locations FAR18 and FAR19. No indications of contamination, based on the field-screening methods described in Section 3.1, were noted during collection of the samples.

Concentrations of COPCs above the PQL were detected in soil samples collected from locations within AOPC-9 (Tables C-5A and C-7A). Chromium, lead, two SVOCs, and ORO were detected in the soil sample retained from boring FAR13 at a depth of 2.5 feet bgs. Only chromium was detected in the soil sample collected from boring FAR14 at a depth of 3.5 feet bgs. Chromium, lead, 16 SVOCs, and acetone were detected in soil samples retained from boring FAR15. Only chromium and lead were detected in soil samples collected from boring FAR16 that subsequently was completed as a monitoring well. The screening level for the calculated cPAH TEC was exceeded for the two soil samples retained from boring FAR15. Other COPCs detected in soil were at concentrations below screening levels.

COPCs detected in the sediment samples collected from catch basins at locations FAR18 and FAR19 included chromium, lead, Aroclor 1260 (location FAR18), several SVOCs, ORO and DRO (at location FAR18), and the VOCs toluene at location FAR18, and benzene, ethylbenzene, and m,p-xylene at location FAR19. Concentrations of COPCs detected in sediment samples collected from the catch basins were compared to soil screening levels for the purposes of the Baseline Assessment. Chromium and the calculated CPAH TEC exceeded soil screening levels in catch basin samples collected from locations FAR18 and FAR19. Calculated total Aroclors, DRO, and ORO exceeded soil screening levels at location FAR18. ORO and benzene exceeded soil screening levels at location FAR19.

Seven SVOCs were detected in the reconnaissance groundwater sample collected from boring FAR15, and arsenic was detected in the groundwater sample collected from monitoring well FAR16. The calculated cPAH TEC exceeded the screening level in the reconnaissance groundwater sample collected at boring FAR15, and arsenic exceeded the screening level in the groundwater sample collected from the monitoring well at location FAR16.

Based on the analytical results of samples collected during the Baseline Assessment, the sample locations where screening levels were exceeded at AOPC-9 are summarized below:

- Vadose Zone Soil: FAR15—calculated cPAH TEC, pentachlorophenol
- Groundwater: FAR15—calculated cPAH TEC, pentachlorophenol
FAR16—arsenic



- Catch Basin Sediment: FAR18—chromium, calculated total Aroclors, calculated cPAH TEC, DRO, ORO
FAR19—chromium, calculated cPAH TEC, ORO, benzene

4.8 AOPC-12: LEACHATE TRANSFER AST AREA

Direct-push borings FAR17 and FAR19 were advanced in AOPC-12, a paved parking area between AOPC-8 and the City waste water treatment plant, for collection of soil and reconnaissance groundwater samples. The area is drained by a storm drain system with seven catch basins within AOPCs 8, 9, and 12 that discharges to the drainage ditches sampled at locations FAR6 (AOPC-6) and FAR4 (AOPC-4). Boring FAR17 was located proximate to the location of the leachate transfer AST reportedly used for containing leachate from an off-Site source prior to discharge to the waste water treatment plant. A recognized environmental condition associated with the leachate transfer AST was identified in the Phase I ESA Report.

Table 2 presents sample information and chemical analyses conducted on samples collected at AOPC-12. Tables C-6A and C-6B in Appendix C present analytical results for soil and groundwater samples, respectively, collected at AOPC-12. Tables C-7A and C-7B summarize analytes detected in soil and groundwater samples, respectively, during the Baseline Assessment. Table C-8 compares detected analytical results for samples collected during the Baseline Assessment to screening levels presented in the Work Plan.

Borings FAR17 and FAR22 were located in the interior of AOPC-12 near the location of the leachate transfer AST and the terminus of the CSO alignment. Soil samples were collected from boring FAR17 at depths of 2.5 and 8 feet bgs and from boring FAR22 at depths of 2.5, 6, and 10 feet bgs and submitted for laboratory analysis. Groundwater was encountered at a depth of 8.5 feet bgs in boring FAR17 and at 12 feet bgs at boring FAR22. No indications of contamination, based on the field-screening methods described in Section 3.1, were noted during drilling.

Concentrations of COPCs above the PQL were detected in soil samples collected from locations within AOPC-12 (Tables C-6A and C-7A). Chromium, two SVOCs, and two VOCs were detected in soil samples collected from both borings FAR17 and FAR22. Only chromium detected in the samples retained from a depth of 2.5 feet bgs at locations FAR17 and FAR22 exceeded the soil screening level.

The SVOC butyl benzyl phthalate was detected in both reconnaissance groundwater samples collected from borings FAR17 and FAR22. There were no exceedances of groundwater screening levels in the reconnaissance groundwater samples collected from borings FAR17 or FAR22.

Based on the analytical results for samples collected during the Baseline Assessment, the sample locations where screening levels were exceeded at AOPC-12 are summarized below:

- Vadose Zone Soil: FAR17—chromium
FAR22—chromium



5.0 SUMMARY OF FINDINGS

The Baseline Assessment was conducted to evaluate whether hazardous materials were released at the Site prior to being purchased by the City in May 2011. The work was conducted to further evaluate recognized environmental conditions identified in the Phase I ESA Report. The term “recognized environmental condition” is defined as the presence or likely presence of any hazardous substance or petroleum product on the Site under conditions that indicate a past or existing release or material threat of release of any hazardous substance into a structure on the Site, or into the ground, groundwater, or surface water of the Site.

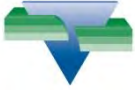
The Baseline Assessment was not intended to constitute elements of a remedial investigation under MTCA wherein contamination sources are identified and the nature and extent of contamination is determined. Supplemental upland study area characterization currently is being conducted by Rayonier to support completion of the Upland Data Summary Report and to provide sufficient information for completion of the Interim Action Alternatives Evaluation Report outlining cleanup action alternatives for the upland study area, including the Site, under terms of the Agreed Order.

Evidence of obvious contamination, based on the field-screening methods described in Section 3.1, was not noted, although a yellow-colored powder was noted at boring location FAR20. Soil at the Site consists of sands and silts with varying amounts of silt, sand, and gravel. Fill material was noted in most locations to a depth of approximately 10 feet bgs. Approximately 0.5 foot of sediment was noted in the two stormwater catch basins sampled for the Baseline Assessment. Depth to groundwater encountered during the Baseline Assessment varied from less than 5 feet to 15 feet bgs. Drilling in the vicinity of the laboratory building did not encounter groundwater above 15 feet bgs, the total depth of the borings. Based on the topography and proximity to Ennis Creek and Port Angeles Harbor, groundwater flow at the Site is estimated to be in a general west-northwest direction.

The major findings of the Baseline Assessment relative to the seven recognized environmental conditions identified in the Phase I ESA are summarized below.

- 1. The potential release of landfill leachate from the leachate transfer AST and pump on the southeast portion of the Site is a recognized environmental condition (AOPC-12).*

This recognized environmental condition pertains to the leachate transfer AST in AOPC-12 as shown on Figure 2. Analytical results for samples collected during the Baseline Assessment at AOPC-12 at the locations of borings FAR17 and FAR22 identified the presence of low concentrations of one metal COPC and a limited number of VOCs and SVOCs in vadose zone soil. Chromium was the only COPC detected in soil at a concentration exceeding the screening level. Concentrations of one SVOC that were considerably below the screening level were detected in reconnaissance groundwater samples. These data do not indicate that a release of landfill leachate has affected AOPC-12. The source(s) and nature and extent of chromium in soil at AOPC-12 are not known.



2. *The potential release of hazardous substances in the vicinity of the laboratory building is a recognized environmental condition (west side of AOPC-6).*

This recognized environmental condition pertains to the laboratory building on the west side of AOPC-6 as shown on Figure 2. Analytical results for samples collected during the Baseline Assessment at AOPC-6 at the locations of borings FAR7, FAR9, FAR20, and FAR21 proximate to the laboratory building identified the presence of metals, pesticides, Aroclors, SVOCs, TPH constituents, and VOCs in vadose zone soil. No groundwater was encountered above 15 feet bgs, the total depth of the borings, at locations around the laboratory building during the Baseline Assessment. COPCs detected in soil at concentrations exceeding soil screening levels in AOPC-6 in the vicinity of the laboratory building include the following:

- Metals
 - Chromium
 - Lead
- Pesticides
 - 4,4'-DDE
 - 4,4'-DDT
 - Dieldrin
- PCBs
 - Calculated total Aroclors
- SVOCs
 - Calculated cPAHs TEC
- TPH
 - ORO

The source(s) and nature and extent of COPCs in soil that exceed screening levels in the vicinity of the laboratory building are not known.

3. *The potential release of hazardous substances in the vicinity of the former secondary treatment control buildings and the former storage building is a recognized environmental condition (AOPC-4 and east side of AOPC-6).*

This recognized environmental condition pertains to the former control buildings east of the laboratory building in AOPC-6, and the former storage building in AOPC-4 north of the laboratory building as shown on Figure 2. These buildings reportedly were demolished by Rayonier in the 1990s. Analytical results for samples collected during the Baseline Assessment at the location of boring FAR8 identified the presence of metals and TPH constituents in vadose zone soil. Analytical results for samples collected at the locations of borings FAR3 and FAR4 indicate the presence of metals, a pesticide, PCBs, SVOCs, TPH constituents, and VOCs in



vadose zone soil. There were no analytes detected in the reconnaissance groundwater sample collected from boring FAR-3, the only groundwater sample collected in AOPC-4, and no groundwater was encountered in AOPC-6. COPCs detected in soil at concentrations exceeding soil screening levels at the locations of borings FAR3, FAR4, and FAR8 in the vicinity of the former control buildings and the former storage building include the following:

- Metals (AOPC-4)
 - Chromium
 - Lead
- Pesticides (AOPC-4)
 - 4,4'-DDT
- PCBs (AOPC-4)
 - Calculated total Aroclors
- TPH (AOPC-6)
 - ORO

The source(s) and nature and extent of COPCs in soil that exceed screening levels in the vicinity of the former control buildings and the former storage building are not known.

4. *The potential release of hazardous substances to and along the boundaries of the ditch and wetland area is a recognized environmental condition (AOPCs 4, 6, 7, and 8).*

This recognized environmental condition pertains to the drainage ditches receiving stormwater runoff from the storm drain system and from overland flow in AOPCs 4, 6, 7, and 8, and can be discerned in the aerial photograph on Figure 2. The downstream end of the ditch system in AOPC-4 includes a wetland area. Surface soil samples were collected in the drainage ditches proximate to the former control buildings (location FAR6 in AOPC-6) and to the former storage building (location FAR5 in AOPC-4 and within the wetland area). Analytical results for samples collected at these locations identified the presence of metals, pesticides, PCBs, SVOCs, and TPH constituents in surface soil in the ditches. COPCs detected at concentrations exceeding soil screening levels at surface soil sample locations FAR5 and FAR6 in the vicinity of the former control buildings and the former storage building include the following:

- Metals (AOPC-6)
 - Lead
- Pesticides (AOPC-4 and AOPC-6)
 - Beta-BHC
 - 4,4'-DDT
- PCBs (AOPC-6)



- Calculated total Aroclors
- SVOCs (AOPC-6)
 - Calculated cPAH TEC
- TPH (AOPC-6)
 - ORO

The source(s) and nature and extent of COPCs in surface soil within the ditches that exceed screening levels are not known.

5. *The known concentrations of hazardous substances in soil and groundwater on the Site in the vicinity of the former equipment storage area, in a localized area on the southern portion of the Site, and on the northern portion of the Site is a recognized environmental condition (AOPCs 2, 7, 8, and 9).*

This recognized environmental condition pertains to three general areas: the former equipment storage area (AOPC-7), the area around piezometer PZ-12 (on the boundary of AOPCs 8 and 9), and the area around piezometer PA-19 (AOPC-2) as shown on Figure 2. Prior work conducted by Rayonier has confirmed that soil and groundwater quality in the vicinity of the equipment storage area in AOPC-7 has been impacted, constituting a recognized environmental condition. Therefore, no additional characterization of subsurface conditions was conducted in AOPC-7 during the Baseline Assessment.

The localized area on the southern portion of the Site refers to the area around piezometer PZ-12 in AOPC-8. Analytical results for samples collected during the Baseline Assessment at AOPC-8 at the location of boring FAR23 identified the presence of concentrations of one metal and one VOC in vadose zone soil that were below soil screening levels. Groundwater from piezometer PZ-12 was sampled during the Baseline Assessment and no COPCs were detected. Historical detections in groundwater samples collected from piezometer PZ-12 included SVOCs, pesticides, and metals. Concentrations of one SVOC COPC, one pesticide COPC, and several metals previously have exceeded groundwater screening levels.

The northern portion of the Site refers to the area around piezometer PA-19 in AOPC-2. Analytical results for samples collected during the Baseline Assessment at AOPC-2 identified the presence of metals, SVOCs, and VOCs in vadose zone soil. Groundwater at borings FAR1, FAR2, and piezometer PA-19 was sampled during the Baseline Assessment and analytical results identified the presence of SVOCs in a reconnaissance groundwater sample collected from boring FAR2. No COPCs were detected in the groundwater samples collected from boring FAR1 or from piezometer PA-19. Detection constituents in a groundwater sample collected from the borehole during construction of piezometer PA-19 in August 2010 included SVOCs, DRO, and metals. Concentrations of DRO and some metals detected in the groundwater sample exceeded groundwater screening levels. Analysis of a soil sample collected during installation of piezometer PA-19 detected the presence of concentrations of metals and one VOC (acetone), none of which exceeded soil screening levels.



SVOC COPCs were detected in a soil sample collected from boring FAR1 at concentrations causing the calculated TEC for cPAHs to exceed the soil screening level. Concentrations of SVOCs detected in the reconnaissance groundwater sample collected from boring FAR2 resulted in exceedance of the groundwater screening level for the cPAH TEC. No other screening levels were exceeded at AOPC-2 for the COPCs studied in this Baseline Assessment.

The source(s) and nature and extent of COPCs in soil and groundwater in the areas around piezometers PZ-12 and PA-19 that exceed screening levels are not known.

6. *The potential for localized areas of contamination not currently known on the Site due to former Rayonier Mill operations is a recognized environmental condition (AOPCs 2, 4, 6, 8, 9, and 12).*

Prior to the Baseline Assessment, the only known areas of contamination at the Site were AOPC-7 and the area around piezometer PZ-12 (Figure 2). Conditions encountered in AOPCs 2, 4, 6, parts of 8, and 12 are discussed above. Analytical results for samples collected during the Baseline Assessment at other areas of the Site not previously discussed at AOPCs 8 and 9 address the potential for localized areas of contamination not currently known in these areas.

Analytical results for samples collected during the Baseline Assessment at AOPC-8 boring locations FAR10 through FAR12 identified the presence of metals, pesticides, PCBs, SVOCs, TPH COPCs, and VOCs in vadose zone soil. Groundwater samples were collected from monitoring well FAR11 and from boring FAR12. Analytical results for samples collected at these locations identified the presence of VOCs in a groundwater sample collected from monitoring well FAR11, although concentrations do not exceed groundwater screening levels. Constituents detected in soil at AOPC-8 at concentrations exceeding soil screening levels include the following:

- Metals
 - Chromium
 - Lead
- Pesticides
 - Endrin aldehyde
- PCBs
 - Calculated total Aroclors
- TPH
 - ORO

The source(s) and nature and extent of COPCs in soil that exceed screening levels at AOPC-8 are not known.

Concentrations of metals, SVOCs, TPH constituents, and VOCs were detected in vadose zone soil samples collected during the Baseline Assessment at AOPC-9 boring locations FAR13



through FAR16. COPCs detected in AOPC-9 soil at boring location FAR15 exceeding soil screening levels include the following:

- SVOCs
 - Pentachlorophenol
 - Calculated cPAHs TEC

Groundwater samples were collected from the monitoring well installed at boring FAR16 and from borings FAR13 through FAR15. Concentrations of SVOCs were detected in a reconnaissance groundwater sample collected from boring FAR15, and one metal was detected in monitoring well FAR16. COPCs detected in groundwater samples collected at AOPC-9 exceeding groundwater screening levels include the following:

- Metals
 - Arsenic
- SVOCs
 - Calculated cPAHs TEC

The source(s) and nature and extent of COPCs in soil and groundwater that exceed the screening levels at AOPC-9 are not known.

Concentrations of metals, PCBs, SVOCs, TPH constituents, and VOCs were detected in catch basin sediment in samples collected during the Baseline Assessment at AOPC-9 catch basin sediment sampling locations FAR18 and FAR19. COPCs detected in AOPC-9 catch basin sediment above soil screening levels are the following:

- Metals
 - Chromium
- PCBs
 - Calculated total Aroclors
- SVOCs
 - Calculated cPAHs TEC
- TPH
 - DRO
 - ORO
- VOCs
 - Benzene



The source(s) of COPCs in catch basins sediment sampling locations FAR18 and FAR19 are not known.

7. *The potential migration of hazardous substances from known and/or suspected impacts from former adjacent Rayonier Mill operations, including the pre-fab area, chemical storage area, and northern former mill area, is a recognized environmental condition (AOPC-1, AOPC-3, AOPC-5, and AOPC-11).*

The potential for migration of hazardous substances from known and/or suspected adjacent and off-Site areas of Rayonier Mill operations via a groundwater or stormwater/surface water pathway was addressed with the Baseline Assessment sampling activities. Sampling locations proximate to adjacent impacted areas were selected based on the assumptions that groundwater at the Site flows to the west-northwest, and that surface water flows generally toward the lower elevations to the north and Port Angeles Harbor. AOPC-7, the equipment storage area that is a portion of the Site, is considered to be the most-likely known impacted area with the potential to affect conditions elsewhere at the Site. One monitoring well, eight borings, and two ditch soil sampling locations were located to the west and down-gradient/downhill of AOPC-7 to address this concern, and results of this sampling are summarized above. Rayonier has conducted investigations, including soil and/or groundwater sampling, at AOPCs 1, 3, 4, 7, 8, and 11, to support its work completing the characterization of the upland portion of the Mill Property, including the Site, and evaluating and selecting the most-appropriate cleanup remedy.



6.0 REFERENCES

- Farallon Consulting, L.L.C. (Farallon). 2011a. *Phase I Environmental Site Assessment Report, Rayonier Property Lots 1 and 2, Port Angeles, Washington*. May 11.
- _____. 2011b. *Sampling and Analysis Plan, Sale Parcel Baseline Assessment, Former Rayonier Mill Facility, 700 North Ennis Street, Port Angeles, Washington*. June 3.
- GeoEngineers, Inc. (GeoEngineers). 2010. *Supplemental Upland Data Collection Work Plan, Port Angeles Rayonier Mill Site, Port Angeles, Washington*. July 20.
- _____. 2011. *Supplemental Upland Data Collection Technical Memorandum for the Upland Portion of the Study Area, Port Angeles Rayonier Mill Site, Port Angeles, Washington*. June 15.
- U.S. Environmental Protection Agency (EPA). 1996. *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures*. EPA Publication /540/S-95/504. April.



7.0 LIMITATIONS

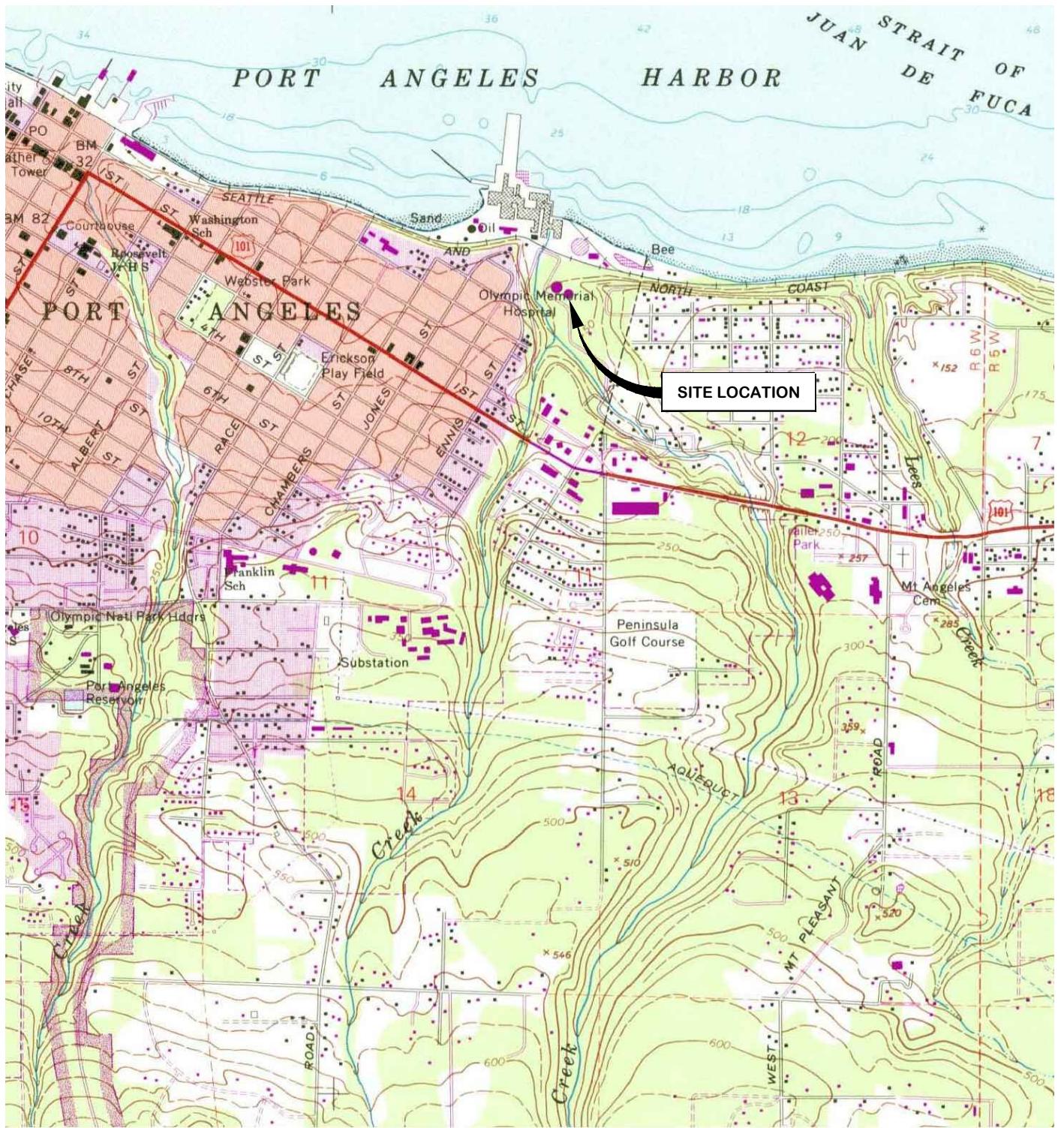
The conclusions and recommendations contained in this report/assessment are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location and are subject to the following inherent limitations:

- **Accuracy of Information.** Certain information used by Farallon in this assessment has been obtained, reviewed, and evaluated from various sources believed to be reliable. Although Farallon's conclusions, opinions, and recommendations are based in part on such information, Farallon's services did not include verification of its accuracy or authenticity. Should such information prove to be inaccurate or unreliable, Farallon reserves the right to amend or revise its conclusions, opinions, and/or recommendations.

FIGURES

BASELINE SUBSURFACE ENVIRONMENTAL ASSESSMENT Portion of Rayonier Mill Property 700 North Ennis Street Port Angeles, Washington

Farallon PN: 1005-001



REFERENCE: 7.5 MINUTE USGS QUADRANGLE PORT ANGELES, WASHINGTON. DATED 1983

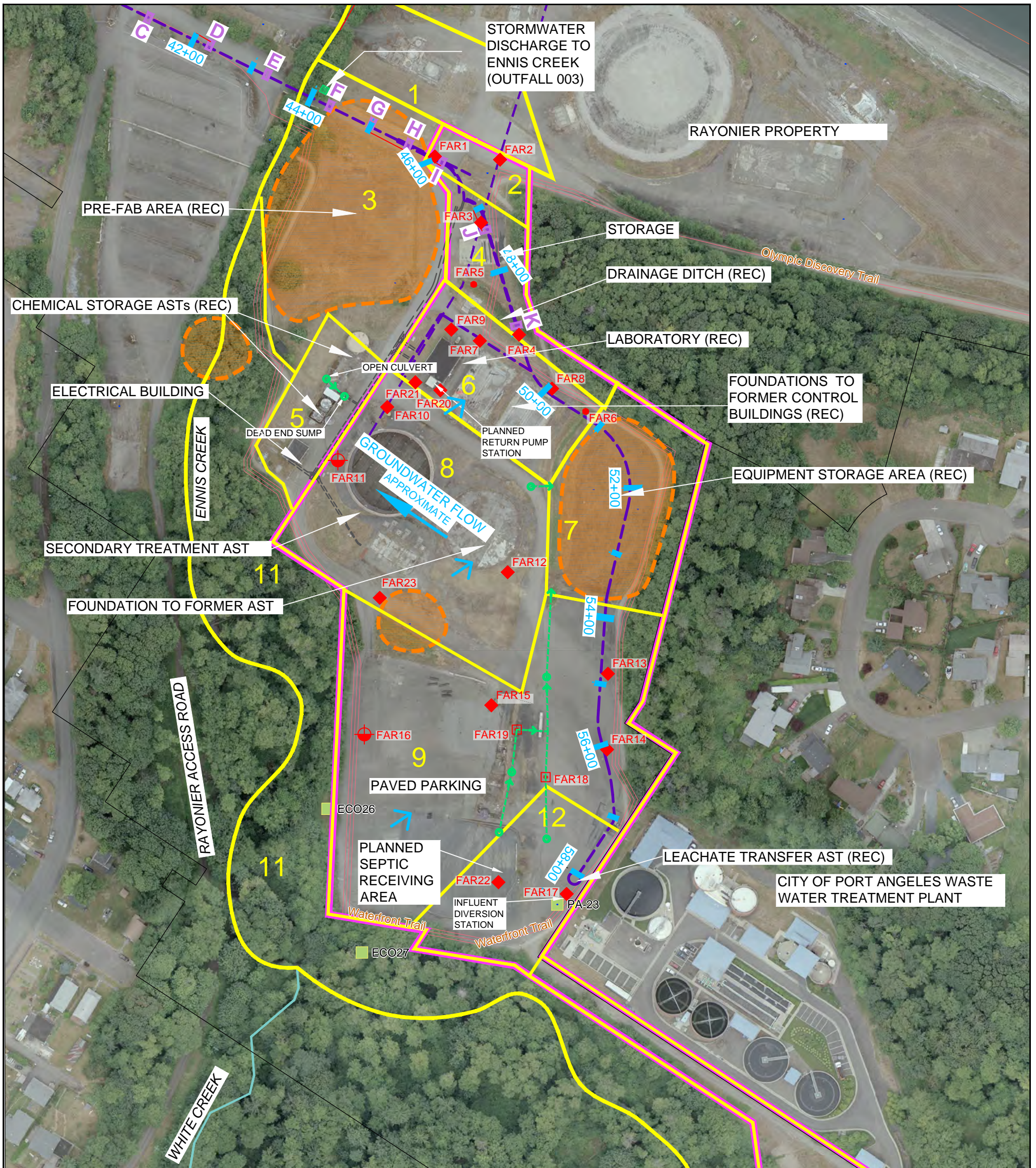


FARALLON CONSULTING
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 Issaquah, WA 98027

FIGURE 1
 SITE VICINITY MAP
 PORT ANGELES CSO
 RAYONIER SALE PARCEL
 PORT ANGELES, WASHINGTON

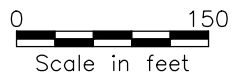
FARALLON PN: 1005

Drawn By: DEW	Checked By: TH	Date: 2/14/11	Disk Reference: 1005-001
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LEGEND

- 12 SALE PARCEL
- AREAS OF POTENTIAL CONCERN
- COMBINED SEWER OVERFLOW PIPING ALIGNMENT PER 100% DESIGN DRAWINGS
- KNOWN SOIL AND GROUNDWATER IMPACTS, RECOGNIZED ENVIRONMENTAL CONDITION IDENTIFIED IN PHASE I REPORT BOUNDARIES UNCERTAIN AND APPROXIMATE
- ALIGNMENT STATIONS AT 100-FOOT INTERVALS
- ARCHEOLOGICAL TEST PITS
- DIRECT PUSH BORING LOCATIONS
- SURFACE SOIL GRAB SAMPLE LOCATIONS
- SHALLOW ZONE MONITORING WELL LOCATIONS
- CATCH BASIN SEDIMENT SAMPLE LOCAIOTNS
- STORMWATER CATCH BASIN
- UNDERGROUND STORMWATER CONVEYANCE
- STORMWATER SURFACE FLOW (GENERAL)
- PRIOR SAMPLING LOCATIONS BY OTHERS
- AST ABOVEGROUND STORAGE TANK
- REC RECOGNIZED ENVIRONMENTAL CONDITION IDENTIFIED IN PHASE 1 REPORT



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FIGURE 2
BASELINE ASSESSMENT SAMPLING LOCATIONS
CITY OF PORT ANGELES
PORT ANGELES CSO
PORT ANGELES, WASHINGTON

P:\Projects\1005001 Port Angeles CSO\Drawings_Plus\1005-001.dwg, 10/27/2011 1:41:43 PM

TABLES

BASELINE SUBSURFACE ENVIRONMENTAL ASSESSMENT Portion of Rayonier Mill Property 700 North Ennis Street Port Angeles, Washington

Farallon PN: 1005-001

Table 1
Sampling Rationale
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Area of Potential Concern (AOPC)	Constituents Tested in Prior Investigations		Data Gap For Baseline Assessment?	Sample Location Type	Comments
	Soil	Groundwater			
1 North Perimeter Area	cPAHs, TPH, Pesticides ³ , Metals ¹ , Dioxin/Furan	None Identified	No	None	Not on Purchase Parcel; no sampling to be conducted.
2 Piezometer PA-19 Area	cPAHs, TPH, PCBs, Pesticides ³ , Metals ¹ , Dioxin/Furan	VOCs, SVOCs, TPH, PCBs Pesticides ⁴ , Metals ² , Dioxin/Furan	Yes	Reconnaissance Geoprobe for soil and groundwater testing	Historical exceedances: TPH and metals in groundwater (not corroborated in follow-up sampling); only VOCs and metals tested in soil. No source identified. Proximal RECs: Pre-fab Area. CSO alignment goes through this AOPC.
3 Pre-fab Area	TPH, Metals ¹ , Dioxin/Furan	SVOCs, PCBs, Metals ² , Dioxin/Furan	No	None	Not on Purchase Parcel; no sampling to be conducted.
4 Storage Area, Drainage Ditch	TPH, Pesticides ³ , Metals ¹ , Dioxin/Furan	None Identified	Yes	Reconnaissance Geoprobe for soil and groundwater testing; ditch grab sample for shallow soil testing	Historical exceedances: metals and pesticides in soil; groundwater not tested. Proximal RECs: Pre-fab Area, Equipment Storage Area, drainage ditch, laboratory & former control building. CSO alignment goes through this AOPC.
5 Chemical Storage Area	None Identified	None Identified	No	None	Not on Purchase Parcel; no sampling to be conducted.
6 Laboratory, Former Control Building	None Identified	None Identified	Yes	Reconnaissance Geoprobe for soil and groundwater testing; ditch grab sample for shallow soil testing	No soil or groundwater testing has been conducted. Proximal RECs: laboratory and former control building, Pre-fab Area, Chemical Storage Area, Equipment Storage Area. CSO alignment goes through this AOPC.
7 Equipment Storage Area	cPAHs, TPH, PCBs, Pesticides ³ , Metals ¹ , Dioxin/Furan	SVOCs, PCBs, Pesticides ⁴ , Metals ² , Dioxin/Furan	No	None	On Purchase Parcel but Rayonier is currently investigating this area. CSO alignment goes through this AOPC.
8 Secondary Treatment AST, Former AST	None Identified	VOCs, SVOCs, cPAHs, TPH, PCBs Pesticides ⁴ , Metals ² , Dioxin/Furan	Yes	Reconnaissance Geoprobe and monitoring well for soil and groundwater testing	Historical exceedances of SVOCs, pesticides, and metals in groundwater; soil has not been tested. Proximal RECs: Equipment Storage Area, Chemical Storage Area, laboratory and former control building. Selected location for permanent monitoring well installation for ongoing down-gradient property line groundwater monitoring.
9 Upper Yard	None Identified	None Identified	Yes	Reconnaissance Geoprobe and monitoring well for soil and groundwater testing; catch basin grab sample for sediment testing	No soil or groundwater testing has been conducted. Proximal RECs: Leachate Transfer AST. Selected location for permanent monitoring well installation for ongoing down-gradient property line groundwater monitoring. CSO alignment goes through this AOPC.
10 South Section	VOCs, SVOCs, cPAHs, TPH, PCBs, Pesticides ³ , Metals ¹ , Dioxin/Furan	VOCs, SVOCs, cPAHs, TPH, PCBs, Pesticides ⁴ , Metals ² , Dioxin/Furan	No	None	No RECs identified.
11 General Perimeter	VOCs, cPAHs, TPH, PCBs, Pesticides ³ , Metals ¹ , Dioxin/Furan	None Identified	No	None	Not on Purchase Parcel; no sampling to be conducted.
12 Leachate Transfer AST Area	None Identified	Dioxin/Furan	Yes	Reconnaissance Geoprobe for soil and groundwater testing	No soil or groundwater testing has been conducted with the exception of one groundwater sample tested for dioxins and furans that exceeded its screening level. Proximal RECs: Leachate Transfer AST. CSO alignment goes through this AOPC.

NOTES:

- ¹Tested metals in soil = antimony, arsenic, barium, cadmium, chromium, cobalt, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, vanadium, and zinc
- ²Tested metals in groundwater = arsenic, cadmium, copper, lead, manganese, mercury, nickel, selenium, and silver.
- ³Tested pesticides in soil = 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, aldrin, alpha-chlordane, beta-BHC, dieldrin, endosulfan I, endosulfan II, endosulfan III, endosulfan sulfate, endrin, endrin aldehyde, endrin ketone gamma-BHC (lindane), gamma-chlordane, heptachlor, heptachlor epoxide, hexachlorobenzene, alpha-BHC, and toxaphene.
- ⁴Tested pesticides in groundwater = 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-chlordane, endrin, endrin aldehyde, endrin ketone, heptachlor (aldrin, alpha-BHC, beta-BHC, delta-BHC, dieldrin, endosulfan I, endosulfan II, endosulfan sulfate, gamma-BHC, gamma-chlordane, heptachlor epoxide, hexachlorobenzene, methoxychlor, and toxaphene)

- AOPC = Area of Potential Concern (see Figure 2)
 - AST = aboveground storage tank
 - cPAHs = carcinogenic polycyclic aromatic hydrocarbons
 - CSO = combined sewer overflow
 - PCBs = polychlorinated biphenyls
 - REC = Recognized Environmental Condition per *Phase I Environmental Site Assessment Report, Rayonier Property Lots 1 and 2 Port Angeles, Washington* dated May 11, 2011, prepared by Farallon Consulting, L.L.C.
 - SVOCs = semivolatile organic compounds
 - TPH = total petroleum hydrocarbons
 - VOCs = volatile organic compounds
-
- Shading indicates no sampling proposed

Table 2
Field Sampling and Chemical Analyses
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Area of Potential Concern (AOPC)	Location Identifier	Sample Location Type	Depth to Groundwater (approximate, feet bgs)	Matrix	Sample Identifier	Sample Depth (feet)	Sample Date	ANALYSES							
								Metals (EPA Methods 6010B/SW7471A; water field filtered)	Pesticides (8081A)	Polychlorinated Biphenyls (EPA Method 8082)	Semi-Volatile Organic Compounds (EPA Method 8270)	Total Petroleum Hydrocarbons (Northwest Methods)	Volatile Organic Compounds (EPA Methods 8260, 8020)		
1	North Perimeter Area							No Sampling							
2	Piezometer PA-19 Area	FAR1	Geoprobe Boring	11	Subsurface Soil	FAR1-6.0	6-6.5	6/22/2011							X
					Groundwater	FAR1-10.0	10-10.5	6/22/2011	X				X	X	X
					Groundwater	FAR1-062211-GW	12.5	6/22/2011				X	X	X	
		FAR2	Geoprobe Boring	6	Subsurface Soil	FAR2-2.5	2.5-3	6/22/2011						X	
					Groundwater	FAR2-5.5	5.5-6	6/22/2011	X	X	X	X	X	X	
		PA-19	Previously-installed Piezometer	4.9	Groundwater	PA-19-062811-GW	12.3	6/28/2011	X					X	X
3	Pre-fab Area							No Sampling							
4	Storage Area, Drainage Ditch	FAR3	Geoprobe Boring	13	Subsurface Soil	FAR3-12.5	12.5-13	6/22/2011	X			X	X	X	
					Groundwater	FAR3-062211-GW	14.5	6/22/2011				X	X	X	
		FAR4	Geoprobe Boring	>15	Subsurface Soil	FAR4-4.0	4-4.5	6/22/2011	X	X	X	X	X		
					Groundwater	FAR4-9.0	9-9.5	6/22/2011				X	X		
		FAR5	Ditch Grab Sample	NA	Surface Soil	FAR5-0.5	0.5-1	6/21/2011	X	X	X	X	X		
5	Chemical Storage Area							No Sampling							
6	Laboratory, Former Control Buildings	FAR6	Ditch Grab Sample	NA	Surface Soil	FAR6-0.5	0.5-1	6/21/2011	X	X	X	X	X	X	
		FAR7	Geoprobe Boring	>15	Subsurface Soil	FAR7-2.5	2.5-3	6/21/2011	X	X	X	X	X		
					Groundwater	FAR7-6.0	6-6.5	6/21/2011				X	X		
		FAR8	Geoprobe Boring	>15	Subsurface Soil	FAR8-5.0	5-5.5	6/22/2011	X				X	X	
					Groundwater	FAR8-11.0	11-11.5	6/22/2011				X	X		
		FAR9	Geoprobe Boring	>15	Subsurface Soil	FAR9-2.5	2.5-3	6/21/2011	X			X	X		
					Groundwater	FAR9-6.0	6-6.5	6/21/2011				X	X		
		FAR20	Geoprobe Boring	>15	Subsurface Soil	FAR20-2.5	2.5-3	6/21/2011	X	X	X	X	X		
Groundwater	FAR20-5.0				5-5.5	6/21/2011				X	X				
FAR21	Geoprobe Boring	>15	Subsurface Soil	FAR21-2.5	2.5-3	6/21/2011	X	X	X	X	X				
					FAR21-6.0	6-6.5	6/21/2011				X	X			
7	Equipment Storage Area							No Sampling							
8	Secondary Treatment AST, Former AST	FAR10	Geoprobe	>15	Subsurface Soil	FAR10-2.5	2.5-3	6/21/2011	X	X	X	X	X	X	
					Groundwater	FAR10-6.0	6-6.5	6/21/2011				X	X		
					Groundwater	FAR10-15.0	15-15.5	6/21/2011				X	X		
		FAR11	Geoprobe Boring & Monitoring Well	14.5	Subsurface Soil	FAR11-2.5	2.5-3	6/23/2011	X	X	X	X	X		
					Groundwater	FAR11-14.5	14.5-15	6/23/2011				X	X		
		FAR12	Geoprobe Boring	11	Subsurface Soil	FAR11-062811-GW	19.2	6/28/2011	X			X	X		
					Groundwater	FAR12-2.5	2.5-3	6/20/2011	X			X	X		
		FAR23	Geoprobe Boring	>15	Subsurface Soil	FAR12-062011-GW	14.5	6/20/2011				X	X		
					Groundwater	FAR23-2.5	2.5-3	6/24/2011	X	X	X	X	X		
		PZ-12	Previously-installed Piezometer	14.2	Groundwater	FAR23-6.0	6-6.5	6/24/2011				X	X		
					PZ-12-062811-GW	18.8	6/28/2011	X			X	X			
9	Upper Yard	FAR13	Geoprobe Boring	9	Subsurface Soil	FAR13-2.5	2.5-3	6/21/2011	X			X	X	X	
					Groundwater	FAR13-6.0	6-6.5	6/21/2011				X	X		
		FAR14	Geoprobe Boring	2	Subsurface Soil	FAR13-062111-GW		6/21/2011				X	X		
					Groundwater	FAR14-3.5	3.5-4	6/22/2011	X			X	X		
		FAR15	Geoprobe Boring	12	Subsurface Soil	FAR14-062211-GW		6/22/2011				X	X		
					Groundwater	FAR15-2.5	2.5-3	6/20/2011	X	X	X	X	X		
		FAR16	Geoprobe Boring & Monitoring Well	15.3	Subsurface Soil	FAR15-11.0	11-11.5	6/20/2011				X	X		
					Groundwater	FAR15-062011-GW	14.5	6/20/2011				X	X		
		FAR18	Catch Basin Grab Sample	NA	Catch Basin Sediment	FAR16-2.5	2.5-3	6/23/2011	X			X	X		
Catch Basin Sediment	FAR-16-062811-GW				19	6/28/2011	X			X	X				
FAR19	Catch Basin Grab Sample	NA	Catch Basin Sediment	FAR18-0.5	0.5-1	6/23/2011	X	X	X	X	X				
					FAR19-0.5	0.5-1	6/23/2011	X	X	X	X	X			
10	South Section							No Sampling							
11	General Perimeter							No Sampling							
12	Leachate Transfer AST Area	FAR17	Geoprobe Boring	8.5	Subsurface Soil	FAR17-2.5	2.5-3	6/23/2011	X	X	X	X	X	X	
					Groundwater	FAR17-8.0	8-8.5	6/23/2011				X	X		
					Groundwater	FAR17-062311-GW	9.5	6/23/2011				X	X		
		FAR22	Geoprobe Boring	12	Subsurface Soil	FAR22-2.5	2.5-3	6/24/2011	X	X	X	X	X		
					Groundwater	FAR22-6.0	6-6.5	6/24/2011				X	X		
					Groundwater	FAR22-10.0	10-10.5	6/24/2011				X	X		
					FAR22-062411-GW	11.5	6/24/2011				X	X			

NOTES:
AOPC = Area of Potential Concern (see Figure 2)
AST = aboveground storage tank
bgs = below ground surface
NA = not applicable
> = greater than

APPENDIX A
SOIL AND GROUNDWATER SCREENING LEVELS (GEOENGINEERS,
INC. 2010)

BASELINE SUBSURFACE ENVIRONMENTAL ASSESSMENT
Portion of Rayonier Mill Property
700 North Ennis Street
Port Angeles, Washington

Farallon PN: 1005-001

TABLE 1
SOIL SCREENING LEVELS
PORT ANGELES RAYONIER MILL SITE
PORT ANGELES, WASHINGTON

Analyte	Soil Concentration Protective of Groundwater as Marine Surface Water (MTCA Fixed Parameter Three-Phase Partitioning Model) mg/kg	Human Health Direct Contact Pathway (MTCA Method B Standard Formula Value for Unrestricted Land Use)		Ecological Indicator Soil Concentration for Protection of Terrestrial Plants and Animals (MTCA Table 749-3) mg/kg	Preliminary Screening Level (Before adjustment for background) mg/kg	Background Concentration (f) mg/kg	Preliminary Screening Level (After adjustment for background) mg/kg	PQL (e) mg/kg	Soil Screening Level (After adjustment for background and PQL) mg/kg
		Carcinogen mg/kg	Non-Carcinogen mg/kg						
TPH									
Gasoline-Range Petroleum Hydrocarbons	30 (b,c)	--	30 (b,c)	100	30	--	30	5	30
Diesel-Range Petroleum Hydrocarbons	2,000 (b)	--	2,000 (b)	200	200	--	200	5	200
Heavy Oil-Range Petroleum Hydrocarbons	2,000 (b)	--	2,000 (b)	200	200	--	200	10	200
Metals									
Aluminum	NE	--	--	50	50	32,600	32,600	5.0	32,600
Antimony	580	--	32	5	5	--	5	0.2	5
Arsenic	0.057	0.67	24	7	0.057	20 (g)	20	0.2	20
Barium	NE	--	16,000	102	102	--	102	0.3	102
Beryllium	4,300	--	160	10	10	0.6	10	0.1	10
Cadmium	1.2	--	80	4	1.2	1	1.2	0.20	1.2
Chromium III	4,800,000	--	120,000	--	120,000	48 (d)	120,000	2 (d)	120,000
Chromium VI	19	--	240	--	19	--	19	5.0	19
Chromium (Total)	NE	--	--	42	42	48	48	2	48
Cobalt	NE	--	--	20	20	--	20	0.3	20
Copper	1.1	--	3,000	50	1.1	36	36	0.20	36
Lead	1,600	--	250 (b)	50	50	17	50	1.0	50
Manganese	130 (a)	--	11,000	1,100	130	1,200	1,200	0.10	1,200
Mercury	0.026	--	24	0.1	0.026	0.07	0.07	0.020	0.07
Nickel	11	--	1,600	30	11	48	48	0.50	48
Selenium	7.4	--	400	0.3	0.3	--	0.3	0.2 (h)	0.3
Silver	0.32	--	400	2	0.32	--	0.32	0.20	0.32
Thallium	0.67	--	5.6	1	0.67	--	0.67	0.20	0.67
Vanadium	NE	--	560	2	2	--	2	0.20	2
Zinc	100	--	24,000	86	86	85	86	1.0	86
VOCs									
1,1,1-Trichloroethane	3,300	--	72,000	--	3,300	--	3,300	0.001	3,300
1,1,2,2-Tetrachloroethane	0.022	5	--	--	0.022	--	0.022	0.001	0.022
1,1,2-Trichloroethane	0.089	18	320	--	0.089	--	0.089	0.001	0.089
1,1-Dichloroethane	NE	--	16,000	--	16,000	--	16,000	0.001	16,000
1,1-Dichloroethene	0.023	--	4,000	--	0.023	--	0.023	0.001	0.023
1,2-Dichloroethane	0.18	11	1,600	--	0.18	--	0.18	0.001	0.18
1,2-Dichloroethene	NE	--	720	--	720	--	720	0.001	720
1,2-Dichloropropane	0.077	15	--	700	0.077	--	0.077	0.001	0.077
1,3-Dichloropropane (cis-, trans-)	0.11	5.6	2,400	--	0.11	--	0.11	0.001	0.11
2-Butanone (MEK)	NE	--	48,000	--	48,000	--	48,000	0.005	48,000
4-Methyl-2-Pentanone (MIBK)	NE	--	6,400	--	6,400	--	6,400	0.005	6,400
Acetone	NE	--	8,000	--	8,000	--	8,000	0.005	8,000
Benzene	0.13	18	320	--	0.13	--	0.13	0.0014	0.13
Bromodichloromethane	0.089	16	1,600	--	0.089	--	0.089	0.001	0.089
Bromoform	0.92	130	1,600	--	0.92	--	0.92	0.001	0.92
Bromomethane	4.5	--	110	--	4.5	--	4.5	0.001	4.5
Carbon Disulfide	NE	--	8,000	--	8,000	--	8,000	0.001	8,000
Carbon Tetrachloride	0.015	7.7	56	--	0.015	--	0.015	0.001	0.015
Chlorobenzene	14	--	1,600	40	14	--	14	0.001	14
Chloroethane	NE	350	32,000	--	350	--	350	0.001	350
Chloroform	1.5	160	800	--	1.5	--	1.5	0.001	1.5
Chloromethane	0.62 (a)	77	--	--	0.62	--	0.62	0.001	0.62
cis-1,2-Dichloroethene	NE	--	800	--	800	--	800	0.001	800
Dibromochloromethane	0.069	12	1,600	--	0.069	--	0.069	0.001	0.069
Ethylbenzene	18	--	8,000	--	18	--	18	0.025	18
methyl tert-butyl ether (MTBE)	NE	560	69,000	--	560	--	560	0.001	560
Methylene Chloride (Dichloromethane)	2.6	130	4,800	--	2.6	--	2.6	0.002	2.6
Styrene	NE	33	16,000	300	33	--	33	0.001	33
Toluene	110	--	6,400	200	110	--	110	0.025	110
Total Xylenes	9.1	--	16,000	--	9.1	--	9.1	0.075	9.1
Tetrachloroethene (PCE)	0.0041	1.9	800	--	0.0041	--	0.0041	0.001	0.0041
trans-1,2-Dichloroethene	54	--	1,600	--	54	--	54	0.001	54
Trichloroethene (TCE)	0.044	11	24	--	0.044	--	0.044	0.001	0.044
Vinyl Acetate	NE	--	80,000	--	80,000	--	80,000	0.005	80,000
Vinyl chloride	0.015	0.67	240	--	0.015	--	0.015	0.001	0.015
PAHs									
Acenaphthene	65	--	4,800	20	20	--	20	0.0050	20
Anthracene	12,000	--	24,000	--	12,000	--	12,000	0.0050	12,000
Dibenzofuran	NE	--	160	--	160	--	160	0.0050	160
Fluoranthene	89	--	3,200	--	89	--	89	0.0050	89
Fluorene	550	--	3,200	30	30	--	30	0.0050	30
2-Methylnaphthalene	NE	--	320	--	320	--	320	0.0050	320
Naphthalene	140	--	1,600	--	140	--	140	0.0050	140
Pyrene	3,500	--	2,400	--	2,400	--	2,400	0.0050	2,400
Total cPAHs TEC	0.35	0.14	--	12	0.14	--	0.14	0.0038	0.14
SVOCs									
1,2,4-Trichlorobenzene	2.6	--	800	20	2.6	--	2.6	0.020	2.6
1,2-Dichlorobenzene	15	--	7,200	--	15	--	15	0.020	15
1,3-Dichlorobenzene	11 (a)	--	--	--	11	--	11	0.020	11
1,4-Dichlorobenzene	0.080	42	--	20	0.080	--	0.080	0.020	0.080
2,6-Dinitrotoluene	NE	--	80	--	80	--	80	0.100	80
2,4,5-Trichlorophenol	130	--	8,000	4	4	--	4	0.1	4
2,4,6-Trichlorophenol	0.028	91	--	10	0.028	--	0.028	0.00625 (i)	0.028
2,4-Dichlorophenol	1.3	--	240	--	1.3	--	1.3	0.1	1.3
2,4-Dimethylphenol	4.5	--	1,600	--	4.5	--	4.5	0.020	4.5
2,4-Dinitrophenol	14	--	160	20	14	--	14	0.2	14
2,4-Dinitrotoluene	0.020	--	160	--	0.020	--	0.020	0.1	0.1
2-Chloronaphthalene	54 (a)	--	6,400	--	54	--	54	0.020	54
2-Chlorophenol	1.1	--	400	--	1.1	--	1.1	0.020	1.1

Analyte	Soil Concentration Protective of Groundwater as Marine Surface Water (MTCA Fixed Parameter Three-Phase Partitioning Model) mg/kg	Human Health Direct Contact Pathway (MTCA Method B Standard Formula Value for Unrestricted Land Use)		Ecological Indicator Soil Concentration for Protection of Terrestrial Plants and Animals (MTCA Table 749-3) mg/kg	Preliminary Screening Level (Before adjustment for background) mg/kg	Background Concentration (f) mg/kg	Preliminary Screening Level (After adjustment for background) mg/kg	PQL (e) mg/kg	Soil Screening Level (After adjustment for background and PQL) mg/kg
		Carcinogen mg/kg	Non-Carcinogen mg/kg						
2-Methylphenol	NE	--	4,000	--	4,000	--	4,000	0.020	4,000
3,3'-Dichlorobenzidine	0.00052	2.2	--	--	0.00052	--	0.00052	0.1	0.1
4-Chloroaniline	NE	--	320	--	320	--	320	0.100	320
4-Methylphenol	NE	--	400	--	400	--	400	0.020	400
Benzyl alcohol	NE	--	24,000	--	24,000	--	24,000	0.020	24,000
Bis(2-chloro-1-methylethyl) ether	0.21	14	--	--	0.21	--	0.21	0.020	0.21
bis(2-Chloroethoxy)ether	0.0029	0.91	--	--	0.0029	--	0.0029	0.020	0.020
bis(2-Chloroisopropyl) ether	240 (a)	--	3,200	--	240	--	240	0.020	240
bis (2-ethylhexyl) Phthalate	4.9	71	1,600	--	4.9	--	4.9	0.020	4.9
Butylbenzylphthalate	360	--	16,000	--	360	--	360	0.020	360
Carbazole	NE	50	--	--	50	--	50	0.020	50
Diethylphthalate	160	--	64,000	100	100	--	100	0.020	100
Dimethylphthalate	330 (a)	--	80,000	200	200	--	200	0.020	200
Di-n-butylphthalate	100	--	8,000	200	100	--	100	0.020	100
Di-n-octylphthalate	NE	--	1,600	--	1,600	--	1,600	0.020	1,600
Hexachlorobutadiene	19	13	16	--	13	--	13	0.020	13
Hexachlorocyclopentadiene	4400	--	480	10	10	--	10	0.1	10
Hexachloroethane	0.13	71	80	--	0.13	--	0.13	0.020	0.13
Isophorone	3.0	1,100	16,000	--	3.0	--	3.0	0.020	3.0
Nitrobenzene	2.9	--	40	40	2.9	--	2.9	0.020	2.9
N-Nitroso-di-n-propylamine	0.0023	0.14	--	--	0.0023	--	0.0023	0.1	0.1
N-Nitrosodiphenylamine	0.18	200	--	20	0.18	--	0.18	0.020	0.18
Pentachlorophenol	0.048	8.3	2,400	3	0.048	--	0.048	0.00625 (i)	0.048
Phenol	5,000	--	48,000	30	30	--	30	0.020	30
Dioxins/Furans									
Total Dioxins/Furans TEC	2.5E-08 (a)	1.1E-05	--	2.0E-06	2.5E-08	5.2E-06	5.2E-06	5.7E-07	5.2E-06
PCBs									
Total PCBs (sum of Aroclors)	0.00040 (a)	0.5	--	0.65	0.00040	--	0.00040	0.004	0.004
Pesticides									
Aldrin	0.000049	0.059	2.4	0.1	0.000049	--	0.000049	0.0010	0.0010
alpha-BHC	0.00029 (a)	0.16	--	--	0.00029	--	0.00029	0.0010	0.0010
alpha-Chlordane***	0.00080 (a)	2.9	40	1	0.00080	--	0.00080	0.0010	0.0010
beta-BHC	0.00080	0.56	--	--	0.00080	--	0.00080	0.0010	0.0010
4,4'-DDD	0.00029	4.2	--	0.75	0.00029	--	0.00029	0.0020	0.0020
4,4'-DDE	0.00038	2.9	--	0.75	0.00038	--	0.00038	0.0020	0.0020
4,4'-DDT	0.0030	2.9	40	0.75	0.0030	--	0.0030	0.0020	0.0030
Dieldrin	0.000028	0.063	4	0.07	0.000028	--	0.000028	0.0020	0.0020
Endosulfan I**	0.0012 (a)	--	480	--	0.0012	--	0.0012	0.0010	0.0012
Endosulfan II**	0.0012 (a)	--	480	--	0.0012	--	0.0012	0.0020	0.0020
Endosulfan Sulfate**	0.0017 (a)	--	480	--	0.0017	--	0.0017	0.0020	0.0020
Endrin	0.00051	--	24	0.2	0.00051	--	0.00051	0.0020	0.0020
Endrin Aldehyde*	0.00016 (a)	--	24	0.2	0.00016	--	0.00016	0.0020	0.0020
Endrin Ketone*	0.00046 (a)	--	24	0.2	0.00046	--	0.00046	0.0020	0.0020
gamma-BHC (Lindane)	0.0012	0.77	24	6	0.0012	--	0.0012	0.0010	0.0012
gamma-Chlordane***	0.00080 (a)	2.9	40	1	0.00080	--	0.00080	0.0010	0.0010
Heptachlor	0.000015	0.22	40	0.4	0.000015	--	0.000015	0.0010	0.0010
Heptachlor epoxide	0.000065	0.11	1.0	0.4	0.000065	--	0.000065	0.0010	0.0010
Hexachlorobenzene	0.00047	0.63	64	17	0.00047	--	0.00047	0.0010	0.0010
Methoxychlor	0.048	--	400	--	0.048	--	0.048	0.010	0.048
Toxaphene	0.00038	0.91	--	--	0.00038	--	0.00038	0.10	0.10

Notes:

- Screening levels were developed for all constituents analyzed in soil.
- Screening level is based on lowest of soil concentrations protective of groundwater, human health - direct contact (MTCA Method B standard formula values for carcinogens and non-carcinogens), and terrestrial plants and animals, adjusted for background and practical quantification limit (PQL).
- Calculated concentrations protective of groundwater as marine surface water assume unsaturated soil, and are calculated based on groundwater screening levels before adjustment for background and PQLs.

- Shading indicates basis for screening level.

-- = No screening criteria available.

NE = No surface water criterion exists; therefore, soil concentration protective of groundwater as marine surface water is not calculated.

MTCA = Washington State Model Toxics Control Act

PAHs = Polycyclic aromatic hydrocarbons

cPAHs = Carcinogenic polycyclic aromatic hydrocarbons

PCBs = Polychlorinated biphenyls

PQL = Practical quantitation limit

VOCs = Volatile organic compounds

SVOCs = Semivolatile organic compounds

TEC = Toxic equivalent concentration

TPH = Total petroleum hydrocarbons

(a) Values for Kd and/or Koc and/or Henry's Law Constant are not available from CLARC; these values were taken from EPIWIN or ORNL RAIS.

(b) MTCA Method A soil cleanup levels are used for gasoline-range, diesel-range, and heavy oil-range petroleum hydrocarbons, and lead.

(c) Value for gasoline-range petroleum hydrocarbons if benzene is present. If benzene is not present, screening level is 100 mg/kg.

(d) Value is for total chromium.

(e) PQL is lowest available value from Analytical Resources, Inc. (Tukwila, WA) or Frontier Analytical Laboratory (El Dorado Hills, CA).

(f) Metals background values (Puget Sound Region 90th percentile values) are from *Natural Background Soil Metals Concentrations in Washington State* (Ecology Publication #94-115, 1994). Total dioxins/furans

TEC background value provided by Ecology in review comments on the April 1, 2010 Draft Supplemental Upland Data Collection Work Plan.

(g) Regulatory background (MTCA Method A) value.

(h) PQL for EPA Method 7740.

(i) PQL for EPA Method 8041.

* Endrin values used for endrin aldehyde and endrin ketone.

** Endosulfan values used for endosulfan I, endosulfan II, and endosulfan sulfate.

*** Chlordane values used for alpha- and gamma-chlordane.

**TABLE 2
GROUNDWATER SCREENING LEVELS
PORT ANGELES RAYONIER MILL SITE
PORT ANGELES, WASHINGTON**

Analyte	Concentration Protective of Marine Surface Water												Preliminary Screening Level µg/L	PQL (g) µg/L	Groundwater Screening Level (After adjustment for PQL) µg/L		
	AWQC for Protection of Aquatic Life (a)			National Toxics Rule (b)			National Recommended Water Quality Criteria (c)			MTCB Method B Standard Formula Value - Protection of Human Health (Consumption of Aquatic Life)							
	Acute µg/L	Chronic µg/L	AWQC for Protection of Aquatic Life µg/L	AWQC for Protection of Human Health µg/L	Protection of Aquatic Life - Acute µg/L	Protection of Aquatic Life - Chronic µg/L	Protection of Human Health µg/L	Protection of Aquatic Life - Acute µg/L	Protection of Aquatic Life - Chronic µg/L	Protection of Human Health µg/L	Carcinogen µg/L	Non-Carcinogen µg/L					
																Acute µg/L	Chronic µg/L
TPH																	
Gasoline-Range Petroleum Hydrocarbons																	
Diesel-Range Petroleum Hydrocarbons																	
Heavy Oil-Range Petroleum Hydrocarbons																	
Metals																	
Antimony																	
Arsenic	69	36	69	36	0.14	69	36	0.14	640								
Beryllium																	
Cadmium	42	9.3	42	9.3		40	8.8										
Chromium III																	
Chromium VI	1,100	50	1,100	50		1,100	50										
Copper	4.8	3.1	2.4	2.4		4.8	3.1										
Lead	210	8.1	210	8.1		210	8.1										
Manganese																	
Mercury	1.8	0.025	2.1	0.025		1.8	0.94										
Nickel	74	8.2	74	8.2		4,600	74	8.2	4,600	4,600	4,600						
Phosphorus																	
Selenium	290	71	290	71		290	71		4,200								
Silver	1.9		1.9			1.9											
Thallium									0.47								
Zinc	90	81	90	81		90	81		26,000								
VOCs																	
1,1-Dichloroethene									3.2								
1,1,1-Trichloroethane																	
1,1,2-Trichloroethane									42								
1,1,1,2-Tetrachloroethane									11								
1,2-Dichloroethane									99								
1,2-Dichloropropane																	
1,3-Dichloropropane (cis-, trans-)									1,700								
Acrolein									780								
Acrylonitrile									0.66								
Benzene									71								
Bromodichloromethane									22								
Bromoform									360								
Bromomethane									4,000								
Carbon Tetrachloride									4.4								
Chlorobenzene									21,000								

Analyte	Concentration Protective of Marine Surface Water										Preliminary Screening Level µg/L	PQL (µ) µg/L	Groundwater Screening Level (After adjustment for PQL) µg/L
	AWQC for Protection of Aquatic Life (a)		National Toxics Rule (b)			National Recommended Water Quality Criteria (c)			MTCA Method B Standard Formula Value - Protection of Human Health (Consumption of Aquatic Life)				
	Acute µg/L	Chronic µg/L	AWQC for Protection of Aquatic Life		Protection of Human Health µg/L	Protection of Aquatic Life - Acute µg/L	Protection of Aquatic Life - Chronic µg/L	Protection of Human Health µg/L	Carcinogen µg/L	Non-Carcinogen µg/L			
			Acute µg/L	Chronic µg/L									
Chloroform	--	--	--	470	--	--	470	280	6,900	--	280	0.2	280
Chloromethane	--	--	--	--	--	--	130	130	--	--	130	0.5	130
Dibromochloromethane	--	--	--	34	--	--	13	21	14,000	--	13	0.2	13
Ethylbenzene	--	--	--	28,000	--	--	2,100	--	6,900	--	2,100	0.42	2,100
Methylene Chloride (Dichloromethane)	--	--	--	1,600	--	--	590	960	170,000	--	590	0.5	590
Toluene	--	--	--	200,000	--	--	15,000	--	19,000	--	15,000	0.48	15,000
Total Xylenes	--	--	--	--	--	--	--	--	1,000 (dlf)	--	1,000	0.78	1,000
Tetrachloroethene (PCE)	--	--	--	8.9	--	--	3.3	0.39	840	--	0.39	0.20	0.39
trans-1,2-Dichloroethene	--	--	--	--	--	--	10,000	--	33,000	--	10,000	0.20	10,000
Trichloroethene (TCE)	--	--	--	81	--	--	30	6.7	71	--	6.7	0.20	6.7
Vinyl chloride	--	--	--	530	--	--	2.4	3.7	6600	--	2.4	0.20	2.4
PAHs													
Acenaphthene	--	--	--	--	--	--	980	--	640	--	640	1.0	640
Anthracene	--	--	--	110,000	--	--	40,000	--	26,000	--	26,000	1.0	26,000
Fluoranthene	--	--	--	370	--	--	140	--	90	--	90	1.0	90
Fluorene	--	--	--	14,000	--	--	5,300	--	3,500	--	3,500	1.0	3,500
Naphthalene	--	--	--	--	--	--	--	--	4,900	--	4,900	1.0	4,900
Pyrene	--	--	--	11,000	--	--	4,000	--	2,600	--	2,600	1.0	2,600
Total cPAHs TEC	--	--	--	0.031	--	--	0.018	0.030	--	--	0.018	0.0076	0.018
SVOCs													
1,2,4-Trichlorobenzene	--	--	--	--	--	--	70	--	230	--	70	1.0	70
1,2-Dichlorobenzene	--	--	--	17,000	--	--	1,300	--	4,200	--	1,300	1.0	1,300
1,3-Dichlorobenzene	--	--	--	2,600	--	--	960	--	960	--	960	1.0	960
1,4-Dichlorobenzene	--	--	--	2,600	--	--	190	4.9	--	--	4.9	1.0	4.9
2-Chloronaphthalene	--	--	--	--	--	--	1,600	--	1,000	--	1,000	1.0	1,000
2-Chlorophenol	--	--	--	--	--	--	--	--	97	--	97	1.0	97
2,4-Dichlorophenol	--	--	--	790	--	--	290	--	190	--	190	5.0	190
2,4-Dimethylphenol	--	--	--	--	--	--	850	--	550	--	550	1.0	550
2,4-Dinitrophenol	--	--	--	14,000	--	--	5,300	--	3,500	--	3,500	10.0	3,500
2,4-Dinitrotoluene	--	--	--	9.1	--	--	3.4	--	1,400	--	3.4	5.0	5.0
2,4,5-Trichlorophenol	--	--	--	--	--	--	3,600	--	--	--	3,600	5.0	3,600
2,4,6-Trichlorophenol	--	--	--	6.5	--	--	2.4	3.9	--	--	2.4	0.25 (H)	2.4
3,3'-Dichlorobenzidine	--	--	--	0.077	--	--	0.028	0.046	--	--	0.028	5.0000	5.0
bis(2-Chloroethyl)ether	--	--	--	1.4	--	--	0.53	0.85	--	--	0.53	1.0	1.0
Bis(2-chloro-1-methylethyl) ether	--	--	--	--	--	--	--	37	--	--	37	1.0	37
bis(2-Chloroisopropyl) ether	--	--	--	--	--	--	170,000	--	42,000	--	42,000	1.0	42,000
Bis(2-ethylhexyl) Phthalate	--	--	--	5.9	--	--	2.2	3.6	400	--	2.2	1.0	2.2
Butylbenzylphthalate	--	--	--	--	--	--	1,900	--	1,300	--	1,300	1.0	1,300
Diethylphthalate	--	--	--	120,000	--	--	44,000	--	28,000	--	28,000	1.0	28,000
Di-n-butylphthalate	--	--	--	12,000	--	--	4,500	--	2,900	--	2,900	1.0	2,900

Analyte	Concentration Protective of Marine Surface Water														Preliminary Screening Level µg/L	PQL (µ) µg/L	Groundwater Screening Level (After adjustment for PQL) µg/L
	AWQC for Protection of Aquatic Life (a)		National Toxics Rule (b)				National Recommended Water Quality Criteria (c)				MTC Method B Standard Formula Value - Protection of Human Health (Consumption of Aquatic Life)						
	Acute µg/L	Chronic µg/L	AWQC for Protection of Aquatic Life		Protection of Aquatic Life - Life -		Protection of Human Health		Carcinogen		Non-Carcinogen						
			Acute µg/L	Chronic µg/L	Acute µg/L	Chronic µg/L	µg/L	µg/L	µg/L	µg/L							
Hexachloroethane	13	7.9	13	7.9	8.2	13	7.9	3.0	3.0	5.3	3.0	3.0	3.0	0.25 (h)	1.0	3.0	
Pentachlorophenol	...	...	...	...	4,600,000	...	...	1,700,000	...	...	1,100,000	...	...	1,100,000	1.0	1,100,000
Phenol	...	...	...	...	2,900,000	...	...	110,000	...	...	72,000	...	...	72,000	1.0	72,000
Dimethylphthalate	...	...	...	...	50	...	...	18	...	...	190	...	...	18	1.0	18
Hexachlorobutadiene	...	...	...	...	17,000	...	...	1,100	...	...	3,600	...	...	1,100	5.0	1,100
Hexachlorocyclopentadiene	...	...	...	...	600	...	...	960	...	...	120,000	...	...	600	1.0	600
Isophorone	...	...	...	...	1,900	...	...	690	...	...	450	...	...	450	1.0	450
Nitrobenzene	...	...	...	...	16	...	...	6	...	...	9.7	...	...	6	1.0	6
N-Nitroso-di-n-propylamine	...	...	...	...	...	...	...	0.51	...	...	0.52	...	...	0.51	5.0	5.0
N-Nitrosodiphenylamine	...	...	...	...	...	...	...	6	...	...	9.7	...	...	6	1.0	6
Dioxins/Furans																	
Total Dioxins/Furans TEC	...	...	...	...	1.4E-08	...	...	5.1E-09	...	...	...	...	...	5.1E-09	5.7E-06	5.7E-06
PCBs																	
Total PCBs (sum of Aroclors)	10	0.030	...	...	0.030	0.00017	...	0.030	0.000064	0.00011	...	...	...	0.000064	0.01	0.01
Pesticides																	
Aldrin	0.71	0.0019	1.3	...	0.00014	1.3	...	0.00050	0.00008	0.00008	0.017	...	...	0.00050	0.00083	0.00083
alpha-BHC	...	...	...	...	0.013	...	...	0.0049	0.0013	0.0013	...	...	...	0.0049	0.00083	0.00083
alpha-Chlordane**	0.090	0.0040	0.090	0.0040	0.00059	0.090	0.0040	0.0059	0.0079	0.0079	0.092	...	...	0.00059	0.00083	0.00083
4,4'-DDD	0.13	0.00100	...	...	0.00084	...	...	0.00031	0.00050	0.00050	...	...	...	0.00031	0.0017	0.0017
4,4'-DDE	0.13	0.0010	...	...	0.00059	...	...	0.00022	0.00036	0.00036	...	...	...	0.00022	0.0017	0.0017
4,4'-DDT	0.13	0.0010	0.13	0.0010	0.00059	0.13	0.0010	0.0022	0.00036	0.00036	0.024	...	...	0.00022	0.0017	0.0017
beta-BHC	...	...	...	...	0.046	...	...	0.017	0.028	0.028	...	...	...	0.017	0.00083	0.00083
delta-BHC	...	...	...	...	...	...	...	0.041	...	...	...	...	...	0.041	0.00083	0.00083
Dieldrin	0.71	0.0019	0.71	0.0019	0.00014	0.71	0.0019	0.00054	0.000087	0.000087	0.028	...	...	0.00054	0.0017	0.0017
Endosulfan I**	0.034	0.0087	0.034	0.0087	...	...	...	...	...	...	58	...	...	0.0087	0.00083	0.00083
Endosulfan II**	0.034	0.0087	0.034	0.0087	...	...	...	...	...	...	58	...	...	0.0087	0.00083	0.00083
Endosulfan Sulfate**	0.034	0.0087	0.034	0.0087	...	...	...	...	...	...	58	...	...	0.0087	0.0017	0.0087
Endrin	0.037	0.0023	0.037	0.0023	0.8100	0.037	0.0023	0.060	0.060	0.060	0.1959	...	...	0.0023	0.0017	0.0023
Endrin Aldehyde*	0.037	0.0023	0.037	0.0023	0.8100	0.037	0.0023	0.060	0.060	0.060	0.1959	...	...	0.0023	0.0017	0.0023
Endrin Ketone*	0.037	0.0023	0.037	0.0023	0.8100	0.037	0.0023	0.060	0.060	0.060	0.1959	...	...	0.0023	0.0017	0.0023
gamma-BHC (Lindane)	0.16	...	0.16	...	0.063	0.16	0.063	1.8	0.038	0.038	6	...	...	0.038	0.00083	0.00083
gamma-Chlordane***	0.090	0.0040	0.090	0.0040	0.00059	0.090	0.0040	0.0081	0.0013	0.0013	0.092	...	...	0.00059	0.00083	0.00083
Heptachlor	0.053	0.0036	0.053	0.0036	0.00021	0.053	0.0036	0.00079	0.00013	0.00013	0.12	...	...	0.00079	0.00083	0.00083
Heptachlor epoxide	...	...	...	...	0.00011	0.053	0.0036	0.00039	0.00064	0.00064	0.030	...	...	0.00039	0.00083	0.00083



Analyte	Concentration Protective of Marine Surface Water										Preliminary Screening Level µg/L	PQL (g) µg/L	Groundwater Screening Level (After adjustment for PQL) µg/L
	AWQC for Aquatic Life (a)		National Toxics Rule (b)			National Recommended Water Quality Criteria (c)			MTCA Method B Standard Formula Value - Protection of Human Health (Consumption of Aquatic Life)				
	Acute µg/L	Chronic µg/L	Acute µg/L	Chronic µg/L	Human Health µg/L	Protection of Aquatic Life - Acute µg/L	Protection of Aquatic Life - Chronic µg/L	Protection of Human Health µg/L	Carcinogen µg/L	Non-Carcinogen µg/L			
Hexachlorobenzene	0.21	0.00020	0.21	0.00020	0.00075	0.21	0.00020	0.00028	0.00047	0.24	0.00083	0.00083	
Methoxychlor					0.00077		0.03			8.4	0.03	0.03	
Toxaphene								0.00020	0.00045		0.083	0.083	
Conventionals													
Ammonia	230	35	--	--	--	--	--	--	--	--	35	10	35

Notes:

- Screening levels were developed for all constituents analyzed in groundwater.
- Screening level is based on lowest of Federal and State marine surface water concentrations protective of aquatic life and human health - consumption of aquatic life (including MTCA Method B standard formula values for carcinogens and non-carcinogens), adjusted for practical quantification limit (PQL).
- Shading indicates basis for screening level.
- = No screening criteria available.
- µg/L = Micrograms per liter
- MTCA = Washington State Model Toxics Control Act
- PAHs = Polycyclic aromatic hydrocarbons
- cPAHs = Carcinogenic polycyclic aromatic hydrocarbons
- PCBs = Polychlorinated biphenyls
- PQL = Practical quantification limit
- VOCs = Volatile organic compounds
- SVOCs = Semivolatile organic compounds
- TEC = Toxic equivalent concentration
- TPH = Total petroleum hydrocarbons
- (a) Ambient water quality criteria (AWQC) for protection of aquatic life from WAC 173-201A-240.
- (b) Ambient water quality criteria (AWQC) for protection of human health from 40 CFR Part 131.d (National Toxics Rule).
- (c) National Recommended Water Quality Criteria (EPA 2006).
- (d) MTCA Method A groundwater cleanup levels are used for gasoline range, diesel range, and heavy oil range petroleum hydrocarbons, and total xylenes and lead.
- (e) Value for gasoline-range petroleum hydrocarbons if benzene is present. If benzene is not present, screening level is 1,000 µg/L.
- (f) PQL for total chromium.
- (g) PQL is lowest available value from Analytical Resources, Inc. (Tukwila, WA) or Frontier Analytical Laboratory (El Dorado Hills, CA).
- (h) PQL for EPA Method 8041.
- * Endrin values used for endrin aldehyde and endrin ketone.
- ** Endosulfan values used for endosulfan I, endosulfan II, and endosulfan sulfate.
- *** Chlordane values used for alpha- and gamma-chlordane.

APPENDIX B
BORING AND WELL CONSTRUCTION LOGS

BASELINE SUBSURFACE ENVIRONMENTAL ASSESSMENT
Portion of Rayonier Mill Property
700 North Ennis Street
Port Angeles, Washington

Farallon PN: 1005-001

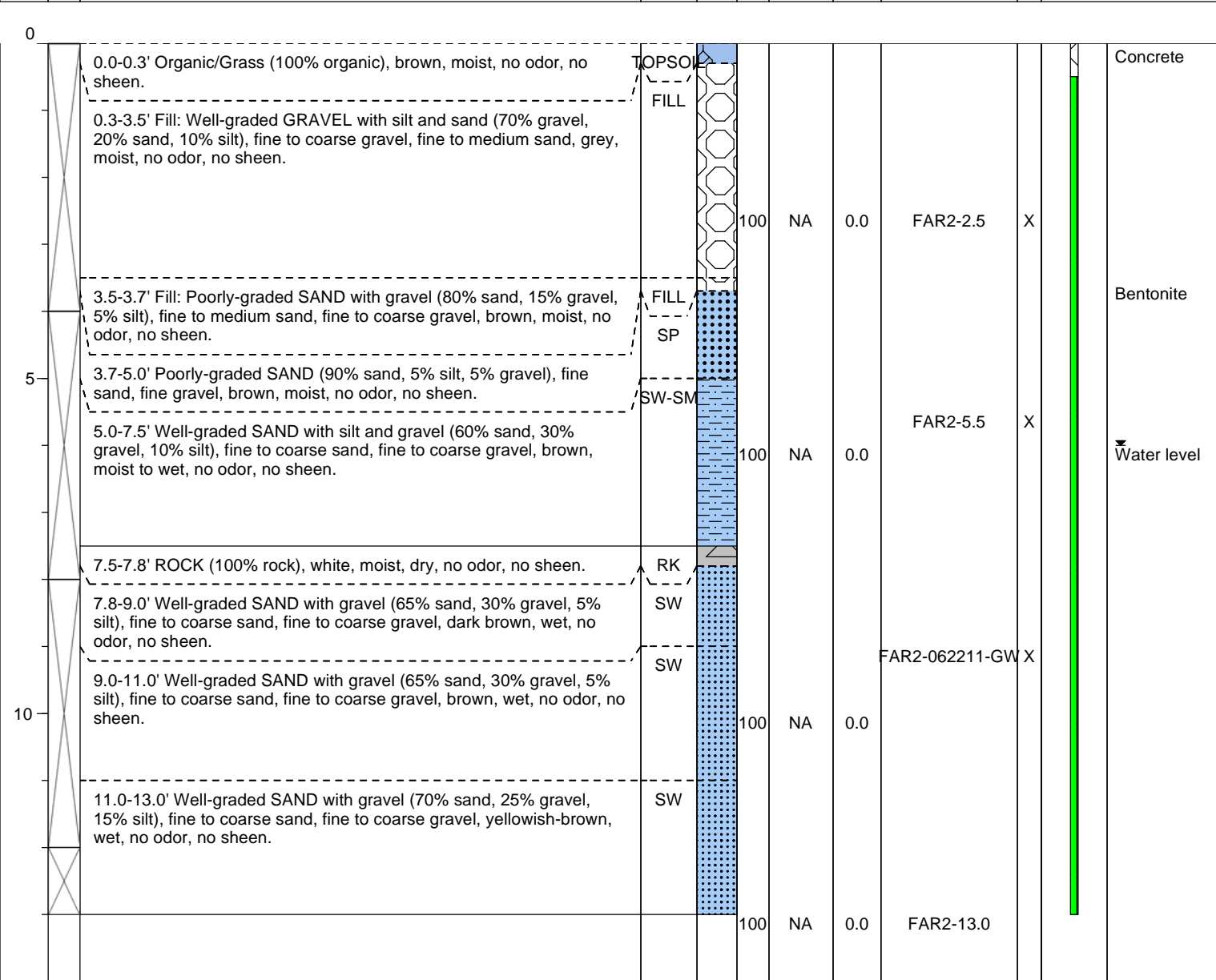
Client: City of Port Angeles	Date/Time Started: 6/22/11 @ 7:10	Sampler Type: 4' macrocore
Project: Former Rayonier Mill	Date/Time Completed: 6/22/11 @ 8:30	Drive Hammer (lbs.): Auto
Location: Port Angeles, WA	Equipment: Powerprobe 9630	Depth of Water ATD (ft bgs): 11.0'
Farallon PN: 1005-001	Drilling Company: ESN Drilling	Total Boring Depth (ft bgs): 16.0'
Logged By: Ken Scott	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): NA
	Drilling Method: Geoprobe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0.0-0.3'		Organic/Grass (100% organic), brown, moist, no odor, no sheen.	TOPSOIL							
0.3-3.5'		Fill: Silty SAND with gravel (65% sand, 25% gravel, 15% silt), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen.	FILL			80	NA	0.0	FAR1-2.5	
3.5-4.5'		SILT (90% silt, 10% sand), fine sand, brown, moist, no odor, no sheen.	ML							Bentonite
4.5-6.5'		Poorly graded SAND with silt (80% sand, 10% silt, 10% gravel), fine to medium sand, fine gravel, brown, moist, no odor, no sheen. Observed ash-layer between 6.0 to 6.2-feet bgs.	SP-SM			70	NA	0.0	FAR1-6.0	X
6.5-8.0'		SILT (100% silt), yellowish-orange, moist, no odor, no sheen.	ML							
8.0-10.2'		Poorly graded SAND with silt (80% sand, 10% silt, 10% gravel), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen.	SP-SM							
10.2-10.8'		SILT (100% silt), yellowish-orange, moist, no odor, no sheen.	ML			100	NA	0.0	FAR1-10.0	X
10.8-12.5'		Well-graded GRAVEL with sand (70% gravel, 20% sand, 5% silt), fine to coarse gravel, fine to medium sand, reddish-brown, moist to wet, no odor, no sheen.	GW						FAR1-062211-GW	X
12.5-13.0'		Silty SAND with gravel (60% sand, 25% gravel, 15% silt), fine sand, fine to coarse gravel, dark grey, wet, no odor, no sheen.	SM							
13.0-16.0'		SILT with sand (80% silt, 20% sand), fine to medium sand, yellowish-orange, wet, no odor, no sheen.	ML			100	NA	0.0		
									FAR1-16.0	

Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	
Casing Diameter (inches): NA	Surface Seal: NA	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Annular Seal: NA	Boring Abandonment: Bentonite	
Screened Interval (ft bgs): 10-15'		Surveyed Location: X: NA Y: NA	

Client: City of Port Angeles	Date/Time Started: 6/22/11 @ 8:40	Sampler Type: 4' macrocore
Project: Former Rayonier Mill	Date/Time Completed: 6/22/11 @ 9:45	Drive Hammer (lbs.): Auto
Location: Port Angeles, WA	Equipment: Powerprobe 9630	Depth of Water ATD (ft bgs): 6.0'
Farallon PN: 1005-001	Drilling Company: ESN Drilling	Total Boring Depth (ft bgs): 13.0'
Logged By: Ken Scott	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): NA
	Drilling Method: Geoprobe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	
Casing Diameter (inches): NA	Surface Seal: NA	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Annular Seal: NA	Boring Abandonment: Bentonite	
Screened Interval (ft bgs): 7-12'		Surveyed Location: X: NA Y: NA	

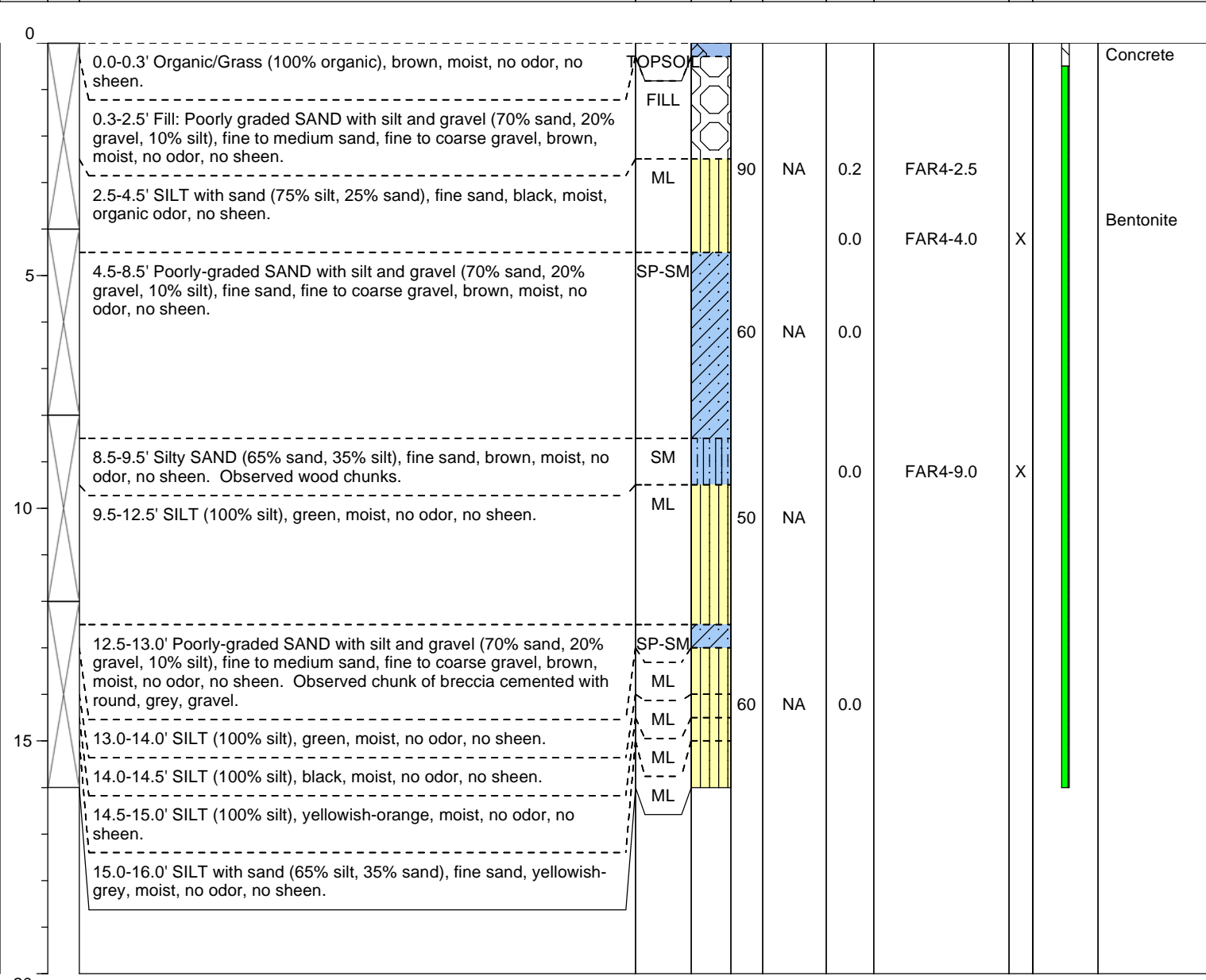
Client: City of Port Angeles	Date/Time Started: 6/22/11 @ 10:00	Sampler Type: 4' macrocore
Project: Former Rayonier Mill	Date/Time Completed: 6/22/11 @ 11:45	Drive Hammer (lbs.): Auto
Location: Port Angeles, WA	Equipment: Powerprobe 9630	Depth of Water ATD (ft bgs): 13.0'
Farallon PN: 1005-001	Drilling Company: ESN Drilling	Total Boring Depth (ft bgs): 18.0'
Logged By: Ken Scott	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): NA
	Drilling Method: Geoprobe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0.0-0.2'		Asphalt (100% asphalt), black.	AC							Concrete
0.2-1.0'		Fill: Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine to coarse gravel, fine to medium sand, grey, moist, no odor, no sheen.	FILL							
1.0-6.0'		Fill: Silty SAND with gravel (60% sand, 20% gravel, 20% silt), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen.	FILL					FAR3-2.5		Bentonite
6.0-9.0'		SILT (95% silt, 5% sand), fine sand, greenish-brown, moist, no odor, no sheen. Observed charcoal at 8-feet bgs.	ML		100	NA	0.0	FAR3-6.0		
9.0-10.5'		Poorly-graded SAND with gravel (80% sand, 15% gravel, 5% silt), fine to medium sand, fine to coarse gravel, grey, moist, no odor, no sheen.	SP		100	NA	0.0	FAR3-9.0		
10.5-15.0'		SILT (95% silt, 5% sand), fine sand, greenish-brown, moist to wet, no odor, no sheen. Observed piece of plastic and shell.	ML					FAR3-12.5	X	Water Level
15.0-15.5'		Well-graded GRAVEL with sand (65% gravel, 30% sand, 5% silt), fine to coarse gravel, fine to medium sand, grey, wet, no odor, no sheen.	GW					FAR3-062211-GW	X	
15.5-16.0'		Well-graded SAND with silt and gravel (70% sand, 20% gravel, 10% silt), fine to coarse sand, fine to coarse gravel, brown, wet, no odor, no sheen.	SW-SM		100	NA	0.0	FAR3-18.0		
16.0-17.0'		SILT (100% silt), fine sand, brown, wet, no odor, no sheen.	ML							
17.0-18.0'		Well-graded SAND with silt and gravel (70% sand, 20% gravel, 10% silt), fine to coarse sand, fine to coarse gravel, brown, wet, no odor, no sheen.	SW-SM							

Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	
Casing Diameter (inches): NA	Surface Seal: NA	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Annular Seal: NA	Boring Abandonment: Bentonite	
Screened Interval (ft bgs): 12-17		Surveyed Location: X: NA Y: NA	

Client: City of Port Angeles	Date/Time Started: 6/22/11 @ 12:08	Sampler Type: 4' macrocore
Project: Former Rayonier Mill	Date/Time Completed: 6/22/11 @ 13:35	Drive Hammer (lbs.): Auto
Location: Port Angeles, WA	Equipment: Powerprobe 9630	Depth of Water ATD (ft bgs): NA
Farallon PN: 1005-001	Drilling Company: ESN Drilling	Total Boring Depth (ft bgs): 16.0'
Logged By: Ken Scott	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): NA
	Drilling Method: Geoprobe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	
Casing Diameter (inches): NA	Surface Seal: NA	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Annular Seal: NA	Boring Abandonment: Bentonite	
Screened Interval (ft bgs): NA		Surveyed Location: X: NA Y: NA	

Client: City of Port Angeles Project: Former Rayonier Mill Location: Port Angeles, WA	Date/Time Started: 6/21/11 @ 12:10 Date/Time Completed: 6/21/11 @ 13:10 Equipment: Powerprobe 9630 Drilling Company: ESN Drilling	Sampler Type: 4' macrocore Drive Hammer (lbs.): Auto Depth of Water ATD (ft bgs): NA Total Boring Depth (ft bgs): 15.0'
	Farallon PN: 1005-001 Drilling Foreman: Noel Knopf Drilling Method: Geoprobe	Total Well Depth (ft bgs): NA
	Logged By: Ken Scott	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0	0.0-0.3'	Organic/Grass (100% organic), brown, moist, no odor, no sheen.	TOPSOIL							Concrete
	0.3-6.5'	Fill: Poorly-graded SAND with silt and gravel (70% sand, 20% gravel, 10% silt), fine to medium sand, fine to coarse gravel, tan, wet, no odor, no sheen. Observed red brick at 3.5-feet bgs.	FILL		70	NA	0.2	FAR7-2.5	X	Bentonite
	6.5-6.8'	Rock (100% rock), grey, granite, dry, no odor, no sheen.	RK		90	NA	0.0	FAR7-6.0		
	6.8-8.3'	Silty SAND with gravel (65% sand, 20% silt, 15% gravel), fine to medium sand, fine to coarse gravel, black, moist, no odor, no sheen.	SM							
	8.3-8.8'	SILT with clay (80% silt, 20% clay), black, moist, no odor, no sheen.	ML							
	8.8-12.0'	SILT (100% silt), yellowish-orange, moist, no odor, no sheen.	ML		90	NA	0.0	FAR7-10.0		
	12.0-13.5'	Poorly-graded SAND with gravel (80% sand, 15% gravel, 5% silt), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen.	SP							
	13.5-15.0'	SILT (100% silt), yellowish-orange, moist, no odor, no sheen.	ML		95	NA	0.0	FAR7-15.0		

Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	
Casing Diameter (inches): NA	Surface Seal: NA	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Annular Seal: NA	Boring Abandonment: Bentonite	
Screened Interval (ft bgs): NA		Surveyed Location: X: NA Y: NA	

Client: City of Port Angeles	Date/Time Started: 6/22/11 @ 13:50	Sampler Type: 4' macrocore
Project: Former Rayonier Mill	Date/Time Completed: 6/22/11 @ 15:15	Drive Hammer (lbs.): Auto
Location: Port Angeles, WA	Equipment: Powerprobe 9630	Depth of Water ATD (ft bgs): NA
Farallon PN: 1005-001	Drilling Company: ESN Drilling	Total Boring Depth (ft bgs): 15.0'
Logged By: Ken Scott	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): NA
	Drilling Method: Geoprobe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0.0-0.2'		Concrete (100% concrete), aggregate, grey, dry, no odor.	CO							Concrete
0.2-0.8'		Fill: Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine to coarse gravel, fine to medium sand, grey, moist, no odor, no sheen.	FILL							
0.8-1.5'		SILT (90% silt, 10% sand), fine sand, black, moist, organic (natural) odor, no sheen.	ML							
1.5-6.0'		Well-graded GRAVEL with silt and sand (75% gravel, 15% sand, 10% silt), fine to coarse gravel, fine to coarse sand, grey, moist, no odor, no sheen. Observed angled colluvial landslide-like gradation.	GW-GM		90	NA	0.0	FAR8-2.5		
6.0-7.5'		Poorly-graded SAND (90% sand, 5% gravel 5% silt), fine to medium sand, fine to coarse gravel, grey, moist, no odor, no sheen.	SP		90	NA	0.0	FAR8-5.0	X	Bentonite
7.5-8.5'		Well-graded GRAVEL with silt and sand (70% gravel, 15% sand, 10% silt), fine to coarse gravel, fine to medium sand, grey, moist, no odor, no sheen. Observed angled colluvial landslide-like gradation.	GW-GM							
8.5-10.5'		Well-graded SAND with gravel (80% sand, 15% gravel 5% silt), fine to coarse sand, fine to coarse gravel, grey, moist, no odor, no sheen.	SW		90	NA	0.0	FAR8-11.0	X	
10.5-11.0'		SILT (100% silt), black, moist, organic (natural) odor, no sheen.	ML							
11.0-13.5'		Well-graded SAND with gravel (80% sand, 15% gravel 5% silt), fine to coarse sand, fine to coarse gravel, grey, moist to slight wet, no odor, no sheen. Observed angled colluvial landslide-like gradation (multiple landslide events). Note: boring next to steep slope.	SW							
13.5-14.0'		Poorly-graded SAND (90% sand, 5% gravel 5% silt), fine to medium sand, fine to coarse gravel, grey, moist, no odor, no sheen.	SP		80	NA	0.0			
14.0-15.0'		SILT with sand (80% silt, 20% sand), fine sand, black, moist, organic (natural) odor, no sheen.	ML							

Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	
Casing Diameter (inches): NA	Surface Seal: NA	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Annular Seal: NA	Boring Abandonment: Bentonite	
Screened Interval (ft bgs): NA		Surveyed Location: X: NA Y: NA	

Client: City of Port Angeles	Date/Time Started: 6/21/11 @ 10:40	Sampler Type: 4' macrocore
Project: Former Rayonier Mill	Date/Time Completed: 6/21/11 @ 11:35	Drive Hammer (lbs.): Auto
Location: Port Angeles, WA	Equipment: Powerprobe 9630	Depth of Water ATD (ft bgs): NA
Farallon PN: 1005-001	Drilling Company: ESN Drilling	Total Boring Depth (ft bgs): 15.0'
Logged By: Ken Scott	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): NA
	Drilling Method: Geoprobe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0	0.0-0.3'	Organic/Grass (100% organic), brown, moist, no odor, no sheen.	TOPSOIL							Concrete
	0.3-1.2'	SILT (90% silt, 10% sand), fine sand, tan, dry, no odor, no sheen.	ML							
	1.2-3.5'	Silty SAND (70% sand, 30% silt), fine to medium sand, black, moist, no odor, no sheen.	SM		100	NA	0.0	FAR9-2.5	X	
	3.5-3.8'	Poorly graded SAND (95% sand, 5% silt), fine to medium sand, pinkish-grey, dry, no odor, no sheen.	SP							Bentonite
	3.8-6.0'	Sandy SILT (60% silt, 30% sand, 10% gravel), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen.	ML							
	6.0-7.0'	SILT (95% silt, 5% sand), fine sand, black, moist, no odor, no sheen.	ML		100	NA	0.0	FAR9-6.0		
	7.0-8.0'	SILT (100% silt), greenish-grey, moist, no odor, no sheen.	ML							
	8.0-9.5'	SILT (90% silt, 10% sand), fine sand, black, moist, no odor, no sheen.	ML							
	9.5-14.0'	SILT (100% silt), yellowish-orange, moist, no odor, no sheen.	ML		100	NA	0.0	FAR9-10.0		
	14.0-14.7'	Silty SAND (65% sand, 30% silt, 5% gravel), fine to medium sand, fine gravel, black, moist, no odor, no sheen.	SM		50	NA	0.0			
	14.7-15.0'	SILT (100% silt), yellowish-orange, moist, no odor, no sheen.	ML					FAR9-15.0		

Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	
Casing Diameter (inches): NA	Surface Seal: NA	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Annular Seal: NA	Boring Abandonment: Bentonite	
Screened Interval (ft bgs): NA		Surveyed Location: X: NA Y: NA	

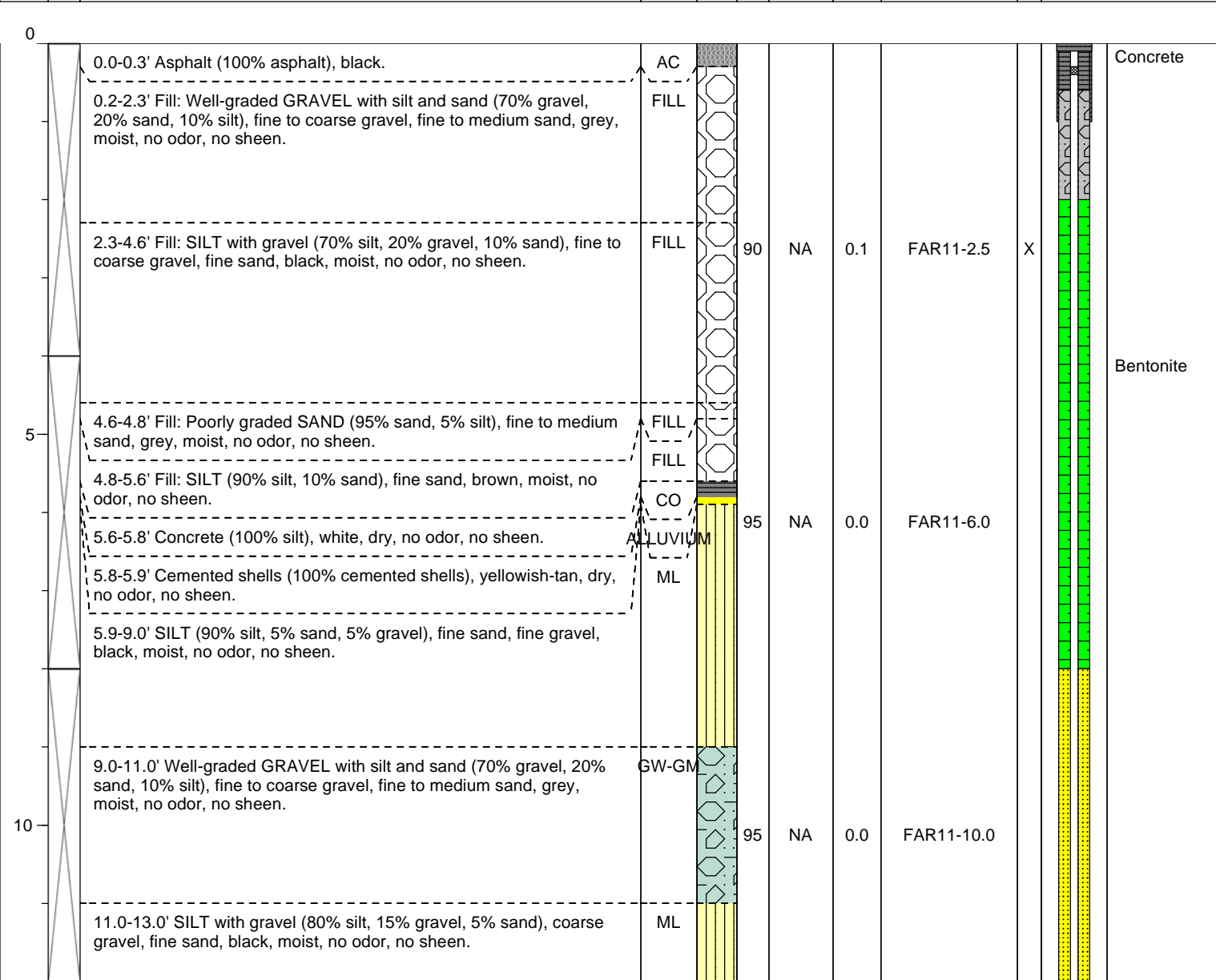
Client: City of Port Angeles	Date/Time Started: 6/21/11 @ 9:30	Sampler Type: 4' macrocore
Project: Former Rayonier Mill	Date/Time Completed: 6/21/11 @ 10:20	Drive Hammer (lbs.): Auto
Location: Port Angeles, WA	Equipment: Powerprobe 9630	Depth of Water ATD (ft bgs): NA
Farallon PN: 1005-001	Drilling Company: ESN Drilling	Total Boring Depth (ft bgs): 15.0'
Logged By: Ken Scott	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): NA
	Drilling Method: Geoprobe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0.0-0.2'		Asphalt (100% asphalt), black.	AC							Concrete
0.2-1.4'		Fill: Well-graded GRAVEL with sand (70% gravel, 25% sand, 5% silt), fine to coarse gravel, fine to medium sand, grey, moist, no odor, no sheen.	FILL							
1.4-1.7'		SILT (100% silt), black, moist, slight odor, no sheen.	ML							
1.7-4.5'		Poorly-graded SAND with silt and gravel (65% sand, 25% gravel, 10% silt), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen.	SP-SM		95	NA	0.0	FAR10-2.5	X	Bentonite
4.5-5.7'		SILT (100% silt), black, moist, no odor, no sheen.	ML							
5.7-10.0'		SILT (100% silt), yellowish-orange, moist, no odor, no sheen.	ML		100	NA	0.0	FAR10-6.0		
10.0-13.0'		SILT with sand (70% silt, 10% sand, 5% gravel), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen.	ML		70	NA	0.0	FAR10-10.0		
13.0-15.0'		SILT (100% silt), yellowish-orange, moist, no odor, no sheen.	ML		90	NA	0.0			
								FAR10-15.0	X	

Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	
Casing Diameter (inches): NA	Surface Seal: NA	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Annular Seal: NA	Boring Abandonment: Bentonite	
Screened Interval (ft bgs): NA		Surveyed Location: X: NA Y: NA	

Client: City of Port Angeles	Date/Time Started: 6/23/11 @ 13:05	Sampler Type: 4' macrocore
Project: Former Rayonier Mill	Date/Time Completed: 6/23/11 @ 14:10	Drive Hammer (lbs.): Auto
Location: Port Angeles, WA	Equipment: Powerprobe 9630	Depth of Water ATD (ft bgs): 15.0'
Farallon PN: 1005-001	Drilling Company: ESN Drilling	Total Boring Depth (ft bgs): 22.0'
Logged By: Ken Scott	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): 22.0
	Drilling Method: Geoprobe	

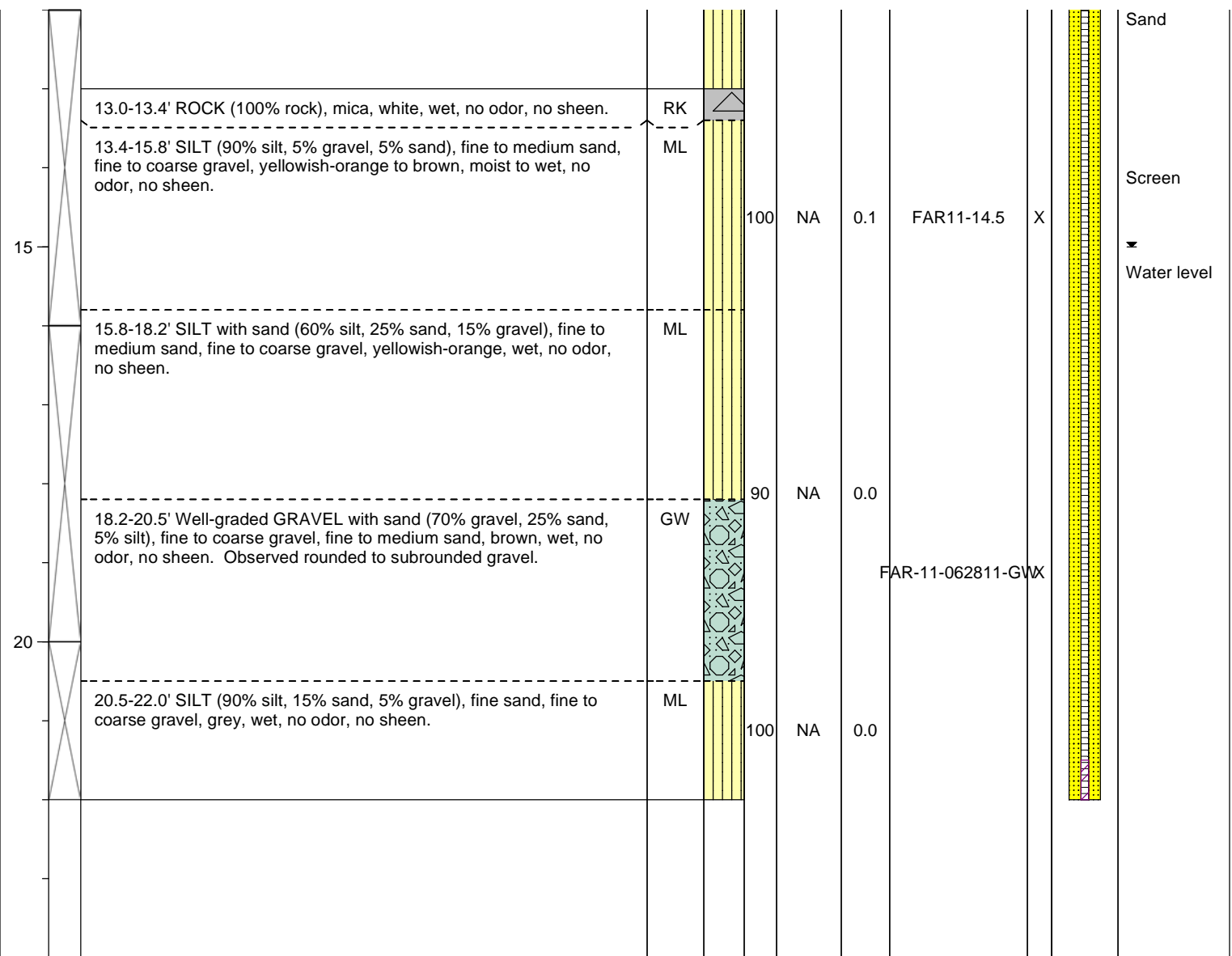
Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information			
Monument Type: Morris	Filter Pack: 10/20 silica sand	Ground Surface Elevation (ft):	NA
Casing Diameter (inches): 2"	Surface Seal: Concrete	Top of Casing Elevation (ft):	NA
Screen Slot Size (inches): 0.010	Annular Seal: Bentonite	Boring Abandonment:	Bentonite
Screened Interval (ft bgs): 12 to 22' bgs		Surveyed Location: X: NA Y: NA	

Client: City of Port Angeles	Date/Time Started: 6/23/11 @ 13:05	Sampler Type: 4' macrocore
Project: Former Rayonier Mill	Date/Time Completed: 6/23/11 @ 14:10	Drive Hammer (lbs.): Auto
Location: Port Angeles, WA	Equipment: Powerprobe 9630	Depth of Water ATD (ft bgs): 15.0'
Farallon PN: 1005-001	Drilling Company: ESN Drilling	Total Boring Depth (ft bgs): 22.0'
Logged By: Ken Scott	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): 22.0
	Drilling Method: Geoprobe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information			
Monument Type: Morris	Filter Pack: 10/20 silica sand	Ground Surface Elevation (ft):	NA
Casing Diameter (inches): 2"	Surface Seal: Concrete	Top of Casing Elevation (ft):	NA
Screen Slot Size (inches): 0.010	Annular Seal: Bentonite	Boring Abandonment:	Bentonite
Screened Interval (ft bgs): 12 to 22' bgs		Surveyed Location: X: NA Y: NA	

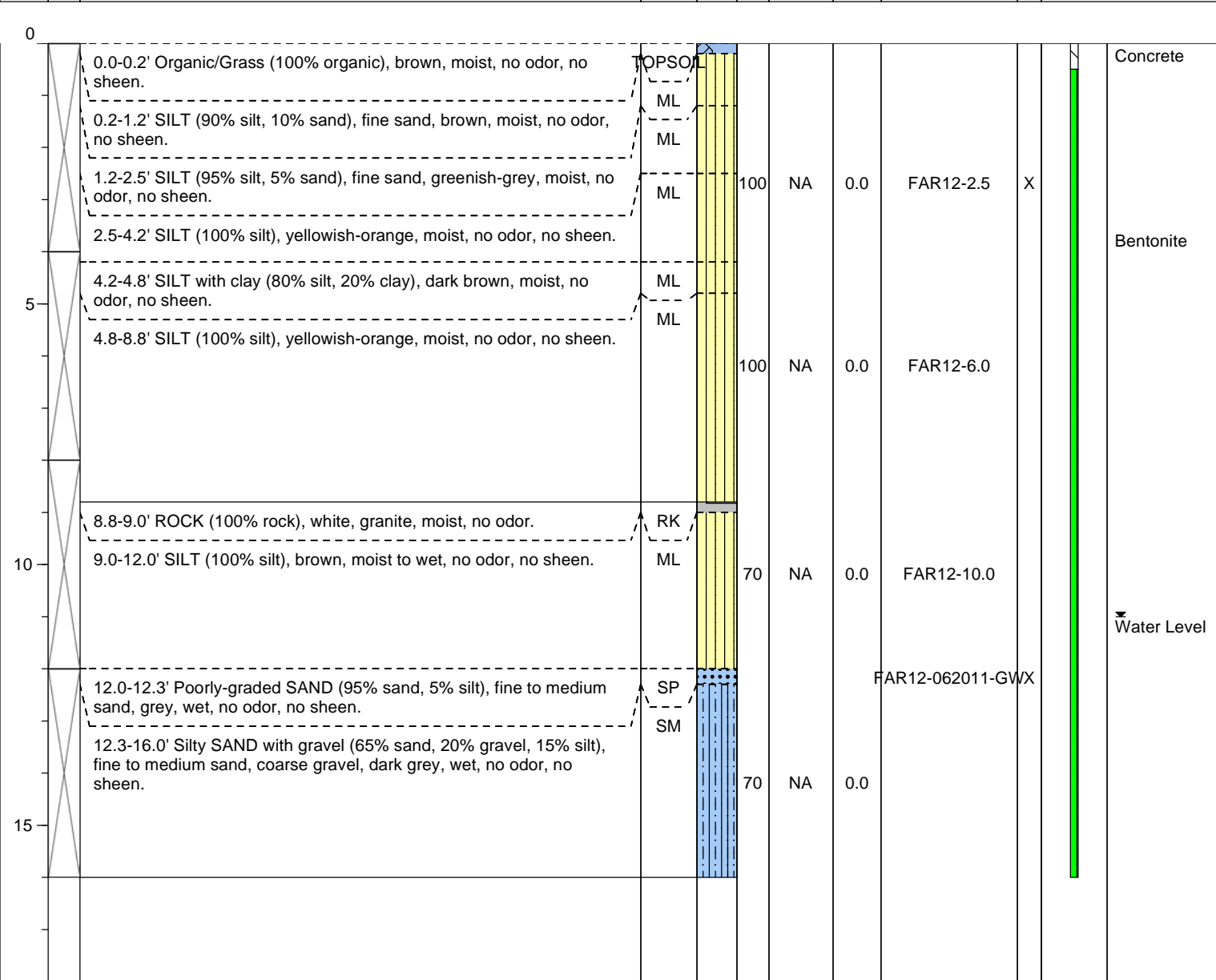
Client: City of Port Angeles	Date/Time Started: 6/23/11 @ 13:05	Sampler Type: 4' macrocore
Project: Former Rayonier Mill	Date/Time Completed: 6/23/11 @ 14:10	Drive Hammer (lbs.): Auto
Location: Port Angeles, WA	Equipment: Powerprobe 9630	Depth of Water ATD (ft bgs): 15.0'
Farallon PN: 1005-001	Drilling Company: ESN Drilling	Total Boring Depth (ft bgs): 22.0'
Logged By: Ken Scott	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): 22.0
	Drilling Method: Geoprobe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
25										
30										

Monument Type: Morris	Well Construction Information		Ground Surface Elevation (ft): NA
Casing Diameter (inches): 2"	Filter Pack: 10/20 silica sand	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Surface Seal: Concrete	Boring Abandonment: Bentonite	
Screened Interval (ft bgs): 12 to 22' bgs	Annular Seal: Bentonite	Surveyed Location: X: NA Y: NA	

Client: City of Port Angeles	Date/Time Started: 6/20/11 @ 13:25	Sampler Type: 4' macrocore
Project: Former Rayonier Mill	Date/Time Completed: 6/20/11 @ 14:55	Drive Hammer (lbs.): Auto
Location: Port Angeles, WA	Equipment: Powerprobe 9630	Depth of Water ATD (ft bgs): 11.0'
Farallon PN: 1005-001	Drilling Company: ESN Drilling	Total Boring Depth (ft bgs): 16.0'
Logged By: Ken Scott	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): NA
	Drilling Method: Geoprobe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	Top of Casing Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: NA	Boring Abandonment: Bentonite	Surveyed Location: X: NA Y: NA
Screen Slot Size (inches): 0.010	Annular Seal: NA		
Screened Interval (ft bgs): 12-15'			

Client: City of Port Angeles	Date/Time Started: 6/21/11 @ 13:40	Sampler Type: 4' macrocore
Project: Former Rayonier Mill	Date/Time Completed: 6/21/11 @ 14:55	Drive Hammer (lbs.): Auto
Location: Port Angeles, WA	Equipment: Powerprobe 9630	Depth of Water ATD (ft bgs): 9.0'
Farallon PN: 1005-001	Drilling Company: ESN Drilling	Total Boring Depth (ft bgs): 15.0'
Logged By: Ken Scott	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): NA
	Drilling Method: Geoprobe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0.0-0.2'		Asphalt (100% asphalt), black.	AC							Concrete
0.2-1.2'		Fill: Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine to coarse gravel, fine to medium sand, grey, moist, no odor, no sheen.	FILL							
1.2-2.0'		Fill: Silty SAND with gravel (65% sand, 20% silt, 15% gravel), fine to medium sand, fine to coarse gravel, black, moist, no odor, no sheen.	CO		100	NA	0.0	FAR13-2.5	X	
2.0-2.3'		Concrete (100% concrete), white, dry, no odor, no sheen.	ML							Bentonite
2.3-5.0'		SILT (95% silt, 5% sand), fine sand, black, moist, no odor, no sheen.	ML							
5.0-11.0'		SILT (100% silt), green, moist to wet, no odor, no sheen.	ML		100	NA	0.0	FAR13-6.0	X	
11.0-15.0'		Silty SAND with gravel (65% sand, 30% silt, 5% gravel), fine sand, fine gravel, greenish-brown, wet, no odor, no sheen.	SM		100	NA	0.0	FAR13-10.0		
					100	NA	0.0	FAR13-062111-GWX		Water Level
								FAR13-15.0		

Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	
Casing Diameter (inches): NA	Surface Seal: NA	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Annular Seal: NA	Boring Abandonment: Bentonite	
Screened Interval (ft bgs): 9-14'		Surveyed Location: X: NA Y: NA	

Client: City of Port Angeles	Date/Time Started: 6/22/11 @ 15:30	Sampler Type: 4' macrocore
Project: Former Rayonier Mill	Date/Time Completed: 6/22/11 @ 17:05	Drive Hammer (lbs.): Auto
Location: Port Angeles, WA	Equipment: Powerprobe 9630	Depth of Water ATD (ft bgs): 2.0'
Farallon PN: 1005-001	Drilling Company: ESN Drilling	Total Boring Depth (ft bgs): 10.0'
Logged By: Ken Scott	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): NA
	Drilling Method: Geoprobe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0.0-0.2'		Asphalt (100% asphalt), black, moist.	AC							Concrete
0.2-1.0'		Fill: Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine to coarse gravel, fine to medium sand, grey, moist, no odor, no sheen.	FILL							
1.0-2.8'		Fill: Silty SAND with gravel (65% sand, 20% gravel, 15% silt), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen.	FILL							
2.8-3.1'		Concrete (100% concrete), white, dry, no odor.	CO			100	NA			Water Level
3.1-3.4'		SILT (100% silt), black, moist, no odor, no sheen. Observed 3-inch round, white, cobbles.	ML				0.0	FAR14-3.5	X	
3.4-6.5'		Sandy SILT (60% silt, 40% sand), fine sand, green, wet, odor, no sheen. Observed the water level rise up from 4-feet to 2-feet like artesian (adjacent to steep slope about 50-feet to east).	ML			80	NA			Initial Water Level
6.5-8.0'		SILT (70% silt, 30% clay), medium plastic, greenish-brown, wet, no odor, no sheen.	ML				0.0	FAR14-7.5		Bentonite
8.0-8.8'		Silty SAND with gravel (60% sand, 25% silt, 15% gravel), fine to medium sand, fine to coarse gravel, brownish-green, wet, no odor, no sheen.	SM							
8.8-10.0'		SILT (95% silt, 5% sand), fine sand, greenish-brown, wet, no odor, no sheen.	ML			100	NA	0.0		
10.0-16.0'		Attempt to sample groundwater at 2-feet bgs, but boring collapsed due to shallow gravel. Redrive to 10-feet bgs but, silt in formation clogges the well screen. Redrive to 16-feet bgs and encounter good groundwater zone and screen between 11 to 16 feet bgs.								

Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	Top of Casing Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: NA	Boring Abandonment: Bentonite	Surveyed Location: X: NA Y: NA
Screen Slot Size (inches): 0.010	Annular Seal: NA		
Screened Interval (ft bgs): 11-15'			

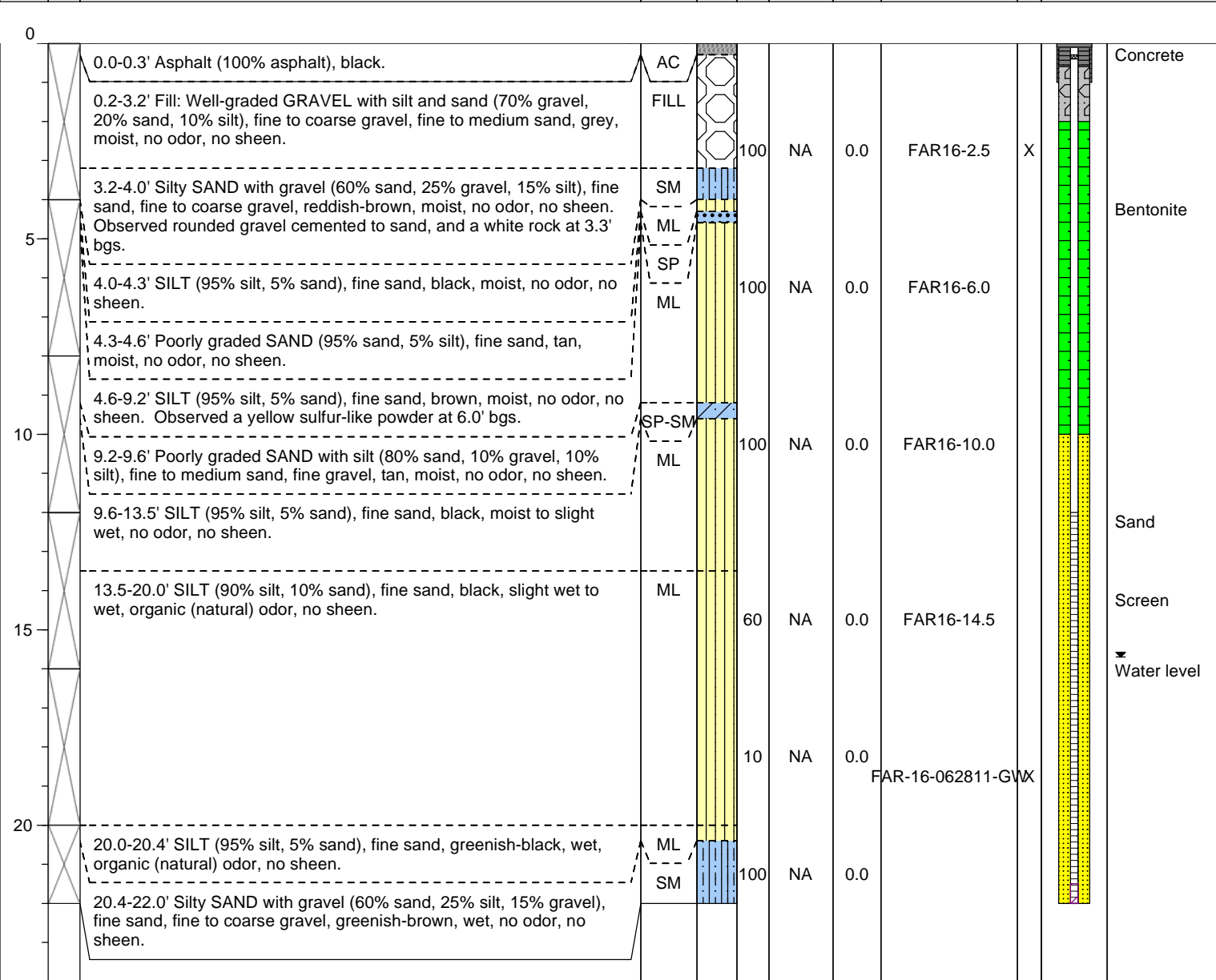
Client: City of Port Angeles	Date/Time Started: 6/20/11 @ 15:10	Sampler Type: 4' macrocore
Project: Former Rayonier Mill	Date/Time Completed: 6/20/11 @ 17:40	Drive Hammer (lbs.): Auto
Location: Port Angeles, WA	Equipment: Powerprobe 9630	Depth of Water ATD (ft bgs): 12.0'
Farallon PN: 1005-001	Drilling Company: ESN Drilling	Total Boring Depth (ft bgs): 16.0'
Logged By: Ken Scott	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): NA
	Drilling Method: Geoprobe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0	0.0-0.2'	Asphalt (100% asphalt), black.	AC							Concrete
	0.2-1.8'	Fill: Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine to coarse gravel, fine sand, grey, moist, no odor, no sheen.	FILL							
	1.8-3.5'	Fill: Poorly-graded SAND (95% sand, 5% silt), fine to medium sand, grey, moist, no odor, no sheen.	FILL		80	NA	0.0	FAR15-2.5	X	
	3.5-4.0'	SILT (100% silt), dark brown, moist, no odor, no sheen.	ML							Bentonite
	4.0-4.6'	Poorly-graded SAND with gravel (80% sand, 15% gravel, 5% silt), fine sand, fine to coarse gravel, grey, moist, no odor, no sheen. Observed subrounded gravel.	SP							
	4.6-9.6'	SILT (100% silt), yellowish-orange, moist, no odor, no sheen.	ML		100	NA	0.0	FAR15-6.0		
	9.6-10.6'	Poorly-graded SAND with gravel (80% sand, 15% gravel, 5% silt), fine to medium sand, fine to coarse gravel, tan, moist, no odor, no sheen.	SP		80	NA	0.0			
	10.6-11.5'	SILT (95% silt, 5% sand), fine sand, brown, moist, no odor, no sheen.	ML					FAR15-11.0	X	
	11.5-11.8'	ROCK (100% rock), blackish-pink basalt, dry, no odor, no sheen.	RK							Water Level
	11.8-15.8'	Sandy SILT (65% silt, 35% sand), fine sand, reddish-brown, moist to wet, no odor, no sheen.	ML		100	NA		FAR15-062011-GWX		
	15.8-16.0'	SILT with sand (85% silt, 15% sand), fine sand, green, wet, no odor, no sheen.	ML					FAR15-16.0		

Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	
Casing Diameter (inches): NA	Surface Seal: NA	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Annular Seal: NA	Boring Abandonment: Bentonite	
Screened Interval (ft bgs): 12-15'		Surveyed Location: X: NA Y: NA	

Client: City of Port Angeles	Date/Time Started: 6/23/11 @ 9:10	Sampler Type: 4' macrocore
Project: Former Rayonier Mill	Date/Time Completed: 6/23/11 @ 10:30	Drive Hammer (lbs.): Auto
Location: Port Angeles, WA	Equipment: Powerprobe 9630	Depth of Water ATD (ft bgs): 15.7'
Farallon PN: 1005-001	Drilling Company: ESN Drilling	Total Boring Depth (ft bgs): 22.0'
Logged By: Ken Scott	Drilling Foreman: Noel Knopf	Total Well Depth (ft bgs): 22.0
	Drilling Method: Geoprobe	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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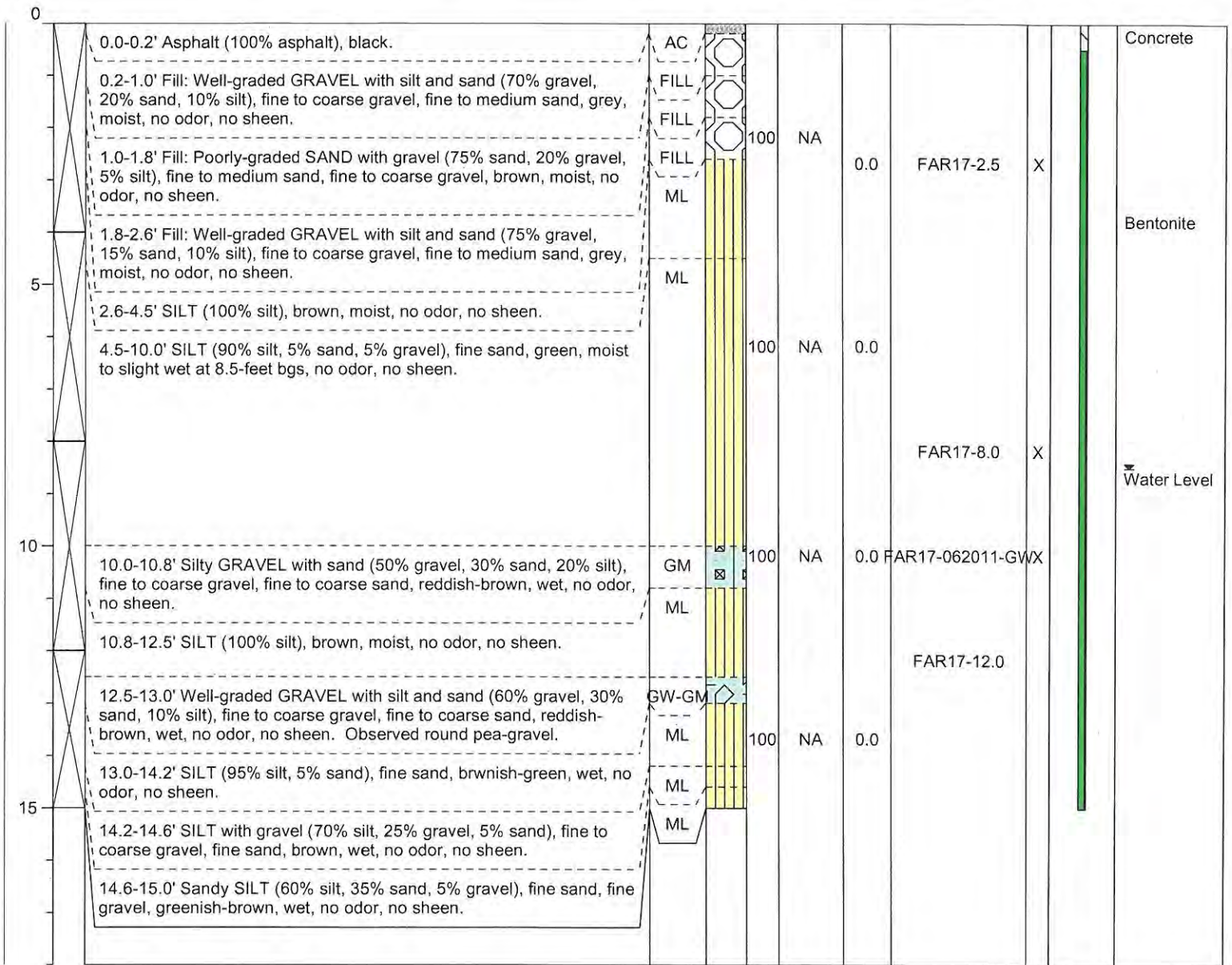


Well Construction Information			
Monument Type: Morris	Filter Pack: 10/20 silica sand	Ground Surface Elevation (ft): NA	
Casing Diameter (inches): 2"	Surface Seal: Concrete	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Annular Seal: Bentonite	Boring Abandonment: NA	
Screened Interval (ft bgs): 12 to 22' bgs		Surveyed Location: X: NA Y: NA	

Client: City of Port Angeles
Project: Former Rayonier Mill
Location: Port Angeles, WA
Farallon PN: 1005-001
Logged By: Ken Scott

Date/Time Started: 6/23/11 @ 7:15
Date/Time Completed: 6/23/11 @ 8:35
Equipment: Powerprobe 9630
Drilling Company: ESN Drilling
Drilling Foreman: Noel Kmopf
Drilling Method: Geoprobe
Sampler Type: 4' macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 8.5'
Total Boring Depth (ft bgs): 15.0'
Total Well Depth (ft bgs): NA

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	Y: NA
Casing Diameter (inches): NA	Surface Seal: NA	Top of Casing Elevation (ft): NA	Boring Abandonment: Bentonite
Screen Slot Size (inches): 0.010	Annular Seal: NA	Surveyed Location: X: NA	
Screened Interval (ft bgs): 7-12			



Client: City of Port Angeles
Project: Former Rayonier Mill
Location: Port Angeles, WA

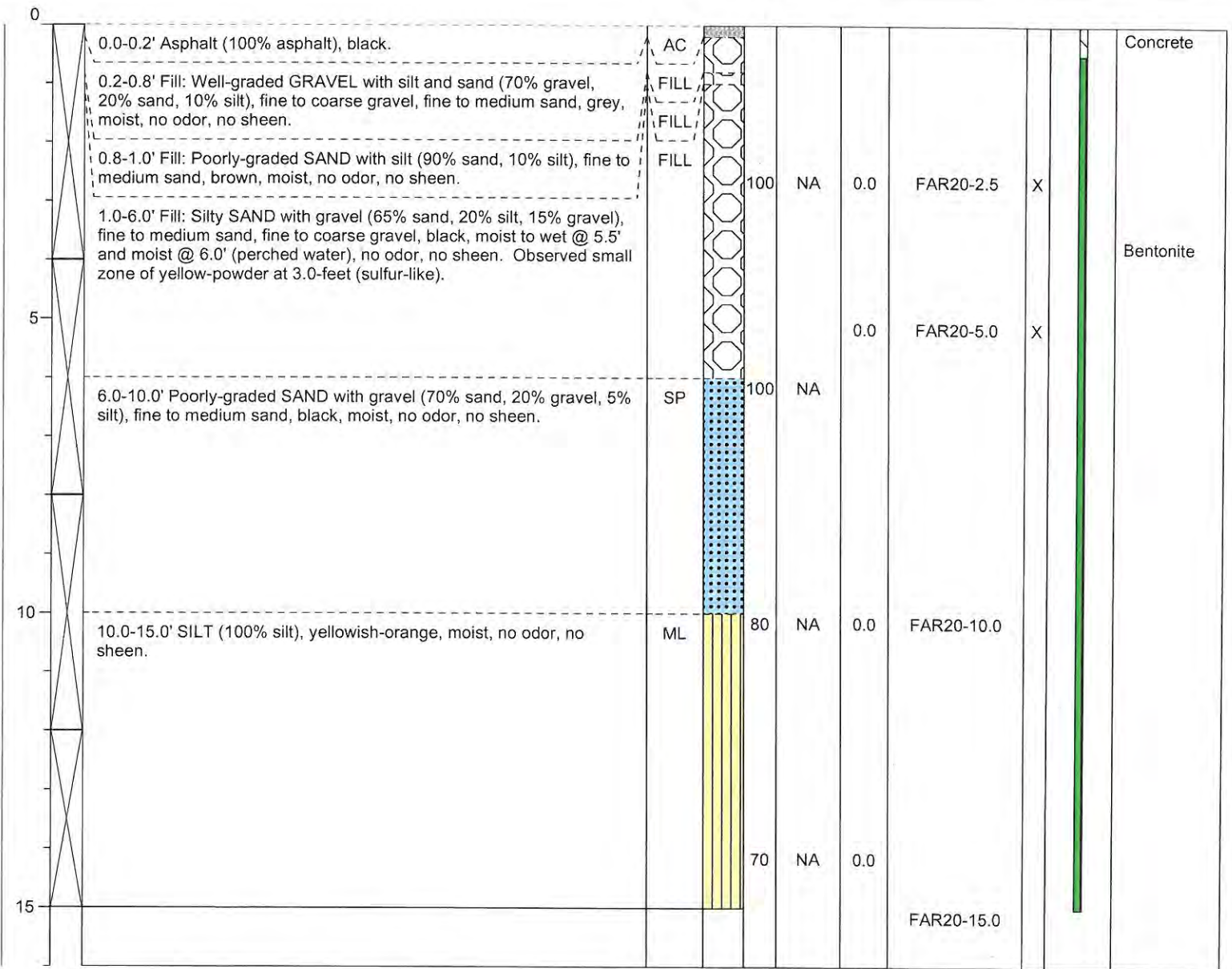
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Date/Time Completed: 6/21/11 @ 9:10
Equipment: Powerprobe 9630
Drilling Company: ESN Drilling
Drilling Foreman: Noel Kmopf
Drilling Method: Geoprobe

Sampler Type: 4' macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): NA
Total Boring Depth (ft bgs): 15.0'
Total Well Depth (ft bgs): NA

Farallon PN: 1005-001

Logged By: Ken Scott

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	Y: NA
Casing Diameter (inches): NA	Surface Seal: NA	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Annular Seal: NA	Boring Abandonment: Bentonite	
Screened Interval (ft bgs): NA		Surveyed Location: X: NA	

Client: City of Port Angeles
Project: Former Rayonier Mill
Location: Port Angeles, WA

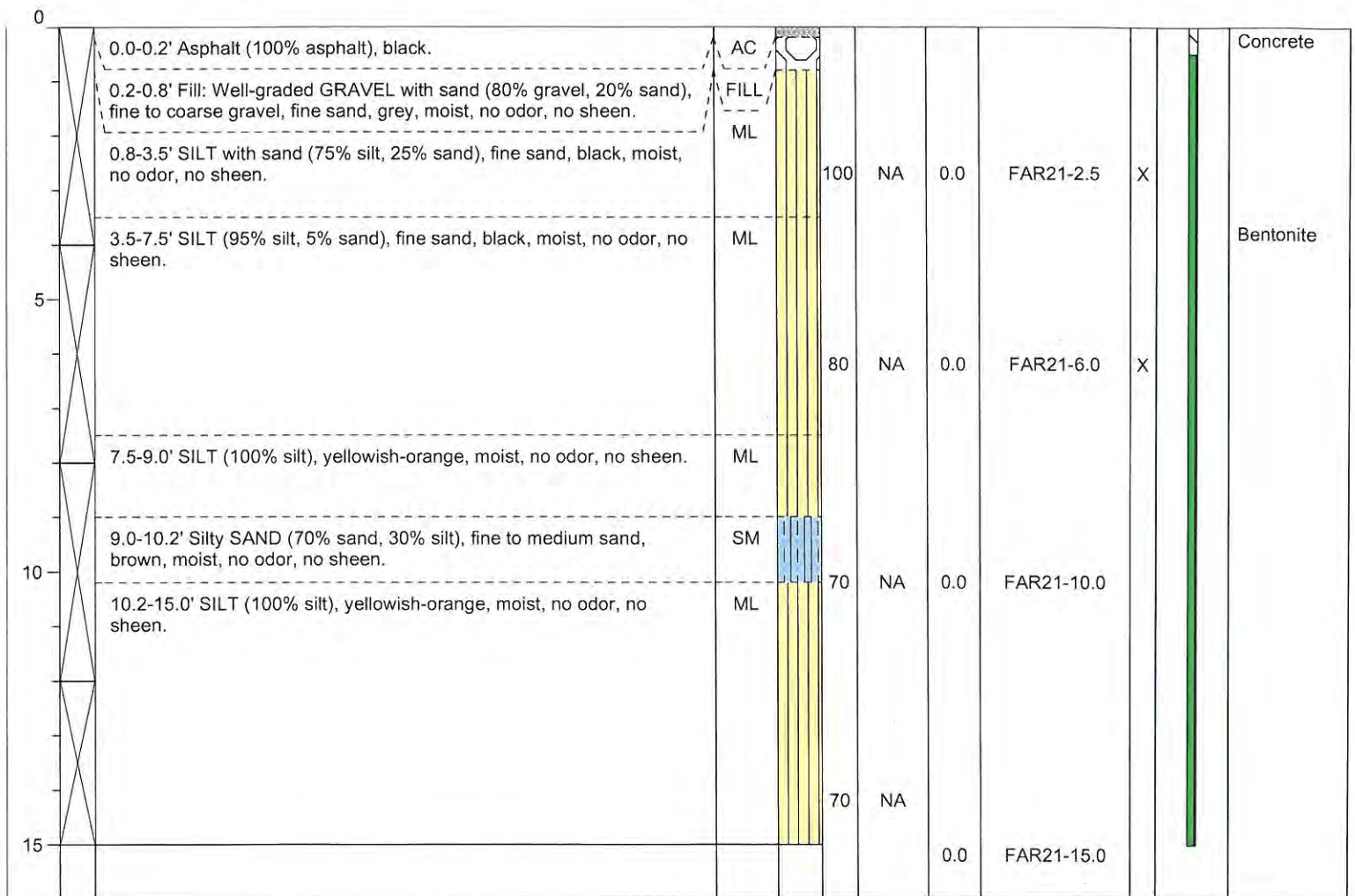
Date/Time Started: 6/21/11 @ 7:20
Date/Time Completed: 6/21/11 @ 8:25
Equipment: Powerprobe 9630
Drilling Company: ESN Drilling
Drilling Foreman: Noel Kmopf
Drilling Method: Geoprobe

Sampler Type: 4' macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): NA
Total Boring Depth (ft bgs): 15.0'
Total Well Depth (ft bgs): NA

Farallon PN: 1005-001

Logged By: Ken Scott

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	Top of Casing Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: NA	Boring Abandonment: Bentonite	Surveyed Location: X: NA Y: NA
Screen Slot Size (inches): 0.010	Annular Seal: NA		
Screened Interval (ft bgs): NA			



Client: City of Port Angeles
Project: Former Rayonier Mill
Location: Port Angeles, WA
Farallon PN: 1005-001
Logged By: Ken Scott

Date/Time Started: 6/24/11 @ 9:15
Date/Time Completed: 6/24/11 @ 11:00
Equipment: Powerprobe 9630
Drilling Company: ESN Drilling
Drilling Foreman: Noel Kropf
Drilling Method: Geoprobe
Sampler Type: 4' macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 12.0'
Total Boring Depth (ft bgs): 15.0'
Total Well Depth (ft bgs): NA

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0.0-0.3'		Asphalt (100% asphalt), black.	AC							Concrete
0.3-0.9'		Fill: Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine to coarse gravel, fine to medium sand, grey, moist, no odor, no sheen.	FILL							
0.9-4.5'		SILT (100% silt), black, moist, no odor, no sheen.	ML		100	NA	0.0	FAR22-2.5	X	
4.5-7.0'		SILT (100% silt), yellowish-orange, moist, no odor, no sheen.	ML		100	NA	0.0	FAR22-6.0	X	Bentonite
7.0-7.5'		ROCK (100% rock), white, moist, no odor, no sheen.	RK							
7.5-8.8'		SILT (100% silt), black, moist, no odor, no sheen.	ML							
8.8-9.4'		Well-graded GRAVEL with silt and sand (65% gravel, 25% sand, 10% silt), fine to coarse gravel, fine to medium sand, tan, moist, no odor, no sheen.	GW-GM		100	NA	0.0	FAR22-10.0	X	
9.4-10.5'		SILT with gravel (70% silt, 25% gravel, 5% sand), fine to coarse gravel, fine to medium sand, reddish-brown, moist, no odor, no sheen.	GW-GM							
10.5-11.0'		Silty GRAVEL (70% gravel, 20% silt, 10% sand), fine to coarse gravel, fine sand, greyish-brown, moist, no odor, no sheen.	SM							
11.0-13.5'		Silty SAND (60% sand, 30% silt, 10% gravel), fine to medium sand, fine to coarse gravel, brownish-grey, moist to wet, no odor, no sheen.	RK		100	NA	0.0	FAR22-062411-GWX		Water Level
11.3-11.65'		ROCK (100% rock), green, sandstone, moist, no odor, no sheen.	ML							
11.6-11.8'		ROCK (100% rock), white, sandstone, moist, no odor, no sheen.	ML							
11.8-13.0'		SILT (100% silt), yellowish-orange, moist, no odor, no sheen.	ML							
13.0-13.5'		SILT with gravel (80% silt, 15% gravel, 5% sand), fine gravel, fine sand, brown, moist, no odor, no sheen.	ML							
13.5-15.0'		SILT with sand (85% silt, 15% sand), fine sand, greenish-brown, wet, no odor, no sheen.	ML							

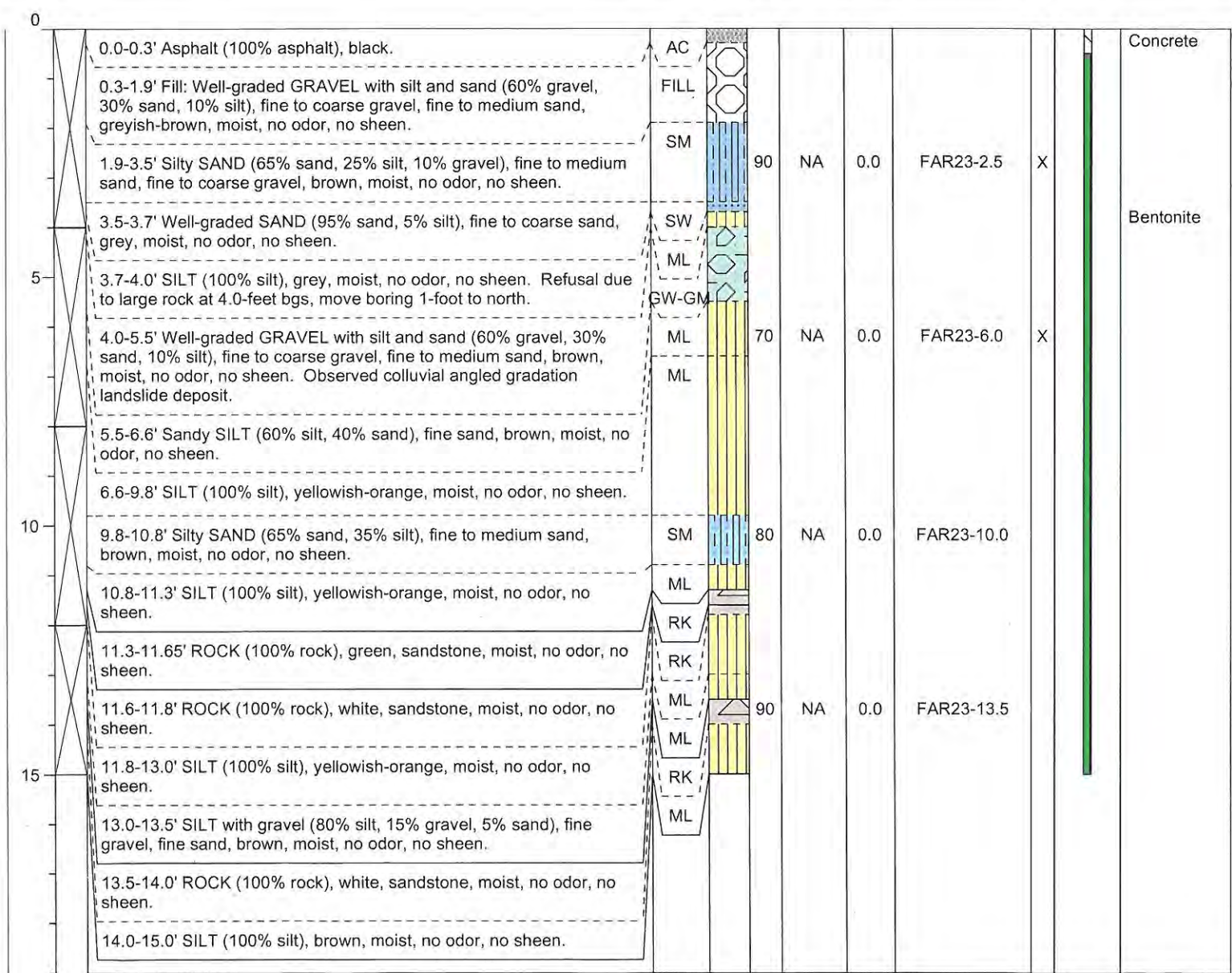
Well Construction Information			
Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA	Y: NA
Casing Diameter (inches): NA	Surface Seal: NA	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Annular Seal: NA	Boring Abandonment: Bentonite	
Screened Interval (ft bgs): 9-14'		Surveyed Location: X: NA	



Client: City of Port Angeles
Project: Former Rayonier Mill
Location: Port Angeles, WA
Farallon PN: 1005-001
Logged By: Ken Scott

Date/Time Started: 6/24/11 @ 7:20
Date/Time Completed: 6/24/11 @ 8:45
Equipment: Powerprobe 9630
Drilling Company: ESN Drilling
Drilling Foreman: Noel Knopf
Drilling Method: Geoprobe
Sampler Type: 4' macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): NA
Total Boring Depth (ft bgs): 15.0'
Total Well Depth (ft bgs): NA

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: NA	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): 0.010	Annular Seal: NA	Boring Abandonment: Bentonite
Screened Interval (ft bgs): NA		Surveyed Location: X: NA Y: NA

APPENDIX C
ANALYTICAL RESULTS

BASELINE SUBSURFACE ENVIRONMENTAL ASSESSMENT
Portion of Rayonier Mill Property
700 North Ennis Street
Port Angeles, Washington

Farallon PN: 1005-001

Table C-1A	<i>Analytical Results for Tested Constituents in Soil, Area of Potential Concern 2</i>
Table C-1B	<i>Analytical Results for Tested Constituents in Groundwater, Area of Potential Concern 2</i>
Table C-2A	<i>Analytical Results for Tested Constituents in Soil, Area of Potential Concern 4</i>
Table C-2B	<i>Analytical Results for Tested Constituents in Groundwater, Area of Potential Concern 4</i>
Table C-3	<i>Analytical Results for Tested Constituents in Soil, Area of Potential Concern 6</i>
Table C-4A	<i>Analytical Results for Tested Constituents in Soil, Area of Potential Concern 8</i>
Table C-4B	<i>Analytical Results for Tested Constituents in Groundwater, Area of Potential Concern 8</i>
Table C-5A	<i>Analytical Results for Tested Constituents in Soil, Area of Potential Concern 9</i>
Table C-5B	<i>Analytical Results for Tested Constituents in Groundwater, Area of Potential Concern 9</i>
Table C-6A	<i>Analytical Results for Tested Constituents in Soil, Area of Potential Concern 12</i>
Table C-6B	<i>Analytical Results for Tested Constituents in Groundwater, Area of Potential Concern 12</i>
Table C-7A	<i>Analytical Results Summary for Detected Constituents in Soil</i>
Table C-7B	<i>Analytical Results Summary for Detected Constituents in Groundwater</i>
Table C-8	<i>Constituents Exceeding Screening Levels in Soil and Groundwater</i>

Table C-1A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 2
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR1	6 - 6.5	Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.0011	0.0011	mg/kg
				1,1,1-Trichloroethane	<0.0011	0.0011	mg/kg
				1,1,2,2-Tetrachloroethane	<0.0011	0.0011	mg/kg
				1,1,2-Trichloroethane	<0.0011	0.0011	mg/kg
				1,1-Dichloroethane	<0.0011	0.0011	mg/kg
				1,1-Dichloroethene	<0.0011	0.0011	mg/kg
				1,1-Dichloropropene	<0.0011	0.0011	mg/kg
				1,2,3-Trichlorobenzene	<0.0011	0.0011	mg/kg
				1,2,3-Trichloropropane	<0.0011	0.0011	mg/kg
				1,2,4-Trichlorobenzene	<0.0011	0.0011	mg/kg
				1,2,4-Trimethylbenzene	<0.0011	0.0011	mg/kg
				1,2-Dibromo-3-chloropropane	<0.0055	0.0055	mg/kg
				1,2-Dibromoethane	<0.0011	0.0011	mg/kg
				1,2-Dichlorobenzene	<0.0011	0.0011	mg/kg
				1,2-Dichloroethane	<0.0011	0.0011	mg/kg
				1,2-Dichloropropane	<0.0011	0.0011	mg/kg
				1,3,5-Trimethylbenzene	<0.0011	0.0011	mg/kg
				1,3-Dichlorobenzene	<0.0011	0.0011	mg/kg
				1,3-Dichloropropane	<0.0011	0.0011	mg/kg
				1,4-Dichlorobenzene	<0.0011	0.0011	mg/kg
				2,2-Dichloropropane	<0.0011	0.0011	mg/kg
				2-Butanone (MEK)	<0.0055	0.0055	mg/kg
				2-Chloroethyl Vinyl Ether	<0.0055	0.0055	mg/kg
				2-Chlorotoluene	<0.0011	0.0011	mg/kg
				2-Hexanone	<0.0055	0.0055	mg/kg
				4-Chlorotoluene	<0.0011	0.0011	mg/kg
				4-Methyl-2-Pentanone (MIBK)	<0.0055	0.0055	mg/kg
				Acetone	0.04	0.0055	mg/kg
				Benzene	<0.0011	0.0011	mg/kg
				Bromobenzene	<0.0011	0.0011	mg/kg
				Bromochloromethane	<0.0011	0.0011	mg/kg
				Bromodichloromethane	<0.0011	0.0011	mg/kg
				Bromoform	<0.0011	0.0011	mg/kg
				Bromomethane	<0.0011	0.0011	mg/kg
				Carbon Disulfide	<0.0055	0.0055	mg/kg
				Carbon Tetrachloride	<0.0011	0.0011	mg/kg
				Chlorobenzene	<0.0011	0.0011	mg/kg
				Chloroethane	<0.0055	0.0055	mg/kg
				Chloroform	<0.0011	0.0011	mg/kg
				Chloromethane	<0.0055	0.0055	mg/kg
				cis-1,2-Dichloroethene	<0.0011	0.0011	mg/kg
cis-1,3-Dichloropropene	<0.0011	0.0011	mg/kg				
Dibromochloromethane	<0.0011	0.0011	mg/kg				
Dibromomethane	<0.0011	0.0011	mg/kg				
Dichlorodifluoromethane	<0.0011	0.0011	mg/kg				
Ethylbenzene	<0.0011	0.0011	mg/kg				
Hexachlorobutadiene	<0.0055	0.0055	mg/kg				
Iodomethane	<0.0055	0.0055	mg/kg				
Isopropylbenzene	<0.0011	0.0011	mg/kg				

Table C-1A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 2
City of Port Angeles Sale Parcel Baseline Assessment
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure	
FAR1 (continued)	6 - 6.5 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	m,p-Xylene	<0.0022	0.0022	mg/kg	
				Methyl T-Butyl Ether (MTBE)	<0.0011	0.0011	mg/kg	
				Methylene Chloride	<0.0055	0.0055	mg/kg	
				Naphthalene	<0.0011	0.0011	mg/kg	
				N-Butylbenzene	<0.0011	0.0011	mg/kg	
				N-Propylbenzene	<0.0011	0.0011	mg/kg	
				o-Xylene	<0.0011	0.0011	mg/kg	
				p-Isopropyltoluene	<0.0011	0.0011	mg/kg	
				sec-Butylbenzene	<0.0011	0.0011	mg/kg	
				Styrene	<0.0011	0.0011	mg/kg	
				tert-Butylbenzene	<0.0011	0.0011	mg/kg	
				Tetrachloroethene (PCE)	<0.0011	0.0011	mg/kg	
				Toluene	<0.0055	0.0055	mg/kg	
				Trans-1,2-Dichloroethene	<0.0011	0.0011	mg/kg	
				Trans-1,3-Dichloropropene	<0.0011	0.0011	mg/kg	
				Trichloroethene (TCE)	<0.0011	0.0011	mg/kg	
				Trichlorofluoromethane	<0.0011	0.0011	mg/kg	
				Vinyl Acetate	<0.0055	0.0055	mg/kg	
				Vinyl Chloride	<0.0011	0.0011	mg/kg	
					10 - 10.5	Metals	SW6010B	Arsenic	<12	12	mg/kg
Cadmium	<0.6	0.6	mg/kg					
Chromium	36	0.6	mg/kg					
Lead	6	6	mg/kg					
		SW7471A	Mercury			<0.3	0.3	mg/kg
Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.04			0.04	mg/kg	
		1,2-Dichlorobenzene	<0.04			0.04	mg/kg	
		1,2-Dinitrobenzene	<0.04			0.04	mg/kg	
		1,2-Diphenylhydrazine	<0.04			0.04	mg/kg	
		1,3-Dichlorobenzene	<0.04			0.04	mg/kg	
		1,3-Dinitrobenzene	<0.04			0.04	mg/kg	
		1,4-Dichlorobenzene	<0.04			0.04	mg/kg	
		1,4-Dinitrobenzene	<0.04			0.04	mg/kg	
		1-Methylnaphthalene	<0.008			0.008	mg/kg	
		2,3,4,6-Tetrachlorophenol	<0.04			0.04	mg/kg	
		2,3,5,6-Tetrachlorophenol	<0.04			0.04	mg/kg	
		2,3-Dichloroaniline	<0.04			0.04	mg/kg	
		2,4,5-Trichlorophenol	<0.04			0.04	mg/kg	
		2,4,6-Trichlorophenol	<0.04			0.04	mg/kg	
		2,4-Dichlorophenol	<0.04	0.04	mg/kg			
2,4-Dimethylphenol	<0.4	0.4	mg/kg					
2,4-Dinitrophenol	<0.2	0.2	mg/kg					
2,4-Dinitrotoluene	<0.04	0.04	mg/kg					
2,6-Dinitrotoluene	<0.04	0.04	mg/kg					
2-Chloronaphthalene	<0.04	0.04	mg/kg					
2-Chlorophenol	<0.04	0.04	mg/kg					
2-Methylnaphthalene	<0.008	0.008	mg/kg					
2-Methylphenol (o-Cresol)	<0.04	0.04	mg/kg					
2-Nitroaniline	<0.04	0.04	mg/kg					
2-Nitrophenol	<0.04	0.04	mg/kg					
3,3'-Dichlorobenzidine	<0.4	0.4	mg/kg					
3,4-Methylphenol (m,p-Cresol)	<0.04	0.04	mg/kg					
3-Nitroaniline	<0.04	0.04	mg/kg					

Table C-1A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR1 (continued)	10 - 10.5 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	4,6-Dinitro-2-Methylphenol	<0.2	0.2	mg/kg
				4-Bromophenyl Phenyl Ether	<0.04	0.04	mg/kg
				4-Chloro-3-Methylphenol	<0.04	0.04	mg/kg
				4-Chloroaniline	<0.04	0.04	mg/kg
				4-Chlorophenyl Phenylether	<0.04	0.04	mg/kg
				4-Nitroaniline	<0.04	0.04	mg/kg
				4-Nitrophenol	<0.04	0.04	mg/kg
				Acenaphthene	0.031	0.008	mg/kg
				Acenaphthylene	<0.008	0.008	mg/kg
				Aniline	<0.04	0.04	mg/kg
				Anthracene	0.14	0.04	mg/kg
				Benzidine	<0.4	0.4	mg/kg
				Benzo(a)Anthracene	0.17	0.04	mg/kg
				Benzo(a)Pyrene	0.18	0.04	mg/kg
				Benzo(b)Fluoranthene	0.13	0.04	mg/kg
				Benzo(g,h,i)Perylene	0.14	0.04	mg/kg
				Benzo(j,k)Fluoranthene	0.16	0.04	mg/kg
				Benzyl alcohol	<0.04	0.04	mg/kg
				Bis(2-Chloroethoxy) Methane	<0.04	0.04	mg/kg
				Bis(2-Chloroethyl) Ether	<0.04	0.04	mg/kg
				Bis(2-Chloroisopropyl)ether	<0.04	0.04	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.04	0.04	mg/kg
				Bis-2-Ethylhexyladipate	<0.04	0.04	mg/kg
				Butyl Benzyl Phthalate	<0.4	0.4	mg/kg
				Carbazole	<0.04	0.04	mg/kg
				Chrysene	0.19	0.04	mg/kg
				Dibenzo(a,h)Anthracene	0.041	0.008	mg/kg
				Dibenzofuran	<0.04	0.04	mg/kg
				Diethylphthalate	<0.2	0.2	mg/kg
				Dimethylphthalate	<0.04	0.04	mg/kg
				Di-N-Butylphthalate	<0.4	0.4	mg/kg
				Di-N-Octyl Phthalate	<0.04	0.04	mg/kg
				Fluoranthene	0.51	0.04	mg/kg
				Fluorene	0.028	0.008	mg/kg
				Hexachlorobenzene	<0.04	0.04	mg/kg
				Hexachlorobutadiene	<0.04	0.04	mg/kg
				Hexachlorocyclopentadiene	<0.04	0.04	mg/kg
				Hexachloroethane	<0.04	0.04	mg/kg
				Indeno(1,2,3-cd)Pyrene	0.12	0.04	mg/kg
				Isophorone	<0.04	0.04	mg/kg
				Naphthalene	<0.008	0.008	mg/kg
				Nitrobenzene	<0.04	0.04	mg/kg
				N-Nitrosodimethylamine	<0.04	0.04	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.04	0.04	mg/kg
N-Nitrosodiphenylamine	<0.04	0.04	mg/kg				
Pentachlorophenol	<0.2	0.2	mg/kg				
Phenanthrene	0.4	0.04	mg/kg				
Phenol	<0.04	0.04	mg/kg				
Pyrene	0.42	0.04	mg/kg				
Pyridine	<0.4	0.4	mg/kg				

Table C-1A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 2
City of Port Angeles Sale Parcel Baseline Assessment
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure	
FAR1 (continued)	10 - 10.5 (continued)	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<30	30	mg/kg	
				Heavy Oil-Range Organics	<60	60	mg/kg	
			NWTPH-GX	Gasoline-Range Organics	<7.7	7.7	mg/kg	
		Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.0013	0.0013	mg/kg	
				1,1,1-Trichloroethane	<0.0013	0.0013	mg/kg	
				1,1,2,2-Tetrachloroethane	<0.0013	0.0013	mg/kg	
				1,1,2-Trichloroethane	<0.0013	0.0013	mg/kg	
				1,1-Dichloroethane	<0.0013	0.0013	mg/kg	
				1,1-Dichloroethene	<0.0013	0.0013	mg/kg	
				1,1-Dichloropropene	<0.0013	0.0013	mg/kg	
				1,2,3-Trichlorobenzene	<0.0013	0.0013	mg/kg	
				1,2,3-Trichloropropane	<0.0013	0.0013	mg/kg	
				1,2,4-Trichlorobenzene	<0.0013	0.0013	mg/kg	
				1,2,4-Trimethylbenzene	<0.0013	0.0013	mg/kg	
				1,2-Dibromo-3-chloropropane	<0.0066	0.0066	mg/kg	
				1,2-Dibromoethane	<0.0013	0.0013	mg/kg	
				1,2-Dichlorobenzene	<0.0013	0.0013	mg/kg	
				1,2-Dichloroethane	<0.0013	0.0013	mg/kg	
				1,2-Dichloropropane	<0.0013	0.0013	mg/kg	
				1,3,5-Trimethylbenzene	<0.0013	0.0013	mg/kg	
				1,3-Dichlorobenzene	<0.0013	0.0013	mg/kg	
				1,3-Dichloropropane	<0.0013	0.0013	mg/kg	
				1,4-Dichlorobenzene	<0.0013	0.0013	mg/kg	
				2,2-Dichloropropane	<0.0013	0.0013	mg/kg	
				2-Butanone (MEK)	<0.0066	0.0066	mg/kg	
				2-Chloroethyl Vinyl Ether	<0.0066	0.0066	mg/kg	
				2-Chlorotoluene	<0.0013	0.0013	mg/kg	
				2-Hexanone	<0.0066	0.0066	mg/kg	
				4-Chlorotoluene	<0.0013	0.0013	mg/kg	
				4-Methyl-2-Pentanone (MIBK)	<0.0066	0.0066	mg/kg	
				Acetone		0.028	0.0066	mg/kg
				Benzene	<0.0013	0.0013	mg/kg	
				Bromobenzene	<0.0013	0.0013	mg/kg	
				Bromochloromethane	<0.0013	0.0013	mg/kg	
				Bromodichloromethane	<0.0013	0.0013	mg/kg	
				Bromoform	<0.0013	0.0013	mg/kg	
				Bromomethane	<0.0013	0.0013	mg/kg	
		Carbon Disulfide	<0.0066	0.0066	mg/kg			
		Carbon Tetrachloride	<0.0013	0.0013	mg/kg			
		Chlorobenzene	<0.0013	0.0013	mg/kg			
		Chloroethane	<0.0066	0.0066	mg/kg			
		Chloroform	<0.0013	0.0013	mg/kg			
		Chloromethane	<0.0066	0.0066	mg/kg			
		cis-1,2-Dichloroethene	<0.0013	0.0013	mg/kg			
		cis-1,3-Dichloropropene	<0.0013	0.0013	mg/kg			
		Dibromochloromethane	<0.0013	0.0013	mg/kg			
		Dibromomethane	<0.0013	0.0013	mg/kg			
		Dichlorodifluoromethane	<0.0013	0.0013	mg/kg			

Table C-1A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 2
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR1 (continued)	10 - 10.5 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Ethylbenzene	<0.0013	0.0013	mg/kg
				Hexachlorobutadiene	<0.0066	0.0066	mg/kg
				Iodomethane	<0.0066	0.0066	mg/kg
				Isopropylbenzene	<0.0013	0.0013	mg/kg
				m,p-Xylene	<0.0027	0.0027	mg/kg
				Methyl T-Butyl Ether (MTBE)	<0.0013	0.0013	mg/kg
				Methylene Chloride	<0.0066	0.0066	mg/kg
				Naphthalene	<0.0013	0.0013	mg/kg
				N-Butylbenzene	<0.0013	0.0013	mg/kg
				N-Propylbenzene	<0.0013	0.0013	mg/kg
				o-Xylene	<0.0013	0.0013	mg/kg
				p-Isopropyltoluene	<0.0013	0.0013	mg/kg
				sec-Butylbenzene	<0.0013	0.0013	mg/kg
				Styrene	<0.0013	0.0013	mg/kg
				tert-Butylbenzene	<0.0013	0.0013	mg/kg
				Tetrachloroethene (PCE)	<0.0013	0.0013	mg/kg
				Toluene	<0.0066	0.0066	mg/kg
				Trans-1,2-Dichloroethene	<0.0013	0.0013	mg/kg
				Trans-1,3-Dichloropropene	<0.0013	0.0013	mg/kg
				Trichloroethene (TCE)	<0.0013	0.0013	mg/kg
Trichlorofluoromethane	<0.0013	0.0013	mg/kg				
Vinyl Acetate	<0.0066	0.0066	mg/kg				
Vinyl Chloride	<0.0013	0.0013	mg/kg				
FAR2	2.5 - 3	Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.0012	0.0012	mg/kg
				1,1,1-Trichloroethane	<0.0012	0.0012	mg/kg
				1,1,2,2-Tetrachloroethane	<0.0012	0.0012	mg/kg
				1,1,2-Trichloroethane	<0.0012	0.0012	mg/kg
				1,1-Dichloroethane	<0.0012	0.0012	mg/kg
				1,1-Dichloroethene	<0.0012	0.0012	mg/kg
				1,1-Dichloropropene	<0.0012	0.0012	mg/kg
				1,2,3-Trichlorobenzene	<0.0012	0.0012	mg/kg
				1,2,3-Trichloropropane	<0.0012	0.0012	mg/kg
				1,2,4-Trichlorobenzene	<0.0012	0.0012	mg/kg
				1,2,4-Trimethylbenzene	<0.0012	0.0012	mg/kg
				1,2-Dibromo-3-chloropropane	<0.0062	0.0062	mg/kg
				1,2-Dibromoethane	<0.0012	0.0012	mg/kg
				1,2-Dichlorobenzene	<0.0012	0.0012	mg/kg
				1,2-Dichloroethane	<0.0012	0.0012	mg/kg
				1,2-Dichloropropane	<0.0012	0.0012	mg/kg
				1,3,5-Trimethylbenzene	<0.0012	0.0012	mg/kg
				1,3-Dichlorobenzene	<0.0012	0.0012	mg/kg
				1,3-Dichloropropane	<0.0012	0.0012	mg/kg
				1,4-Dichlorobenzene	<0.0012	0.0012	mg/kg
				2,2-Dichloropropane	<0.0012	0.0012	mg/kg
				2-Butanone (MEK)	<0.0062	0.0062	mg/kg
				2-Chloroethyl Vinyl Ether	<0.0062	0.0062	mg/kg
				2-Chlorotoluene	<0.0012	0.0012	mg/kg
				2-Hexanone	<0.0062	0.0062	mg/kg
				4-Chlorotoluene	<0.0012	0.0012	mg/kg
4-Methyl-2-Pentanone (MIBK)	<0.0062	0.0062	mg/kg				

Table C-1A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 2
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR2 (continued)	2.5 - 3 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Acetone	0.05	0.0062	mg/kg
				Benzene	<0.0012	0.0012	mg/kg
				Bromobenzene	<0.0012	0.0012	mg/kg
				Bromochloromethane	<0.0012	0.0012	mg/kg
				Bromodichloromethane	<0.0012	0.0012	mg/kg
				Bromoform	<0.0012	0.0012	mg/kg
				Bromomethane	<0.0012	0.0012	mg/kg
				Carbon Disulfide	<0.0062	0.0062	mg/kg
				Carbon Tetrachloride	<0.0012	0.0012	mg/kg
				Chlorobenzene	<0.0012	0.0012	mg/kg
				Chloroethane	<0.0062	0.0062	mg/kg
				Chloroform	<0.0012	0.0012	mg/kg
				Chloromethane	<0.0062	0.0062	mg/kg
				cis-1,2-Dichloroethene	<0.0012	0.0012	mg/kg
				cis-1,3-Dichloropropene	<0.0012	0.0012	mg/kg
				Dibromochloromethane	<0.0012	0.0012	mg/kg
				Dibromomethane	<0.0012	0.0012	mg/kg
				Dichlorodifluoromethane	<0.0012	0.0012	mg/kg
				Ethylbenzene	<0.0012	0.0012	mg/kg
				Hexachlorobutadiene	<0.0062	0.0062	mg/kg
				Iodomethane	<0.0062	0.0062	mg/kg
				Isopropylbenzene	<0.0012	0.0012	mg/kg
				m,p-Xylene	<0.0025	0.0025	mg/kg
				Methyl T-Butyl Ether (MTBE)	<0.0012	0.0012	mg/kg
				Methylene Chloride	<0.0062	0.0062	mg/kg
				Naphthalene	<0.0012	0.0012	mg/kg
				N-Butylbenzene	<0.0012	0.0012	mg/kg
				N-Propylbenzene	<0.0012	0.0012	mg/kg
				o-Xylene	<0.0012	0.0012	mg/kg
				p-Isopropyltoluene	<0.0012	0.0012	mg/kg
				sec-Butylbenzene	<0.0012	0.0012	mg/kg
				Styrene	<0.0012	0.0012	mg/kg
				tert-Butylbenzene	<0.0012	0.0012	mg/kg
Tetrachloroethene (PCE)	<0.0012	0.0012	mg/kg				
Toluene	<0.0062	0.0062	mg/kg				
Trans-1,2-Dichloroethene	<0.0012	0.0012	mg/kg				
Trans-1,3-Dichloropropene	<0.0012	0.0012	mg/kg				
Trichloroethene (TCE)	<0.0012	0.0012	mg/kg				
Trichlorofluoromethane	<0.0012	0.0012	mg/kg				
Vinyl Acetate	<0.0062	0.0062	mg/kg				
Vinyl Chloride	<0.0012	0.0012	mg/kg				
	5.5 - 6	Metals	SW6010B	Arsenic	<11	11	mg/kg
				Cadmium	<0.53	0.53	mg/kg
				Chromium	28	0.53	mg/kg
				Lead	<5.3	5.3	mg/kg
			SW7471A	Mercury	<0.26	0.26	mg/kg

Table C-1A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 2
City of Port Angeles Sale Parcel Baseline Assessment
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Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure		
FAR2 (continued)	5.5 - 6 (continued)	Pesticides	SW8081	4,4'-DDD	<11	11	ug/kg		
				4,4'-DDE	<11	11	ug/kg		
				4,4'-DDT	<11	11	ug/kg		
				Aldrin	<5.3	5.3	ug/kg		
				Alpha-Bhc	<5.3	5.3	ug/kg		
				Alpha-Chlordane	<11	11	ug/kg		
				Beta-Bhc	<5.3	5.3	ug/kg		
				Delta-Bhc	<5.3	5.3	ug/kg		
				Dieldrin	<11	11	ug/kg		
				Endosulfan I	<5.3	5.3	ug/kg		
				Endosulfan II	<11	11	ug/kg		
				Endosulfan Sulfate	<11	11	ug/kg		
				Endrin	<11	11	ug/kg		
				Endrin Aldehyde	<11	11	ug/kg		
				Endrin Ketone	<11	11	ug/kg		
				Gamma-Bhc (Lindane)	<5.3	5.3	ug/kg		
				Gamma-Chlordane	<11	11	ug/kg		
				Heptachlor	<5.3	5.3	ug/kg		
				Heptachlor Epoxide	<5.3	5.3	ug/kg		
				Methoxychlor	<11	11	ug/kg		
		Toxaphene	<53	53	ug/kg				
				Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.053	0.053	mg/kg
						Aroclor 1221	<0.053	0.053	mg/kg
						Aroclor 1232	<0.053	0.053	mg/kg
						Aroclor 1242	<0.053	0.053	mg/kg
						Aroclor 1248	<0.053	0.053	mg/kg
						Aroclor 1254	<0.053	0.053	mg/kg
						Aroclor 1260	<0.053	0.053	mg/kg
				Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.035	0.035	mg/kg
						1,2-Dichlorobenzene	<0.035	0.035	mg/kg
						1,2-Dinitrobenzene	<0.035	0.035	mg/kg
						1,2-Diphenylhydrazine	<0.035	0.035	mg/kg
						1,3-Dichlorobenzene	<0.035	0.035	mg/kg
						1,3-Dinitrobenzene	<0.035	0.035	mg/kg
						1,4-Dichlorobenzene	<0.035	0.035	mg/kg
						1,4-Dinitrobenzene	<0.035	0.035	mg/kg
		1-Methylnaphthalene	<0.007			0.007	mg/kg		
		2,3,4,6-Tetrachlorophenol	<0.035			0.035	mg/kg		
		2,3,5,6-Tetrachlorophenol	<0.035	0.035	mg/kg				

Table C-1A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 2
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR2 (continued)	5.5 - 6 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	2,3-Dichloroaniline	<0.035	0.035	mg/kg
				2,4,5-Trichlorophenol	<0.035	0.035	mg/kg
				2,4,6-Trichlorophenol	<0.035	0.035	mg/kg
				2,4-Dichlorophenol	<0.035	0.035	mg/kg
				2,4-Dimethylphenol	<0.35	0.35	mg/kg
				2,4-Dinitrophenol	<0.18	0.18	mg/kg
				2,4-Dinitrotoluene	<0.035	0.035	mg/kg
				2,6-Dinitrotoluene	<0.035	0.035	mg/kg
				2-Chloronaphthalene	<0.035	0.035	mg/kg
				2-Chlorophenol	<0.035	0.035	mg/kg
				2-Methylnaphthalene	<0.007	0.007	mg/kg
				2-Methylphenol (o-Cresol)	<0.035	0.035	mg/kg
				2-Nitroaniline	<0.035	0.035	mg/kg
				2-Nitrophenol	<0.035	0.035	mg/kg
				3,3'-Dichlorobenzidine	<0.35	0.35	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.035	0.035	mg/kg
				3-Nitroaniline	<0.035	0.035	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.18	0.18	mg/kg
				4-Bromophenyl Phenyl Ether	<0.035	0.035	mg/kg
				4-Chloro-3-Methylphenol	<0.035	0.035	mg/kg
				4-Chloroaniline	<0.035	0.035	mg/kg
				4-Chlorophenyl Phenylether	<0.035	0.035	mg/kg
				4-Nitroaniline	<0.035	0.035	mg/kg
				4-Nitrophenol	<0.035	0.035	mg/kg
				Acenaphthene	<0.007	0.007	mg/kg
				Acenaphthylene	<0.007	0.007	mg/kg
				Aniline	<0.035	0.035	mg/kg
				Anthracene	<0.007	0.007	mg/kg
				Benzidine	<0.35	0.35	mg/kg
				Benzo(a)Anthracene	<0.007	0.007	mg/kg
				Benzo(a)Pyrene	<0.007	0.007	mg/kg
				Benzo(b)Fluoranthene	<0.007	0.007	mg/kg
				Benzo(g,h,i)Perylene	<0.007	0.007	mg/kg
				Benzo(j,k)Fluoranthene	<0.007	0.007	mg/kg
				Benzyl alcohol	<0.035	0.035	mg/kg
				Bis(2-Chloroethoxy) Methane	<0.035	0.035	mg/kg
				Bis(2-Chloroethyl) Ether	<0.035	0.035	mg/kg
				Bis(2-Chloroisopropyl) ether	<0.035	0.035	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.035	0.035	mg/kg
				Bis-2-Ethylhexyladipate	<0.035	0.035	mg/kg
				Butyl Benzyl Phthalate	<0.35	0.35	mg/kg
				Carbazole	<0.035	0.035	mg/kg
				Chrysene	<0.007	0.007	mg/kg
				Dibenzo(a,h)Anthracene	<0.007	0.007	mg/kg
				Dibenzofuran	<0.035	0.035	mg/kg
				Diethylphthalate	<0.18	0.18	mg/kg
				Dimethylphthalate	<0.035	0.035	mg/kg
				Di-N-Butylphthalate	<0.35	0.35	mg/kg
				Di-N-Octyl Phthalate	<0.035	0.035	mg/kg
				Fluoranthene	<0.007	0.007	mg/kg
Fluorene	<0.007	0.007	mg/kg				

Table C-1A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 2
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR2 (continued)	5.5 - 6 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Hexachlorobenzene	<0.035	0.035	mg/kg
				Hexachlorobutadiene	<0.035	0.035	mg/kg
				Hexachlorocyclopentadiene	<0.035	0.035	mg/kg
				Hexachloroethane	<0.035	0.035	mg/kg
				Indeno(1,2,3-cd)Pyrene	<0.007	0.007	mg/kg
				Isophorone	<0.035	0.035	mg/kg
				Naphthalene	<0.007	0.007	mg/kg
				Nitrobenzene	<0.035	0.035	mg/kg
				N-Nitrosodimethylamine	<0.035	0.035	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.035	0.035	mg/kg
				N-Nitrosodiphenylamine	<0.035	0.035	mg/kg
				Pentachlorophenol	<0.18	0.18	mg/kg
				Phenanthrene	<0.007	0.007	mg/kg
				Phenol	<0.035	0.035	mg/kg
				Pyrene	<0.007	0.007	mg/kg
				Pyridine	<0.35	0.35	mg/kg
				Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<26	26	mg/kg
		Heavy Oil-Range Organics	<53			53	mg/kg
			NWTPH-GX	Gasoline-Range Organics	<6.2	6.2	mg/kg
		Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.001	0.001	mg/kg
				1,1,1-Trichloroethane	<0.001	0.001	mg/kg
				1,1,2,2-Tetrachloroethane	<0.001	0.001	mg/kg
				1,1,2-Trichloroethane	<0.001	0.001	mg/kg
				1,1-Dichloroethane	<0.001	0.001	mg/kg
				1,1-Dichloroethene	<0.001	0.001	mg/kg
				1,1-Dichloropropene	<0.001	0.001	mg/kg
				1,2,3-Trichlorobenzene	<0.001	0.001	mg/kg
				1,2,3-Trichloropropane	<0.001	0.001	mg/kg
				1,2,4-Trichlorobenzene	<0.001	0.001	mg/kg
				1,2,4-Trimethylbenzene	<0.001	0.001	mg/kg
				1,2-Dibromo-3-chloropropane	<0.0052	0.0052	mg/kg
				1,2-Dibromoethane	<0.001	0.001	mg/kg
				1,2-Dichlorobenzene	<0.001	0.001	mg/kg
1,2-Dichloroethane	<0.001			0.001	mg/kg		
1,2-Dichloropropane	<0.001			0.001	mg/kg		
1,3,5-Trimethylbenzene	<0.001			0.001	mg/kg		
1,3-Dichlorobenzene	<0.001			0.001	mg/kg		
1,3-Dichloropropane	<0.001			0.001	mg/kg		
1,4-Dichlorobenzene	<0.001			0.001	mg/kg		
2,2-Dichloropropane	<0.001			0.001	mg/kg		
2-Butanone (MEK)	<0.0052			0.0052	mg/kg		
2-Chloroethyl Vinyl Ether	<0.0052			0.0052	mg/kg		
2-Chlorotoluene	<0.001	0.001	mg/kg				
2-Hexanone	<0.0052	0.0052	mg/kg				
4-Chlorotoluene	<0.001	0.001	mg/kg				
4-Methyl-2-Pentanone (MIBK)	<0.0052	0.0052	mg/kg				

Table C-1A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 2
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR2 (continued)	5.5 - 6 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Acetone	0.039	0.0052	mg/kg
				Benzene	<0.001	0.001	mg/kg
				Bromobenzene	<0.001	0.001	mg/kg
				Bromochloromethane	<0.001	0.001	mg/kg
				Bromodichloromethane	<0.001	0.001	mg/kg
				Bromoform	<0.001	0.001	mg/kg
				Bromomethane	<0.001	0.001	mg/kg
				Carbon Disulfide	<0.0052	0.0052	mg/kg
				Carbon Tetrachloride	<0.001	0.001	mg/kg
				Chlorobenzene	<0.001	0.001	mg/kg
				Chloroethane	<0.0052	0.0052	mg/kg
				Chloroform	<0.001	0.001	mg/kg
				Chloromethane	<0.0052	0.0052	mg/kg
				cis-1,2-Dichloroethene	<0.001	0.001	mg/kg
				cis-1,3-Dichloropropene	<0.001	0.001	mg/kg
				Dibromochloromethane	<0.001	0.001	mg/kg
				Dibromomethane	<0.001	0.001	mg/kg
				Dichlorodifluoromethane	<0.001	0.001	mg/kg
				Ethylbenzene	<0.001	0.001	mg/kg
				Hexachlorobutadiene	<0.0052	0.0052	mg/kg
				Iodomethane	<0.0052	0.0052	mg/kg
				Isopropylbenzene	<0.001	0.001	mg/kg
				m,p-Xylene	<0.0021	0.0021	mg/kg
				Methyl T-Butyl Ether (MTBE)	<0.001	0.001	mg/kg
				Methylene Chloride	<0.0052	0.0052	mg/kg
				Naphthalene	<0.001	0.001	mg/kg
				N-Butylbenzene	<0.001	0.001	mg/kg
				N-Propylbenzene	<0.001	0.001	mg/kg
				o-Xylene	<0.001	0.001	mg/kg
				p-Isopropyltoluene	<0.001	0.001	mg/kg
				sec-Butylbenzene	<0.001	0.001	mg/kg
				Styrene	<0.001	0.001	mg/kg
				tert-Butylbenzene	<0.001	0.001	mg/kg
				Tetrachloroethene (PCE)	<0.001	0.001	mg/kg
				Toluene	<0.0052	0.0052	mg/kg
Trans-1,2-Dichloroethene	<0.001	0.001	mg/kg				
Trans-1,3-Dichloropropene	<0.001	0.001	mg/kg				
Trichloroethene (TCE)	<0.001	0.001	mg/kg				
Trichlorofluoromethane	<0.001	0.001	mg/kg				
Vinyl Acetate	<0.0052	0.0052	mg/kg				
Vinyl Chloride	<0.001	0.001	mg/kg				

NOTES:

Results in **bold** denote analyte was detected. See Table 7A.

If the result is less than (<) the laboratory reporting limit, the analyte was not detected.

< denotes analyte not detected at or above the laboratory reporting limit listed.

bgs = below ground surface

µg/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

Table C-1B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 2
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR1	Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.96	0.96	ug/l
			1,2-Dichlorobenzene	<0.96	0.96	ug/l
			1,2-Dinitrobenzene	<0.96	0.96	ug/l
			1,2-Diphenylhydrazine	<0.96	0.96	ug/l
			1,3-Dichlorobenzene	<0.96	0.96	ug/l
			1,3-Dinitrobenzene	<0.96	0.96	ug/l
			1,4-Dichlorobenzene	<0.96	0.96	ug/l
			1,4-Dinitrobenzene	<0.96	0.96	ug/l
			1-Methylnaphthalene	<0.096	0.096	ug/l
			2,3,4,6-Tetrachlorophenol	<0.96	0.96	ug/l
			2,3,5,6-Tetrachlorophenol	<0.96	0.96	ug/l
			2,3-Dichloroaniline	<0.96	0.96	ug/l
			2,4,5-Trichlorophenol	<0.96	0.96	ug/l
			2,4,6-Trichlorophenol	<0.96	0.96	ug/l
			2,4-Dichlorophenol	<0.96	0.96	ug/l
			2,4-Dimethylphenol	<0.96	0.96	ug/l
			2,4-Dinitrophenol	<4.8	4.8	ug/l
			2,4-Dinitrotoluene	<0.96	0.96	ug/l
			2,6-Dinitrotoluene	<0.96	0.96	ug/l
			2-Chloronaphthalene	<0.96	0.96	ug/l
			2-Chlorophenol	<0.96	0.96	ug/l
			2-Methylnaphthalene	<0.096	0.096	ug/l
			2-Methylphenol (o-Cresol)	<0.96	0.96	ug/l
			2-Nitroaniline	<0.96	0.96	ug/l
			2-Nitrophenol	<0.96	0.96	ug/l
			3,3'-Dichlorobenzidine	<0.96	0.96	ug/l
			3,4-Methylphenol(m,p-Cresol)	<0.96	0.96	ug/l
			3-Nitroaniline	<0.96	0.96	ug/l
			4,6-Dinitro-2-Methylphenol	<4.8	4.8	ug/l
			4-Bromophenyl Phenyl Ether	<0.96	0.96	ug/l
4-Chloro-3-Methylphenol	<0.96	0.96	ug/l			
4-Chloroaniline	<0.96	0.96	ug/l			
4-Chlorophenyl Phenylether	<0.96	0.96	ug/l			
4-Nitroaniline	<0.96	0.96	ug/l			
4-Nitrophenol	<0.96	0.96	ug/l			
Acenaphthene	<0.096	0.096	ug/l			
Acenaphthylene	<0.096	0.096	ug/l			
Aniline	<4.8	4.8	ug/l			
Anthracene	<0.096	0.096	ug/l			

Table C-1B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 2
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR1 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Benzidine	<4.8	4.8	ug/l
			Benzo(a)Anthracene	<0.0096	0.0096	ug/l
			Benzo(a)Pyrene	<0.0096	0.0096	ug/l
			Benzo(b)Fluoranthene	<0.0096	0.0096	ug/l
			Benzo(g,h,i)Perylene	<0.0096	0.0096	ug/l
			Benzo(j,k)Fluoranthene	<0.0096	0.0096	ug/l
			Benzyl alcohol	<0.96	0.96	ug/l
			Bis(2-Chloroethoxy) Methane	<0.96	0.96	ug/l
			Bis(2-Chloroethyl) Ether	<0.96	0.96	ug/l
			Bis(2-Chloroisopropyl)ether	<0.96	0.96	ug/l
			Bis(2-Ethylhexyl) Phthalate	<0.96	0.96	ug/l
			Bis-2-Ethylhexyladipate	<0.96	0.96	ug/l
			Butyl Benzyl Phthalate	<0.96	0.96	ug/l
			Carbazole	<0.96	0.96	ug/l
			Chrysene	<0.0096	0.0096	ug/l
			Dibenzo(a,h)Anthracene	<0.0096	0.0096	ug/l
			Dibenzofuran	<0.96	0.96	ug/l
			Diethylphthalate	<0.96	0.96	ug/l
			Dimethylphthalate	<0.96	0.96	ug/l
			Di-N-Butylphthalate	<0.96	0.96	ug/l
			Di-N-Octyl Phthalate	<0.96	0.96	ug/l
			Fluoranthene	<0.096	0.096	ug/l
			Fluorene	<0.096	0.096	ug/l
			Hexachlorobenzene	<0.96	0.96	ug/l
			Hexachlorobutadiene	<0.96	0.96	ug/l
			Hexachlorocyclopentadiene	<0.96	0.96	ug/l
			Hexachloroethane	<0.96	0.96	ug/l
			Indeno(1,2,3-cd)Pyrene	<0.0096	0.0096	ug/l
			Isophorone	<0.96	0.96	ug/l
			Naphthalene	<0.096	0.096	ug/l
			Nitrobenzene	<0.96	0.96	ug/l
			N-Nitrosodimethylamine	<0.96	0.96	ug/l
N-Nitroso-Di-N-Propylamine	<0.96	0.96	ug/l			
N-Nitrosodiphenylamine	<0.96	0.96	ug/l			
Pentachlorophenol	<4.8	4.8	ug/l			
Phenanthrene	<0.096	0.096	ug/l			
Phenol	<0.96	0.96	ug/l			
Pyrene	<0.096	0.096	ug/l			
Pyridine	<0.96	0.96	ug/l			

Table C-1B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 2
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR1 (continued)	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<0.27	0.27	mg/l
			Heavy Oil-Range Organics	<0.43	0.43	mg/l
		NWTPH-GX	Gasoline-Range Organics	<100	100	ug/l
	Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.2	0.2	ug/l
1,1,1-Trichloroethane			<0.2	0.2	ug/l	
1,1,2,2-Tetrachloroethane			<0.2	0.2	ug/l	
1,1,2-Trichloroethane			<0.2	0.2	ug/l	
1,1-Dichloroethane			<0.2	0.2	ug/l	
1,1-Dichloroethene			<0.2	0.2	ug/l	
1,1-Dichloropropene			<0.2	0.2	ug/l	
1,2,3-Trichlorobenzene			<0.2	0.2	ug/l	
1,2,3-Trichloropropane			<0.2	0.2	ug/l	
1,2,4-Trichlorobenzene			<0.2	0.2	ug/l	
1,2,4-Trimethylbenzene			<0.2	0.2	ug/l	
1,2-Dibromo-3-chloropropane			<1	1	ug/l	
1,2-Dibromoethane			<0.2	0.2	ug/l	
1,2-Dichlorobenzene			<0.2	0.2	ug/l	
1,2-Dichloroethane			<0.2	0.2	ug/l	
1,2-Dichloropropane			<0.2	0.2	ug/l	
1,3,5-Trimethylbenzene			<0.2	0.2	ug/l	
1,3-Dichlorobenzene			<0.2	0.2	ug/l	
1,3-Dichloropropane			<0.2	0.2	ug/l	
1,4-Dichlorobenzene			<0.2	0.2	ug/l	
2,2-Dichloropropane			<0.2	0.2	ug/l	
2-Butanone (MEK)			<5	5	ug/l	
2-Chloroethyl Vinyl Ether			<1	1	ug/l	
2-Chlorotoluene			<0.2	0.2	ug/l	
2-Hexanone			<2	2	ug/l	
4-Chlorotoluene			<0.2	0.2	ug/l	
4-Methyl-2-Pentanone (MIBK)			<2	2	ug/l	
Acetone			<5	5	ug/l	
Benzene			<0.2	0.2	ug/l	
Bromobenzene			<0.2	0.2	ug/l	
Bromochloromethane			<0.2	0.2	ug/l	
Bromodichloromethane			<0.2	0.2	ug/l	
Bromoform			<1	1	ug/l	
Bromomethane	<0.2	0.2	ug/l			
Carbon Disulfide	<0.2	0.2	ug/l			
Carbon Tetrachloride	<0.2	0.2	ug/l			
Chlorobenzene	<0.2	0.2	ug/l			
Chloroethane	<1	1	ug/l			
Chloroform	<0.2	0.2	ug/l			
Chloromethane	<1	1	ug/l			

Table C-1B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 2
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
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Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR1 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	cis-1,2-Dichloroethene	<0.2	0.2	ug/l
			cis-1,3-Dichloropropene	<0.2	0.2	ug/l
			Dibromochloromethane	<0.2	0.2	ug/l
			Dibromomethane	<0.2	0.2	ug/l
			Dichlorodifluoromethane	<0.2	0.2	ug/l
			Ethylbenzene	<0.2	0.2	ug/l
			Hexachlorobutadiene	<0.2	0.2	ug/l
			Iodomethane	<1	1	ug/l
			Isopropylbenzene	<0.2	0.2	ug/l
			m,p-Xylene	<0.4	0.4	ug/l
			Methyl T-Butyl Ether (MTBE)	<0.2	0.2	ug/l
			Methylene Chloride	<1	1	ug/l
			Naphthalene	<1	1	ug/l
			N-Butylbenzene	<0.2	0.2	ug/l
			N-Propylbenzene	<0.2	0.2	ug/l
			o-Xylene	<0.2	0.2	ug/l
			p-Isopropyltoluene	<0.2	0.2	ug/l
			sec-Butylbenzene	<0.2	0.2	ug/l
			Styrene	<0.2	0.2	ug/l
			tert-Butylbenzene	<0.2	0.2	ug/l
			Tetrachloroethene (PCE)	<0.2	0.2	ug/l
			Toluene	<1	1	ug/l
			Trans-1,2-Dichloroethene	<0.2	0.2	ug/l
			Trans-1,3-Dichloropropene	<0.2	0.2	ug/l
			Trichloroethene (TCE)	<0.2	0.2	ug/l
			Trichlorofluoromethane	<0.2	0.2	ug/l
Vinyl Acetate	<2	2	ug/l			
Vinyl Chloride	<0.2	0.2	ug/l			
FAR2	Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.95	0.95	ug/l
			1,2-Dichlorobenzene	<0.95	0.95	ug/l
			1,2-Dinitrobenzene	<0.95	0.95	ug/l
			1,2-Diphenylhydrazine	<0.95	0.95	ug/l
			1,3-Dichlorobenzene	<0.95	0.95	ug/l
			1,3-Dinitrobenzene	<0.95	0.95	ug/l
			1,4-Dichlorobenzene	<0.95	0.95	ug/l
			1,4-Dinitrobenzene	<0.95	0.95	ug/l
			1-Methylnaphthalene	<0.095	0.095	ug/l
			2,3,4,6-Tetrachlorophenol	<0.95	0.95	ug/l
			2,3,5,6-Tetrachlorophenol	<0.95	0.95	ug/l
			2,3-Dichloroaniline	<0.95	0.95	ug/l
			2,4,5-Trichlorophenol	<0.95	0.95	ug/l
			2,4,6-Trichlorophenol	<0.95	0.95	ug/l

Table C-1B
Analytical Results for Tested Constituents in Groundwater
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Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR2 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	2,4-Dichlorophenol	<0.95	0.95	ug/l
			2,4-Dimethylphenol	<0.95	0.95	ug/l
			2,4-Dinitrophenol	<4.8	4.8	ug/l
			2,4-Dinitrotoluene	<0.95	0.95	ug/l
			2,6-Dinitrotoluene	<0.95	0.95	ug/l
			2-Chloronaphthalene	<0.95	0.95	ug/l
			2-Chlorophenol	<0.95	0.95	ug/l
			2-Methylnaphthalene	<0.095	0.095	ug/l
			2-Methylphenol (o-Cresol)	<0.95	0.95	ug/l
			2-Nitroaniline	<0.95	0.95	ug/l
			2-Nitrophenol	<0.95	0.95	ug/l
			3,3`-Dichlorobenzidine	<0.95	0.95	ug/l
			3,4-Methylphenol(m,p-Cresol)	<0.95	0.95	ug/l
			3-Nitroaniline	<0.95	0.95	ug/l
			4,6-Dinitro-2-Methylphenol	<4.8	4.8	ug/l
			4-Bromophenyl Phenyl Ether	<0.95	0.95	ug/l
			4-Chloro-3-Methylphenol	<0.95	0.95	ug/l
			4-Chloroaniline	<0.95	0.95	ug/l
			4-Chlorophenyl Phenylether	<0.95	0.95	ug/l
			4-Nitroaniline	<0.95	0.95	ug/l
			4-Nitrophenol	<0.95	0.95	ug/l
			Acenaphthene	<0.095	0.095	ug/l
			Acenaphthylene	<0.095	0.095	ug/l
			Aniline	<4.8	4.8	ug/l
			Anthracene	<0.095	0.095	ug/l
			Benzidine	<4.8	4.8	ug/l
			Benzo(a)Anthracene	0.02	0.0095	ug/l
			Benzo(a)Pyrene	0.018	0.0095	ug/l
			Benzo(b)Fluoranthene	0.022	0.0095	ug/l
			Benzo(g,h,i)Perylene	0.025	0.0095	ug/l
			Benzo(j,k)Fluoranthene	0.016	0.0095	ug/l
			Benzyl alcohol	<0.95	0.95	ug/l
			Bis(2-Chloroethoxy) Methane	<0.95	0.95	ug/l
Bis(2-Chloroethyl) Ether	<0.95	0.95	ug/l			
Bis(2-Chloroisopropyl)ether	<0.95	0.95	ug/l			
Bis(2-Ethylhexyl) Phthalate	<0.95	0.95	ug/l			
Bis-2-Ethylhexyladipate	<0.95	0.95	ug/l			
Butyl Benzyl Phthalate	2.1	0.95	ug/l			
Carbazole	<0.95	0.95	ug/l			
Chrysene	0.025	0.0095	ug/l			

Table C-1B
Analytical Results for Tested Constituents in Groundwater
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Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure		
FAR2 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Dibenzo(a,h)Anthracene	0.01	0.0095	ug/l		
			Dibenzofuran	<0.95	0.95	ug/l		
			Diethylphthalate	<0.95	0.95	ug/l		
			Dimethylphthalate	<0.95	0.95	ug/l		
			Di-N-Butylphthalate	<0.95	0.95	ug/l		
			Di-N-Octyl Phthalate	<0.95	0.95	ug/l		
			Fluoranthene	<0.095	0.095	ug/l		
			Fluorene	<0.095	0.095	ug/l		
			Hexachlorobenzene	<0.95	0.95	ug/l		
			Hexachlorobutadiene	<0.95	0.95	ug/l		
			Hexachlorocyclopentadiene	<0.95	0.95	ug/l		
			Hexachloroethane	<0.95	0.95	ug/l		
			Indeno(1,2,3-cd)Pyrene	0.02	0.0095	ug/l		
			Isophorone	<0.95	0.95	ug/l		
			Naphthalene	<0.095	0.095	ug/l		
			Nitrobenzene	<0.95	0.95	ug/l		
			N-Nitrosodimethylamine	<0.95	0.95	ug/l		
			N-Nitroso-Di-N-Propylamine	<0.95	0.95	ug/l		
			N-Nitrosodiphenylamine	<0.95	0.95	ug/l		
			Pentachlorophenol	<4.8	4.8	ug/l		
			Phenanthrene	<0.095	0.095	ug/l		
			Phenol	<0.95	0.95	ug/l		
			Pyrene	<0.095	0.095	ug/l		
			Pyridine	<0.95	0.95	ug/l		
			Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<0.26	0.26	mg/l
					Heavy Oil-Range Organics	<0.42	0.42	mg/l
				NWTPH-GX	Gasoline-Range Organics	<100	100	ug/l
	Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.2	0.2	ug/l		
			1,1,1-Trichloroethane	<0.2	0.2	ug/l		
			1,1,2,2-Tetrachloroethane	<0.2	0.2	ug/l		
			1,1,2-Trichloroethane	<0.2	0.2	ug/l		
			1,1-Dichloroethane	<0.2	0.2	ug/l		
			1,1-Dichloroethene	<0.2	0.2	ug/l		
1,1-Dichloropropene			<0.2	0.2	ug/l			
1,2,3-Trichlorobenzene			<0.2	0.2	ug/l			
1,2,3-Trichloropropane			<0.2	0.2	ug/l			
1,2,4-Trichlorobenzene			<0.2	0.2	ug/l			
1,2,4-Trimethylbenzene			<0.2	0.2	ug/l			
1,2-Dibromo-3-chloropropane			<1	1	ug/l			
1,2-Dibromoethane			<0.2	0.2	ug/l			
1,2-Dichlorobenzene			<0.2	0.2	ug/l			
1,2-Dichloroethane			<0.2	0.2	ug/l			
1,2-Dichloropropane			<0.2	0.2	ug/l			

Table C-1B
Analytical Results for Tested Constituents in Groundwater
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Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR2 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	1,3,5-Trimethylbenzene	<0.2	0.2	ug/l
			1,3-Dichlorobenzene	<0.2	0.2	ug/l
			1,3-Dichloropropane	<0.2	0.2	ug/l
			1,4-Dichlorobenzene	<0.2	0.2	ug/l
			2,2-Dichloropropane	<0.2	0.2	ug/l
			2-Butanone (MEK)	<5	5	ug/l
			2-Chloroethyl Vinyl Ether	<1	1	ug/l
			2-Chlorotoluene	<0.2	0.2	ug/l
			2-Hexanone	<2	2	ug/l
			4-Chlorotoluene	<0.2	0.2	ug/l
			4-Methyl-2-Pentanone (MIBK)	<2	2	ug/l
			Acetone	<5	5	ug/l
			Benzene	<0.2	0.2	ug/l
			Bromobenzene	<0.2	0.2	ug/l
			Bromochloromethane	<0.2	0.2	ug/l
			Bromodichloromethane	<0.2	0.2	ug/l
			Bromoform	<1	1	ug/l
			Bromomethane	<0.2	0.2	ug/l
			Carbon Disulfide	<0.2	0.2	ug/l
			Carbon Tetrachloride	<0.2	0.2	ug/l
			Chlorobenzene	<0.2	0.2	ug/l
			Chloroethane	<1	1	ug/l
			Chloroform	<0.2	0.2	ug/l
			Chloromethane	<1	1	ug/l
			cis-1,2-Dichloroethene	<0.2	0.2	ug/l
			cis-1,3-Dichloropropene	<0.2	0.2	ug/l
			Dibromochloromethane	<0.2	0.2	ug/l
			Dibromomethane	<0.2	0.2	ug/l
			Dichlorodifluoromethane	<0.2	0.2	ug/l
			Ethylbenzene	<0.2	0.2	ug/l
Hexachlorobutadiene	<0.2	0.2	ug/l			
Iodomethane	<1	1	ug/l			
Isopropylbenzene	<0.2	0.2	ug/l			
m,p-Xylene	<0.4	0.4	ug/l			
Methyl T-Butyl Ether (MTBE)	<0.2	0.2	ug/l			
Methylene Chloride	<1	1	ug/l			

Table C-1B
Analytical Results for Tested Constituents in Groundwater
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Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR2 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Naphthalene	<1	1	ug/l
			N-Butylbenzene	<0.2	0.2	ug/l
			N-Propylbenzene	<0.2	0.2	ug/l
			o-Xylene	<0.2	0.2	ug/l
			p-Isopropyltoluene	<0.2	0.2	ug/l
			sec-Butylbenzene	<0.2	0.2	ug/l
			Styrene	<0.2	0.2	ug/l
			tert-Butylbenzene	<0.2	0.2	ug/l
			Tetrachloroethene (PCE)	<0.2	0.2	ug/l
			Toluene	<1	1	ug/l
			Trans-1,2-Dichloroethene	<0.2	0.2	ug/l
			Trans-1,3-Dichloropropene	<0.2	0.2	ug/l
			Trichloroethene (TCE)	<0.2	0.2	ug/l
			Trichlorofluoromethane	<0.2	0.2	ug/l
			Vinyl Acetate	<2	2	ug/l
Vinyl Chloride	<0.2	0.2	ug/l			
PA19	Metals	SW6020	Arsenic (dissolved)	<3	3	ug/l
			Cadmium (dissolved)	<4	4	ug/l
			Chromium (dissolved)	<10	10	ug/l
			Lead (dissolved)	<1	1	ug/l
		SW7470A	Mercury (dissolved)	<0.5	0.5	ug/l
	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<0.26	0.26	mg/l
			Heavy Oil-Range Organics	<0.41	0.41	mg/l
		NWTPH-GX	Gasoline-Range Organics	<100	100	ug/l
	Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.2	0.2	ug/l
			1,1,1-Trichloroethane	<0.2	0.2	ug/l
			1,1,2,2-Tetrachloroethane	<0.2	0.2	ug/l
			1,1,2-Trichloroethane	<0.2	0.2	ug/l
			1,1-Dichloroethane	<0.2	0.2	ug/l
			1,1-Dichloroethene	<0.2	0.2	ug/l
			1,1-Dichloropropene	<0.2	0.2	ug/l
1,2,3-Trichlorobenzene			<0.2	0.2	ug/l	
1,2,3-Trichloropropane			<0.2	0.2	ug/l	
1,2,4-Trichlorobenzene			<0.2	0.2	ug/l	
1,2,4-Trimethylbenzene			<0.2	0.2	ug/l	
1,2-Dibromo-3-chloropropane			<1	1	ug/l	
1,2-Dibromoethane			<0.2	0.2	ug/l	
1,2-Dichlorobenzene			<0.2	0.2	ug/l	
1,2-Dichloroethane			<0.2	0.2	ug/l	
1,2-Dichloropropane	<0.2	0.2	ug/l			
1,3,5-Trimethylbenzene	<0.2	0.2	ug/l			

Table C-1B
Analytical Results for Tested Constituents in Groundwater
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Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
PA19 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	1,3-Dichlorobenzene	<0.2	0.2	ug/l
			1,3-Dichloropropane	<0.2	0.2	ug/l
			1,4-Dichlorobenzene	<0.2	0.2	ug/l
			2,2-Dichloropropane	<0.2	0.2	ug/l
			2-Butanone (MEK)	<5	5	ug/l
			2-Chloroethyl Vinyl Ether	<1	1	ug/l
			2-Chlorotoluene	<0.2	0.2	ug/l
			2-Hexanone	<2	2	ug/l
			4-Chlorotoluene	<0.2	0.2	ug/l
			4-Methyl-2-Pentanone (MIBK)	<2	2	ug/l
			Acetone	<5	5	ug/l
			Benzene	<0.2	0.2	ug/l
			Bromobenzene	<0.2	0.2	ug/l
			Bromochloromethane	<0.2	0.2	ug/l
			Bromodichloromethane	<0.2	0.2	ug/l
			Bromoform	<1	1	ug/l
			Bromomethane	<0.2	0.2	ug/l
			Carbon Disulfide	<0.2	0.2	ug/l
			Carbon Tetrachloride	<0.2	0.2	ug/l
			Chlorobenzene	<0.2	0.2	ug/l
			Chloroethane	<1	1	ug/l
			Chloroform	<0.2	0.2	ug/l
			Chloromethane	<1	1	ug/l
			cis-1,2-Dichloroethene	<0.2	0.2	ug/l
			cis-1,3-Dichloropropene	<0.2	0.2	ug/l
			Dibromochloromethane	<0.2	0.2	ug/l
			Dibromomethane	<0.2	0.2	ug/l
			Dichlorodifluoromethane	<0.2	0.2	ug/l
			Ethylbenzene	<0.2	0.2	ug/l
			Hexachlorobutadiene	<0.2	0.2	ug/l
			Iodomethane	<1	1	ug/l
			Isopropylbenzene	<0.2	0.2	ug/l
m,p-Xylene	<0.4	0.4	ug/l			
Methyl T-Butyl Ether (MTBE)	<0.2	0.2	ug/l			
Methylene Chloride	<1	1	ug/l			
Naphthalene	<1	1	ug/l			
N-Butylbenzene	<0.2	0.2	ug/l			
N-Propylbenzene	<0.2	0.2	ug/l			
o-Xylene	<0.2	0.2	ug/l			
p-Isopropyltoluene	<0.2	0.2	ug/l			
sec-Butylbenzene	<0.2	0.2	ug/l			
Styrene	<0.2	0.2	ug/l			

Table C-1B
Analytical Results for Tested Constituents in Groundwater
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Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
PA19 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	tert-Butylbenzene	<0.2	0.2	ug/l
			Tetrachloroethene (PCE)	<0.2	0.2	ug/l
			Toluene	<1	1	ug/l
			Trans-1,2-Dichloroethene	<0.2	0.2	ug/l
			Trans-1,3-Dichloropropene	<0.2	0.2	ug/l
			Trichloroethene (TCE)	<0.2	0.2	ug/l
			Trichlorofluoromethane	<0.2	0.2	ug/l
			Vinyl Acetate	<2	2	ug/l
			Vinyl Chloride	<0.2	0.2	ug/l

NOTES:

Results in **bold** denote analyte was detected. See Table 7B.

If the result is less than (<) the laboratory reporting limit, the analyte was not detected.

< denotes analyte not detected at or above the laboratory reporting limit listed.

µg/l = micrograms per liter

mg/l = milligrams per liter

Table C-2A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 4
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical	Unit of
						Quantitation Limit		Measure
FAR3	12.5 - 13	Metals	SW6010B	Arsenic	<12	12	mg/kg
				Cadmium	<0.61	0.61	mg/kg
				Chromium	48	0.61	mg/kg
				Lead	<6.1	6.1	mg/kg
			SW7471A	Mercury	<0.31	0.31	mg/kg
		Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.041	0.041	mg/kg
				1,2-Dichlorobenzene	<0.041	0.041	mg/kg
				1,2-Dinitrobenzene	<0.041	0.041	mg/kg
				1,2-Diphenylhydrazine	<0.041	0.041	mg/kg
				1,3-Dichlorobenzene	<0.041	0.041	mg/kg
				1,3-Dinitrobenzene	<0.041	0.041	mg/kg
				1,4-Dichlorobenzene	<0.041	0.041	mg/kg
				1,4-Dinitrobenzene	<0.041	0.041	mg/kg
				1-Methylnaphthalene	<0.0082	0.0082	mg/kg
				2,3,4,6-Tetrachlorophenol	<0.041	0.041	mg/kg
				2,3,5,6-Tetrachlorophenol	<0.041	0.041	mg/kg
				2,3-Dichloroaniline	<0.041	0.041	mg/kg
				2,4,5-Trichlorophenol	<0.041	0.041	mg/kg
				2,4,6-Trichlorophenol	<0.041	0.041	mg/kg
				2,4-Dichlorophenol	<0.041	0.041	mg/kg
				2,4-Dimethylphenol	<0.41	0.41	mg/kg
				2,4-Dinitrophenol	<0.2	0.2	mg/kg
				2,4-Dinitrotoluene	<0.041	0.041	mg/kg
				2,6-Dinitrotoluene	<0.041	0.041	mg/kg
				2-Chloronaphthalene	<0.041	0.041	mg/kg
				2-Chlorophenol	<0.041	0.041	mg/kg
				2-Methylnaphthalene	<0.0082	0.0082	mg/kg
				2-Methylphenol (o-Cresol)	<0.041	0.041	mg/kg
				2-Nitroaniline	<0.041	0.041	mg/kg
				2-Nitrophenol	<0.041	0.041	mg/kg
				3,3'-Dichlorobenzidine	<0.41	0.41	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.041	0.041	mg/kg
				3-Nitroaniline	<0.041	0.041	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.2	0.2	mg/kg
				4-Bromophenyl Phenyl Ether	<0.041	0.041	mg/kg
				4-Chloro-3-Methylphenol	<0.041	0.041	mg/kg
				4-Chloroaniline	<0.041	0.041	mg/kg
				4-Chlorophenyl Phenylether	<0.041	0.041	mg/kg
				4-Nitroaniline	<0.041	0.041	mg/kg
		4-Nitrophenol	<0.041	0.041	mg/kg		
		Acenaphthene	<0.0082	0.0082	mg/kg		
		Acenaphthylene	<0.0082	0.0082	mg/kg		
		Aniline	<0.041	0.041	mg/kg		
		Anthracene	<0.0082	0.0082	mg/kg		
		Benzidine	<0.41	0.41	mg/kg		
		Benzo(a)Anthracene	<0.0082	0.0082	mg/kg		
		Benzo(a)Pyrene	<0.0082	0.0082	mg/kg		
		Benzo(b)Fluoranthene	<0.0082	0.0082	mg/kg		
		Benzo(g,h,i)Perylene	<0.0082	0.0082	mg/kg		
		Benzo(j,k)Fluoranthene	<0.0082	0.0082	mg/kg		
		Benzyl alcohol	<0.041	0.041	mg/kg		

Table C-2A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 4
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical	Unit of Measure
						Quantitation Limit	
FAR3 (continued)	12.5 - 13 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Bis(2-Chloroethoxy) Methane	<0.041	0.041	mg/kg
				Bis(2-Chloroethyl) Ether	<0.041	0.041	mg/kg
				Bis(2-Chloroisopropyl) ether	<0.041	0.041	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.041	0.041	mg/kg
				Bis-2-Ethylhexyladipate	<0.041	0.041	mg/kg
				Butyl Benzyl Phthalate	<0.41	0.41	mg/kg
				Carbazole	<0.041	0.041	mg/kg
				Chrysene	<0.0082	0.0082	mg/kg
				Dibenzo(a,h)Anthracene	<0.0082	0.0082	mg/kg
				Dibenzofuran	<0.041	0.041	mg/kg
				Diethylphthalate	<0.2	0.2	mg/kg
				Dimethylphthalate	<0.041	0.041	mg/kg
				Di-N-Butylphthalate	<0.41	0.41	mg/kg
				Di-N-Octyl Phthalate	<0.041	0.041	mg/kg
				Fluoranthene	<0.0082	0.0082	mg/kg
				Fluorene	<0.0082	0.0082	mg/kg
				Hexachlorobenzene	<0.041	0.041	mg/kg
				Hexachlorobutadiene	<0.041	0.041	mg/kg
				Hexachlorocyclopentadiene	<0.041	0.041	mg/kg
				Hexachloroethane	<0.041	0.041	mg/kg
				Indeno(1,2,3-cd)Pyrene	<0.0082	0.0082	mg/kg
				Isophorone	<0.041	0.041	mg/kg
				Naphthalene	<0.0082	0.0082	mg/kg
				Nitrobenzene	<0.041	0.041	mg/kg
				N-Nitrosodimethylamine	<0.041	0.041	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.041	0.041	mg/kg
				N-Nitrosodiphenylamine	<0.041	0.041	mg/kg
				Pentachlorophenol	<0.2	0.2	mg/kg
				Phenanthrene	<0.0082	0.0082	mg/kg
				Phenol	<0.041	0.041	mg/kg
				Pyrene	<0.0082	0.0082	mg/kg
				Pyridine	<0.41	0.41	mg/kg
				Total Petroleum Hydrocarbons		NWTPH-Dx	Diesel-Range Organics	<31	31	mg/kg
Heavy Oil-Range Organics	<61	61	mg/kg				
NWTPH-GX	Gasoline-Range Organics	<7	7			mg/kg	
Volatile Organic Compounds		EPA8021	Benzene	<0.02	0.02	mg/kg	
			Ethylbenzene	<0.07	0.07	mg/kg	
			m,p-Xylene	<0.07	0.07	mg/kg	
			o-Xylene	<0.07	0.07	mg/kg	
			Toluene	<0.07	0.07	mg/kg	

Table C-2A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 4
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical	Unit of Measure
						Quantitation Limit	
FAR3 (continued)	12.5 - 13 (continued)	Volatile Organic Compounds (continued)	SW8260	1,1,1,2-Tetrachloroethane	<0.0011	0.0011	mg/kg
				1,1,1-Trichloroethane	<0.0011	0.0011	mg/kg
				1,1,2,2-Tetrachloroethane	<0.0011	0.0011	mg/kg
				1,1,2-Trichloroethane	<0.0011	0.0011	mg/kg
				1,1-Dichloroethane	<0.0011	0.0011	mg/kg
				1,1-Dichloroethene	<0.0011	0.0011	mg/kg
				1,1-Dichloropropene	<0.0011	0.0011	mg/kg
				1,2,3-Trichlorobenzene	<0.0011	0.0011	mg/kg
				1,2,3-Trichloropropane	<0.0011	0.0011	mg/kg
				1,2,4-Trichlorobenzene	<0.0011	0.0011	mg/kg
				1,2,4-Trimethylbenzene	<0.0011	0.0011	mg/kg
				1,2-Dibromo-3-chloropropane	<0.0053	0.0053	mg/kg
				1,2-Dibromoethane	<0.0011	0.0011	mg/kg
				1,2-Dichlorobenzene	<0.0011	0.0011	mg/kg
				1,2-Dichloroethane	<0.0011	0.0011	mg/kg
				1,2-Dichloropropane	<0.0011	0.0011	mg/kg
				1,3,5-Trimethylbenzene	<0.0011	0.0011	mg/kg
				1,3-Dichlorobenzene	<0.0011	0.0011	mg/kg
				1,3-Dichloropropane	<0.0011	0.0011	mg/kg
				1,4-Dichlorobenzene	<0.0011	0.0011	mg/kg
				2,2-Dichloropropane	<0.0011	0.0011	mg/kg
				2-Butanone (MEK)	<0.0053	0.0053	mg/kg
				2-Chloroethyl Vinyl Ether	<0.0053	0.0053	mg/kg
				2-Chlorotoluene	<0.0011	0.0011	mg/kg
				2-Hexanone	<0.0053	0.0053	mg/kg
				4-Chlorotoluene	<0.0011	0.0011	mg/kg
				4-Methyl-2-Pentanone (MIBK)	<0.0053	0.0053	mg/kg
				Acetone	0.063	0.0053	mg/kg
				Benzene	<0.0011	0.0011	mg/kg
				Bromobenzene	<0.0011	0.0011	mg/kg
				Bromochloromethane	<0.0011	0.0011	mg/kg
				Bromodichloromethane	<0.0011	0.0011	mg/kg
				Bromoform	<0.0011	0.0011	mg/kg
				Bromomethane	<0.0011	0.0011	mg/kg
				Carbon Disulfide	0.0083	0.0053	mg/kg
				Carbon Tetrachloride	<0.0011	0.0011	mg/kg
				Chlorobenzene	<0.0011	0.0011	mg/kg
				Chloroethane	<0.0053	0.0053	mg/kg
				Chloroform	<0.0011	0.0011	mg/kg
				Chloromethane	<0.0053	0.0053	mg/kg
				cis-1,2-Dichloroethene	<0.0011	0.0011	mg/kg
				cis-1,3-Dichloropropene	<0.0011	0.0011	mg/kg
				Dibromochloromethane	<0.0011	0.0011	mg/kg
				Dibromomethane	<0.0011	0.0011	mg/kg
				Dichlorodifluoromethane	<0.0011	0.0011	mg/kg
				Ethylbenzene	<0.0011	0.0011	mg/kg
Hexachlorobutadiene	<0.0053	0.0053	mg/kg				
Iodomethane	<0.0053	0.0053	mg/kg				
Isopropylbenzene	<0.0011	0.0011	mg/kg				
m,p-Xylene	<0.0021	0.0021	mg/kg				

Table C-2A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 4
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure	
FAR3 (continued)	12.5 - 13 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Methyl T-Butyl Ether (MTBE)	<0.0011	0.0011	mg/kg	
				Methylene Chloride	<0.0053	0.0053	mg/kg	
				Naphthalene	<0.0011	0.0011	mg/kg	
				N-Butylbenzene	<0.0011	0.0011	mg/kg	
				N-Propylbenzene	<0.0011	0.0011	mg/kg	
				o-Xylene	<0.0011	0.0011	mg/kg	
				p-Isopropyltoluene	<0.0011	0.0011	mg/kg	
				sec-Butylbenzene	<0.0011	0.0011	mg/kg	
				Styrene	<0.0011	0.0011	mg/kg	
				tert-Butylbenzene	<0.0011	0.0011	mg/kg	
				Tetrachloroethene (PCE)	<0.0011	0.0011	mg/kg	
				Toluene	<0.0053	0.0053	mg/kg	
				Trans-1,2-Dichloroethene	<0.0011	0.0011	mg/kg	
				Trans-1,3-Dichloropropene	<0.0011	0.0011	mg/kg	
				Trichloroethene (TCE)	<0.0011	0.0011	mg/kg	
				Trichlorofluoromethane	<0.0011	0.0011	mg/kg	
				Vinyl Acetate	<0.0053	0.0053	mg/kg	
Vinyl Chloride	<0.0011	0.0011	mg/kg					
FAR4	4 - 4.5	Metal	SW6010B	Arsenic	<12	12	mg/kg	
				Cadmium	0.67	0.59	mg/kg	
				Chromium	52	0.59	mg/kg	
				Lead	400	5.9	mg/kg	
				SW7471A	Mercury	<0.3	0.3	mg/kg
		Pesticides	SW8081	4,4'-DDD	<12	12	ug/kg	
				4,4'-DDE	<12	12	ug/kg	
				4,4'-DDT	25	12	ug/kg	
				Aldrin	<5.9	5.9	ug/kg	
				Alpha-Bhc	<5.9	5.9	ug/kg	
				Alpha-Chlordane	<12	12	ug/kg	
				Beta-Bhc	<5.9	5.9	ug/kg	
				Delta-Bhc	<5.9	5.9	ug/kg	
				Dieldrin	<12	12	ug/kg	
				Endosulfan I	<5.9	5.9	ug/kg	
				Endosulfan II	<12	12	ug/kg	
				Endosulfan Sulfate	<12	12	ug/kg	
				Endrin	<12	12	ug/kg	
				Endrin Aldehyde	<12	12	ug/kg	
				Endrin Ketone	<12	12	ug/kg	
				Gamma-Bhc (Lindane)	<5.9	5.9	ug/kg	
				Gamma-Chlordane	<12	12	ug/kg	
				Heptachlor	<5.9	5.9	ug/kg	
				Heptachlor Epoxide	<5.9	5.9	ug/kg	
		Methoxychlor	<12	12	ug/kg			
		Toxaphene	<59	59	ug/kg			
		Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.059	0.059	mg/kg	
Aroclor 1221	<0.059			0.059	mg/kg			
Aroclor 1232	<0.059			0.059	mg/kg			
Aroclor 1242	<0.059			0.059	mg/kg			
Aroclor 1248	<0.059			0.059	mg/kg			
Aroclor 1254	<0.059			0.059	mg/kg			
Aroclor 1260	0.23			0.059	mg/kg			

Table C-2A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 4
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical	Unit of
						Quantitation Limit		Measure
FAR4 (continued)	4 - 4.5 (continued)	Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.2	0.2	mg/kg
				1,2-Dichlorobenzene	<0.2	0.2	mg/kg
				1,2-Dinitrobenzene	<0.2	0.2	mg/kg
				1,2-Diphenylhydrazine	<0.2	0.2	mg/kg
				1,3-Dichlorobenzene	<0.2	0.2	mg/kg
				1,3-Dinitrobenzene	<0.2	0.2	mg/kg
				1,4-Dichlorobenzene	<0.2	0.2	mg/kg
				1,4-Dinitrobenzene	<0.2	0.2	mg/kg
				1-Methylnaphthalene	0.0092	0.0079	mg/kg
				2,3,4,6-Tetrachlorophenol	<0.2	0.2	mg/kg
				2,3,5,6-Tetrachlorophenol	<0.2	0.2	mg/kg
				2,3-Dichloroaniline	<0.2	0.2	mg/kg
				2,4,5-Trichlorophenol	<0.2	0.2	mg/kg
				2,4,6-Trichlorophenol	<0.2	0.2	mg/kg
				2,4-Dichlorophenol	<0.2	0.2	mg/kg
				2,4-Dimethylphenol	<2	2	mg/kg
				2,4-Dinitrophenol	<0.99	0.99	mg/kg
				2,4-Dinitrotoluene	<0.2	0.2	mg/kg
				2,6-Dinitrotoluene	<0.2	0.2	mg/kg
				2-Chloronaphthalene	<0.2	0.2	mg/kg
				2-Chlorophenol	<0.2	0.2	mg/kg
				2-Methylnaphthalene	0.014	0.0079	mg/kg
				2-Methylphenol (o-Cresol)	<0.2	0.2	mg/kg
				2-Nitroaniline	<0.2	0.2	mg/kg
				2-Nitrophenol	<0.2	0.2	mg/kg
				3,3'-Dichlorobenzidine	<2	2	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.2	0.2	mg/kg
				3-Nitroaniline	<0.2	0.2	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.99	0.99	mg/kg
				4-Bromophenyl Phenyl Ether	<0.2	0.2	mg/kg
				4-Chloro-3-Methylphenol	<0.2	0.2	mg/kg
				4-Chloroaniline	<0.2	0.2	mg/kg
				4-Chlorophenyl Phenylether	<0.2	0.2	mg/kg
				4-Nitroaniline	<0.2	0.2	mg/kg
				4-Nitrophenol	<0.2	0.2	mg/kg
				Acenaphthene	0.011	0.0079	mg/kg
				Acenaphthylene	<0.0079	0.0079	mg/kg
				Aniline	<0.2	0.2	mg/kg
				Anthracene	0.014	0.0079	mg/kg
				Benzidine	<2	2	mg/kg
				Benzo(a)Anthracene	0.04	0.0079	mg/kg
				Benzo(a)Pyrene	0.041	0.0079	mg/kg
				Benzo(b)Fluoranthene	0.042	0.0079	mg/kg
				Benzo(g,h,i)Perylene	0.037	0.0079	mg/kg
				Benzo(j,k)Fluoranthene	0.029	0.0079	mg/kg
				Benzyl alcohol	<0.2	0.2	mg/kg
				Bis(2-Chloroethoxy) Methane	<0.2	0.2	mg/kg
Bis(2-Chloroethyl) Ether	<0.2	0.2	mg/kg				
Bis(2-Chloroisopropyl)ether	<0.2	0.2	mg/kg				
Bis(2-Ethylhexyl) Phthalate	<0.2	0.2	mg/kg				
Bis-2-Ethylhexyladipate	<0.2	0.2	mg/kg				
Butyl Benzyl Phthalate	<2	2	mg/kg				

Table C-2A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 4
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical	Unit of
						Quantitation Limit		Measure
FAR4 (continued)	4 - 4.5 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Carbazole	<0.2	0.2	mg/kg
				Chrysene	0.051	0.0079	mg/kg
				Dibenzo(a,h)Anthracene	0.01	0.0079	mg/kg
				Dibenzofuran	<0.2	0.2	mg/kg
				Diethylphthalate	<0.99	0.99	mg/kg
				Dimethylphthalate	<0.2	0.2	mg/kg
				Di-N-Butylphthalate	<2	2	mg/kg
				Di-N-Octyl Phthalate	<0.2	0.2	mg/kg
				Fluoranthene	0.083	0.0079	mg/kg
				Fluorene	0.012	0.0079	mg/kg
				Hexachlorobenzene	<0.2	0.2	mg/kg
				Hexachlorobutadiene	<0.2	0.2	mg/kg
				Hexachlorocyclopentadiene	<0.2	0.2	mg/kg
				Hexachloroethane	<0.2	0.2	mg/kg
				Indeno(1,2,3-cd)Pyrene	0.025	0.0079	mg/kg
				Isophorone	<0.2	0.2	mg/kg
				Naphthalene	0.02	0.0079	mg/kg
				Nitrobenzene	<0.2	0.2	mg/kg
				N-Nitrosodimethylamine	<0.2	0.2	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.2	0.2	mg/kg
				N-Nitrosodiphenylamine	<0.2	0.2	mg/kg
				Pentachlorophenol	<0.99	0.99	mg/kg
				Phenanthrene	0.068	0.0079	mg/kg
				Phenol	<0.2	0.2	mg/kg
				Pyrene	0.071	0.0079	mg/kg
				Pyridine	<2	2	mg/kg
				Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	39	30	mg/kg
Lube Oil	180	60	mg/kg				
Total Petroleum Hydrocarbons	NWTPH-GX	Gasoline-Range Organics	<6.1	6.1	mg/kg		
		Volatile Organic Compounds	EPA8021	Benzene	<0.02	0.02	mg/kg
9 - 9.5	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<31	31	mg/kg	
			Heavy Oil-Range Organics	<63	63	mg/kg	
			Ethylbenzene	<0.061	0.061	mg/kg	
			m,p-Xylene	<0.061	0.061	mg/kg	
			o-Xylene	<0.061	0.061	mg/kg	
Toluene	<0.061	0.061	mg/kg				

Table C-2A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 4
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical	Unit of Measure
						Quantitation Limit	
FAR5	0.5 - 1	Metals	SW6010B	Arsenic	<16	16	mg/kg
				Cadmium	<0.82	0.82	mg/kg
				Chromium	27	0.82	mg/kg
				Lead	9.9	8.2	mg/kg
			SW7471A	Mercury	<0.41	0.41	mg/kg
		Pesticides	SW8081	4,4'-DDD	<16	16	ug/kg
				4,4'-DDE	<16	16	ug/kg
				4,4'-DDT	<16	16	ug/kg
				Aldrin	<8.2	8.2	ug/kg
				Alpha-Bhc	<8.2	8.2	ug/kg
				Alpha-Chlordane	<16	16	ug/kg
				Beta-Bhc	11	8.2	ug/kg
				Delta-Bhc	<8.2	8.2	ug/kg
				Dieldrin	<16	16	ug/kg
				Endosulfan I	<8.2	8.2	ug/kg
				Endosulfan II	<16	16	ug/kg
				Endosulfan Sulfate	<16	16	ug/kg
				Endrin	<16	16	ug/kg
				Endrin Aldehyde	<16	16	ug/kg
				Endrin Ketone	<16	16	ug/kg
				Gamma-Bhc (Lindane)	<8.2	8.2	ug/kg
				Gamma-Chlordane	<16	16	ug/kg
				Heptachlor	<8.2	8.2	ug/kg
				Heptachlor Epoxide	<8.2	8.2	ug/kg
				Methoxychlor	<16	16	ug/kg
		Toxaphene	<82	82	ug/kg		
		Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.082	0.082	mg/kg
				Aroclor 1221	<0.082	0.082	mg/kg
				Aroclor 1232	<0.082	0.082	mg/kg
				Aroclor 1242	<0.082	0.082	mg/kg
				Aroclor 1248	<0.082	0.082	mg/kg
				Aroclor 1254	<0.082	0.082	mg/kg
Aroclor 1260	<0.082			0.082	mg/kg		
Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.055	0.055	mg/kg		
		1,2-Dichlorobenzene	<0.055	0.055	mg/kg		
		1,2-Dinitrobenzene	<0.055	0.055	mg/kg		
		1,2-Diphenylhydrazine	<0.055	0.055	mg/kg		
		1,3-Dichlorobenzene	<0.055	0.055	mg/kg		
		1,3-Dinitrobenzene	<0.055	0.055	mg/kg		
		1,4-Dichlorobenzene	<0.055	0.055	mg/kg		
		1,4-Dinitrobenzene	<0.055	0.055	mg/kg		
		1-Methylnaphthalene	<0.011	0.011	mg/kg		
		2,3,4,6-Tetrachlorophenol	<0.055	0.055	mg/kg		
		2,3,5,6-Tetrachlorophenol	<0.055	0.055	mg/kg		
		2,3-Dichloroaniline	<0.055	0.055	mg/kg		
		2,4,5-Trichlorophenol	<0.055	0.055	mg/kg		
		2,4,6-Trichlorophenol	<0.055	0.055	mg/kg		
		2,4-Dichlorophenol	<0.055	0.055	mg/kg		

Table C-2A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 4
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical	Unit of Measure
						Quantitation Limit	
FAR5 (continued)	0.5 - 1 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	2,4-Dimethylphenol	<0.55	0.55	mg/kg
				2,4-Dinitrophenol	<0.27	0.27	mg/kg
				2,4-Dinitrotoluene	<0.055	0.055	mg/kg
				2,6-Dinitrotoluene	<0.055	0.055	mg/kg
				2-Chloronaphthalene	<0.055	0.055	mg/kg
				2-Chlorophenol	<0.055	0.055	mg/kg
				2-Methylnaphthalene	<0.011	0.011	mg/kg
				2-Methylphenol (o-Cresol)	<0.055	0.055	mg/kg
				2-Nitroaniline	<0.055	0.055	mg/kg
				2-Nitrophenol	<0.055	0.055	mg/kg
				3,3`-Dichlorobenzidine	<0.55	0.55	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.055	0.055	mg/kg
				3-Nitroaniline	<0.055	0.055	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.27	0.27	mg/kg
				4-Bromophenyl Phenyl Ether	<0.055	0.055	mg/kg
				4-Chloro-3-Methylphenol	<0.055	0.055	mg/kg
				4-Chloroaniline	<0.055	0.055	mg/kg
				4-Chlorophenyl Phenylether	<0.055	0.055	mg/kg
				4-Nitroaniline	<0.055	0.055	mg/kg
				4-Nitrophenol	<0.055	0.055	mg/kg
				Acenaphthene	<0.011	0.011	mg/kg
				Acenaphthylene	<0.011	0.011	mg/kg
				Aniline	<0.055	0.055	mg/kg
				Anthracene	<0.011	0.011	mg/kg
				Benzidine	<0.55	0.55	mg/kg
				Benzo(a)Anthracene	<0.011	0.011	mg/kg
				Benzo(a)Pyrene	0.016	0.011	mg/kg
				Benzo(b)Fluoranthene	0.016	0.011	mg/kg
				Benzo(g,h,i)Perylene	0.017	0.011	mg/kg
				Benzo(j,k)Fluoranthene	0.015	0.011	mg/kg
				Benzyl alcohol	<0.055	0.055	mg/kg
				Bis(2-Chloroethoxy) Methane	<0.055	0.055	mg/kg
				Bis(2-Chloroethyl) Ether	<0.055	0.055	mg/kg
				Bis(2-Chloroisopropyl)ether	<0.055	0.055	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.055	0.055	mg/kg
				Bis-2-Ethylhexyladipate	<0.055	0.055	mg/kg
				Butyl Benzyl Phthalate	<0.55	0.55	mg/kg
				Carbazole	<0.055	0.055	mg/kg
				Chrysene	0.016	0.011	mg/kg
				Dibenzo(a,h)Anthracene	<0.011	0.011	mg/kg
				Dibenzofuran	<0.055	0.055	mg/kg
				Diethylphthalate	<0.27	0.27	mg/kg
Dimethylphthalate	<0.055	0.055	mg/kg				
Di-N-Butylphthalate	<0.55	0.55	mg/kg				
Di-N-Octyl Phthalate	<0.055	0.055	mg/kg				
Fluoranthene	0.022	0.011	mg/kg				
Fluorene	<0.011	0.011	mg/kg				
Hexachlorobenzene	<0.055	0.055	mg/kg				
Hexachlorobutadiene	<0.055	0.055	mg/kg				
Hexachlorocyclopentadiene	<0.055	0.055	mg/kg				
Hexachloroethane	<0.055	0.055	mg/kg				

Table C-2A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 4
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR5 (continued)	0.5 - 1 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Indeno(1,2,3-cd)Pyrene	0.013	0.011	mg/kg
				Isophorone	<0.055	0.055	mg/kg
				Naphthalene	<0.011	0.011	mg/kg
				Nitrobenzene	<0.055	0.055	mg/kg
				N-Nitrosodimethylamine	<0.055	0.055	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.055	0.055	mg/kg
				N-Nitrosodiphenylamine	<0.055	0.055	mg/kg
				Pentachlorophenol	<0.27	0.27	mg/kg
				Phenanthrene	0.011	0.011	mg/kg
				Phenol	<0.055	0.055	mg/kg
		Pyrene	0.019	0.011	mg/kg		
		Pyridine	<0.55	0.55	mg/kg		
		Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<41	41	mg/kg
				Heavy Oil-Range Organics	<82	82	mg/kg
		Volatile Organic Compounds	EPA8021	Benzene	<0.022	0.022	mg/kg
Ethylbenzene	<0.11			0.11	mg/kg		
m,p-Xylene	<0.11			0.11	mg/kg		
o-Xylene	<0.11			0.11	mg/kg		
Toluene	<0.11			0.11	mg/kg		

NOTES:

Results in **bold** denote analyte was detected. See Table 7A.

If the result is less than (<) the laboratory reporting limit, the analyte was not detected.

< denotes analyte not detected at or above the laboratory reporting limit listed.

bgs = below ground surface

µg/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

Table C-2B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 4
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR3	Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<1	1	ug/l
			1,2-Dichlorobenzene	<1	1	ug/l
			1,2-Dinitrobenzene	<1	1	ug/l
			1,2-Diphenylhydrazine	<1	1	ug/l
			1,3-Dichlorobenzene	<1	1	ug/l
			1,3-Dinitrobenzene	<1	1	ug/l
			1,4-Dichlorobenzene	<1	1	ug/l
			1,4-Dinitrobenzene	<1	1	ug/l
			1-Methylnaphthalene	<0.1	0.1	ug/l
			2,3,4,6-Tetrachlorophenol	<1	1	ug/l
			2,3,5,6-Tetrachlorophenol	<1	1	ug/l
			2,3-Dichloroaniline	<1	1	ug/l
			2,4,5-Trichlorophenol	<1	1	ug/l
			2,4,6-Trichlorophenol	<1	1	ug/l
			2,4-Dichlorophenol	<1	1	ug/l
			2,4-Dimethylphenol	<1	1	ug/l
			2,4-Dinitrophenol	<5	5	ug/l
			2,4-Dinitrotoluene	<1	1	ug/l
			2,6-Dinitrotoluene	<1	1	ug/l
			2-Chloronaphthalene	<1	1	ug/l
			2-Chlorophenol	<1	1	ug/l
			2-Methylnaphthalene	<0.1	0.1	ug/l
			2-Methylphenol (o-Cresol)	<1	1	ug/l
			2-Nitroaniline	<1	1	ug/l
			2-Nitrophenol	<1	1	ug/l
			3,3'-Dichlorobenzidine	<1	1	ug/l
			3,4-Methylphenol(m,p-Cresol)	<1	1	ug/l
			3-Nitroaniline	<1	1	ug/l
			4,6-Dinitro-2-Methylphenol	<5	5	ug/l
			4-Bromophenyl Phenyl Ether	<1	1	ug/l
			4-Chloro-3-Methylphenol	<1	1	ug/l
			4-Chloroaniline	<1	1	ug/l
			4-Chlorophenyl Phenylether	<1	1	ug/l
			4-Nitroaniline	<1	1	ug/l
4-Nitrophenol	<1	1	ug/l			
Acenaphthene	<0.1	0.1	ug/l			
Acenaphthylene	<0.1	0.1	ug/l			
Aniline	<5	5	ug/l			
Anthracene	<0.1	0.1	ug/l			

Table C-2B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 4
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR3 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Benzidine	<5	5	ug/l
			Benzo(a)Anthracene	<0.01	0.01	ug/l
			Benzo(a)Pyrene	<0.01	0.01	ug/l
			Benzo(b)Fluoranthene	<0.01	0.01	ug/l
			Benzo(g,h,i)Perylene	<0.01	0.01	ug/l
			Benzo(j,k)Fluoranthene	<0.01	0.01	ug/l
			Benzyl alcohol	<1	1	ug/l
			Bis(2-Chloroethoxy) Methane	<1	1	ug/l
			Bis(2-Chloroethyl) Ether	<1	1	ug/l
			Bis(2-Chloroisopropyl)ether	<1	1	ug/l
			Bis(2-Ethylhexyl) Phthalate	<1	1	ug/l
			Bis-2-Ethylhexyladipate	<1	1	ug/l
			Butyl Benzyl Phthalate	<1	1	ug/l
			Carbazole	<1	1	ug/l
			Chrysene	<0.01	0.01	ug/l
			Dibenzo(a,h)Anthracene	<0.01	0.01	ug/l
			Dibenzofuran	<1	1	ug/l
			Diethylphthalate	<1	1	ug/l
			Dimethylphthalate	<1	1	ug/l
			Di-N-Butylphthalate	<1	1	ug/l
			Di-N-Octyl Phthalate	<1	1	ug/l
			Fluoranthene	<0.1	0.1	ug/l
			Fluorene	<0.1	0.1	ug/l
			Hexachlorobenzene	<1	1	ug/l
			Hexachlorobutadiene	<1	1	ug/l
			Hexachlorocyclopentadiene	<1	1	ug/l
			Hexachloroethane	<1	1	ug/l
			Indeno(1,2,3-cd)Pyrene	<0.01	0.01	ug/l
			Isophorone	<1	1	ug/l
			Naphthalene	<0.1	0.1	ug/l
			Nitrobenzene	<1	1	ug/l
			N-Nitrosodimethylamine	<1	1	ug/l
			N-Nitroso-Di-N-Propylamine	<1	1	ug/l
			N-Nitrosodiphenylamine	<1	1	ug/l
			Pentachlorophenol	<5	5	ug/l
			Phenanthrene	<0.1	0.1	ug/l
			Phenol	<1	1	ug/l
			Pyrene	<0.1	0.1	ug/l
			Pyridine	<1	1	ug/l

Table C-2B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 4
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR3 (continued)	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<0.26	0.26	mg/l
			Heavy Oil-Range Organics	<0.42	0.42	mg/l
		NWTPH-GX	Gasoline-Range Organics	<100	100	ug/l
	Volatile Organic Compounds	EPA8021	Benzene	<1	1	ug/l
			Ethylbenzene	<1	1	ug/l
			m,p-Xylene	<1	1	ug/l
			o-Xylene	<1	1	ug/l
		Toluene	<1	1	ug/l	

NOTES:

Results in **bold** denote analyte was detected. See Table 7B.

If the result is less than (<) the laboratory reporting limit, the analyte was not detected.

< denotes analyte not detected at or above the laboratory reporting limit listed.

µg/l = micrograms per liter

mg/l = milligrams per liter

Table C-3
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 6
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR6	0.5 - 1	Metals	SW6010B	Arsenic	<12	12	mg/kg
				Cadmium	<0.62	0.62	mg/kg
				Chromium	44	0.62	mg/kg
				Lead	140	6.2	mg/kg
				Mercury	<0.31	0.31	mg/kg
		Pesticides	SW8081	4,4'-DDD	<12	12	ug/kg
				4,4'-DDE	<12	12	ug/kg
				4,4'-DDT	12	12	ug/kg
				Aldrin	<6.2	6.2	ug/kg
				Alpha-Bhc	<6.2	6.2	ug/kg
				Alpha-Chlordane	<12	12	ug/kg
				Beta-Bhc	<6.2	6.2	ug/kg
				Delta-Bhc	<6.2	6.2	ug/kg
				Dieldrin	<12	12	ug/kg
				Endosulfan I	<6.2	6.2	ug/kg
				Endosulfan II	<12	12	ug/kg
				Endosulfan Sulfate	<12	12	ug/kg
				Endrin	<12	12	ug/kg
				Endrin Aldehyde	<12	12	ug/kg
				Endrin Ketone	<12	12	ug/kg
				Gamma-Bhc (Lindane)	<6.2	6.2	ug/kg
				Gamma-Chlordane	<12	12	ug/kg
				Heptachlor	<6.2	6.2	ug/kg
				Heptachlor Epoxide	<6.2	6.2	ug/kg
				Methoxychlor	<12	12	ug/kg
		Toxaphene	<6.2	6.2	ug/kg		
		Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.062	0.062	mg/kg
				Aroclor 1221	<0.062	0.062	mg/kg
				Aroclor 1232	<0.062	0.062	mg/kg
				Aroclor 1242	<0.062	0.062	mg/kg
				Aroclor 1248	<0.062	0.062	mg/kg
				Aroclor 1254	<0.062	0.062	mg/kg
				Aroclor 1260	0.21	0.062	mg/kg
Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.21	0.21	mg/kg		
		1,2-Dichlorobenzene	<0.21	0.21	mg/kg		
		1,2-Dinitrobenzene	<0.21	0.21	mg/kg		
		1,2-Diphenylhydrazine	<0.21	0.21	mg/kg		
		1,3-Dichlorobenzene	<0.21	0.21	mg/kg		
		1,3-Dinitrobenzene	<0.21	0.21	mg/kg		
		1,4-Dichlorobenzene	<0.21	0.21	mg/kg		
		1,4-Dinitrobenzene	<0.21	0.21	mg/kg		
		1-Methylnaphthalene	0.022	0.0082	mg/kg		
		2,3,4,6-Tetrachlorophenol	<0.21	0.21	mg/kg		
		2,3,5,6-Tetrachlorophenol	<0.21	0.21	mg/kg		

Table C-3
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 6
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR6 (continued)	0.5 - 1 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	2,3-Dichloroaniline	<0.21	0.21	mg/kg
				2,4,5-Trichlorophenol	<0.21	0.21	mg/kg
				2,4,6-Trichlorophenol	<0.21	0.21	mg/kg
				2,4-Dichlorophenol	<0.21	0.21	mg/kg
				2,4-Dimethylphenol	<2.1	2.1	mg/kg
				2,4-Dinitrophenol	<1	1	mg/kg
				2,4-Dinitrotoluene	<0.21	0.21	mg/kg
				2,6-Dinitrotoluene	<0.21	0.21	mg/kg
				2-Chloronaphthalene	<0.21	0.21	mg/kg
				2-Chlorophenol	<0.21	0.21	mg/kg
				2-Methylnaphthalene	0.028	0.0082	mg/kg
				2-Methylphenol (o-Cresol)	<0.21	0.21	mg/kg
				2-Nitroaniline	<0.21	0.21	mg/kg
				2-Nitrophenol	<0.21	0.21	mg/kg
				3,3'-Dichlorobenzidine	<2.1	2.1	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.21	0.21	mg/kg
				3-Nitroaniline	<0.21	0.21	mg/kg
				4,6-Dinitro-2-Methylphenol	<1	1	mg/kg
				4-Bromophenyl Phenyl Ether	<0.21	0.21	mg/kg
				4-Chloro-3-Methylphenol	<0.21	0.21	mg/kg
				4-Chloroaniline	<0.21	0.21	mg/kg
				4-Chlorophenyl Phenylether	<0.21	0.21	mg/kg
				4-Nitroaniline	<0.21	0.21	mg/kg
				4-Nitrophenol	<0.21	0.21	mg/kg
				Acenaphthene	0.17	0.0082	mg/kg
				Acenaphthylene	0.048	0.0082	mg/kg
				Aniline	<0.21	0.21	mg/kg
				Anthracene	0.4	0.21	mg/kg
				Benzidine	<2.1	2.1	mg/kg
				Benzo(a)Anthracene	0.95	0.21	mg/kg
				Benzo(a)Pyrene	1.2	0.21	mg/kg
				Benzo(b)Fluoranthene	1.1	0.21	mg/kg
				Benzo(g,h,i)Perylene	0.78	0.21	mg/kg
				Benzo(j,k)Fluoranthene	1.2	0.21	mg/kg
				Benzyl alcohol	<0.21	0.21	mg/kg
				Bis(2-Chloroethoxy) Methane	<0.21	0.21	mg/kg
				Bis(2-Chloroethyl) Ether	<0.21	0.21	mg/kg
				Bis(2-Chloroisopropyl)ether	<0.21	0.21	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.21	0.21	mg/kg
				Bis-2-Ethylhexyladipate	<0.21	0.21	mg/kg
				Butyl Benzyl Phthalate	<2.1	2.1	mg/kg
				Carbazole	0.44	0.21	mg/kg
Chrysene	1.3	0.21	mg/kg				
Dibenzo(a,h)Anthracene	0.26	0.21	mg/kg				
Dibenzofuran	<0.21	0.21	mg/kg				
Diethylphthalate	<1	1	mg/kg				
Dimethylphthalate	<0.21	0.21	mg/kg				
Di-N-Butylphthalate	<2.1	2.1	mg/kg				
Di-N-Octyl Phthalate	<0.21	0.21	mg/kg				
Fluoranthene	3	0.21	mg/kg				
Fluorene	0.17	0.0082	mg/kg				

Table C-3
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 6
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR6 (continued)	0.5 - 1 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Hexachlorobenzene	<0.21	0.21	mg/kg
				Hexachlorobutadiene	<0.21	0.21	mg/kg
				Hexachlorocyclopentadiene	<0.21	0.21	mg/kg
				Hexachloroethane	<0.21	0.21	mg/kg
				Indeno(1,2,3-cd)Pyrene	0.79	0.21	mg/kg
				Isophorone	<0.21	0.21	mg/kg
				Naphthalene	0.052	0.0082	mg/kg
				Nitrobenzene	<0.21	0.21	mg/kg
				N-Nitrosodimethylamine	<0.21	0.21	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.21	0.21	mg/kg
				N-Nitrosodiphenylamine	<0.21	0.21	mg/kg
				Pentachlorophenol	<1	1	mg/kg
				Phenanthrene	2.5	0.21	mg/kg
				Phenol	<0.21	0.21	mg/kg
				Pyrene	2.6	0.21	mg/kg
				Pyridine	<2.1	2.1	mg/kg
				Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<42	42	mg/kg
Lube Oil	370	62	mg/kg				
Volatile Organic Compounds	EPA8021	Benzene	<0.02	0.02	mg/kg		
		Ethylbenzene	<0.073	0.073	mg/kg		
Metals	SW6010B	m,p-Xylene	<0.073	0.073	mg/kg		
		o-Xylene	<0.073	0.073	mg/kg		
		Toluene	<0.073	0.073	mg/kg		
		Arsenic	<10	10	mg/kg		
		Cadmium	<0.52	0.52	mg/kg		
Pesticides	SW7471A	Chromium	28	0.52	mg/kg		
		Lead	27	5.2	mg/kg		
FAR7	2.5 - 3	Pesticides	Mercury	<0.26	0.26	mg/kg	
			SW8081	4,4'-DDD	<10	10	ug/kg
			4,4'-DDE	<10	10	ug/kg	
			4,4'-DDT	<10	10	ug/kg	
			Aldrin	<5.2	5.2	ug/kg	
			Alpha-Bhc	<5.2	5.2	ug/kg	
			Alpha-Chlordane	<10	10	ug/kg	
			Beta-Bhc	<5.2	5.2	ug/kg	
			Delta-Bhc	<5.2	5.2	ug/kg	
			Dieldrin	<10	10	ug/kg	
			Endosulfan I	<5.2	5.2	ug/kg	
			Endosulfan II	<10	10	ug/kg	
			Endosulfan Sulfate	<10	10	ug/kg	
			Endrin	<10	10	ug/kg	
			Endrin Aldehyde	<10	10	ug/kg	
			Endrin Ketone	<10	10	ug/kg	
			Gamma-Bhc (Lindane)	<5.2	5.2	ug/kg	
			Gamma-Chlordane	<10	10	ug/kg	
			Heptachlor	<5.2	5.2	ug/kg	
			Heptachlor Epoxide	<5.2	5.2	ug/kg	
Methoxychlor	<10	10	ug/kg				
Toxaphene	<52	52	ug/kg				

Table C-3
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 6
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure	
FAR7 (continued)	2.5 - 3 (continued)	Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.052	0.052	mg/kg	
				Aroclor 1221	<0.052	0.052	mg/kg	
				Aroclor 1232	<0.052	0.052	mg/kg	
				Aroclor 1242	<0.052	0.052	mg/kg	
				Aroclor 1248	<0.052	0.052	mg/kg	
				Aroclor 1254	<0.052	0.052	mg/kg	
				Aroclor 1260	0.26	0.052	mg/kg	
		Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<26	26	mg/kg	
				Lube Oil	120	52	mg/kg	
			NWTPH-GX	Gasoline-Range Organics	<7.7	7.7	mg/kg	
		Volatile Organic Compounds		EPA8021	Benzene	<0.02	0.02	mg/kg
					Ethylbenzene	<0.077	0.077	mg/kg
					m,p-Xylene	<0.077	0.077	mg/kg
					o-Xylene	<0.077	0.077	mg/kg
					Toluene	<0.077	0.077	mg/kg
				SW8260	1,1,1,2-Tetrachloroethane	<0.0016	0.0016	mg/kg
					1,1,1-Trichloroethane	<0.0016	0.0016	mg/kg
					1,1,2,2-Tetrachloroethane	<0.0016	0.0016	mg/kg
					1,1,2-Trichloroethane	<0.0016	0.0016	mg/kg
					1,1-Dichloroethane	<0.0016	0.0016	mg/kg
					1,1-Dichloroethene	<0.0016	0.0016	mg/kg
					1,1-Dichloropropene	<0.0016	0.0016	mg/kg
					1,2,3-Trichlorobenzene	<0.0016	0.0016	mg/kg
					1,2,3-Trichloropropane	<0.0016	0.0016	mg/kg
					1,2,4-Trichlorobenzene	<0.0016	0.0016	mg/kg
					1,2,4-Trimethylbenzene	<0.0016	0.0016	mg/kg
					1,2-Dibromo-3-chloropropane	<0.0082	0.0082	mg/kg
1,2-Dibromoethane	<0.0016				0.0016	mg/kg		
1,2-Dichlorobenzene	<0.0016				0.0016	mg/kg		
1,2-Dichloroethane	<0.0016				0.0016	mg/kg		
1,2-Dichloropropane	<0.0016				0.0016	mg/kg		
1,3,5-Trimethylbenzene	<0.0016				0.0016	mg/kg		
1,3-Dichlorobenzene	<0.0016				0.0016	mg/kg		
1,3-Dichloropropane	<0.0016				0.0016	mg/kg		
1,4-Dichlorobenzene	<0.0016				0.0016	mg/kg		
2,2-Dichloropropane	<0.0016				0.0016	mg/kg		
2-Butanone (MEK)	<0.0082				0.0082	mg/kg		
2-Chloroethyl Vinyl Ether	<0.0082	0.0082	mg/kg					
2-Chlorotoluene	<0.0016	0.0016	mg/kg					
2-Hexanone	<0.0082	0.0082	mg/kg					
4-Chlorotoluene	<0.0016	0.0016	mg/kg					
4-Methyl-2-Pentanone (MIBK)	<0.0082	0.0082	mg/kg					
Acetone	0.07	0.0082	mg/kg					
Benzene	0.0026	0.0016	mg/kg					
Bromobenzene	<0.0016	0.0016	mg/kg					
Bromochloromethane	<0.0016	0.0016	mg/kg					
Bromodichloromethane	<0.0016	0.0016	mg/kg					
Bromoform	<0.0016	0.0016	mg/kg					
Bromomethane	<0.0016	0.0016	mg/kg					

Table C-3
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 6
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure		
FAR7 (continued)	2.5 - 3 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Carbon Disulfide	<0.0082	0.0082	mg/kg		
				Carbon Tetrachloride	<0.0016	0.0016	mg/kg		
				Chlorobenzene	<0.0016	0.0016	mg/kg		
				Chloroethane	<0.0082	0.0082	mg/kg		
				Chloroform	<0.0016	0.0016	mg/kg		
				Chloromethane	<0.0082	0.0082	mg/kg		
				cis-1,2-Dichloroethene	<0.0016	0.0016	mg/kg		
				cis-1,3-Dichloropropene	<0.0016	0.0016	mg/kg		
				Dibromochloromethane	<0.0016	0.0016	mg/kg		
				Dibromomethane	<0.0016	0.0016	mg/kg		
				Dichlorodifluoromethane	<0.0016	0.0016	mg/kg		
				Ethylbenzene	<0.0016	0.0016	mg/kg		
				Hexachlorobutadiene	<0.0082	0.0082	mg/kg		
				Iodomethane	<0.0082	0.0082	mg/kg		
				Isopropylbenzene	<0.0016	0.0016	mg/kg		
				m,p-Xylene	<0.0033	0.0033	mg/kg		
				Methyl T-Butyl Ether (MTBE)	<0.0016	0.0016	mg/kg		
				Methylene Chloride	<0.0082	0.0082	mg/kg		
				Naphthalene	<0.0016	0.0016	mg/kg		
				N-Butylbenzene	<0.0016	0.0016	mg/kg		
				N-Propylbenzene	<0.0016	0.0016	mg/kg		
				o-Xylene	<0.0016	0.0016	mg/kg		
				p-Isopropyltoluene	<0.0016	0.0016	mg/kg		
				sec-Butylbenzene	<0.0016	0.0016	mg/kg		
				Styrene	<0.0016	0.0016	mg/kg		
				tert-Butylbenzene	<0.0016	0.0016	mg/kg		
				Tetrachloroethene (PCE)	<0.0016	0.0016	mg/kg		
				Toluene	<0.0082	0.0082	mg/kg		
				Trans-1,2-Dichloroethene	<0.0016	0.0016	mg/kg		
				Trans-1,3-Dichloropropene	<0.0016	0.0016	mg/kg		
				Trichloroethene (TCE)	<0.0016	0.0016	mg/kg		
				Trichlorofluoromethane	<0.0016	0.0016	mg/kg		
				Vinyl Acetate	<0.0082	0.0082	mg/kg		
Vinyl Chloride	<0.0016	0.0016	mg/kg						
	6 - 6.5	Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.053	0.053	mg/kg		
				Aroclor 1221	<0.053	0.053	mg/kg		
				Aroclor 1232	<0.053	0.053	mg/kg		
				Aroclor 1242	<0.053	0.053	mg/kg		
				Aroclor 1248	<0.053	0.053	mg/kg		
				Aroclor 1254	<0.053	0.053	mg/kg		
				Aroclor 1260	<0.053	0.053	mg/kg		
				Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	31	27	mg/kg
						Heavy Oil Range Organics	150	53	mg/kg

Table C-3
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure	
FAR8	5 - 5.5	Metals	SW6010B	Arsenic	<12	12	mg/kg	
				Cadmium	<0.58	0.58	mg/kg	
				Chromium	35	0.58	mg/kg	
				Lead	40	5.8	mg/kg	
				Mercury	<0.29	0.29	mg/kg	
		Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	51	29	mg/kg	
				Lube Oil	290	58	mg/kg	
		Volatile Organic Compounds	EPA8021	Gasoline-Range Organics	Gasoline-Range Organics	<8.8	8.8	mg/kg
					Benzene	<0.02	0.02	mg/kg
					Ethylbenzene	<0.088	0.088	mg/kg
m,p-Xylene	<0.088				0.088	mg/kg		
o-Xylene	<0.088				0.088	mg/kg		
Toluene	<0.088	0.088	mg/kg					
11 - 11.5	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<27	27	mg/kg		
			Lube Oil	59	54	mg/kg		
FAR9	2.5 - 3	Metals	SW6010B	Arsenic	<12	12	mg/kg	
				Cadmium	<0.58	0.58	mg/kg	
				Chromium	52	0.58	mg/kg	
				Lead	460	5.8	mg/kg	
				Mercury	<0.29	0.29	mg/kg	
		Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.039	0.039	mg/kg	
				1,2-Dichlorobenzene	<0.039	0.039	mg/kg	
				1,2-Dinitrobenzene	<0.039	0.039	mg/kg	
				1,2-Diphenylhydrazine	<0.039	0.039	mg/kg	
				1,3-Dichlorobenzene	<0.039	0.039	mg/kg	
				1,3-Dinitrobenzene	<0.039	0.039	mg/kg	
				1,4-Dichlorobenzene	<0.039	0.039	mg/kg	
				1,4-Dinitrobenzene	<0.039	0.039	mg/kg	
				1-Methylnaphthalene	<0.0077	0.0077	mg/kg	
				2,3,4,6-Tetrachlorophenol	<0.039	0.039	mg/kg	
				2,3,5,6-Tetrachlorophenol	<0.039	0.039	mg/kg	
				2,3-Dichloroaniline	<0.039	0.039	mg/kg	
				2,4,5-Trichlorophenol	<0.039	0.039	mg/kg	
				2,4,6-Trichlorophenol	<0.039	0.039	mg/kg	
				2,4-Dichlorophenol	<0.039	0.039	mg/kg	
2,4-Dimethylphenol	<0.39	0.39	mg/kg					
2,4-Dinitrophenol	<0.19	0.19	mg/kg					
2,4-Dinitrotoluene	<0.039	0.039	mg/kg					
2,6-Dinitrotoluene	<0.039	0.039	mg/kg					

Table C-3
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR9 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	2-Chloronaphthalene	<0.039	0.039	mg/kg
				2-Chlorophenol	<0.039	0.039	mg/kg
				2-Methylnaphthalene	<0.0077	0.0077	mg/kg
				2-Methylphenol (o-Cresol)	<0.039	0.039	mg/kg
				2-Nitroaniline	<0.039	0.039	mg/kg
				2-Nitrophenol	<0.039	0.039	mg/kg
				3,3'-Dichlorobenzidine	<0.39	0.39	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.039	0.039	mg/kg
				3-Nitroaniline	<0.039	0.039	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.19	0.19	mg/kg
				4-Bromophenyl Phenyl Ether	<0.039	0.039	mg/kg
				4-Chloro-3-Methylphenol	<0.039	0.039	mg/kg
				4-Chloroaniline	<0.039	0.039	mg/kg
				4-Chlorophenyl Phenylether	<0.039	0.039	mg/kg
				4-Nitroaniline	<0.039	0.039	mg/kg
				4-Nitrophenol	<0.039	0.039	mg/kg
				Acenaphthene	0.0081	0.0077	mg/kg
				Acenaphthylene	<0.0077	0.0077	mg/kg
				Aniline	<0.039	0.039	mg/kg
				Anthracene	0.021	0.0077	mg/kg
				Benzidine	<0.39	0.39	mg/kg
				Benzo(a)Anthracene	0.069	0.039	mg/kg
				Benzo(a)Pyrene	0.071	0.039	mg/kg
				Benzo(b)Fluoranthene	0.063	0.039	mg/kg
				Benzo(g,h,i)Perylene	0.049	0.039	mg/kg
				Benzo(j,k)Fluoranthene	0.06	0.039	mg/kg
				Benzyl alcohol	<0.039	0.039	mg/kg
				Bis(2-Chloroethoxy) Methane	<0.039	0.039	mg/kg
				Bis(2-Chloroethyl) Ether	<0.039	0.039	mg/kg
				Bis(2-Chloroisopropyl)ether	<0.039	0.039	mg/kg
				Bis(2-Ethylhexyl) Phthalate	0.06	0.039	mg/kg
				Bis-2-Ethylhexyladipate	<0.039	0.039	mg/kg
				Butyl Benzyl Phthalate	<0.39	0.39	mg/kg
				Carbazole	<0.039	0.039	mg/kg
				Chrysene	0.083	0.039	mg/kg
				Dibenzo(a,h)Anthracene	0.015	0.0077	mg/kg
				Dibenzofuran	<0.039	0.039	mg/kg
				Diethylphthalate	<0.19	0.19	mg/kg
				Dimethylphthalate	<0.039	0.039	mg/kg
				Di-N-Butylphthalate	<0.39	0.39	mg/kg
				Di-N-Octyl Phthalate	<0.039	0.039	mg/kg
				Fluoranthene	0.19	0.039	mg/kg
				Fluorene	0.01	0.0077	mg/kg
				Hexachlorobenzene	<0.039	0.039	mg/kg
				Hexachlorobutadiene	<0.039	0.039	mg/kg
				Hexachlorocyclopentadiene	<0.039	0.039	mg/kg
				Hexachloroethane	<0.039	0.039	mg/kg
				Indeno(1,2,3-cd)Pyrene	0.041	0.039	mg/kg
				Isophorone	<0.039	0.039	mg/kg

Table C-3
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR9 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Naphthalene	0.0079	0.0077	mg/kg
				Nitrobenzene	<0.039	0.039	mg/kg
				N-Nitrosodimethylamine	<0.039	0.039	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.039	0.039	mg/kg
				N-Nitrosodiphenylamine	<0.039	0.039	mg/kg
				Pentachlorophenol	<0.19	0.19	mg/kg
				Phenanthrene	0.093	0.039	mg/kg
				Phenol	<0.039	0.039	mg/kg
				Pyrene	0.12	0.039	mg/kg
				Pyridine	<0.39	0.39	mg/kg
	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<49	49	mg/kg	
			Lube Oil	260	58	mg/kg	
	Volatile Organic Compounds	EPA8021	Benzene	<0.02	0.02	mg/kg	
Ethylbenzene			<0.063	0.063	mg/kg		
m,p-Xylene			<0.063	0.063	mg/kg		
o-Xylene			<0.063	0.063	mg/kg		
Toluene			<0.063	0.063	mg/kg		
6 - 6.5	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<45	45	mg/kg	
			Lube Oil	220	68	mg/kg	
FAR20	2.5 - 3	Metals	SW6010B	Arsenic	<12	12	mg/kg
				Cadmium	<0.6	0.6	mg/kg
				Chromium	64	0.6	mg/kg
				Lead	160	6	mg/kg
				Mercury	<0.3	0.3	mg/kg
		Pesticides	SW8081	4,4'-DDD	<12	12	ug/kg
				4,4'-DDE	<12	12	ug/kg
				4,4'-DDT	16	12	ug/kg
				Aldrin	<6	6	ug/kg
				Alpha-Bhc	<6	6	ug/kg
				Alpha-Chlordane	<12	12	ug/kg
				Beta-Bhc	<6	6	ug/kg
				Delta-Bhc	<6	6	ug/kg
				Dieldrin	<12	12	ug/kg
				Endosulfan I	<6	6	ug/kg
				Endosulfan II	<12	12	ug/kg
				Endosulfan Sulfate	<12	12	ug/kg
				Endrin	<12	12	ug/kg
				Endrin Aldehyde	<12	12	ug/kg
				Endrin Ketone	<12	12	ug/kg
				Gamma-Bhc (Lindane)	<6	6	ug/kg
				Gamma-Chlordane	<12	12	ug/kg
				Heptachlor	<6	6	ug/kg
				Heptachlor Epoxide	<6	6	ug/kg
		Methoxychlor	<12	12	ug/kg		
		Toxaphene	<60	60	ug/kg		
		Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.06	0.06	mg/kg
				Aroclor 1221	<0.06	0.06	mg/kg
				Aroclor 1232	<0.06	0.06	mg/kg
Aroclor 1242	<0.06			0.06	mg/kg		
Aroclor 1248	<0.06			0.06	mg/kg		
Aroclor 1254	<0.06			0.06	mg/kg		
Aroclor 1260	0.19			0.06	mg/kg		

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Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR20 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.04	0.04	mg/kg
				1,2-Dichlorobenzene	<0.04	0.04	mg/kg
				1,2-Dinitrobenzene	<0.04	0.04	mg/kg
				1,2-Diphenylhydrazine	<0.04	0.04	mg/kg
				1,3-Dichlorobenzene	<0.04	0.04	mg/kg
				1,3-Dinitrobenzene	<0.04	0.04	mg/kg
				1,4-Dichlorobenzene	<0.04	0.04	mg/kg
				1,4-Dinitrobenzene	<0.04	0.04	mg/kg
				1-Methylnaphthalene	0.008	0.0079	mg/kg
				2,3,4,6-Tetrachlorophenol	<0.04	0.04	mg/kg
				2,3,5,6-Tetrachlorophenol	<0.04	0.04	mg/kg
				2,3-Dichloroaniline	<0.04	0.04	mg/kg
				2,4,5-Trichlorophenol	<0.04	0.04	mg/kg
				2,4,6-Trichlorophenol	<0.04	0.04	mg/kg
				2,4-Dichlorophenol	<0.04	0.04	mg/kg
				2,4-Dimethylphenol	<0.4	0.4	mg/kg
				2,4-Dinitrophenol	<0.2	0.2	mg/kg
				2,4-Dinitrotoluene	<0.04	0.04	mg/kg
				2,6-Dinitrotoluene	<0.04	0.04	mg/kg
				2-Chloronaphthalene	<0.04	0.04	mg/kg
				2-Chlorophenol	<0.04	0.04	mg/kg
				2-Methylnaphthalene	0.016	0.0079	mg/kg
				2-Methylphenol (o-Cresol)	<0.04	0.04	mg/kg
				2-Nitroaniline	<0.04	0.04	mg/kg
				2-Nitrophenol	<0.04	0.04	mg/kg
				3,3'-Dichlorobenzidine	<0.4	0.4	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.04	0.04	mg/kg
				3-Nitroaniline	<0.04	0.04	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.2	0.2	mg/kg
				4-Bromophenyl Phenyl Ether	<0.04	0.04	mg/kg
				4-Chloro-3-Methylphenol	<0.04	0.04	mg/kg
				4-Chloroaniline	<0.04	0.04	mg/kg
				4-Chlorophenyl Phenylether	<0.04	0.04	mg/kg
				4-Nitroaniline	<0.04	0.04	mg/kg
				4-Nitrophenol	<0.04	0.04	mg/kg
				Acenaphthene	0.016	0.0079	mg/kg
				Acenaphthylene	0.0092	0.0079	mg/kg
				Aniline	<0.04	0.04	mg/kg
				Anthracene	0.024	0.0079	mg/kg
				Benzidine	<0.4	0.4	mg/kg
				Benzo(a)Anthracene	0.064	0.04	mg/kg
				Benzo(a)Pyrene	0.067	0.04	mg/kg
				Benzo(b)Fluoranthene	0.065	0.04	mg/kg
				Benzo(g,h,i)Perylene	0.051	0.04	mg/kg
				Benzo(j,k)Fluoranthene	0.056	0.04	mg/kg
				Benzyl alcohol	<0.04	0.04	mg/kg

Table C-3
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR20 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Bis(2-Chloroethoxy) Methane	<0.04	0.04	mg/kg
				Bis(2-Chloroethyl) Ether	<0.04	0.04	mg/kg
				Bis(2-Chloroisopropyl) ether	<0.04	0.04	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.04	0.04	mg/kg
				Bis-2-Ethylhexyladipate	<0.04	0.04	mg/kg
				Butyl Benzyl Phthalate	<0.4	0.4	mg/kg
				Carbazole	<0.04	0.04	mg/kg
				Chrysene	0.081	0.04	mg/kg
				Dibenzo(a,h)Anthracene	0.016	0.0079	mg/kg
				Dibenzofuran	<0.04	0.04	mg/kg
				Diethylphthalate	<0.2	0.2	mg/kg
				Dimethylphthalate	<0.04	0.04	mg/kg
				Di-N-Butylphthalate	<0.4	0.4	mg/kg
				Di-N-Octyl Phthalate	<0.04	0.04	mg/kg
				Fluoranthene	0.16	0.04	mg/kg
				Fluorene	0.026	0.0079	mg/kg
				Hexachlorobenzene	<0.04	0.04	mg/kg
				Hexachlorobutadiene	<0.04	0.04	mg/kg
				Hexachlorocyclopentadiene	<0.04	0.04	mg/kg
				Hexachloroethane	<0.04	0.04	mg/kg
				Indeno(1,2,3-cd)Pyrene	0.045	0.04	mg/kg
				Isophorone	<0.04	0.04	mg/kg
				Naphthalene	0.044	0.04	mg/kg
				Nitrobenzene	<0.04	0.04	mg/kg
				N-Nitrosodimethylamine	<0.04	0.04	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.04	0.04	mg/kg
				N-Nitrosodiphenylamine	<0.04	0.04	mg/kg
				Pentachlorophenol	<0.2	0.2	mg/kg
				Phenanthrene	0.13	0.04	mg/kg
				Phenol	<0.04	0.04	mg/kg
				Pyrene	0.13	0.04	mg/kg
				Pyridine	<0.4	0.4	mg/kg
				Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<39	39	mg/kg
Lube Oil	260	60	mg/kg				
Volatile Organic Compounds	EPA8021	Benzene	<0.02	0.02	mg/kg		
		Ethylbenzene	<0.067	0.067	mg/kg		
		m,p-Xylene	<0.067	0.067	mg/kg		
		o-Xylene	<0.067	0.067	mg/kg		
		Toluene	<0.067	0.067	mg/kg		
	SW8260	1,1,1,2-Tetrachloroethane	<0.0011	0.0011	mg/kg		
		1,1,1-Trichloroethane	<0.0011	0.0011	mg/kg		
		1,1,2,2-Tetrachloroethane	<0.067	0.067	mg/kg		
		1,1,2-Trichloroethane	<0.0011	0.0011	mg/kg		
		1,1-Dichloroethane	<0.0011	0.0011	mg/kg		
1,1-Dichloroethene	<0.0011	0.0011	mg/kg				
1,1-Dichloropropene	<0.0011	0.0011	mg/kg				
1,2,3-Trichlorobenzene	<0.067	0.067	mg/kg				
1,2,3-Trichloropropane	<0.067	0.067	mg/kg				
1,2,4-Trichlorobenzene	<0.067	0.067	mg/kg				
1,2,4-Trimethylbenzene	<0.067	0.067	mg/kg				

Table C-3
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR20 (continued)	2.5 - 3 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	1,2-Dibromo-3-chloropropane	<0.33	0.33	mg/kg
				1,2-Dibromoethane	<0.0011	0.0011	mg/kg
				1,2-Dichlorobenzene	<0.067	0.067	mg/kg
				1,2-Dichloroethane	<0.0011	0.0011	mg/kg
				1,2-Dichloropropane	<0.0011	0.0011	mg/kg
				1,3,5-Trimethylbenzene	<0.067	0.067	mg/kg
				1,3-Dichlorobenzene	<0.067	0.067	mg/kg
				1,3-Dichloropropane	<0.0011	0.0011	mg/kg
				1,4-Dichlorobenzene	<0.067	0.067	mg/kg
				2,2-Dichloropropane	<0.0011	0.0011	mg/kg
				2-Butanone (MEK)	0.0084	0.0055	mg/kg
				2-Chloroethyl Vinyl Ether	<0.0055	0.0055	mg/kg
				2-Chlorotoluene	<0.067	0.067	mg/kg
				2-Hexanone	<0.0055	0.0055	mg/kg
				4-Chlorotoluene	<0.067	0.067	mg/kg
				4-Methyl-2-Pentanone (MIBK)	<0.0055	0.0055	mg/kg
				Acetone	0.068	0.0055	mg/kg
				Benzene	0.0033	0.0011	mg/kg
				Bromobenzene	<0.067	0.067	mg/kg
				Bromochloromethane	<0.0011	0.0011	mg/kg
				Bromodichloromethane	<0.0011	0.0011	mg/kg
				Bromoform	<0.0011	0.0011	mg/kg
				Bromomethane	<0.0011	0.0011	mg/kg
				Carbon Disulfide	<0.0055	0.0055	mg/kg
				Carbon Tetrachloride	<0.0011	0.0011	mg/kg
				Chlorobenzene	<0.0011	0.0011	mg/kg
				Chloroethane	<0.0055	0.0055	mg/kg
				Chloroform	<0.0011	0.0011	mg/kg
				Chloromethane	<0.0055	0.0055	mg/kg
				cis-1,2-Dichloroethene	<0.0011	0.0011	mg/kg
				cis-1,3-Dichloropropene	<0.0011	0.0011	mg/kg
				Dibromochloromethane	<0.0011	0.0011	mg/kg
				Dibromomethane	<0.0011	0.0011	mg/kg
				Dichlorodifluoromethane	<0.0011	0.0011	mg/kg
				Ethylbenzene	<0.0011	0.0011	mg/kg
				Hexachlorobutadiene	<0.33	0.33	mg/kg
				Iodomethane	<0.0055	0.0055	mg/kg
				Isopropylbenzene	<0.0011	0.0011	mg/kg
				m,p-Xylene	<0.0022	0.0022	mg/kg
				Methyl T-Butyl Ether (MTBE)	<0.0011	0.0011	mg/kg
				Methylene Chloride	<0.0055	0.0055	mg/kg
				Naphthalene	<0.067	0.067	mg/kg
				N-Butylbenzene	<0.067	0.067	mg/kg
N-Propylbenzene	<0.067	0.067	mg/kg				
o-Xylene	<0.0011	0.0011	mg/kg				
p-Isopropyltoluene	<0.067	0.067	mg/kg				
sec-Butylbenzene	<0.067	0.067	mg/kg				
Styrene	<0.0011	0.0011	mg/kg				

Table C-3
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR20 (continued)	2.5 - 3 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	tert-Butylbenzene	<0.067	0.067	mg/kg
	Tetrachloroethene (PCE)			<0.0011	0.0011	mg/kg	
Toluene	<0.0055			0.0055	mg/kg		
Trans-1,2-Dichloroethene	<0.0011			0.0011	mg/kg		
Trans-1,3-Dichloropropene	<0.0011			0.0011	mg/kg		
Trichloroethene (TCE)	<0.0011			0.0011	mg/kg		
Trichlorofluoromethane	<0.0011			0.0011	mg/kg		
Vinyl Acetate	<0.0055			0.0055	mg/kg		
Vinyl Chloride	<0.0011			0.0011	mg/kg		
5 - 5.5	Semi-Volatile Organic Compounds			SW8270	1,2,4-Trichlorobenzene	<0.042	0.042	mg/kg
1,2-Dichlorobenzene		<0.042	0.042		mg/kg		
1,2-Dinitrobenzene		<0.042	0.042		mg/kg		
1,2-Diphenylhydrazine		<0.042	0.042		mg/kg		
1,3-Dichlorobenzene		<0.042	0.042		mg/kg		
1,3-Dinitrobenzene		<0.042	0.042		mg/kg		
1,4-Dichlorobenzene		<0.042	0.042		mg/kg		
1,4-Dinitrobenzene		<0.042	0.042		mg/kg		
1-Methylnaphthalene		<0.0083	0.0083		mg/kg		
2,3,4,6-Tetrachlorophenol		<0.042	0.042		mg/kg		
2,3,5,6-Tetrachlorophenol		<0.042	0.042		mg/kg		
2,3-Dichloroaniline		<0.042	0.042		mg/kg		
2,4,5-Trichlorophenol		<0.042	0.042		mg/kg		
2,4,6-Trichlorophenol		<0.042	0.042		mg/kg		
2,4-Dichlorophenol		<0.042	0.042		mg/kg		
2,4-Dimethylphenol		<0.42	0.42		mg/kg		
2,4-Dinitrophenol		<0.21	0.21		mg/kg		
2,4-Dinitrotoluene		<0.042	0.042		mg/kg		
2,6-Dinitrotoluene		<0.042	0.042		mg/kg		
2-Chloronaphthalene		<0.042	0.042		mg/kg		
2-Chlorophenol		<0.042	0.042		mg/kg		
2-Methylnaphthalene		<0.0083	0.0083		mg/kg		
2-Methylphenol (o-Cresol)		<0.042	0.042		mg/kg		
2-Nitroaniline		<0.042	0.042		mg/kg		
2-Nitrophenol		<0.042	0.042		mg/kg		
3,3'-Dichlorobenzidine		<0.42	0.42		mg/kg		
3,4-Methylphenol(m,p-Cresol)		<0.042	0.042		mg/kg		
3-Nitroaniline		<0.042	0.042		mg/kg		
4,6-Dinitro-2-Methylphenol		<0.21	0.21		mg/kg		
4-Bromophenyl Phenyl Ether		<0.042	0.042		mg/kg		
4-Chloro-3-Methylphenol	<0.042	0.042	mg/kg				
4-Chloroaniline	<0.042	0.042	mg/kg				
4-Chlorophenyl Phenylether	<0.042	0.042	mg/kg				
4-Nitroaniline	<0.042	0.042	mg/kg				
4-Nitrophenol	<0.042	0.042	mg/kg				

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Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure		
FAR20 (continued)	5 - 5.5 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Acenaphthene	<0.0083	0.0083	mg/kg		
				Acenaphthylene	<0.0083	0.0083	mg/kg		
				Aniline	<0.042	0.042	mg/kg		
				Anthracene	0.013	0.0083	mg/kg		
				Benzidine	<0.42	0.42	mg/kg		
				Benzo(a)Anthracene	0.032	0.0083	mg/kg		
				Benzo(a)Pyrene	0.035	0.0083	mg/kg		
				Benzo(b)Fluoranthene	0.033	0.0083	mg/kg		
				Benzo(g,h,i)Perylene	0.034	0.0083	mg/kg		
				Benzo(j,k)Fluoranthene	0.024	0.0083	mg/kg		
				Benzyl alcohol	<0.042	0.042	mg/kg		
				Bis(2-Chloroethoxy) Methane	<0.042	0.042	mg/kg		
				Bis(2-Chloroethyl) Ether	<0.042	0.042	mg/kg		
				Bis(2-Chloroisopropyl) ether	<0.042	0.042	mg/kg		
				Bis(2-Ethylhexyl) Phthalate	0.057	0.042	mg/kg		
				Bis-2-Ethylhexyladipate	<0.042	0.042	mg/kg		
				Butyl Benzyl Phthalate	<0.42	0.42	mg/kg		
				Carbazole	<0.042	0.042	mg/kg		
				Chrysene	0.05	0.042	mg/kg		
				Dibenzo(a,h)Anthracene	<0.0083	0.0083	mg/kg		
				Dibenzofuran	<0.042	0.042	mg/kg		
				Diethylphthalate	<0.21	0.21	mg/kg		
				Dimethylphthalate	<0.042	0.042	mg/kg		
				Di-N-Butylphthalate	<0.42	0.42	mg/kg		
				Di-N-Octyl Phthalate	<0.042	0.042	mg/kg		
				Fluoranthene	0.084	0.042	mg/kg		
				Fluorene	<0.0083	0.0083	mg/kg		
				Hexachlorobenzene	<0.042	0.042	mg/kg		
				Hexachlorobutadiene	<0.042	0.042	mg/kg		
				Hexachlorocyclopentadiene	<0.042	0.042	mg/kg		
				Hexachloroethane	<0.042	0.042	mg/kg		
				Indeno(1,2,3-cd)Pyrene	0.023	0.0083	mg/kg		
				Isophorone	<0.042	0.042	mg/kg		
				Naphthalene	<0.0083	0.0083	mg/kg		
				Nitrobenzene	<0.042	0.042	mg/kg		
				N-Nitrosodimethylamine	<0.042	0.042	mg/kg		
				N-Nitroso-Di-N-Propylamine	<0.042	0.042	mg/kg		
				N-Nitrosodiphenylamine	<0.042	0.042	mg/kg		
				Pentachlorophenol	<0.21	0.21	mg/kg		
				Phenanthrene	0.047	0.042	mg/kg		
				Phenol	<0.042	0.042	mg/kg		
				Pyrene	0.076	0.042	mg/kg		
				Pyridine	<0.42	0.42	mg/kg		
				Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<52	52	mg/kg
						Lube Oil	310	63	mg/kg

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Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure		
FAR21	2.5 - 3	Metals	SW6010B	Arsenic	<12	12	mg/kg		
				Cadmium	<0.59	0.59	mg/kg		
				Chromium	37	0.59	mg/kg		
				Lead	180	5.9	mg/kg		
					SW7471A	Mercury	<0.3	0.3	mg/kg
				Pesticides	SW8081	4,4'-DDD	<12	12	ug/kg
						4,4'-DDE	12	12	ug/kg
						4,4'-DDT	33	12	ug/kg
						Aldrin	<5.9	5.9	ug/kg
						Alpha-Bhc	<5.9	5.9	ug/kg
						Alpha-Chlordane	<12	12	ug/kg
						Beta-Bhc	<5.9	5.9	ug/kg
						Delta-Bhc	<5.9	5.9	ug/kg
						Dieldrin	14	12	ug/kg
						Endosulfan I	<5.9	5.9	ug/kg
						Endosulfan II	<12	12	ug/kg
						Endosulfan Sulfate	<12	12	ug/kg
						Endrin	<12	12	ug/kg
						Endrin Aldehyde	<12	12	ug/kg
						Endrin Ketone	<12	12	ug/kg
						Gamma-Bhc (Lindane)	<5.9	5.9	ug/kg
						Gamma-Chlordane	<12	12	ug/kg
						Heptachlor	<5.9	5.9	ug/kg
						Heptachlor Epoxide	<5.9	5.9	ug/kg
						Methoxychlor	<12	12	ug/kg
				Toxaphene	<59	59	ug/kg		
				Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.059	0.059	mg/kg
						Aroclor 1221	<0.059	0.059	mg/kg
						Aroclor 1232	<0.059	0.059	mg/kg
						Aroclor 1242	<0.059	0.059	mg/kg
						Aroclor 1248	<0.059	0.059	mg/kg
						Aroclor 1254	<0.059	0.059	mg/kg
						Aroclor 1260	0.18	0.059	mg/kg
				Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.04	0.04	mg/kg
						1,2-Dichlorobenzene	<0.04	0.04	mg/kg
						1,2-Dinitrobenzene	<0.04	0.04	mg/kg
						1,2-Diphenylhydrazine	<0.04	0.04	mg/kg
						1,3-Dichlorobenzene	<0.04	0.04	mg/kg
						1,3-Dinitrobenzene	<0.04	0.04	mg/kg
						1,4-Dichlorobenzene	<0.04	0.04	mg/kg
						1,4-Dinitrobenzene	<0.04	0.04	mg/kg
						1-Methylnaphthalene	0.012	0.0079	mg/kg
		2,3,4,6-Tetrachlorophenol	<0.04			0.04	mg/kg		
		2,3,5,6-Tetrachlorophenol	<0.04			0.04	mg/kg		
		2,3-Dichloroaniline	<0.04			0.04	mg/kg		
		2,4,5-Trichlorophenol	<0.04			0.04	mg/kg		
		2,4,6-Trichlorophenol	<0.04			0.04	mg/kg		
		2,4-Dichlorophenol	<0.04			0.04	mg/kg		
		2,4-Dimethylphenol	<0.4			0.4	mg/kg		
		2,4-Dinitrophenol	<0.2	0.2	mg/kg				
		2,4-Dinitrotoluene	<0.04	0.04	mg/kg				
		2,6-Dinitrotoluene	<0.04	0.04	mg/kg				

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Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR21 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	2-Chloronaphthalene	<0.04	0.04	mg/kg
				2-Chlorophenol	<0.04	0.04	mg/kg
				2-Methylnaphthalene	0.02	0.0079	mg/kg
				2-Methylphenol (o-Cresol)	<0.04	0.04	mg/kg
				2-Nitroaniline	<0.04	0.04	mg/kg
				2-Nitrophenol	<0.04	0.04	mg/kg
				3,3'-Dichlorobenzidine	<0.4	0.4	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.04	0.04	mg/kg
				3-Nitroaniline	<0.04	0.04	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.2	0.2	mg/kg
				4-Bromophenyl Phenyl Ether	<0.04	0.04	mg/kg
				4-Chloro-3-Methylphenol	<0.04	0.04	mg/kg
				4-Chloroaniline	<0.04	0.04	mg/kg
				4-Chlorophenyl Phenylether	<0.04	0.04	mg/kg
				4-Nitroaniline	<0.04	0.04	mg/kg
				4-Nitrophenol	<0.04	0.04	mg/kg
				Acenaphthene	0.018	0.0079	mg/kg
				Acenaphthylene	0.013	0.0079	mg/kg
				Aniline	<0.04	0.04	mg/kg
				Anthracene	0.027	0.0079	mg/kg
				Benzidine	<0.4	0.4	mg/kg
				Benzo(a)Anthracene	0.041	0.0079	mg/kg
				Benzo(a)Pyrene	0.049	0.0079	mg/kg
				Benzo(b)Fluoranthene	0.05	0.04	mg/kg
				Benzo(g,h,i)Perylene	0.046	0.04	mg/kg
				Benzo(j,k)Fluoranthene	0.032	0.0079	mg/kg
				Benzyl alcohol	<0.04	0.04	mg/kg
				Bis(2-Chloroethoxy) Methane	<0.04	0.04	mg/kg
				Bis(2-Chloroethyl) Ether	<0.04	0.04	mg/kg
				Bis(2-Chloroisopropyl)ether	<0.04	0.04	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.04	0.04	mg/kg
				Bis-2-Ethylhexyladipate	<0.04	0.04	mg/kg
				Butyl Benzyl Phthalate	<0.4	0.4	mg/kg
				Carbazole	<0.04	0.04	mg/kg
				Chrysene	0.047	0.04	mg/kg
				Dibenzo(a,h)Anthracene	0.013	0.0079	mg/kg
				Dibenzofuran	<0.04	0.04	mg/kg
				Diethylphthalate	<0.2	0.2	mg/kg
				Dimethylphthalate	<0.04	0.04	mg/kg
				Di-N-Butylphthalate	<0.4	0.4	mg/kg
				Di-N-Octyl Phthalate	<0.04	0.04	mg/kg
				Fluoranthene	0.1	0.04	mg/kg
				Fluorene	0.02	0.0079	mg/kg
				Hexachlorobenzene	<0.04	0.04	mg/kg
				Hexachlorobutadiene	<0.04	0.04	mg/kg
				Hexachlorocyclopentadiene	<0.04	0.04	mg/kg
				Hexachloroethane	<0.04	0.04	mg/kg
				Indeno(1,2,3-cd)Pyrene	0.034	0.0079	mg/kg
				Isophorone	<0.04	0.04	mg/kg

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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR21 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Naphthalene	0.037	0.0079	mg/kg
				Nitrobenzene	<0.04	0.04	mg/kg
				N-Nitrosodimethylamine	<0.04	0.04	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.04	0.04	mg/kg
				N-Nitrosodiphenylamine	<0.04	0.04	mg/kg
				Pentachlorophenol	<0.2	0.2	mg/kg
				Phenanthrene	0.077	0.04	mg/kg
				Phenol	<0.04	0.04	mg/kg
				Pyrene	0.082	0.04	mg/kg
				Pyridine	<0.4	0.4	mg/kg
				Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<51	51	mg/kg
			Lube Oil		240	60	mg/kg
			NWTPH-GX	Gasoline-Range Organics	<7.1	7.1	mg/kg
		Volatile Organic Compounds	EPA8021	Benzene	<0.02	0.02	mg/kg
				Ethylbenzene	<0.071	0.071	mg/kg
				m,p-Xylene	<0.071	0.071	mg/kg
				o-Xylene	<0.071	0.071	mg/kg
				Toluene	<0.071	0.071	mg/kg
			SW8260	1,1,1,2-Tetrachloroethane	<0.0011	0.0011	mg/kg
				1,1,1-Trichloroethane	<0.0011	0.0011	mg/kg
				1,1,2,2-Tetrachloroethane	<0.071	0.071	mg/kg
				1,1,2-Trichloroethane	<0.0011	0.0011	mg/kg
				1,1-Dichloroethane	<0.0011	0.0011	mg/kg
				1,1-Dichloroethene	<0.0011	0.0011	mg/kg
				1,1-Dichloropropene	<0.0011	0.0011	mg/kg
				1,2,3-Trichlorobenzene	<0.071	0.071	mg/kg
				1,2,3-Trichloropropane	<0.071	0.071	mg/kg
				1,2,4-Trichlorobenzene	<0.071	0.071	mg/kg
				1,2,4-Trimethylbenzene	<0.071	0.071	mg/kg
				1,2-Dibromo-3-chloropropane	<0.35	0.35	mg/kg
				1,2-Dibromoethane	<0.0011	0.0011	mg/kg
				1,2-Dichlorobenzene	<0.071	0.071	mg/kg
				1,2-Dichloroethane	<0.0011	0.0011	mg/kg
1,2-Dichloropropane	<0.0011			0.0011	mg/kg		
1,3,5-Trimethylbenzene	<0.071			0.071	mg/kg		
1,3-Dichlorobenzene	<0.071			0.071	mg/kg		
1,3-Dichloropropane	<0.0011	0.0011	mg/kg				
1,4-Dichlorobenzene	<0.071	0.071	mg/kg				
2,2-Dichloropropane	<0.0011	0.0011	mg/kg				
2-Butanone (MEK)	<0.0057	0.0057	mg/kg				
2-Chloroethyl Vinyl Ether	<0.0057	0.0057	mg/kg				
2-Chlorotoluene	<0.071	0.071	mg/kg				
2-Hexanone	<0.0057	0.0057	mg/kg				
4-Chlorotoluene	<0.071	0.071	mg/kg				
4-Methyl-2-Pentanone (MIBK)	<0.0057	0.0057	mg/kg				

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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR21 (continued)	2.5 - 3 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Acetone	0.042	0.0057	mg/kg
				Benzene	0.01	0.0011	mg/kg
				Bromobenzene	<0.071	0.071	mg/kg
				Bromochloromethane	<0.0011	0.0011	mg/kg
				Bromodichloromethane	<0.0011	0.0011	mg/kg
				Bromoform	<0.0011	0.0011	mg/kg
				Bromomethane	<0.0011	0.0011	mg/kg
				Carbon Disulfide	<0.0057	0.0057	mg/kg
				Carbon Tetrachloride	<0.0011	0.0011	mg/kg
				Chlorobenzene	<0.0011	0.0011	mg/kg
				Chloroethane	<0.0057	0.0057	mg/kg
				Chloroform	<0.0011	0.0011	mg/kg
				Chloromethane	<0.0057	0.0057	mg/kg
				cis-1,2-Dichloroethene	<0.0011	0.0011	mg/kg
				cis-1,3-Dichloropropene	<0.0011	0.0011	mg/kg
				Dibromochloromethane	<0.0011	0.0011	mg/kg
				Dibromomethane	<0.0011	0.0011	mg/kg
				Dichlorodifluoromethane	<0.0011	0.0011	mg/kg
				Ethylbenzene	<0.0011	0.0011	mg/kg
				Hexachlorobutadiene	<0.35	0.35	mg/kg
				Iodomethane	<0.0057	0.0057	mg/kg
				Isopropylbenzene	<0.0011	0.0011	mg/kg
				m,p-Xylene	<0.0023	0.0023	mg/kg
				Methyl T-Butyl Ether (MTBE)	<0.0011	0.0011	mg/kg
				Methylene Chloride	<0.0057	0.0057	mg/kg
				Naphthalene	<0.071	0.071	mg/kg
				N-Butylbenzene	<0.071	0.071	mg/kg
				N-Propylbenzene	<0.071	0.071	mg/kg
				o-Xylene	<0.0011	0.0011	mg/kg
				p-Isopropyltoluene	<0.071	0.071	mg/kg
				sec-Butylbenzene	<0.071	0.071	mg/kg
				Styrene	<0.0011	0.0011	mg/kg
				tert-Butylbenzene	<0.071	0.071	mg/kg
				Tetrachloroethene (PCE)	<0.0011	0.0011	mg/kg
				Toluene	<0.0057	0.0057	mg/kg
				Trans-1,2-Dichloroethene	<0.0011	0.0011	mg/kg
				Trans-1,3-Dichloropropene	<0.0011	0.0011	mg/kg
Trichloroethene (TCE)	<0.0011	0.0011	mg/kg				
Trichlorofluoromethane	<0.0011	0.0011	mg/kg				
Vinyl Acetate	<0.0057	0.0057	mg/kg				
Vinyl Chloride	<0.0011	0.0011	mg/kg				

Table C-3
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 6
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR21 (continued)	6 - 6.5	Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.041	0.041	mg/kg
				1,2-Dichlorobenzene	<0.041	0.041	mg/kg
				1,2-Dinitrobenzene	<0.041	0.041	mg/kg
				1,2-Diphenylhydrazine	<0.041	0.041	mg/kg
				1,3-Dichlorobenzene	<0.041	0.041	mg/kg
				1,3-Dinitrobenzene	<0.041	0.041	mg/kg
				1,4-Dichlorobenzene	<0.041	0.041	mg/kg
				1,4-Dinitrobenzene	<0.041	0.041	mg/kg
				1-Methylnaphthalene	<0.0083	0.0083	mg/kg
				2,3,4,6-Tetrachlorophenol	<0.041	0.041	mg/kg
				2,3,5,6-Tetrachlorophenol	<0.041	0.041	mg/kg
				2,3-Dichloroaniline	<0.041	0.041	mg/kg
				2,4,5-Trichlorophenol	<0.041	0.041	mg/kg
				2,4,6-Trichlorophenol	<0.041	0.041	mg/kg
				2,4-Dichlorophenol	<0.041	0.041	mg/kg
				2,4-Dimethylphenol	<0.41	0.41	mg/kg
				2,4-Dinitrophenol	<0.21	0.21	mg/kg
				2,4-Dinitrotoluene	<0.041	0.041	mg/kg
				2,6-Dinitrotoluene	<0.041	0.041	mg/kg
				2-Chloronaphthalene	<0.041	0.041	mg/kg
				2-Chlorophenol	<0.041	0.041	mg/kg
				2-Methylnaphthalene	<0.0083	0.0083	mg/kg
				2-Methylphenol (o-Cresol)	<0.041	0.041	mg/kg
				2-Nitroaniline	<0.041	0.041	mg/kg
				2-Nitrophenol	<0.041	0.041	mg/kg
				3,3'-Dichlorobenzidine	<0.41	0.41	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.041	0.041	mg/kg
				3-Nitroaniline	<0.041	0.041	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.21	0.21	mg/kg
				4-Bromophenyl Phenyl Ether	<0.041	0.041	mg/kg
				4-Chloro-3-Methylphenol	<0.041	0.041	mg/kg
				4-Chloroaniline	<0.041	0.041	mg/kg
				4-Chlorophenyl Phenylether	<0.041	0.041	mg/kg
				4-Nitroaniline	<0.041	0.041	mg/kg
				4-Nitrophenol	<0.041	0.041	mg/kg
				Acenaphthene	<0.0083	0.0083	mg/kg
				Acenaphthylene	<0.0083	0.0083	mg/kg
				Aniline	<0.041	0.041	mg/kg
				Anthracene	<0.0083	0.0083	mg/kg
				Benzidine	<0.41	0.41	mg/kg
				Benzo(a)Anthracene	0.018	0.0083	mg/kg
				Benzo(a)Pyrene	0.017	0.0083	mg/kg
				Benzo(b)Fluoranthene	0.025	0.0083	mg/kg
				Benzo(g,h,i)Perylene	0.022	0.0083	mg/kg
				Benzo(j,k)Fluoranthene	0.017	0.0083	mg/kg
				Benzyl alcohol	<0.041	0.041	mg/kg
				Bis(2-Chloroethoxy) Methane	<0.041	0.041	mg/kg
				Bis(2-Chloroethyl) Ether	<0.041	0.041	mg/kg
				Bis(2-Chloroisopropyl)ether	<0.041	0.041	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.041	0.041	mg/kg
Bis-2-Ethylhexyladipate	<0.041	0.041	mg/kg				
Butyl Benzyl Phthalate	<0.41	0.41	mg/kg				

Table C-3
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 6
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR21 (continued)	6 - 6.5 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Carbazole	<0.041	0.041	mg/kg
				Chrysene	0.035	0.0083	mg/kg
				Dibenzo(a,h)Anthracene	<0.0083	0.0083	mg/kg
				Dibenzofuran	<0.041	0.041	mg/kg
				Diethylphthalate	<0.21	0.21	mg/kg
				Dimethylphthalate	<0.041	0.041	mg/kg
				Di-N-Butylphthalate	<0.41	0.41	mg/kg
				Di-N-Octyl Phthalate	<0.041	0.041	mg/kg
				Fluoranthene	0.044	0.041	mg/kg
				Fluorene	<0.0083	0.0083	mg/kg
				Hexachlorobenzene	<0.041	0.041	mg/kg
				Hexachlorobutadiene	<0.041	0.041	mg/kg
				Hexachlorocyclopentadiene	<0.041	0.041	mg/kg
				Hexachloroethane	<0.041	0.041	mg/kg
				Indeno(1,2,3-cd)Pyrene	0.012	0.0083	mg/kg
				Isophorone	<0.041	0.041	mg/kg
				Naphthalene	<0.0083	0.0083	mg/kg
				Nitrobenzene	<0.041	0.041	mg/kg
				N-Nitrosodimethylamine	<0.041	0.041	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.041	0.041	mg/kg
				N-Nitrosodiphenylamine	<0.041	0.041	mg/kg
				Pentachlorophenol	<0.21	0.21	mg/kg
				Phenanthrene	0.022	0.0083	mg/kg
Phenol	<0.041	0.041	mg/kg				
Pyrene	0.041	0.041	mg/kg				
Pyridine	<0.41	0.41	mg/kg				
	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<37	37	mg/kg	
			Lube Oil	340	62	mg/kg	

NOTES:

Results in **bold** denote analyte was detected. See Table 7A.

If the result is less than (<) the laboratory reporting limit, the analyte was not detected.

< denotes analyte not detected at or above the laboratory reporting limit listed.

bgs = below ground surface

µg/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

Table C-4A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR10	2.5 - 3	Metals	SW6010B	Arsenic	<12	12	mg/kg
				Cadmium	<0.6	0.6	mg/kg
				Chromium	45	0.6	mg/kg
				Lead	260	6	mg/kg
			SW7471A	Mercury	<0.3	0.3	mg/kg
		Pesticides	SW8081	4,4'-DDD	<12	12	ug/kg
				4,4'-DDE	<12	12	ug/kg
				4,4'-DDT	<12	12	ug/kg
				Aldrin	<6	6	ug/kg
				Alpha-Bhc	<6	6	ug/kg
				Alpha-Chlordane	<12	12	ug/kg
				Beta-Bhc	<6	6	ug/kg
				Delta-Bhc	<6	6	ug/kg
				Dieldrin	<12	12	ug/kg
				Endosulfan I	<6	6	ug/kg
				Endosulfan II	<12	12	ug/kg
				Endosulfan Sulfate	<12	12	ug/kg
				Endrin	<12	12	ug/kg
				Endrin Aldehyde	<12	12	ug/kg
				Endrin Ketone	<12	12	ug/kg
				Gamma-Bhc (Lindane)	<6	6	ug/kg
				Gamma-Chlordane	<12	12	ug/kg
				Heptachlor	<6	6	ug/kg
				Heptachlor Epoxide	<6	6	ug/kg
				Methoxychlor	<12	12	ug/kg
		Toxaphene	<60	60	ug/kg		
		Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.06	0.06	mg/kg
				Aroclor 1221	<0.06	0.06	mg/kg
				Aroclor 1232	<0.06	0.06	mg/kg
				Aroclor 1242	<0.06	0.06	mg/kg
				Aroclor 1248	<0.06	0.06	mg/kg
				Aroclor 1254	<0.06	0.06	mg/kg
				Aroclor 1260	0.16	0.06	mg/kg
		Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.04	0.04	mg/kg
				1,2-Dichlorobenzene	<0.04	0.04	mg/kg
				1,2-Dinitrobenzene	<0.04	0.04	mg/kg
1,2-Diphenylhydrazine	<0.04			0.04	mg/kg		
1,3-Dichlorobenzene	<0.04			0.04	mg/kg		
1,3-Dinitrobenzene	<0.04			0.04	mg/kg		
1,4-Dichlorobenzene	<0.04			0.04	mg/kg		
1,4-Dinitrobenzene	<0.04			0.04	mg/kg		
1-Methylnaphthalene	<0.0079			0.0079	mg/kg		
2,3,4,6-Tetrachlorophenol	<0.04			0.04	mg/kg		
2,3,5,6-Tetrachlorophenol	<0.04			0.04	mg/kg		
2,3-Dichloroaniline	<0.04			0.04	mg/kg		
2,4,5-Trichlorophenol	<0.04			0.04	mg/kg		
2,4,6-Trichlorophenol	<0.04			0.04	mg/kg		

Table C-4A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR10 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	2,4-Dichlorophenol	<0.04	0.04	mg/kg
				2,4-Dimethylphenol	<0.4	0.4	mg/kg
				2,4-Dinitrophenol	<0.2	0.2	mg/kg
				2,4-Dinitrotoluene	<0.04	0.04	mg/kg
				2,6-Dinitrotoluene	<0.04	0.04	mg/kg
				2-Chloronaphthalene	<0.04	0.04	mg/kg
				2-Chlorophenol	<0.04	0.04	mg/kg
				2-Methylnaphthalene	<0.0079	0.0079	mg/kg
				2-Methylphenol (o-Cresol)	<0.04	0.04	mg/kg
				2-Nitroaniline	<0.04	0.04	mg/kg
				2-Nitrophenol	<0.04	0.04	mg/kg
				3,3'-Dichlorobenzidine	<0.4	0.4	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.04	0.04	mg/kg
				3-Nitroaniline	<0.04	0.04	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.2	0.2	mg/kg
				4-Bromophenyl Phenyl Ether	<0.04	0.04	mg/kg
				4-Chloro-3-Methylphenol	<0.04	0.04	mg/kg
				4-Chloroaniline	<0.04	0.04	mg/kg
				4-Chlorophenyl Phenylether	<0.04	0.04	mg/kg
				4-Nitroaniline	<0.04	0.04	mg/kg
				4-Nitrophenol	<0.04	0.04	mg/kg
				Acenaphthene	<0.0079	0.0079	mg/kg
				Acenaphthylene	<0.0079	0.0079	mg/kg
				Aniline	<0.04	0.04	mg/kg
				Anthracene	0.011	0.0079	mg/kg
				Benzidine	<0.4	0.4	mg/kg
				Benzo(a)Anthracene	0.029	0.0079	mg/kg
				Benzo(a)Pyrene	0.031	0.0079	mg/kg
				Benzo(b)Fluoranthene	0.028	0.0079	mg/kg
				Benzo(g,h,i)Perylene	0.025	0.0079	mg/kg
				Benzo(j,k)Fluoranthene	0.022	0.0079	mg/kg
				Benzyl alcohol	<0.04	0.04	mg/kg
				Bis(2-Chloroethoxy) Methane	<0.04	0.04	mg/kg
				Bis(2-Chloroethyl) Ether	<0.04	0.04	mg/kg
				Bis(2-Chloroisopropyl)ether	<0.04	0.04	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.04	0.04	mg/kg
				Bis-2-Ethylhexyladipate	<0.04	0.04	mg/kg
				Butyl Benzyl Phthalate	<0.4	0.4	mg/kg
				Carbazole	<0.04	0.04	mg/kg
				Chrysene	0.045	0.04	mg/kg
				Dibenzo(a,h)Anthracene	<0.0079	0.0079	mg/kg
				Dibenzofuran	<0.04	0.04	mg/kg
				Diethylphthalate	<0.2	0.2	mg/kg
				Dimethylphthalate	<0.04	0.04	mg/kg
				Di-N-Butylphthalate	<0.4	0.4	mg/kg
				Di-N-Octyl Phthalate	<0.04	0.04	mg/kg
				Fluoranthene	0.054	0.04	mg/kg
				Fluorene	<0.0079	0.0079	mg/kg

Table C-4A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR10 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Hexachlorobenzene	<0.04	0.04	mg/kg
				Hexachlorobutadiene	<0.04	0.04	mg/kg
				Hexachlorocyclopentadiene	<0.04	0.04	mg/kg
				Hexachloroethane	<0.04	0.04	mg/kg
				Indeno(1,2,3-cd)Pyrene	0.017	0.0079	mg/kg
				Isophorone	<0.04	0.04	mg/kg
				Naphthalene	<0.0079	0.0079	mg/kg
				Nitrobenzene	<0.04	0.04	mg/kg
				N-Nitrosodimethylamine	<0.04	0.04	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.04	0.04	mg/kg
				N-Nitrosodiphenylamine	<0.04	0.04	mg/kg
				Pentachlorophenol	<0.2	0.2	mg/kg
				Phenanthrene	0.049	0.04	mg/kg
				Phenol	<0.04	0.04	mg/kg
				Pyrene	0.063	0.04	mg/kg
		Pyridine	<0.4	0.4	mg/kg		
		Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<57	57	mg/kg
				Lube Oil	370	60	mg/kg
			NWTPH-GX	Gasoline-Range Organics	<6.9	6.9	mg/kg
		Volatile Organic Compounds	EPA8021	Benzene	<0.02	0.02	mg/kg
				Ethylbenzene	<0.069	0.069	mg/kg
				m,p-Xylene	<0.069	0.069	mg/kg
				o-Xylene	<0.069	0.069	mg/kg
				Toluene	<0.069	0.069	mg/kg
			SW8260	1,1,1,2-Tetrachloroethane	<0.0012	0.0012	mg/kg
				1,1,1-Trichloroethane	<0.0012	0.0012	mg/kg
				1,1,2,2-Tetrachloroethane	<0.069	0.069	mg/kg
				1,1,2-Trichloroethane	<0.0012	0.0012	mg/kg
				1,1-Dichloroethane	<0.0012	0.0012	mg/kg
				1,1-Dichloroethene	<0.0012	0.0012	mg/kg
				1,1-Dichloropropene	<0.0012	0.0012	mg/kg
				1,2,3-Trichlorobenzene	<0.069	0.069	mg/kg
				1,2,3-Trichloropropane	<0.069	0.069	mg/kg
1,2,4-Trichlorobenzene	<0.069			0.069	mg/kg		
1,2,4-Trimethylbenzene	<0.069			0.069	mg/kg		
1,2-Dibromo-3-chloropropane	<0.34			0.34	mg/kg		
1,2-Dibromoethane	<0.0012			0.0012	mg/kg		
1,2-Dichlorobenzene	<0.069	0.069	mg/kg				
1,2-Dichloroethane	<0.0012	0.0012	mg/kg				
1,2-Dichloropropane	<0.0012	0.0012	mg/kg				
1,3,5-Trimethylbenzene	<0.069	0.069	mg/kg				
1,3-Dichlorobenzene	<0.069	0.069	mg/kg				
1,3-Dichloropropane	<0.0012	0.0012	mg/kg				
1,4-Dichlorobenzene	<0.069	0.069	mg/kg				
2,2-Dichloropropane	<0.0012	0.0012	mg/kg				
2-Butanone (MEK)	0.011	0.0059	mg/kg				

Table C-4A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR10 (continued)	2.5 - 3 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	2-Chloroethyl Vinyl Ether	<0.0059	0.0059	mg/kg
				2-Chlorotoluene	<0.069	0.069	mg/kg
				2-Hexanone	<0.0059	0.0059	mg/kg
				4-Chlorotoluene	<0.069	0.069	mg/kg
				4-Methyl-2-Pentanone (MIBK)	<0.0059	0.0059	mg/kg
				Acetone	0.12	0.0059	mg/kg
				Benzene	0.24	0.0012	mg/kg
				Bromobenzene	<0.069	0.069	mg/kg
				Bromochloromethane	<0.0012	0.0012	mg/kg
				Bromodichloromethane	<0.0012	0.0012	mg/kg
				Bromoform	<0.0012	0.0012	mg/kg
				Bromomethane	<0.0012	0.0012	mg/kg
				Carbon Disulfide	0.0064	0.0059	mg/kg
				Carbon Tetrachloride	<0.0012	0.0012	mg/kg
				Chlorobenzene	<0.0012	0.0012	mg/kg
				Chloroethane	<0.0059	0.0059	mg/kg
				Chloroform	<0.0012	0.0012	mg/kg
				Chloromethane	<0.0059	0.0059	mg/kg
				cis-1,2-Dichloroethene	<0.0012	0.0012	mg/kg
				cis-1,3-Dichloropropene	<0.0012	0.0012	mg/kg
				Dibromochloromethane	<0.0012	0.0012	mg/kg
				Dibromomethane	<0.0012	0.0012	mg/kg
				Dichlorodifluoromethane	<0.0012	0.0012	mg/kg
				Ethylbenzene	<0.0012	0.0012	mg/kg
				Hexachlorobutadiene	<0.34	0.34	mg/kg
				Iodomethane	<0.0059	0.0059	mg/kg
				Isopropylbenzene	<0.0012	0.0012	mg/kg
				m,p-Xylene	0.0038	0.0024	mg/kg
				Methyl T-Butyl Ether (MTBE)	<0.0012	0.0012	mg/kg
				Methylene Chloride	<0.0059	0.0059	mg/kg
				Naphthalene	<0.069	0.069	mg/kg
				N-Butylbenzene	<0.069	0.069	mg/kg
				N-Propylbenzene	<0.069	0.069	mg/kg
				o-Xylene	0.0016	0.0012	mg/kg
				p-Isopropyltoluene	<0.069	0.069	mg/kg
				sec-Butylbenzene	<0.069	0.069	mg/kg
				Styrene	<0.0012	0.0012	mg/kg
				tert-Butylbenzene	<0.069	0.069	mg/kg
				Tetrachloroethene (PCE)	<0.0012	0.0012	mg/kg
				Toluene	0.026	0.0059	mg/kg
Trans-1,2-Dichloroethene	<0.0012	0.0012	mg/kg				
Trans-1,3-Dichloropropene	<0.0012	0.0012	mg/kg				
Trichloroethene (TCE)	<0.0012	0.0012	mg/kg				
Trichlorofluoromethane	<0.0012	0.0012	mg/kg				
Vinyl Acetate	<0.0059	0.0059	mg/kg				
Vinyl Chloride	<0.0012	0.0012	mg/kg				
	6 - 6.5	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<33	33	mg/kg
				Heavy Oil-Range Organics	<65	65	mg/kg

Table C-4A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR10 (continued)	15 - 15.5	Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.067	0.067	mg/kg
				Aroclor 1221	<0.067	0.067	mg/kg
Aroclor 1232	<0.067			0.067	mg/kg		
Aroclor 1242	<0.067			0.067	mg/kg		
Aroclor 1248	<0.067			0.067	mg/kg		
Aroclor 1254	<0.067			0.067	mg/kg		
Aroclor 1260	<0.067			0.067	mg/kg		
		Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.045	0.045	mg/kg
				1,2-Dichlorobenzene	<0.045	0.045	mg/kg
				1,2-Dinitrobenzene	<0.045	0.045	mg/kg
				1,2-Diphenylhydrazine	<0.045	0.045	mg/kg
				1,3-Dichlorobenzene	<0.045	0.045	mg/kg
				1,3-Dinitrobenzene	<0.045	0.045	mg/kg
				1,4-Dichlorobenzene	<0.045	0.045	mg/kg
				1,4-Dinitrobenzene	<0.045	0.045	mg/kg
				1-Methylnaphthalene	<0.009	0.009	mg/kg
				2,3,4,6-Tetrachlorophenol	<0.045	0.045	mg/kg
				2,3,5,6-Tetrachlorophenol	<0.045	0.045	mg/kg
				2,3-Dichloroaniline	<0.045	0.045	mg/kg
				2,4,5-Trichlorophenol	<0.045	0.045	mg/kg
				2,4,6-Trichlorophenol	<0.045	0.045	mg/kg
				2,4-Dichlorophenol	<0.045	0.045	mg/kg
				2,4-Dimethylphenol	<0.45	0.45	mg/kg
				2,4-Dinitrophenol	<0.22	0.22	mg/kg
				2,4-Dinitrotoluene	<0.045	0.045	mg/kg
				2,6-Dinitrotoluene	<0.045	0.045	mg/kg
				2-Chloronaphthalene	<0.045	0.045	mg/kg
				2-Chlorophenol	<0.045	0.045	mg/kg
				2-Methylnaphthalene	<0.009	0.009	mg/kg
				2-Methylphenol (o-Cresol)	<0.045	0.045	mg/kg
				2-Nitroaniline	<0.045	0.045	mg/kg
				2-Nitrophenol	<0.045	0.045	mg/kg
				3,3'-Dichlorobenzidine	<0.45	0.45	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.045	0.045	mg/kg
				3-Nitroaniline	<0.045	0.045	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.22	0.22	mg/kg
				4-Bromophenyl Phenyl Ether	<0.045	0.045	mg/kg
				4-Chloro-3-Methylphenol	<0.045	0.045	mg/kg
				4-Chloroaniline	<0.045	0.045	mg/kg
				4-Chlorophenyl Phenylether	<0.045	0.045	mg/kg
		4-Nitroaniline	<0.045	0.045	mg/kg		
		4-Nitrophenol	<0.045	0.045	mg/kg		
		Acenaphthene	<0.009	0.009	mg/kg		
		Acenaphthylene	<0.009	0.009	mg/kg		
		Aniline	<0.045	0.045	mg/kg		
		Anthracene	<0.009	0.009	mg/kg		

Table C-4A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR10 (continued)	15 - 15.5 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Benzidine	<0.45	0.45	mg/kg
				Benzo(a)Anthracene	<0.009	0.009	mg/kg
				Benzo(a)Pyrene	<0.009	0.009	mg/kg
				Benzo(b)Fluoranthene	<0.009	0.009	mg/kg
				Benzo(g,h,i)Perylene	<0.009	0.009	mg/kg
				Benzo(j,k)Fluoranthene	<0.009	0.009	mg/kg
				Benzyl alcohol	<0.045	0.045	mg/kg
				Bis(2-Chloroethoxy) Methane	<0.045	0.045	mg/kg
				Bis(2-Chloroethyl) Ether	<0.045	0.045	mg/kg
				Bis(2-Chloroisopropyl)ether	<0.045	0.045	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.045	0.045	mg/kg
				Bis-2-Ethylhexyladipate	<0.045	0.045	mg/kg
				Butyl Benzyl Phthalate	<0.45	0.45	mg/kg
				Carbazole	<0.045	0.045	mg/kg
				Chrysene	<0.009	0.009	mg/kg
				Dibenzo(a,h)Anthracene	<0.009	0.009	mg/kg
				Dibenzofuran	<0.045	0.045	mg/kg
				Diethylphthalate	<0.22	0.22	mg/kg
				Dimethylphthalate	<0.045	0.045	mg/kg
				Di-N-Butylphthalate	<0.45	0.45	mg/kg
				Di-N-Octyl Phthalate	<0.045	0.045	mg/kg
				Fluoranthene	<0.009	0.009	mg/kg
				Fluorene	<0.009	0.009	mg/kg
				Hexachlorobenzene	<0.045	0.045	mg/kg
				Hexachlorobutadiene	<0.045	0.045	mg/kg
				Hexachlorocyclopentadiene	<0.045	0.045	mg/kg
				Hexachloroethane	<0.045	0.045	mg/kg
				Indeno(1,2,3-cd)Pyrene	<0.009	0.009	mg/kg
				Isophorone	<0.045	0.045	mg/kg
				Naphthalene	<0.009	0.009	mg/kg
				Nitrobenzene	<0.045	0.045	mg/kg
				N-Nitrosodimethylamine	<0.045	0.045	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.045	0.045	mg/kg
N-Nitrosodiphenylamine	<0.045	0.045	mg/kg				
Pentachlorophenol	<0.22	0.22	mg/kg				
Phenanthrene	<0.009	0.009	mg/kg				
Phenol	<0.045	0.045	mg/kg				
Pyrene	<0.009	0.009	mg/kg				
Pyridine	<0.45	0.45	mg/kg				
		Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.0015	0.0015	mg/kg
				1,1,1-Trichloroethane	<0.0015	0.0015	mg/kg
				1,1,2,2-Tetrachloroethane	<0.0015	0.0015	mg/kg
				1,1,2-Trichloroethane	<0.0015	0.0015	mg/kg
				1,1-Dichloroethane	<0.0015	0.0015	mg/kg

Table C-4A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR10 (continued)	15 - 15.5 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	1,1-Dichloroethene	<0.0015	0.0015	mg/kg
				1,1-Dichloropropene	<0.0015	0.0015	mg/kg
				1,2,3-Trichlorobenzene	<0.0015	0.0015	mg/kg
				1,2,3-Trichloropropane	<0.0015	0.0015	mg/kg
				1,2,4-Trichlorobenzene	<0.0015	0.0015	mg/kg
				1,2,4-Trimethylbenzene	<0.0015	0.0015	mg/kg
				1,2-Dibromo-3-chloropropane	<0.0073	0.0073	mg/kg
				1,2-Dibromoethane	<0.0015	0.0015	mg/kg
				1,2-Dichlorobenzene	<0.0015	0.0015	mg/kg
				1,2-Dichloroethane	<0.0015	0.0015	mg/kg
				1,2-Dichloropropane	<0.0015	0.0015	mg/kg
				1,3,5-Trimethylbenzene	<0.0015	0.0015	mg/kg
				1,3-Dichlorobenzene	<0.0015	0.0015	mg/kg
				1,3-Dichloropropane	<0.0015	0.0015	mg/kg
				1,4-Dichlorobenzene	<0.0015	0.0015	mg/kg
				2,2-Dichloropropane	<0.0015	0.0015	mg/kg
				2-Butanone (MEK)	<0.0073	0.0073	mg/kg
				2-Chloroethyl Vinyl Ether	<0.0073	0.0073	mg/kg
				2-Chlorotoluene	<0.0015	0.0015	mg/kg
				2-Hexanone	<0.0073	0.0073	mg/kg
				4-Chlorotoluene	<0.0015	0.0015	mg/kg
				4-Methyl-2-Pentanone (MIBK)	<0.0073	0.0073	mg/kg
				Acetone	0.028	0.0073	mg/kg
				Benzene	<0.0015	0.0015	mg/kg
				Bromobenzene	<0.0015	0.0015	mg/kg
				Bromochloromethane	<0.0015	0.0015	mg/kg
				Bromodichloromethane	<0.0015	0.0015	mg/kg
				Bromoform	<0.0015	0.0015	mg/kg
				Bromomethane	<0.0015	0.0015	mg/kg
				Carbon Disulfide	<0.0073	0.0073	mg/kg
				Carbon Tetrachloride	<0.0015	0.0015	mg/kg
				Chlorobenzene	<0.0015	0.0015	mg/kg
				Chloroethane	<0.0073	0.0073	mg/kg
				Chloroform	<0.0015	0.0015	mg/kg
				Chloromethane	<0.0073	0.0073	mg/kg
				cis-1,2-Dichloroethene	<0.0015	0.0015	mg/kg
				cis-1,3-Dichloropropene	<0.0015	0.0015	mg/kg
				Dibromochloromethane	<0.0015	0.0015	mg/kg
				Dibromomethane	<0.0015	0.0015	mg/kg
				Dichlorodifluoromethane	<0.0015	0.0015	mg/kg
				Ethylbenzene	<0.0015	0.0015	mg/kg
				Hexachlorobutadiene	<0.0073	0.0073	mg/kg
				Iodomethane	<0.0073	0.0073	mg/kg
				Isopropylbenzene	<0.0015	0.0015	mg/kg
				m,p-Xylene	<0.0029	0.0029	mg/kg
				Methyl T-Butyl Ether (MTBE)	<0.0015	0.0015	mg/kg
				Methylene Chloride	<0.0073	0.0073	mg/kg

Table C-4A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR10 (continued)	15 - 15.5 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Naphthalene	<0.0015	0.0015	mg/kg
				N-Butylbenzene	<0.0015	0.0015	mg/kg
				N-Propylbenzene	<0.0015	0.0015	mg/kg
				o-Xylene	<0.0015	0.0015	mg/kg
				p-Isopropyltoluene	<0.0015	0.0015	mg/kg
				sec-Butylbenzene	<0.0015	0.0015	mg/kg
				Styrene	<0.0015	0.0015	mg/kg
				tert-Butylbenzene	<0.0015	0.0015	mg/kg
				Tetrachloroethene (PCE)	<0.0015	0.0015	mg/kg
				Toluene	<0.0073	0.0073	mg/kg
				Trans-1,2-Dichloroethene	<0.0015	0.0015	mg/kg
				Trans-1,3-Dichloropropene	<0.0015	0.0015	mg/kg
				Trichloroethene (TCE)	<0.0015	0.0015	mg/kg
				Trichlorofluoromethane	<0.0015	0.0015	mg/kg
				Vinyl Acetate	<0.0073	0.0073	mg/kg
Vinyl Chloride	<0.0015	0.0015	mg/kg				
FAR11	2.5 - 3	Metals	SW6010B	Arsenic	<11	11	mg/kg
				Cadmium	<0.55	0.55	mg/kg
				Chromium	35	0.55	mg/kg
				Lead	150	5.5	mg/kg
			SW7471A	Mercury	<0.27	0.27	mg/kg
		Pesticides	SW8081	4,4'-DDD	<11	11	ug/kg
				4,4'-DDE	<11	11	ug/kg
				4,4'-DDT	<11	11	ug/kg
				Aldrin	<5.5	5.5	ug/kg
				Alpha-Bhc	<5.5	5.5	ug/kg
				Alpha-Chlordane	<11	11	ug/kg
				Beta-Bhc	<5.5	5.5	ug/kg
				Delta-Bhc	<5.5	5.5	ug/kg
				Dieldrin	<11	11	ug/kg
				Endosulfan I	<5.5	5.5	ug/kg
				Endosulfan II	<11	11	ug/kg
				Endosulfan Sulfate	<11	11	ug/kg
				Endrin	<11	11	ug/kg
				Endrin Aldehyde	22	11	ug/kg
				Endrin Ketone	<11	11	ug/kg
				Gamma-Bhc (Lindane)	<5.5	5.5	ug/kg
				Gamma-Chlordane	<11	11	ug/kg
Heptachlor	<5.5	5.5	ug/kg				
Heptachlor Epoxide	<5.5	5.5	ug/kg				
Methoxychlor	<11	11	ug/kg				
Toxaphene	<55	55	ug/kg				
Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.055	0.055	mg/kg		
		Aroclor 1221	<0.055	0.055	mg/kg		
		Aroclor 1232	<0.055	0.055	mg/kg		
		Aroclor 1242	<0.055	0.055	mg/kg		
		Aroclor 1248	<0.055	0.055	mg/kg		
		Aroclor 1254	<0.055	0.055	mg/kg		
		Aroclor 1260	0.09	0.055	mg/kg		

Table C-4A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR11 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.18	0.18	mg/kg
				1,2-Dichlorobenzene	<0.18	0.18	mg/kg
				1,2-Dinitrobenzene	<0.18	0.18	mg/kg
				1,2-Diphenylhydrazine	<0.18	0.18	mg/kg
				1,3-Dichlorobenzene	<0.18	0.18	mg/kg
				1,3-Dinitrobenzene	<0.18	0.18	mg/kg
				1,4-Dichlorobenzene	<0.18	0.18	mg/kg
				1,4-Dinitrobenzene	<0.18	0.18	mg/kg
				1-Methylnaphthalene	<0.0073	0.0073	mg/kg
				2,3,4,6-Tetrachlorophenol	<0.18	0.18	mg/kg
				2,3,5,6-Tetrachlorophenol	<0.18	0.18	mg/kg
				2,3-Dichloroaniline	<0.18	0.18	mg/kg
				2,4,5-Trichlorophenol	<0.18	0.18	mg/kg
				2,4,6-Trichlorophenol	<0.18	0.18	mg/kg
				2,4-Dichlorophenol	<0.18	0.18	mg/kg
				2,4-Dimethylphenol	<1.8	1.8	mg/kg
				2,4-Dinitrophenol	<0.91	0.91	mg/kg
				2,4-Dinitrotoluene	<0.18	0.18	mg/kg
				2,6-Dinitrotoluene	<0.18	0.18	mg/kg
				2-Chloronaphthalene	<0.18	0.18	mg/kg
				2-Chlorophenol	<0.18	0.18	mg/kg
				2-Methylnaphthalene	<0.0073	0.0073	mg/kg
				2-Methylphenol (o-Cresol)	<0.18	0.18	mg/kg
				2-Nitroaniline	<0.18	0.18	mg/kg
				2-Nitrophenol	<0.18	0.18	mg/kg
				3,3'-Dichlorobenzidine	<1.8	1.8	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.18	0.18	mg/kg
				3-Nitroaniline	<0.18	0.18	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.91	0.91	mg/kg
				4-Bromophenyl Phenyl Ether	<0.18	0.18	mg/kg
				4-Chloro-3-Methylphenol	<0.18	0.18	mg/kg
				4-Chloroaniline	<0.18	0.18	mg/kg
				4-Chlorophenyl Phenylether	<0.18	0.18	mg/kg
				4-Nitroaniline	<0.18	0.18	mg/kg
				4-Nitrophenol	<0.18	0.18	mg/kg
				Acenaphthene	<0.0073	0.0073	mg/kg
				Acenaphthylene	<0.0073	0.0073	mg/kg
				Aniline	<0.18	0.18	mg/kg
				Anthracene	<0.0073	0.0073	mg/kg
				Benzidine	<1.8	1.8	mg/kg
				Benzo(a)Anthracene	0.011	0.0073	mg/kg
				Benzo(a)Pyrene	0.011	0.0073	mg/kg
				Benzo(b)Fluoranthene	0.011	0.0073	mg/kg
Benzo(g,h,i)Perylene	0.014	0.0073	mg/kg				
Benzo(j,k)Fluoranthene	0.0092	0.0073	mg/kg				
Benzyl alcohol	<0.18	0.18	mg/kg				

Table C-4A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR11 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Bis(2-Chloroethoxy) Methane	<0.18	0.18	mg/kg
				Bis(2-Chloroethyl) Ether	<0.18	0.18	mg/kg
				Bis(2-Chloroisopropyl)ether	<0.18	0.18	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.18	0.18	mg/kg
				Bis-2-Ethylhexyladipate	<0.18	0.18	mg/kg
				Butyl Benzyl Phthalate	<1.8	1.8	mg/kg
				Carbazole	<0.18	0.18	mg/kg
				Chrysene	0.023	0.0073	mg/kg
				Dibenzo(a,h)Anthracene	<0.0073	0.0073	mg/kg
				Dibenzofuran	<0.18	0.18	mg/kg
				Diethylphthalate	<0.91	0.91	mg/kg
				Dimethylphthalate	<0.18	0.18	mg/kg
				Di-N-Butylphthalate	<1.8	1.8	mg/kg
				Di-N-Octyl Phthalate	<0.18	0.18	mg/kg
				Fluoranthene	0.024	0.0073	mg/kg
				Fluorene	<0.0073	0.0073	mg/kg
				Hexachlorobenzene	<0.18	0.18	mg/kg
				Hexachlorobutadiene	<0.18	0.18	mg/kg
				Hexachlorocyclopentadiene	<0.18	0.18	mg/kg
				Hexachloroethane	<0.18	0.18	mg/kg
				Indeno(1,2,3-cd)Pyrene	<0.0073	0.0073	mg/kg
				Isophorone	<0.18	0.18	mg/kg
				Naphthalene	0.0094	0.0073	mg/kg
				Nitrobenzene	<0.18	0.18	mg/kg
				N-Nitrosodimethylamine	<0.18	0.18	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.18	0.18	mg/kg
				N-Nitrosodiphenylamine	<0.18	0.18	mg/kg
				Pentachlorophenol	<0.91	0.91	mg/kg
				Phenanthrene	0.018	0.0073	mg/kg
				Phenol	<0.18	0.18	mg/kg
				Pyrene	0.027	0.0073	mg/kg
				Pyridine	<1.8	1.8	mg/kg
				Total Petroleum Hydrocarbons		NWTPH-Dx	Diesel-Range Organics	130	27	mg/kg
Lube Oil	110	55	mg/kg				
NWTPH-GX	Gasoline-Range Organics	<5.8	5.8			mg/kg	

Table C-4A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR11 (continued)	2.5 - 3 (continued)	Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.0012	0.0012	mg/kg
				1,1,1-Trichloroethane	<0.0012	0.0012	mg/kg
				1,1,2,2-Tetrachloroethane	<0.0012	0.0012	mg/kg
				1,1,2-Trichloroethane	<0.0012	0.0012	mg/kg
				1,1-Dichloroethane	<0.0012	0.0012	mg/kg
				1,1-Dichloroethene	<0.0012	0.0012	mg/kg
				1,1-Dichloropropene	<0.0012	0.0012	mg/kg
				1,2,3-Trichlorobenzene	<0.0012	0.0012	mg/kg
				1,2,3-Trichloropropane	<0.0012	0.0012	mg/kg
				1,2,4-Trichlorobenzene	<0.0012	0.0012	mg/kg
				1,2,4-Trimethylbenzene	<0.0012	0.0012	mg/kg
				1,2-Dibromo-3-chloropropane	<0.0061	0.0061	mg/kg
				1,2-Dibromoethane	<0.0012	0.0012	mg/kg
				1,2-Dichlorobenzene	<0.0012	0.0012	mg/kg
				1,2-Dichloroethane	<0.0012	0.0012	mg/kg
				1,2-Dichloropropane	<0.0012	0.0012	mg/kg
				1,3,5-Trimethylbenzene	<0.0012	0.0012	mg/kg
				1,3-Dichlorobenzene	<0.0012	0.0012	mg/kg
				1,3-Dichloropropane	<0.0012	0.0012	mg/kg
				1,4-Dichlorobenzene	<0.0012	0.0012	mg/kg
				2,2-Dichloropropane	<0.0012	0.0012	mg/kg
				2-Butanone (MEK)	0.0077	0.0061	mg/kg
				2-Chloroethyl Vinyl Ether	<0.0061	0.0061	mg/kg
				2-Chlorotoluene	<0.0012	0.0012	mg/kg
				2-Hexanone	<0.0061	0.0061	mg/kg
				4-Chlorotoluene	<0.0012	0.0012	mg/kg
				4-Methyl-2-Pentanone (MIBK)	<0.0061	0.0061	mg/kg
				Acetone	0.073	0.0061	mg/kg
				Benzene	<0.0012	0.0012	mg/kg
				Bromobenzene	<0.0012	0.0012	mg/kg
				Bromochloromethane	<0.0012	0.0012	mg/kg
				Bromodichloromethane	<0.0012	0.0012	mg/kg
				Bromoform	<0.0012	0.0012	mg/kg
				Bromomethane	<0.0012	0.0012	mg/kg
				Carbon Disulfide	<0.0061	0.0061	mg/kg
				Carbon Tetrachloride	<0.0012	0.0012	mg/kg
				Chlorobenzene	<0.0012	0.0012	mg/kg
				Chloroethane	<0.0061	0.0061	mg/kg
				Chloroform	<0.0012	0.0012	mg/kg
				Chloromethane	<0.0061	0.0061	mg/kg
				cis-1,2-Dichloroethene	<0.0012	0.0012	mg/kg
				cis-1,3-Dichloropropene	<0.0012	0.0012	mg/kg
				Dibromochloromethane	<0.0012	0.0012	mg/kg
				Dibromomethane	<0.0012	0.0012	mg/kg
				Dichlorodifluoromethane	<0.0012	0.0012	mg/kg
				Ethylbenzene	<0.0012	0.0012	mg/kg
				Hexachlorobutadiene	<0.0061	0.0061	mg/kg

Table C-4A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure				
FAR11 (continued)	2.5 - 3 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Iodomethane	<0.0061	0.0061	mg/kg				
				Isopropylbenzene	<0.0012	0.0012	mg/kg				
				m,p-Xylene	<0.0024	0.0024	mg/kg				
				Methyl T-Butyl Ether (MTBE)	<0.0012	0.0012	mg/kg				
				Methylene Chloride	<0.0061	0.0061	mg/kg				
				Naphthalene	<0.0012	0.0012	mg/kg				
				N-Butylbenzene	<0.0012	0.0012	mg/kg				
				N-Propylbenzene	<0.0012	0.0012	mg/kg				
				o-Xylene	<0.0012	0.0012	mg/kg				
				p-Isopropyltoluene	<0.0012	0.0012	mg/kg				
				sec-Butylbenzene	<0.0012	0.0012	mg/kg				
				Styrene	<0.0012	0.0012	mg/kg				
				tert-Butylbenzene	<0.0012	0.0012	mg/kg				
				Tetrachloroethene (PCE)	<0.0012	0.0012	mg/kg				
				Toluene	<0.0061	0.0061	mg/kg				
				Trans-1,2-Dichloroethene	<0.0012	0.0012	mg/kg				
				Trans-1,3-Dichloropropene	<0.0012	0.0012	mg/kg				
				Trichloroethene (TCE)	<0.0012	0.0012	mg/kg				
				Trichlorofluoromethane	<0.0012	0.0012	mg/kg				
				Vinyl Acetate	<0.0061	0.0061	mg/kg				
				Vinyl Chloride	<0.0012	0.0012	mg/kg				
				FAR11 (continued)	14.5 - 15	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<28	28	mg/kg
								Heavy Oil-Range Organics	<56	56	mg/kg
						Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.00083	0.00083	mg/kg
								1,1,1-Trichloroethane	<0.00083	0.00083	mg/kg
								1,1,2,2-Tetrachloroethane	<0.00083	0.00083	mg/kg
								1,1,2-Trichloroethane	<0.00083	0.00083	mg/kg
1,1-Dichloroethane	<0.00083	0.00083	mg/kg								
1,1-Dichloroethene	<0.00083	0.00083	mg/kg								
1,1-Dichloropropene	<0.00083	0.00083	mg/kg								
1,2,3-Trichlorobenzene	<0.00083	0.00083	mg/kg								
1,2,3-Trichloropropane	<0.00083	0.00083	mg/kg								
1,2,4-Trichlorobenzene	<0.00083	0.00083	mg/kg								
1,2,4-Trimethylbenzene	<0.00083	0.00083	mg/kg								
1,2-Dibromo-3-chloropropane	<0.0042	0.0042	mg/kg								
1,2-Dibromoethane	<0.00083	0.00083	mg/kg								
1,2-Dichlorobenzene	<0.00083	0.00083	mg/kg								
1,2-Dichloroethane	<0.00083	0.00083	mg/kg								
1,2-Dichloropropane	<0.00083	0.00083	mg/kg								
1,3,5-Trimethylbenzene	<0.00083	0.00083	mg/kg								
1,3-Dichlorobenzene	<0.00083	0.00083	mg/kg								
1,3-Dichloropropane	<0.00083	0.00083	mg/kg								
1,4-Dichlorobenzene	<0.00083	0.00083	mg/kg								
2,2-Dichloropropane	<0.00083	0.00083	mg/kg								
2-Butanone (MEK)	<0.0042	0.0042	mg/kg								
2-Chloroethyl Vinyl Ether	<0.0042	0.0042	mg/kg								
2-Chlorotoluene	<0.00083	0.00083	mg/kg								
2-Hexanone	<0.0042	0.0042	mg/kg								

Table C-4A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR11 (continued)	14.5 - 15 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	4-Chlorotoluene	<0.00083	0.00083	mg/kg
				4-Methyl-2-Pentanone (MIBK)	<0.0042	0.0042	mg/kg
				Acetone	<0.0042	0.0042	mg/kg
				Benzene	<0.00083	0.00083	mg/kg
				Bromobenzene	<0.00083	0.00083	mg/kg
				Bromochloromethane	<0.00083	0.00083	mg/kg
				Bromodichloromethane	<0.00083	0.00083	mg/kg
				Bromoform	<0.00083	0.00083	mg/kg
				Bromomethane	<0.00083	0.00083	mg/kg
				Carbon Disulfide	<0.0042	0.0042	mg/kg
				Carbon Tetrachloride	<0.00083	0.00083	mg/kg
				Chlorobenzene	<0.00083	0.00083	mg/kg
				Chloroethane	<0.0042	0.0042	mg/kg
				Chloroform	<0.00083	0.00083	mg/kg
				Chloromethane	<0.0042	0.0042	mg/kg
				cis-1,2-Dichloroethene	<0.00083	0.00083	mg/kg
				cis-1,3-Dichloropropene	<0.00083	0.00083	mg/kg
				Dibromochloromethane	<0.00083	0.00083	mg/kg
				Dibromomethane	<0.00083	0.00083	mg/kg
				Dichlorodifluoromethane	<0.00083	0.00083	mg/kg
				Ethylbenzene	<0.00083	0.00083	mg/kg
				Hexachlorobutadiene	<0.0042	0.0042	mg/kg
				Iodomethane	<0.0042	0.0042	mg/kg
				Isopropylbenzene	<0.00083	0.00083	mg/kg
				m,p-Xylene	<0.0017	0.0017	mg/kg
				Methyl T-Butyl Ether (MTBE)	<0.00083	0.00083	mg/kg
				Methylene Chloride	<0.0042	0.0042	mg/kg
				Naphthalene	<0.00083	0.00083	mg/kg
				N-Butylbenzene	<0.00083	0.00083	mg/kg
				N-Propylbenzene	<0.00083	0.00083	mg/kg
				o-Xylene	<0.00083	0.00083	mg/kg
				p-Isopropyltoluene	<0.00083	0.00083	mg/kg
				sec-Butylbenzene	<0.00083	0.00083	mg/kg
				Styrene	<0.00083	0.00083	mg/kg
				tert-Butylbenzene	<0.00083	0.00083	mg/kg
				Tetrachloroethene (PCE)	<0.00083	0.00083	mg/kg
				Toluene	<0.0042	0.0042	mg/kg
				Trans-1,2-Dichloroethene	<0.00083	0.00083	mg/kg
				Trans-1,3-Dichloropropene	<0.00083	0.00083	mg/kg
				Trichloroethene (TCE)	<0.00083	0.00083	mg/kg
Trichlorofluoromethane	<0.00083	0.00083	mg/kg				
Vinyl Acetate	<0.0042	0.0042	mg/kg				
Vinyl Chloride	<0.00083	0.00083	mg/kg				

Table C-4A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure		
FAR12	2.5 - 3	Metals	SW6010B	Arsenic	<13	13	mg/kg		
				Cadmium	<0.63	0.63	mg/kg		
				Chromium	51	0.63	mg/kg		
				Lead	<6.3	6.3	mg/kg		
					SW7471A	Mercury	<0.32	0.32	mg/kg
		Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<32	32	mg/kg		
				Heavy Oil-Range Organics	<63	63	mg/kg		
				NWTPH-GX	Gasoline-Range Organics	<7.4	7.4	mg/kg	
		Volatile Organic Compounds	EPA8021	Benzene	<0.02	0.02	mg/kg		
				Ethylbenzene	<0.074	0.074	mg/kg		
m,p-Xylene	<0.074			0.074	mg/kg				
o-Xylene	<0.074			0.074	mg/kg				
Toluene	<0.074			0.074	mg/kg				
FAR23	2.5 - 3	Metals	SW6010B	Arsenic	<11	11	mg/kg		
				Cadmium	<0.53	0.53	mg/kg		
				Chromium	16	0.53	mg/kg		
				Lead	<5.3	5.3	mg/kg		
				SW7471A	Mercury	<0.26	0.26	mg/kg	
		Pesticides	SW8081	4,4'-DDD	<11	11	ug/kg		
				4,4'-DDE	<11	11	ug/kg		
				4,4'-DDT	<11	11	ug/kg		
				Aldrin	<5.3	5.3	ug/kg		
				Alpha-Bhc	<5.3	5.3	ug/kg		
				Alpha-Chlordane	<11	11	ug/kg		
				Beta-Bhc	<5.3	5.3	ug/kg		
				Delta-Bhc	<5.3	5.3	ug/kg		
				Dieldrin	<11	11	ug/kg		
				Endosulfan I	<5.3	5.3	ug/kg		
				Endosulfan II	<11	11	ug/kg		
				Endosulfan Sulfate	<11	11	ug/kg		
				Endrin	<11	11	ug/kg		
				Endrin Aldehyde	<11	11	ug/kg		
				Endrin Ketone	<11	11	ug/kg		
				Gamma-Bhc (Lindane)	<5.3	5.3	ug/kg		
				Gamma-Chlordane	<11	11	ug/kg		
				Heptachlor	<5.3	5.3	ug/kg		
				Heptachlor Epoxide	<5.3	5.3	ug/kg		
				Methoxychlor	<11	11	ug/kg		
				Toxaphene	<53	53	ug/kg		
				Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.053	0.053	mg/kg
						Aroclor 1221	<0.053	0.053	mg/kg
Aroclor 1232	<0.053					0.053	mg/kg		
Aroclor 1242	<0.053	0.053	mg/kg						
Aroclor 1248	<0.053	0.053	mg/kg						
Aroclor 1254	<0.053	0.053	mg/kg						
Aroclor 1260	<0.053	0.053	mg/kg						

Table C-4A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR23 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.035	0.035	mg/kg
				1,2-Dichlorobenzene	<0.035	0.035	mg/kg
				1,2-Dinitrobenzene	<0.035	0.035	mg/kg
				1,2-Diphenylhydrazine	<0.035	0.035	mg/kg
				1,3-Dichlorobenzene	<0.035	0.035	mg/kg
				1,3-Dinitrobenzene	<0.035	0.035	mg/kg
				1,4-Dichlorobenzene	<0.035	0.035	mg/kg
				1,4-Dinitrobenzene	<0.035	0.035	mg/kg
				1-Methylnaphthalene	<0.007	0.007	mg/kg
				2,3,4,6-Tetrachlorophenol	<0.035	0.035	mg/kg
				2,3,5,6-Tetrachlorophenol	<0.035	0.035	mg/kg
				2,3-Dichloroaniline	<0.035	0.035	mg/kg
				2,4,5-Trichlorophenol	<0.035	0.035	mg/kg
				2,4,6-Trichlorophenol	<0.035	0.035	mg/kg
				2,4-Dichlorophenol	<0.035	0.035	mg/kg
				2,4-Dimethylphenol	<0.35	0.35	mg/kg
				2,4-Dinitrophenol	<0.18	0.18	mg/kg
				2,4-Dinitrotoluene	<0.035	0.035	mg/kg
				2,6-Dinitrotoluene	<0.035	0.035	mg/kg
				2-Chloronaphthalene	<0.035	0.035	mg/kg
				2-Chlorophenol	<0.035	0.035	mg/kg
				2-Methylnaphthalene	<0.007	0.007	mg/kg
				2-Methylphenol (o-Cresol)	<0.035	0.035	mg/kg
				2-Nitroaniline	<0.035	0.035	mg/kg
				2-Nitrophenol	<0.035	0.035	mg/kg
				3,3'-Dichlorobenzidine	<0.35	0.35	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.035	0.035	mg/kg
				3-Nitroaniline	<0.035	0.035	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.18	0.18	mg/kg
				4-Bromophenyl Phenyl Ether	<0.035	0.035	mg/kg
				4-Chloro-3-Methylphenol	<0.035	0.035	mg/kg
				4-Chloroaniline	<0.035	0.035	mg/kg
				4-Chlorophenyl Phenylether	<0.035	0.035	mg/kg
				4-Nitroaniline	<0.035	0.035	mg/kg
				4-Nitrophenol	<0.035	0.035	mg/kg
				Acenaphthene	<0.007	0.007	mg/kg
				Acenaphthylene	<0.007	0.007	mg/kg
				Aniline	<0.035	0.035	mg/kg
				Anthracene	<0.007	0.007	mg/kg
				Benzidine	<0.35	0.35	mg/kg
				Benzo(a)Anthracene	<0.007	0.007	mg/kg
				Benzo(a)Pyrene	<0.007	0.007	mg/kg
				Benzo(b)Fluoranthene	<0.007	0.007	mg/kg
Benzo(g,h,i)Perylene	<0.007	0.007	mg/kg				
Benzo(j,k)Fluoranthene	<0.007	0.007	mg/kg				
Benzyl alcohol	<0.035	0.035	mg/kg				

Table C-4A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR23 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Bis(2-Chloroethoxy) Methane	<0.035	0.035	mg/kg
				Bis(2-Chloroethyl) Ether	<0.035	0.035	mg/kg
				Bis(2-Chloroisopropyl)ether	<0.035	0.035	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.035	0.035	mg/kg
				Bis-2-Ethylhexyladipate	<0.035	0.035	mg/kg
				Butyl Benzyl Phthalate	<0.35	0.35	mg/kg
				Carbazole	<0.035	0.035	mg/kg
				Chrysene	<0.007	0.007	mg/kg
				Dibenzo(a,h)Anthracene	<0.007	0.007	mg/kg
				Dibenzofuran	<0.035	0.035	mg/kg
				Diethylphthalate	<0.18	0.18	mg/kg
				Dimethylphthalate	<0.035	0.035	mg/kg
				Di-N-Butylphthalate	<0.35	0.35	mg/kg
				Di-N-Octyl Phthalate	<0.035	0.035	mg/kg
				Fluoranthene	<0.007	0.007	mg/kg
				Fluorene	<0.007	0.007	mg/kg
				Hexachlorobenzene	<0.035	0.035	mg/kg
				Hexachlorobutadiene	<0.035	0.035	mg/kg
				Hexachlorocyclopentadiene	<0.035	0.035	mg/kg
				Hexachloroethane	<0.035	0.035	mg/kg
				Indeno(1,2,3-cd)Pyrene	<0.007	0.007	mg/kg
				Isophorone	<0.035	0.035	mg/kg
				Naphthalene	<0.007	0.007	mg/kg
				Nitrobenzene	<0.035	0.035	mg/kg
				N-Nitrosodimethylamine	<0.035	0.035	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.035	0.035	mg/kg
				N-Nitrosodiphenylamine	<0.035	0.035	mg/kg
				Pentachlorophenol	<0.18	0.18	mg/kg
				Phenanthrene	<0.007	0.007	mg/kg
				Phenol	<0.035	0.035	mg/kg
				Pyrene	<0.007	0.007	mg/kg
				Pyridine	<0.35	0.35	mg/kg
				Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<26	26	mg/kg
		Heavy Oil-Range Organics	<53			53	mg/kg
		NWTPH-GX	Gasoline-Range Organics			<4.7	4.7	mg/kg
		Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.001	0.001	mg/kg
				1,1,1-Trichloroethane	<0.001	0.001	mg/kg
1,1,2,2-Tetrachloroethane	<0.001			0.001	mg/kg		
1,1,2-Trichloroethane	<0.001			0.001	mg/kg		
1,1-Dichloroethane	<0.001			0.001	mg/kg		
1,1-Dichloroethene	<0.001			0.001	mg/kg		

Table C-4A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure			
FAR23 (continued)	2.5 - 3 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	1,1-Dichloropropene	<0.001	0.001	mg/kg			
				1,2,3-Trichlorobenzene	<0.001	0.001	mg/kg			
				1,2,3-Trichloropropane	<0.001	0.001	mg/kg			
				1,2,4-Trichlorobenzene	<0.001	0.001	mg/kg			
				1,2,4-Trimethylbenzene	<0.001	0.001	mg/kg			
				1,2-Dibromo-3-chloropropane	<0.0051	0.0051	mg/kg			
				1,2-Dibromoethane	<0.001	0.001	mg/kg			
				1,2-Dichlorobenzene	<0.001	0.001	mg/kg			
				1,2-Dichloroethane	<0.001	0.001	mg/kg			
				1,2-Dichloropropane	<0.001	0.001	mg/kg			
				1,3,5-Trimethylbenzene	<0.001	0.001	mg/kg			
				1,3-Dichlorobenzene	<0.001	0.001	mg/kg			
				1,3-Dichloropropane	<0.001	0.001	mg/kg			
				1,4-Dichlorobenzene	<0.001	0.001	mg/kg			
				2,2-Dichloropropane	<0.001	0.001	mg/kg			
				2-Butanone (MEK)	<0.0051	0.0051	mg/kg			
				2-Chloroethyl Vinyl Ether	<0.0051	0.0051	mg/kg			
				2-Chlorotoluene	<0.001	0.001	mg/kg			
				2-Hexanone	<0.0051	0.0051	mg/kg			
				4-Chlorotoluene	<0.001	0.001	mg/kg			
				4-Methyl-2-Pentanone (MIBK)	<0.0051	0.0051	mg/kg			
				Acetone				0.011	0.0051	mg/kg
				Benzene	<0.001	0.001	mg/kg			
				Bromobenzene	<0.001	0.001	mg/kg			
				Bromochloromethane	<0.001	0.001	mg/kg			
				Bromodichloromethane	<0.001	0.001	mg/kg			
				Bromoform	<0.001	0.001	mg/kg			
				Bromomethane	<0.001	0.001	mg/kg			
				Carbon Disulfide	<0.0051	0.0051	mg/kg			
				Carbon Tetrachloride	<0.001	0.001	mg/kg			
				Chlorobenzene	<0.001	0.001	mg/kg			
				Chloroethane	<0.0051	0.0051	mg/kg			
				Chloroform	<0.001	0.001	mg/kg			
				Chloromethane	<0.0051	0.0051	mg/kg			
				cis-1,2-Dichloroethene	<0.001	0.001	mg/kg			
				cis-1,3-Dichloropropene	<0.001	0.001	mg/kg			
				Dibromochloromethane	<0.001	0.001	mg/kg			
				Dibromomethane	<0.001	0.001	mg/kg			
				Dichlorodifluoromethane	<0.001	0.001	mg/kg			
				Ethylbenzene	<0.001	0.001	mg/kg			
				Hexachlorobutadiene	<0.0051	0.0051	mg/kg			
				Iodomethane	<0.0051	0.0051	mg/kg			
				Isopropylbenzene	<0.001	0.001	mg/kg			
m,p-Xylene	<0.0021	0.0021	mg/kg							
Methyl T-Butyl Ether (MTBE)	<0.001	0.001	mg/kg							
Methylene Chloride	<0.0051	0.0051	mg/kg							

Table C-4A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure				
FAR23 (continued)	2.5 - 3 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Naphthalene	<0.001	0.001	mg/kg				
				N-Butylbenzene	<0.001	0.001	mg/kg				
				N-Propylbenzene	<0.001	0.001	mg/kg				
				o-Xylene	<0.001	0.001	mg/kg				
				p-Isopropyltoluene	<0.001	0.001	mg/kg				
				sec-Butylbenzene	<0.001	0.001	mg/kg				
				Styrene	<0.001	0.001	mg/kg				
				tert-Butylbenzene	<0.001	0.001	mg/kg				
				Tetrachloroethene (PCE)	<0.001	0.001	mg/kg				
				Toluene	<0.0051	0.0051	mg/kg				
				Trans-1,2-Dichloroethene	<0.001	0.001	mg/kg				
				Trans-1,3-Dichloropropene	<0.001	0.001	mg/kg				
				Trichloroethene (TCE)	<0.001	0.001	mg/kg				
				Trichlorofluoromethane	<0.001	0.001	mg/kg				
				Vinyl Acetate	<0.0051	0.0051	mg/kg				
				Vinyl Chloride	<0.001	0.001	mg/kg				
					6 - 6.5	Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.0011	0.0011	mg/kg
								1,1,1-Trichloroethane	<0.0011	0.0011	mg/kg
								1,1,2,2-Tetrachloroethane	<0.0011	0.0011	mg/kg
								1,1,2-Trichloroethane	<0.0011	0.0011	mg/kg
1,1-Dichloroethane	<0.0011	0.0011	mg/kg								
1,1-Dichloroethene	<0.0011	0.0011	mg/kg								
1,1-Dichloropropene	<0.0011	0.0011	mg/kg								
1,2,3-Trichlorobenzene	<0.0011	0.0011	mg/kg								
1,2,3-Trichloropropane	<0.0011	0.0011	mg/kg								
1,2,4-Trichlorobenzene	<0.0011	0.0011	mg/kg								
1,2,4-Trimethylbenzene	<0.0011	0.0011	mg/kg								
1,2-Dibromo-3-chloropropane	<0.0057	0.0057	mg/kg								
1,2-Dibromoethane	<0.0011	0.0011	mg/kg								
1,2-Dichlorobenzene	<0.0011	0.0011	mg/kg								
1,2-Dichloroethane	<0.0011	0.0011	mg/kg								
1,2-Dichloropropane	<0.0011	0.0011	mg/kg								
1,3,5-Trimethylbenzene	<0.0011	0.0011	mg/kg								
1,3-Dichlorobenzene	<0.0011	0.0011	mg/kg								
1,3-Dichloropropane	<0.0011	0.0011	mg/kg								
1,4-Dichlorobenzene	<0.0011	0.0011	mg/kg								
2,2-Dichloropropane	<0.0011	0.0011	mg/kg								
2-Butanone (MEK)	<0.0057	0.0057	mg/kg								
2-Chloroethyl Vinyl Ether	<0.0057	0.0057	mg/kg								
2-Chlorotoluene	<0.0011	0.0011	mg/kg								
2-Hexanone	<0.0057	0.0057	mg/kg								
4-Chlorotoluene	<0.0011	0.0011	mg/kg								
4-Methyl-2-Pentanone (MIBK)	<0.0057	0.0057	mg/kg								

Table C-4A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR23 (continued)	6 - 6.5 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Acetone	0.041	0.0057	mg/kg
				Benzene	<0.0011	0.0011	mg/kg
				Bromobenzene	<0.0011	0.0011	mg/kg
				Bromochloromethane	<0.0011	0.0011	mg/kg
				Bromodichloromethane	<0.0011	0.0011	mg/kg
				Bromoform	<0.0011	0.0011	mg/kg
				Bromomethane	<0.0011	0.0011	mg/kg
				Carbon Disulfide	<0.0057	0.0057	mg/kg
				Carbon Tetrachloride	<0.0011	0.0011	mg/kg
				Chlorobenzene	<0.0011	0.0011	mg/kg
				Chloroethane	<0.0057	0.0057	mg/kg
				Chloroform	<0.0011	0.0011	mg/kg
				Chloromethane	<0.0057	0.0057	mg/kg
				cis-1,2-Dichloroethene	<0.0011	0.0011	mg/kg
				cis-1,3-Dichloropropene	<0.0011	0.0011	mg/kg
				Dibromochloromethane	<0.0011	0.0011	mg/kg
				Dibromomethane	<0.0011	0.0011	mg/kg
				Dichlorodifluoromethane	<0.0011	0.0011	mg/kg
				Ethylbenzene	<0.0011	0.0011	mg/kg
				Hexachlorobutadiene	<0.0057	0.0057	mg/kg
				Iodomethane	<0.0057	0.0057	mg/kg
				Isopropylbenzene	<0.0011	0.0011	mg/kg
				m,p-Xylene	<0.0023	0.0023	mg/kg
				Methyl T-Butyl Ether (MTBE)	<0.0011	0.0011	mg/kg
				Methylene Chloride	<0.0057	0.0057	mg/kg
				Naphthalene	<0.0011	0.0011	mg/kg
				N-Butylbenzene	<0.0011	0.0011	mg/kg
				N-Propylbenzene	<0.0011	0.0011	mg/kg
				o-Xylene	<0.0011	0.0011	mg/kg
				p-Isopropyltoluene	<0.0011	0.0011	mg/kg
				sec-Butylbenzene	<0.0011	0.0011	mg/kg
				Styrene	<0.0011	0.0011	mg/kg
				tert-Butylbenzene	<0.0011	0.0011	mg/kg
				Tetrachloroethene (PCE)	<0.0011	0.0011	mg/kg
				Toluene	<0.0057	0.0057	mg/kg
				Trans-1,2-Dichloroethene	<0.0011	0.0011	mg/kg
				Trans-1,3-Dichloropropene	<0.0011	0.0011	mg/kg
				Trichloroethene (TCE)	<0.0011	0.0011	mg/kg
				Trichlorofluoromethane	<0.0011	0.0011	mg/kg
				Vinyl Acetate	<0.0057	0.0057	mg/kg
				Vinyl Chloride	<0.0011	0.0011	mg/kg

NOTES:

Results in **bold** denote analyte was detected. See Table 7A.

If the result is less than (<) the laboratory reporting limit, the analyte was not detected.

< denotes analyte not detected at or above the laboratory reporting limit listed.

bgs = below ground surface

µg/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

Table C-4B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure	
FAR11	Metals	SW6020	Arsenic (dissolved)	<3	3	ug/l	
			Cadmium (dissolved)	<4	4	ug/l	
			Chromium (dissolved)	<10	10	ug/l	
			Lead (dissolved)	<1	1	ug/l	
			SW7470A	Mercury (dissolved)	<0.5	0.5	ug/l
		Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.96	0.96	ug/l
	1,2-Dichlorobenzene			<0.96	0.96	ug/l	
	1,2-Dinitrobenzene			<0.96	0.96	ug/l	
	1,2-Diphenylhydrazine			<0.96	0.96	ug/l	
	1,3-Dichlorobenzene			<0.96	0.96	ug/l	
	1,3-Dinitrobenzene			<0.96	0.96	ug/l	
	1,4-Dichlorobenzene			<0.96	0.96	ug/l	
	1,4-Dinitrobenzene			<0.96	0.96	ug/l	
	1-Methylnaphthalene			<0.096	0.096	ug/l	
	2,3,4,6-Tetrachlorophenol			<0.96	0.96	ug/l	
	2,3,5,6-Tetrachlorophenol			<0.96	0.96	ug/l	
	2,3-Dichloroaniline			<0.96	0.96	ug/l	
	2,4,5-Trichlorophenol			<0.96	0.96	ug/l	
	2,4,6-Trichlorophenol			<0.96	0.96	ug/l	
	2,4-Dichlorophenol			<0.96	0.96	ug/l	
	2,4-Dimethylphenol			<0.96	0.96	ug/l	
	2,4-Dinitrophenol			<4.8	4.8	ug/l	
	2,4-Dinitrotoluene			<0.96	0.96	ug/l	
	2,6-Dinitrotoluene			<0.96	0.96	ug/l	
	2-Chloronaphthalene			<0.96	0.96	ug/l	
	2-Chlorophenol			<0.96	0.96	ug/l	
2-Methylnaphthalene	<0.096			0.096	ug/l		
2-Methylphenol (o-Cresol)	<0.96	0.96	ug/l				
2-Nitroaniline	<0.96	0.96	ug/l				
2-Nitrophenol	<0.96	0.96	ug/l				
3,3'-Dichlorobenzidine	<0.96	0.96	ug/l				
3,4-Methylphenol(m,p-Cresol)	<0.96	0.96	ug/l				
3-Nitroaniline	<0.96	0.96	ug/l				
4,6-Dinitro-2-Methylphenol	<4.8	4.8	ug/l				
4-Bromophenyl Phenyl Ether	<0.96	0.96	ug/l				
4-Chloro-3-Methylphenol	<0.96	0.96	ug/l				
4-Chloroaniline	<0.96	0.96	ug/l				
4-Chlorophenyl Phenylether	<0.96	0.96	ug/l				
4-Nitroaniline	<0.96	0.96	ug/l				
4-Nitrophenol	<0.96	0.96	ug/l				
Acenaphthene	<0.096	0.096	ug/l				
Acenaphthylene	<0.096	0.096	ug/l				

Table C-4B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR11 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Aniline	<4.8	4.8	ug/l
			Anthracene	<0.096	0.096	ug/l
			Benzidine	<4.8	4.8	ug/l
			Benzo(a)Anthracene	<0.0096	0.0096	ug/l
			Benzo(a)Pyrene	<0.0096	0.0096	ug/l
			Benzo(b)Fluoranthene	<0.0096	0.0096	ug/l
			Benzo(g,h,i)Perylene	<0.0096	0.0096	ug/l
			Benzo(j,k)Fluoranthene	<0.0096	0.0096	ug/l
			Benzyl alcohol	<0.96	0.96	ug/l
			Bis(2-Chloroethoxy) Methane	<0.96	0.96	ug/l
			Bis(2-Chloroethyl) Ether	<0.96	0.96	ug/l
			Bis(2-Chloroisopropyl)ether	<0.96	0.96	ug/l
			Bis(2-Ethylhexyl) Phthalate	<0.96	0.96	ug/l
			Bis-2-Ethylhexyladipate	<0.96	0.96	ug/l
			Butyl Benzyl Phthalate	<0.96	0.96	ug/l
			Carbazole	<0.96	0.96	ug/l
			Chrysene	<0.0096	0.0096	ug/l
			Dibenzo(a,h)Anthracene	<0.0096	0.0096	ug/l
			Dibenzofuran	<0.96	0.96	ug/l
			Diethylphthalate	<0.96	0.96	ug/l
			Dimethylphthalate	<0.96	0.96	ug/l
			Di-N-Butylphthalate	<0.96	0.96	ug/l
			Di-N-Octyl Phthalate	<0.96	0.96	ug/l
			Fluoranthene	<0.096	0.096	ug/l
			Fluorene	<0.096	0.096	ug/l
			Hexachlorobenzene	<0.96	0.96	ug/l
			Hexachlorobutadiene	<0.96	0.96	ug/l
			Hexachlorocyclopentadiene	<0.96	0.96	ug/l
			Hexachloroethane	<0.96	0.96	ug/l
			Indeno(1,2,3-cd)Pyrene	<0.0096	0.0096	ug/l
			Isophorone	<0.96	0.96	ug/l
			Naphthalene	<0.096	0.096	ug/l
			Nitrobenzene	<0.96	0.96	ug/l
			N-Nitrosodimethylamine	<0.96	0.96	ug/l
			N-Nitroso-Di-N-Propylamine	<0.96	0.96	ug/l
			N-Nitrosodiphenylamine	<0.96	0.96	ug/l
			Pentachlorophenol	<4.8	4.8	ug/l
			Phenanthrene	<0.096	0.096	ug/l
			Phenol	<0.96	0.96	ug/l
			Pyrene	<0.096	0.096	ug/l
			Pyridine	<0.96	0.96	ug/l
Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<0.26	0.26	mg/l	
		Heavy Oil-Range Organics	<0.42	0.42	mg/l	
	NWTPH-GX	Gasoline-Range Organics	<100	100	ug/l	

Table C-4B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR11 (continued)	Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.2	0.2	ug/l
			1,1,1-Trichloroethane	<0.2	0.2	ug/l
			1,1,2,2-Tetrachloroethane	<0.2	0.2	ug/l
			1,1,2-Trichloroethane	<0.2	0.2	ug/l
			1,1-Dichloroethane	<0.2	0.2	ug/l
			1,1-Dichloroethene	<0.2	0.2	ug/l
			1,1-Dichloropropene	<0.2	0.2	ug/l
			1,2,3-Trichlorobenzene	<0.2	0.2	ug/l
			1,2,3-Trichloropropane	<0.2	0.2	ug/l
			1,2,4-Trichlorobenzene	<0.2	0.2	ug/l
			1,2,4-Trimethylbenzene	<0.2	0.2	ug/l
			1,2-Dibromo-3-chloropropane	<1	1	ug/l
			1,2-Dibromoethane	<0.2	0.2	ug/l
			1,2-Dichlorobenzene	<0.2	0.2	ug/l
			1,2-Dichloroethane	<0.2	0.2	ug/l
			1,2-Dichloropropane	<0.2	0.2	ug/l
			1,3,5-Trimethylbenzene	<0.2	0.2	ug/l
			1,3-Dichlorobenzene	<0.2	0.2	ug/l
			1,3-Dichloropropane	<0.2	0.2	ug/l
			1,4-Dichlorobenzene	<0.2	0.2	ug/l
			2,2-Dichloropropane	<0.2	0.2	ug/l
			2-Butanone (MEK)	<5	5	ug/l
			2-Chloroethyl Vinyl Ether	<1	1	ug/l
			2-Chlorotoluene	<0.2	0.2	ug/l
			2-Hexanone	<2	2	ug/l
			4-Chlorotoluene	<0.2	0.2	ug/l
			4-Methyl-2-Pentanone (MIBK)	<2	2	ug/l
			Acetone	13	5	ug/l
			Benzene	<0.2	0.2	ug/l
			Bromobenzene	<0.2	0.2	ug/l
			Bromochloromethane	<0.2	0.2	ug/l
			Bromodichloromethane	<0.2	0.2	ug/l
			Bromoform	<1	1	ug/l
			Bromomethane	<0.2	0.2	ug/l
			Carbon Disulfide	<0.2	0.2	ug/l
			Carbon Tetrachloride	<0.2	0.2	ug/l
			Chlorobenzene	<0.2	0.2	ug/l
			Chloroethane	<1	1	ug/l
			Chloroform	0.53	0.2	ug/l
			Chloromethane	<1	1	ug/l

Table C-4B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR11 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	cis-1,2-Dichloroethene	<0.2	0.2	ug/l
			cis-1,3-Dichloropropene	<0.2	0.2	ug/l
			Dibromochloromethane	<0.2	0.2	ug/l
			Dibromomethane	<0.2	0.2	ug/l
			Dichlorodifluoromethane	<0.2	0.2	ug/l
			Ethylbenzene	<0.2	0.2	ug/l
			Hexachlorobutadiene	<0.2	0.2	ug/l
			Iodomethane	<1	1	ug/l
			Isopropylbenzene	<0.2	0.2	ug/l
			m,p-Xylene	<0.4	0.4	ug/l
			Methyl T-Butyl Ether (MTBE)	<0.2	0.2	ug/l
			Methylene Chloride	<1	1	ug/l
			Naphthalene	<1	1	ug/l
			N-Butylbenzene	<0.2	0.2	ug/l
			N-Propylbenzene	<0.2	0.2	ug/l
			o-Xylene	<0.2	0.2	ug/l
			p-Isopropyltoluene	0.26	0.2	ug/l
			sec-Butylbenzene	<0.2	0.2	ug/l
			Styrene	<0.2	0.2	ug/l
			tert-Butylbenzene	<0.2	0.2	ug/l
			Tetrachloroethene (PCE)	<0.2	0.2	ug/l
			Toluene	<1	1	ug/l
			Trans-1,2-Dichloroethene	<0.2	0.2	ug/l
			Trans-1,3-Dichloropropene	<0.2	0.2	ug/l
			Trichloroethene (TCE)	<0.2	0.2	ug/l
			Trichlorofluoromethane	<0.2	0.2	ug/l
Vinyl Acetate	<2	2	ug/l			
Vinyl Chloride	<0.2	0.2	ug/l			
FAR12	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<0.27	0.27	mg/l
			Heavy Oil-Range Organics	<0.42	0.42	mg/l
		NWTPH-GX	Gasoline-Range Organics	<100	100	ug/l
	Volatile Organic Compounds	EPA8021	Benzene	<1	1	ug/l
			Ethylbenzene	<1	1	ug/l
			m,p-Xylene	<1	1	ug/l
o-Xylene			<1	1	ug/l	
			Toluene	<1	1	ug/l

Table C-4B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
PZ12	Metals	SW6020	Arsenic (dissolved)	<3	3	ug/l
			Cadmium (dissolved)	<4	4	ug/l
			Chromium (dissolved)	<10	10	ug/l
			Lead (dissolved)	<1	1	ug/l
		SW7470A	Mercury (dissolved)	<0.5	0.5	ug/l
	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<0.26	0.26	mg/l
			Heavy Oil-Range Organics	<0.41	0.41	mg/l
		NWTPH-GX	Gasoline-Range Organics	<100	100	ug/l
	Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.2	0.2	ug/l
			1,1,1-Trichloroethane	<0.2	0.2	ug/l
			1,1,2,2-Tetrachloroethane	<0.2	0.2	ug/l
			1,1,2-Trichloroethane	<0.2	0.2	ug/l
			1,1-Dichloroethane	<0.2	0.2	ug/l
			1,1-Dichloroethene	<0.2	0.2	ug/l
			1,1-Dichloropropene	<0.2	0.2	ug/l
			1,2,3-Trichlorobenzene	<0.2	0.2	ug/l
			1,2,3-Trichloropropane	<0.2	0.2	ug/l
			1,2,4-Trichlorobenzene	<0.2	0.2	ug/l
			1,2,4-Trimethylbenzene	<0.2	0.2	ug/l
			1,2-Dibromo-3-chloropropane	<1	1	ug/l
			1,2-Dibromoethane	<0.2	0.2	ug/l
			1,2-Dichlorobenzene	<0.2	0.2	ug/l
			1,2-Dichloroethane	<0.2	0.2	ug/l
1,2-Dichloropropane			<0.2	0.2	ug/l	
1,3,5-Trimethylbenzene			<0.2	0.2	ug/l	
1,3-Dichlorobenzene			<0.2	0.2	ug/l	
1,3-Dichloropropane			<0.2	0.2	ug/l	
1,4-Dichlorobenzene			<0.2	0.2	ug/l	
2,2-Dichloropropane	<0.2	0.2	ug/l			
2-Butanone (MEK)	<5	5	ug/l			
2-Chloroethyl Vinyl Ether	<1	1	ug/l			
2-Chlorotoluene	<0.2	0.2	ug/l			
2-Hexanone	<2	2	ug/l			
4-Chlorotoluene	<0.2	0.2	ug/l			

Table C-4B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 8
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
PZ12 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	4-Methyl-2-Pentanone (MIBK)	<2	2	ug/l
			Acetone	<5	5	ug/l
			Benzene	<0.2	0.2	ug/l
			Bromobenzene	<0.2	0.2	ug/l
			Bromochloromethane	<0.2	0.2	ug/l
			Bromodichloromethane	<0.2	0.2	ug/l
			Bromoform	<1	1	ug/l
			Bromomethane	<0.2	0.2	ug/l
			Carbon Disulfide	<0.2	0.2	ug/l
			Carbon Tetrachloride	<0.2	0.2	ug/l
			Chlorobenzene	<0.2	0.2	ug/l
			Chloroethane	<1	1	ug/l
			Chloroform	<0.2	0.2	ug/l
			Chloromethane	<1	1	ug/l
			cis-1,2-Dichloroethene	<0.2	0.2	ug/l
			cis-1,3-Dichloropropene	<0.2	0.2	ug/l
			Dibromochloromethane	<0.2	0.2	ug/l
			Dibromomethane	<0.2	0.2	ug/l
			Dichlorodifluoromethane	<0.2	0.2	ug/l
			Ethylbenzene	<0.2	0.2	ug/l
			Hexachlorobutadiene	<0.2	0.2	ug/l
			Iodomethane	<1	1	ug/l
			Isopropylbenzene	<0.2	0.2	ug/l
			m,p-Xylene	<0.4	0.4	ug/l
			Methyl T-Butyl Ether (MTBE)	<0.2	0.2	ug/l
			Methylene Chloride	<1	1	ug/l
			Naphthalene	<1	1	ug/l
			N-Butylbenzene	<0.2	0.2	ug/l
			N-Propylbenzene	<0.2	0.2	ug/l
			o-Xylene	<0.2	0.2	ug/l
			p-Isopropyltoluene	<0.2	0.2	ug/l
			sec-Butylbenzene	<0.2	0.2	ug/l
			Styrene	<0.2	0.2	ug/l
			tert-Butylbenzene	<0.2	0.2	ug/l
Tetrachloroethene (PCE)	<0.2	0.2	ug/l			
Toluene	<1	1	ug/l			
Trans-1,2-Dichloroethene	<0.2	0.2	ug/l			
Trans-1,3-Dichloropropene	<0.2	0.2	ug/l			
Trichloroethene (TCE)	<0.2	0.2	ug/l			
Trichlorofluoromethane	<0.2	0.2	ug/l			
Vinyl Acetate	<2	2	ug/l			
Vinyl Chloride	<0.2	0.2	ug/l			

NOTES:

Results in **bold** denote analyte was detected. See Table 7B.

If the result is less than (<) the laboratory reporting limit, the analyte was not detected.

< denotes analyte not detected at or above the laboratory reporting limit listed.

µg/l = micrograms per liter

mg/l = milligrams per liter

Table C-5A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 9
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR13	2.5 - 3	Metals	SW6010B	Arsenic	<11	11	mg/kg
				Cadmium	<0.55	0.55	mg/kg
Chromium	32	0.55		mg/kg			
Lead	8.2	5.5		mg/kg			
			SW7471A	Mercury	<0.27	0.27	mg/kg
		Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.036	0.036	mg/kg
				1,2-Dichlorobenzene	<0.036	0.036	mg/kg
				1,2-Dinitrobenzene	<0.036	0.036	mg/kg
				1,2-Diphenylhydrazine	<0.036	0.036	mg/kg
				1,3-Dichlorobenzene	<0.036	0.036	mg/kg
				1,3-Dinitrobenzene	<0.036	0.036	mg/kg
				1,4-Dichlorobenzene	<0.036	0.036	mg/kg
				1,4-Dinitrobenzene	<0.036	0.036	mg/kg
				1-Methylnaphthalene	<0.0073	0.0073	mg/kg
				2,3,4,6-Tetrachlorophenol	<0.036	0.036	mg/kg
				2,3,5,6-Tetrachlorophenol	<0.036	0.036	mg/kg
				2,3-Dichloroaniline	<0.036	0.036	mg/kg
				2,4,5-Trichlorophenol	<0.036	0.036	mg/kg
				2,4,6-Trichlorophenol	<0.036	0.036	mg/kg
				2,4-Dichlorophenol	<0.036	0.036	mg/kg
				2,4-Dimethylphenol	<0.36	0.36	mg/kg
				2,4-Dinitrophenol	<0.18	0.18	mg/kg
				2,4-Dinitrotoluene	<0.036	0.036	mg/kg
				2,6-Dinitrotoluene	<0.036	0.036	mg/kg
				2-Chloronaphthalene	<0.036	0.036	mg/kg
				2-Chlorophenol	<0.036	0.036	mg/kg
				2-Methylnaphthalene	<0.0073	0.0073	mg/kg
				2-Methylphenol (o-Cresol)	<0.036	0.036	mg/kg
				2-Nitroaniline	<0.036	0.036	mg/kg
				2-Nitrophenol	<0.036	0.036	mg/kg
				3,3'-Dichlorobenzidine	<0.36	0.36	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.036	0.036	mg/kg
				3-Nitroaniline	<0.036	0.036	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.18	0.18	mg/kg
				4-Bromophenyl Phenyl Ether	<0.036	0.036	mg/kg
				4-Chloro-3-Methylphenol	<0.036	0.036	mg/kg
				4-Chloroaniline	<0.036	0.036	mg/kg
				4-Chlorophenyl Phenylether	<0.036	0.036	mg/kg
				4-Nitroaniline	<0.036	0.036	mg/kg
		4-Nitrophenol	<0.036	0.036	mg/kg		
		Acenaphthene	<0.0073	0.0073	mg/kg		
		Acenaphthylene	<0.0073	0.0073	mg/kg		
		Aniline	<0.036	0.036	mg/kg		
		Anthracene	<0.0073	0.0073	mg/kg		
		Benzidine	<0.36	0.36	mg/kg		
		Benzo(a)Anthracene	<0.0073	0.0073	mg/kg		
		Benzo(a)Pyrene	<0.0073	0.0073	mg/kg		
		Benzo(B)Fluoranthene	<0.0073	0.0073	mg/kg		
		Benzo(g,h,i)Perylene	<0.0073	0.0073	mg/kg		
		Benzo(j,k)Fluoranthene	<0.0073	0.0073	mg/kg		
		Benzyl alcohol	<0.036	0.036	mg/kg		

Table C-5A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 9
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR13 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Bis(2-Chloroethoxy) Methane	<0.036	0.036	mg/kg
				Bis(2-Chloroethyl) Ether	<0.036	0.036	mg/kg
				Bis(2-Chloroisopropyl)ether	<0.036	0.036	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.036	0.036	mg/kg
				Bis-2-Ethylhexyladipate	<0.036	0.036	mg/kg
				Butyl Benzyl Phthalate	<0.36	0.36	mg/kg
				Carbazole	<0.036	0.036	mg/kg
				Chrysene	<0.0073	0.0073	mg/kg
				Dibenzo(a,h)Anthracene	<0.0073	0.0073	mg/kg
				Dibenzofuran	<0.036	0.036	mg/kg
				Diethylphthalate	<0.18	0.18	mg/kg
				Dimethylphthalate	<0.036	0.036	mg/kg
				Di-N-Butylphthalate	<0.36	0.36	mg/kg
				Di-N-Octyl Phthalate	<0.036	0.036	mg/kg
				Fluoranthene	0.0087	0.0073	mg/kg
				Fluorene	<0.0073	0.0073	mg/kg
				Hexachlorobenzene	<0.036	0.036	mg/kg
				Hexachlorobutadiene	<0.036	0.036	mg/kg
				Hexachlorocyclopentadiene	<0.036	0.036	mg/kg
				Hexachloroethane	<0.036	0.036	mg/kg
				Indeno(1,2,3-cd)Pyrene	<0.0073	0.0073	mg/kg
				Isophorone	<0.036	0.036	mg/kg
				Naphthalene	<0.0073	0.0073	mg/kg
				Nitrobenzene	<0.036	0.036	mg/kg
				N-Nitrosodimethylamine	<0.036	0.036	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.036	0.036	mg/kg
				N-Nitrosodiphenylamine	<0.036	0.036	mg/kg
				Pentachlorophenol	<0.18	0.18	mg/kg
				Phenanthrene	<0.0073	0.0073	mg/kg
				Phenol	<0.036	0.036	mg/kg
				Pyrene	0.0082	0.0073	mg/kg
				Pyridine	<0.36	0.36	mg/kg
Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<27	27	mg/kg		
		Lube Oil	55	55	mg/kg		
Volatile Organic Compounds	EPA8021	Benzene	<0.02	0.02	mg/kg		
		Ethylbenzene	<0.06	0.06	mg/kg		
		m,p-Xylene	<0.06	0.06	mg/kg		
		o-Xylene	<0.06	0.06	mg/kg		
		Toluene	<0.06	0.06	mg/kg		
Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<34	34	mg/kg		
		Heavy Oil-Range Organics	<68	68	mg/kg		

Table C-5A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 9
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure		
FAR14	3.5 - 4	Metals	SW6010B	Arsenic	<11	11	mg/kg		
				Cadmium	<0.53	0.53	mg/kg		
				Chromium	25	0.53	mg/kg		
				Lead	<5.3	5.3	mg/kg		
					SW7471A	Mercury	<0.27	0.27	mg/kg
		Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<27	27	mg/kg		
				Heavy Oil-Range Organics	<53	53	mg/kg		
			NWTPH-GX	Gasoline-Range Organics	<6.5	6.5	mg/kg		
		Volatile Organic Compounds	EPA8021	Benzene	<0.02	0.02	mg/kg		
				Ethylbenzene	<0.065	0.065	mg/kg		
m,p-Xylene	<0.065			0.065	mg/kg				
o-Xylene	<0.065			0.065	mg/kg				
Toluene	<0.065			0.065	mg/kg				
FAR15	2.5 - 3	Metals	SW6010B	Arsenic	<12	12	mg/kg		
				Cadmium	<0.58	0.58	mg/kg		
				Chromium	37	0.58	mg/kg		
				Lead	8.6	5.8	mg/kg		
			SW7471A	Mercury	<0.29	0.29	mg/kg		
		Pesticides	SW8081	4,4'-DDD	<12	12	ug/kg		
				4,4'-DDE	<12	12	ug/kg		
				4,4'-DDT	<12	12	ug/kg		
				Aldrin	<5.8	5.8	ug/kg		
				Alpha-Bhc	<5.8	5.8	ug/kg		
				Alpha-Chlordane	<12	12	ug/kg		
				Beta-Bhc	<5.8	5.8	ug/kg		
				Delta-Bhc	<5.8	5.8	ug/kg		
				Dieldrin	<12	12	ug/kg		
				Endosulfan I	<5.8	5.8	ug/kg		
				Endosulfan II	<12	12	ug/kg		
				Endosulfan Sulfate	<12	12	ug/kg		
				Endrin	<12	12	ug/kg		
				Endrin Aldehyde	<12	12	ug/kg		
				Endrin Ketone	<12	12	ug/kg		
				Gamma-Bhc (Lindane)	<5.8	5.8	ug/kg		
				Gamma-Chlordane	<12	12	ug/kg		
				Heptachlor	<5.8	5.8	ug/kg		
Heptachlor Epoxide	<5.8	5.8	ug/kg						
Methoxychlor	<12	12	ug/kg						
Toxaphene	<58	58	ug/kg						
Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.058	0.058	mg/kg				
		Aroclor 1221	<0.058	0.058	mg/kg				
		Aroclor 1232	<0.058	0.058	mg/kg				
		Aroclor 1242	<0.058	0.058	mg/kg				
		Aroclor 1248	<0.058	0.058	mg/kg				
		Aroclor 1254	<0.058	0.058	mg/kg				
		Aroclor 1260	<0.058	0.058	mg/kg				

Table C-5A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 9
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR15 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.039	0.039	mg/kg
				1,2-Dichlorobenzene	<0.039	0.039	mg/kg
				1,2-Dinitrobenzene	<0.039	0.039	mg/kg
				1,2-Diphenylhydrazine	<0.039	0.039	mg/kg
				1,3-Dichlorobenzene	<0.039	0.039	mg/kg
				1,3-Dinitrobenzene	<0.039	0.039	mg/kg
				1,4-Dichlorobenzene	<0.039	0.039	mg/kg
				1,4-Dinitrobenzene	<0.039	0.039	mg/kg
				1-Methylnaphthalene	<0.0078	0.0078	mg/kg
				2,3,4,6-Tetrachlorophenol	<0.039	0.039	mg/kg
				2,3,5,6-Tetrachlorophenol	<0.039	0.039	mg/kg
				2,3-Dichloroaniline	<0.039	0.039	mg/kg
				2,4,5-Trichlorophenol	<0.039	0.039	mg/kg
				2,4,6-Trichlorophenol	<0.039	0.039	mg/kg
				2,4-Dichlorophenol	<0.039	0.039	mg/kg
				2,4-Dimethylphenol	<0.39	0.39	mg/kg
				2,4-Dinitrophenol	<0.19	0.19	mg/kg
				2,4-Dinitrotoluene	<0.039	0.039	mg/kg
				2,6-Dinitrotoluene	<0.039	0.039	mg/kg
				2-Chloronaphthalene	<0.039	0.039	mg/kg
				2-Chlorophenol	<0.039	0.039	mg/kg
				2-Methylnaphthalene	<0.0078	0.0078	mg/kg
				2-Methylphenol (o-Cresol)	<0.039	0.039	mg/kg
				2-Nitroaniline	<0.039	0.039	mg/kg
				2-Nitrophenol	<0.039	0.039	mg/kg
				3,3'-Dichlorobenzidine	<0.39	0.39	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.039	0.039	mg/kg
				3-Nitroaniline	<0.039	0.039	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.19	0.19	mg/kg
				4-Bromophenyl Phenyl Ether	<0.039	0.039	mg/kg
				4-Chloro-3-Methylphenol	<0.039	0.039	mg/kg
				4-Chloroaniline	<0.039	0.039	mg/kg
				4-Chlorophenyl Phenylether	<0.039	0.039	mg/kg
				4-Nitroaniline	<0.039	0.039	mg/kg
				4-Nitrophenol	<0.039	0.039	mg/kg
				Acenaphthene	0.013	0.0078	mg/kg
				Acenaphthylene	0.014	0.0078	mg/kg
				Aniline	<0.039	0.039	mg/kg
				Anthracene	0.067	0.039	mg/kg
				Benzidine	<0.39	0.39	mg/kg
				Benzo(a)Anthracene	0.14	0.039	mg/kg
				Benzo(a)Pyrene	0.18	0.039	mg/kg
				Benzo(B)Fluoranthene	0.17	0.039	mg/kg
				Benzo(g,h,i)Perylene	0.14	0.039	mg/kg
				Benzo(j,k)Fluoranthene	0.17	0.039	mg/kg
Benzyl alcohol	<0.039	0.039	mg/kg				
Bis(2-Chloroethoxy) Methane	<0.039	0.039	mg/kg				
Bis(2-Chloroethyl) Ether	<0.039	0.039	mg/kg				
Bis(2-Chloroisopropyl)ether	<0.039	0.039	mg/kg				
Bis(2-Ethylhexyl) Phthalate	0.11	0.039	mg/kg				
Bis-2-Ethylhexyladipate	<0.039	0.039	mg/kg				

Table C-5A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 9
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure				
FAR15 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Butyl Benzyl Phthalate	<0.39	0.39	mg/kg				
				Carbazole	<0.039	0.039	mg/kg				
				Chrysene	0.22	0.039	mg/kg				
				Dibenzo(a,h)Anthracene	0.044	0.039	mg/kg				
				Dibenzofuran	<0.039	0.039	mg/kg				
				Diethylphthalate	<0.19	0.19	mg/kg				
				Dimethylphthalate	<0.039	0.039	mg/kg				
				Di-N-Butylphthalate	<0.39	0.39	mg/kg				
				Di-N-Octyl Phthalate	<0.039	0.039	mg/kg				
				Fluoranthene	0.45	0.039	mg/kg				
				Fluorene	0.014	0.0078	mg/kg				
				Hexachlorobenzene	<0.039	0.039	mg/kg				
				Hexachlorobutadiene	<0.039	0.039	mg/kg				
				Hexachlorocyclopentadiene	<0.039	0.039	mg/kg				
				Hexachloroethane	<0.039	0.039	mg/kg				
				Indeno(1,2,3-cd)Pyrene	0.13	0.039	mg/kg				
				Isophorone	<0.039	0.039	mg/kg				
				Naphthalene	<0.0078	0.0078	mg/kg				
				Nitrobenzene	<0.039	0.039	mg/kg				
				N-Nitrosodimethylamine	<0.039	0.039	mg/kg				
				N-Nitroso-Di-N-Propylamine	<0.039	0.039	mg/kg				
				N-Nitrosodiphenylamine	<0.039	0.039	mg/kg				
				Pentachlorophenol	<0.19	0.19	mg/kg				
				Phenanthrene	0.21	0.039	mg/kg				
				Phenol	<0.039	0.039	mg/kg				
				Pyrene	0.35	0.039	mg/kg				
				Pyridine	<0.39	0.39	mg/kg				
						Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<29	29	mg/kg
							Heavy Oil-Range Organics	<58	58	mg/kg	
					NWTPH-GX	Gasoline-Range Organics	<12	12	mg/kg		
				Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.0012	0.0012	mg/kg		
								1,1,1-Trichloroethane	<0.0012	0.0012	mg/kg
								1,1,2,2-Tetrachloroethane	<0.0012	0.0012	mg/kg
								1,1,2-Trichloroethane	<0.0012	0.0012	mg/kg
								1,1-Dichloroethane	<0.0012	0.0012	mg/kg
								1,1-Dichloroethene	<0.0012	0.0012	mg/kg
						1,1-Dichloropropene	<0.0012	0.0012	mg/kg		
						1,2,3-Trichlorobenzene	<0.0012	0.0012	mg/kg		
						1,2,3-Trichloropropane	<0.0012	0.0012	mg/kg		
						1,2,4-Trichlorobenzene	<0.0012	0.0012	mg/kg		
						1,2,4-Trimethylbenzene	<0.0012	0.0012	mg/kg		
						1,2-Dibromo-3-chloropropane	<0.0058	0.0058	mg/kg		
						1,2-Dibromoethane	<0.0012	0.0012	mg/kg		
						1,2-Dichlorobenzene	<0.0012	0.0012	mg/kg		
						1,2-Dichloroethane	<0.0012	0.0012	mg/kg		
						1,2-Dichloropropane	<0.0012	0.0012	mg/kg		
						1,3,5-Trimethylbenzene	<0.0012	0.0012	mg/kg		
						1,3-Dichlorobenzene	<0.0012	0.0012	mg/kg		
				1,3-Dichloropropane	<0.0012	0.0012	mg/kg				
				1,4-Dichlorobenzene	<0.0012	0.0012	mg/kg				
				2,2-Dichloropropane	<0.0012	0.0012	mg/kg				

Table C-5A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 9
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR15 (continued)	2.5 - 3 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	2-Butanone (MEK)	<0.0058	0.0058	mg/kg
				2-Chloroethyl Vinyl Ether	<0.0058	0.0058	mg/kg
				2-Chlorotoluene	<0.0012	0.0012	mg/kg
				2-Hexanone	<0.0058	0.0058	mg/kg
				4-Chlorotoluene	<0.0012	0.0012	mg/kg
				4-Methyl-2-Pentanone (MIBK)	<0.0058	0.0058	mg/kg
				Acetone	0.033	0.0058	mg/kg
				Benzene	<0.0012	0.0012	mg/kg
				Bromobenzene	<0.0012	0.0012	mg/kg
				Bromochloromethane	<0.0012	0.0012	mg/kg
				Bromodichloromethane	<0.0012	0.0012	mg/kg
				Bromoform	<0.0012	0.0012	mg/kg
				Bromomethane	<0.0012	0.0012	mg/kg
				Carbon Disulfide	<0.0058	0.0058	mg/kg
				Carbon Tetrachloride	<0.0012	0.0012	mg/kg
				Chlorobenzene	<0.0012	0.0012	mg/kg
				Chloroethane	<0.0058	0.0058	mg/kg
				Chloroform	<0.0012	0.0012	mg/kg
				Chloromethane	<0.0058	0.0058	mg/kg
				cis-1,2-Dichloroethene	<0.0012	0.0012	mg/kg
				cis-1,3-Dichloropropene	<0.0012	0.0012	mg/kg
				Dibromochloromethane	<0.0012	0.0012	mg/kg
				Dibromomethane	<0.0012	0.0012	mg/kg
				Dichlorodifluoromethane	<0.0012	0.0012	mg/kg
				Ethylbenzene	<0.0012	0.0012	mg/kg
				Hexachlorobutadiene	<0.0058	0.0058	mg/kg
				Iodomethane	<0.0058	0.0058	mg/kg
				Isopropylbenzene	<0.0012	0.0012	mg/kg
				m,p-Xylene	<0.0023	0.0023	mg/kg
				Methyl T-Butyl Ether (MTBE)	<0.0012	0.0012	mg/kg
				Methylene Chloride	<0.0058	0.0058	mg/kg
				Naphthalene	<0.0012	0.0012	mg/kg
				N-Butylbenzene	<0.0012	0.0012	mg/kg
				N-Propylbenzene	<0.0012	0.0012	mg/kg
				o-Xylene	<0.0012	0.0012	mg/kg
				p-Isopropyltoluene	<0.0012	0.0012	mg/kg
				sec-Butylbenzene	<0.0012	0.0012	mg/kg
				Styrene	<0.0012	0.0012	mg/kg
				tert-Butylbenzene	<0.0012	0.0012	mg/kg
				Tetrachloroethene (PCE)	<0.0012	0.0012	mg/kg
				Toluene	<0.0058	0.0058	mg/kg
Trans-1,2-Dichloroethene	<0.0012	0.0012	mg/kg				
Trans-1,3-Dichloropropene	<0.0012	0.0012	mg/kg				
Trichloroethene (TCE)	<0.0012	0.0012	mg/kg				
Trichlorofluoromethane	<0.0012	0.0012	mg/kg				
Vinyl Acetate	<0.0058	0.0058	mg/kg				
Vinyl Chloride	<0.0012	0.0012	mg/kg				

Table C-5A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 9
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR15 (continued)	11 - 11.5	Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.036	0.036	mg/kg
				1,2-Dichlorobenzene	<0.036	0.036	mg/kg
				1,2-Dinitrobenzene	<0.036	0.036	mg/kg
				1,2-Diphenylhydrazine	<0.036	0.036	mg/kg
				1,3-Dichlorobenzene	<0.036	0.036	mg/kg
				1,3-Dinitrobenzene	<0.036	0.036	mg/kg
				1,4-Dichlorobenzene	<0.036	0.036	mg/kg
				1,4-Dinitrobenzene	<0.036	0.036	mg/kg
				1-Methylnaphthalene	<0.0072	0.0072	mg/kg
				2,3,4,6-Tetrachlorophenol	<0.036	0.036	mg/kg
				2,3,5,6-Tetrachlorophenol	<0.036	0.036	mg/kg
				2,3-Dichloroaniline	<0.036	0.036	mg/kg
				2,4,5-Trichlorophenol	<0.036	0.036	mg/kg
				2,4,6-Trichlorophenol	<0.036	0.036	mg/kg
				2,4-Dichlorophenol	<0.036	0.036	mg/kg
				2,4-Dimethylphenol	<0.36	0.36	mg/kg
				2,4-Dinitrophenol	<0.18	0.18	mg/kg
				2,4-Dinitrotoluene	<0.036	0.036	mg/kg
				2,6-Dinitrotoluene	<0.036	0.036	mg/kg
				2-Chloronaphthalene	<0.036	0.036	mg/kg
				2-Chlorophenol	<0.036	0.036	mg/kg
				2-Methylnaphthalene	<0.0072	0.0072	mg/kg
				2-Methylphenol (o-Cresol)	<0.036	0.036	mg/kg
				2-Nitroaniline	<0.036	0.036	mg/kg
				2-Nitrophenol	<0.036	0.036	mg/kg
				3,3'-Dichlorobenzidine	<0.36	0.36	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.036	0.036	mg/kg
				3-Nitroaniline	<0.036	0.036	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.18	0.18	mg/kg
				4-Bromophenyl Phenyl Ether	<0.036	0.036	mg/kg
				4-Chloro-3-Methylphenol	<0.036	0.036	mg/kg
				4-Chloroaniline	<0.036	0.036	mg/kg
				4-Chlorophenyl Phenylether	<0.036	0.036	mg/kg
				4-Nitroaniline	<0.036	0.036	mg/kg
				4-Nitrophenol	<0.036	0.036	mg/kg
				Acenaphthene	<0.0072	0.0072	mg/kg
				Acenaphthylene	0.015	0.0072	mg/kg
				Aniline	<0.036	0.036	mg/kg
				Anthracene	0.034	0.0072	mg/kg
				Benzidine	<0.36	0.36	mg/kg
				Benzo(a)Anthracene	0.075	0.036	mg/kg
				Benzo(a)Pyrene	0.11	0.036	mg/kg
				Benzo(B)Fluoranthene	0.16	0.036	mg/kg
				Benzo(g,h,i)Perylene	0.067	0.036	mg/kg
				Benzo(j,k)Fluoranthene	0.1	0.036	mg/kg
				Benzyl alcohol	<0.036	0.036	mg/kg
Bis(2-Chloroethoxy) Methane	<0.036	0.036	mg/kg				
Bis(2-Chloroethyl) Ether	<0.036	0.036	mg/kg				
Bis(2-Chloroisopropyl)ether	<0.036	0.036	mg/kg				
Bis(2-Ethylhexyl) Phthalate	0.059	0.036	mg/kg				
Bis-2-Ethylhexyladipate	<0.036	0.036	mg/kg				

Table C-5A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure	
FAR15 (continued)	11 - 11.5 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Butyl Benzyl Phthalate	<0.36	0.36	mg/kg	
				Carbazole	<0.036	0.036	mg/kg	
				Chrysene	0.22	0.036	mg/kg	
				Dibenzo(a,h)Anthracene	0.024	0.0072	mg/kg	
				Dibenzofuran	<0.036	0.036	mg/kg	
				Diethylphthalate	<0.18	0.18	mg/kg	
				Dimethylphthalate	<0.036	0.036	mg/kg	
				Di-N-Butylphthalate	<0.36	0.36	mg/kg	
				Di-N-Octyl Phthalate	<0.036	0.036	mg/kg	
				Fluoranthene	0.2	0.036	mg/kg	
				Fluorene	0.0072	0.0072	mg/kg	
				Hexachlorobenzene	<0.036	0.036	mg/kg	
				Hexachlorobutadiene	<0.036	0.036	mg/kg	
				Hexachlorocyclopentadiene	<0.036	0.036	mg/kg	
				Hexachloroethane	<0.036	0.036	mg/kg	
				Indeno(1,2,3-cd)Pyrene	0.064	0.036	mg/kg	
				Isophorone	<0.036	0.036	mg/kg	
				Naphthalene	<0.0072	0.0072	mg/kg	
				Nitrobenzene	<0.036	0.036	mg/kg	
				N-Nitrosodimethylamine	<0.036	0.036	mg/kg	
				N-Nitroso-Di-N-Propylamine	<0.036	0.036	mg/kg	
				N-Nitrosodiphenylamine	<0.036	0.036	mg/kg	
				Pentachlorophenol	0.47	0.18	mg/kg	
				Phenanthrene	0.074	0.036	mg/kg	
				Phenol	<0.036	0.036	mg/kg	
				Pyrene	0.19	0.036	mg/kg	
Pyridine	<0.36	0.36	mg/kg					
FAR16	2.5 - 3	Metals	SW6010B	Arsenic	<11	11	mg/kg	
				Cadmium	<0.54	0.54	mg/kg	
				Chromium	41	0.54	mg/kg	
				Lead	7.6	5.4	mg/kg	
				SW7471A	Mercury	<0.27	0.27	mg/kg
		Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<27	27	mg/kg	
				Heavy Oil-Range Organics	<54	54	mg/kg	
			NWTPH-GX	Gasoline-Range Organics	<5.7	5.7	mg/kg	
		Volatile Organic Compounds	EPA8021	Benzene	<0.02	0.02	mg/kg	
				Ethylbenzene	<0.057	0.057	mg/kg	
m,p-Xylene	<0.057			0.057	mg/kg			
o-Xylene	<0.057			0.057	mg/kg			
Toluene	<0.057			0.057	mg/kg			

Table C-5A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR18	0.5 - 1	Metals	SW6010B	Arsenic	<13	13	mg/kg
				Cadmium	<0.67	0.67	mg/kg
				Chromium	55	0.67	mg/kg
				Lead	13	6.7	mg/kg
			SW7471A	Mercury	<0.34	0.34	mg/kg
		Pesticides	SW8081	4,4'-DDD	<13	13	ug/kg
				4,4'-DDE	<13	13	ug/kg
				4,4'-DDT	<13	13	ug/kg
				Aldrin	<6.7	6.7	ug/kg
				Alpha-Bhc	<6.7	6.7	ug/kg
				Alpha-Chlordane	<13	13	ug/kg
				Beta-Bhc	<6.7	6.7	ug/kg
				Delta-Bhc	<6.7	6.7	ug/kg
				Dieldrin	<13	13	ug/kg
				Endosulfan I	<6.7	6.7	ug/kg
				Endosulfan II	<13	13	ug/kg
				Endosulfan Sulfate	<13	13	ug/kg
				Endrin	<13	13	ug/kg
				Endrin Aldehyde	<13	13	ug/kg
				Endrin Ketone	<13	13	ug/kg
				Gamma-Bhc (Lindane)	<6.7	6.7	ug/kg
				Gamma-Chlordane	<13	13	ug/kg
				Heptachlor	<6.7	6.7	ug/kg
				Heptachlor Epoxide	<6.7	6.7	ug/kg
				Methoxychlor	<13	13	ug/kg
		Toxaphene	<67	67	ug/kg		
		Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.067	0.067	mg/kg
				Aroclor 1221	<0.067	0.067	mg/kg
				Aroclor 1232	<0.067	0.067	mg/kg
				Aroclor 1242	<0.067	0.067	mg/kg
				Aroclor 1248	<0.067	0.067	mg/kg
				Aroclor 1254	<0.067	0.067	mg/kg
		Aroclor 1260	0.12	0.067	mg/kg		
Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<1.1	1.1	mg/kg		
		1,2-Dichlorobenzene	<1.1	1.1	mg/kg		
		1,2-Dinitrobenzene	<1.1	1.1	mg/kg		
		1,2-Diphenylhydrazine	<1.1	1.1	mg/kg		
		1,3-Dichlorobenzene	<1.1	1.1	mg/kg		
		1,3-Dinitrobenzene	<1.1	1.1	mg/kg		
		1,4-Dichlorobenzene	<1.1	1.1	mg/kg		
		1,4-Dinitrobenzene	<1.1	1.1	mg/kg		
		1-Methylnaphthalene	<0.045	0.045	mg/kg		
		2,3,4,6-Tetrachlorophenol	<1.1	1.1	mg/kg		
		2,3,5,6-Tetrachlorophenol	<1.1	1.1	mg/kg		
		2,3-Dichloroaniline	<1.1	1.1	mg/kg		
		2,4,5-Trichlorophenol	<1.1	1.1	mg/kg		
		2,4,6-Trichlorophenol	<1.1	1.1	mg/kg		

Table C-5A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR18 (continued)	0.5 - 1 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	2,4-Dichlorophenol	<1.1	1.1	mg/kg
				2,4-Dimethylphenol	<11	11	mg/kg
				2,4-Dinitrophenol	<5.6	5.6	mg/kg
				2,4-Dinitrotoluene	<1.1	1.1	mg/kg
				2,6-Dinitrotoluene	<1.1	1.1	mg/kg
				2-Chloronaphthalene	<1.1	1.1	mg/kg
				2-Chlorophenol	<1.1	1.1	mg/kg
				2-Methylnaphthalene	0.055	0.045	mg/kg
				2-Methylphenol (o-Cresol)	<1.1	1.1	mg/kg
				2-Nitroaniline	<1.1	1.1	mg/kg
				2-Nitrophenol	<1.1	1.1	mg/kg
				3,3'-Dichlorobenzidine	<11	11	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<1.1	1.1	mg/kg
				3-Nitroaniline	<1.1	1.1	mg/kg
				4,6-Dinitro-2-Methylphenol	<5.6	5.6	mg/kg
				4-Bromophenyl Phenyl Ether	<1.1	1.1	mg/kg
				4-Chloro-3-Methylphenol	<1.1	1.1	mg/kg
				4-Chloroaniline	<1.1	1.1	mg/kg
				4-Chlorophenyl Phenylether	<1.1	1.1	mg/kg
				4-Nitroaniline	<1.1	1.1	mg/kg
				4-Nitrophenol	<1.1	1.1	mg/kg
				Acenaphthene	0.17	0.045	mg/kg
				Acenaphthylene	0.14	0.045	mg/kg
				Aniline	<1.1	1.1	mg/kg
				Anthracene	0.58	0.045	mg/kg
				Benzidine	<11	11	mg/kg
				Benzo(a)Anthracene	5.8	1.1	mg/kg
				Benzo(a)Pyrene	7.1	1.1	mg/kg
				Benzo(B)Fluoranthene	7.5	1.1	mg/kg
				Benzo(g,h,i)Perylene	4.6	1.1	mg/kg
				Benzo(j,k)Fluoranthene	7.2	1.1	mg/kg
				Benzyl alcohol	<1.1	1.1	mg/kg
				Bis(2-Chloroethoxy) Methane	<1.1	1.1	mg/kg
				Bis(2-Chloroethyl) Ether	<1.1	1.1	mg/kg
Bis(2-Chloroisopropyl)ether	<1.1	1.1	mg/kg				
Bis(2-Ethylhexyl) Phthalate	<1.1	1.1	mg/kg				
Bis-2-Ethylhexyladipate	<1.1	1.1	mg/kg				

Table C-5A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR18 (continued)	0.5 - 1 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Butyl Benzyl Phthalate	<11	11	mg/kg
				Carbazole	<1.1	1.1	mg/kg
				Chrysene	7.4	1.1	mg/kg
				Dibenzo(a,h)Anthracene	1.9	1.1	mg/kg
				Dibenzofuran	<1.1	1.1	mg/kg
				Diethylphthalate	<5.6	5.6	mg/kg
				Dimethylphthalate	<1.1	1.1	mg/kg
				Di-N-Butylphthalate	<11	11	mg/kg
				Di-N-Octyl Phthalate	<1.1	1.1	mg/kg
				Fluoranthene	7.3	1.1	mg/kg
				Fluorene	0.32	0.045	mg/kg
				Hexachlorobenzene	<1.1	1.1	mg/kg
				Hexachlorobutadiene	<1.1	1.1	mg/kg
				Hexachlorocyclopentadiene	<1.1	1.1	mg/kg
				Hexachloroethane	<1.1	1.1	mg/kg
				Indeno(1,2,3-cd)Pyrene	5.4	1.1	mg/kg
				Isophorone	<1.1	1.1	mg/kg
				Naphthalene	0.091	0.045	mg/kg
				Nitrobenzene	<1.1	1.1	mg/kg
				N-Nitrosodimethylamine	<1.1	1.1	mg/kg
				N-Nitroso-Di-N-Propylamine	<1.1	1.1	mg/kg
				N-Nitrosodiphenylamine	<1.1	1.1	mg/kg
				Pentachlorophenol	<5.6	5.6	mg/kg
				Phenanthrene	2	1.1	mg/kg
				Phenol	<1.1	1.1	mg/kg
				Pyrene	6.8	1.1	mg/kg
				Pyridine	<11	11	mg/kg
		Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	230	170	mg/kg
				Lube Oil	2700	340	mg/kg
			NWTPH-GX	Gasoline-Range Organics	<9.2	9.2	mg/kg
		Volatile Organic Compounds	EPA8021	Benzene	<0.02	0.02	mg/kg
				Ethylbenzene	<0.092	0.092	mg/kg
				m,p-Xylene	<0.092	0.092	mg/kg
		o-Xylene	<0.092	0.092	mg/kg		
		Toluene	0.17	0.092	mg/kg		

Table C-5A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 9
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure		
FAR19	0.5 - 1	Metals	SW6010B	Arsenic	<12	12	mg/kg		
				Cadmium	<0.59	0.59	mg/kg		
		Chromium		55	0.59	mg/kg			
		Lead		10	5.9	mg/kg			
					SW7471A	Mercury	<0.29	0.29	mg/kg
			Pesticides	SW8081	4,4'-DDD	<12	12	ug/kg	
		4,4'-DDE			<12	12	ug/kg		
		4,4'-DDT			<12	12	ug/kg		
		Aldrin			<5.9	5.9	ug/kg		
		Alpha-Bhc			<5.9	5.9	ug/kg		
		Alpha-Chlordane			<12	12	ug/kg		
		Beta-Bhc			<5.9	5.9	ug/kg		
		Delta-Bhc			<5.9	5.9	ug/kg		
		Dieldrin			<12	12	ug/kg		
		Endosulfan I			<5.9	5.9	ug/kg		
		Endosulfan II			<12	12	ug/kg		
		Endosulfan Sulfate			<12	12	ug/kg		
		Endrin			<12	12	ug/kg		
		Endrin Aldehyde			<12	12	ug/kg		
		Endrin Ketone			<12	12	ug/kg		
		Gamma-Bhc (Lindane)			<5.9	5.9	ug/kg		
		Gamma-Chlordane			<12	12	ug/kg		
		Heptachlor			<5.9	5.9	ug/kg		
		Heptachlor Epoxide			<5.9	5.9	ug/kg		
		Methoxychlor			<12	12	ug/kg		
		Toxaphene	<59	59	ug/kg				
			Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.059	0.059	mg/kg	
					Aroclor 1221	<0.059	0.059	mg/kg	
					Aroclor 1232	<0.059	0.059	mg/kg	
					Aroclor 1242	<0.059	0.059	mg/kg	
					Aroclor 1248	<0.059	0.059	mg/kg	
					Aroclor 1254	<0.059	0.059	mg/kg	
					Aroclor 1260	<0.059	0.059	mg/kg	
	Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.98	0.98	mg/kg			
			1,2-Dichlorobenzene	<0.98	0.98	mg/kg			
			1,2-Dinitrobenzene	<0.98	0.98	mg/kg			
			1,2-Diphenylhydrazine	<0.98	0.98	mg/kg			
			1,3-Dichlorobenzene	<0.98	0.98	mg/kg			
			1,3-Dinitrobenzene	<0.98	0.98	mg/kg			
			1,4-Dichlorobenzene	<0.98	0.98	mg/kg			
			1,4-Dinitrobenzene	<0.98	0.98	mg/kg			
			1-Methylnaphthalene	<0.039	0.039	mg/kg			
			2,3,4,6-Tetrachlorophenol	<0.98	0.98	mg/kg			
			2,3,5,6-Tetrachlorophenol	<0.98	0.98	mg/kg			
			2,3-Dichloroaniline	<0.98	0.98	mg/kg			
			2,4,5-Trichlorophenol	<0.98	0.98	mg/kg			
	2,4,6-Trichlorophenol	<0.98	0.98	mg/kg					

Table C-5A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR19 (continued)	0.5 - 1 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	2,4-Dichlorophenol	<0.98	0.98	mg/kg
				2,4-Dimethylphenol	<9.8	9.8	mg/kg
				2,4-Dinitrophenol	<4.9	4.9	mg/kg
				2,4-Dinitrotoluene	<0.98	0.98	mg/kg
				2,6-Dinitrotoluene	<0.98	0.98	mg/kg
				2-Chloronaphthalene	<0.98	0.98	mg/kg
				2-Chlorophenol	<0.98	0.98	mg/kg
				2-Methylnaphthalene	<0.039	0.039	mg/kg
				2-Methylphenol (o-Cresol)	<0.98	0.98	mg/kg
				2-Nitroaniline	<0.98	0.98	mg/kg
				2-Nitrophenol	<0.98	0.98	mg/kg
				3,3'-Dichlorobenzidine	<9.8	9.8	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.98	0.98	mg/kg
				3-Nitroaniline	<0.98	0.98	mg/kg
				4,6-Dinitro-2-Methylphenol	<4.9	4.9	mg/kg
				4-Bromophenyl Phenyl Ether	<0.98	0.98	mg/kg
				4-Chloro-3-Methylphenol	<0.98	0.98	mg/kg
				4-Chloroaniline	<0.98	0.98	mg/kg
				4-Chlorophenyl Phenylether	<0.98	0.98	mg/kg
				4-Nitroaniline	<0.98	0.98	mg/kg
				4-Nitrophenol	<0.98	0.98	mg/kg
				Acenaphthene	<0.039	0.039	mg/kg
				Acenaphthylene	<0.039	0.039	mg/kg
				Aniline	<0.98	0.98	mg/kg
				Anthracene	0.061	0.039	mg/kg
				Benzidine	<9.8	9.8	mg/kg
				Benzo(a)Anthracene	0.53	0.039	mg/kg
				Benzo(a)Pyrene	0.81	0.039	mg/kg
				Benzo(B)Fluoranthene	0.84	0.039	mg/kg
				Benzo(g,h,i)Perylene	0.57	0.039	mg/kg
				Benzo(j,k)Fluoranthene	0.63	0.039	mg/kg
				Benzyl alcohol	<0.98	0.98	mg/kg
				Bis(2-Chloroethoxy) Methane	<0.98	0.98	mg/kg

Table C-5A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR19 (continued)	0.5 - 1 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Bis(2-Chloroethyl) Ether	<0.98	0.98	mg/kg
				Bis(2-Chloroisopropyl)ether	<0.98	0.98	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.98	0.98	mg/kg
				Bis-2-Ethylhexyladipate	<0.98	0.98	mg/kg
				Butyl Benzyl Phthalate	<9.8	9.8	mg/kg
				Carbazole	<0.98	0.98	mg/kg
				Chrysene	0.66	0.039	mg/kg
				Dibenzo(a,h)Anthracene	0.2	0.039	mg/kg
				Dibenzofuran	<0.98	0.98	mg/kg
				Diethylphthalate	<4.9	4.9	mg/kg
				Dimethylphthalate	<0.98	0.98	mg/kg
				Di-N-Butylphthalate	<9.8	9.8	mg/kg
				Di-N-Octyl Phthalate	<0.98	0.98	mg/kg
				Fluoranthene	0.6	0.039	mg/kg
				Fluorene	<0.039	0.039	mg/kg
				Hexachlorobenzene	<0.98	0.98	mg/kg
				Hexachlorobutadiene	<0.98	0.98	mg/kg
				Hexachlorocyclopentadiene	<0.98	0.98	mg/kg
				Hexachloroethane	<0.98	0.98	mg/kg
				Indeno(1,2,3-cd)Pyrene	0.53	0.039	mg/kg
				Isophorone	<0.98	0.98	mg/kg
				Naphthalene	<0.039	0.039	mg/kg
				Nitrobenzene	<0.98	0.98	mg/kg
				N-Nitrosodimethylamine	<0.98	0.98	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.98	0.98	mg/kg
				N-Nitrosodiphenylamine	<0.98	0.98	mg/kg
				Pentachlorophenol	<4.9	4.9	mg/kg
				Phenanthrene	0.26	0.039	mg/kg
				Phenol	<0.98	0.98	mg/kg
				Pyrene	0.5	0.039	mg/kg
		Pyridine	<9.8	9.8	mg/kg		
		Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<150	150	mg/kg
				Lube Oil	1600	300	mg/kg
Volatile Organic Compounds	EPA8021		Gasoline-Range Organics	<10	10	mg/kg	
			Benzene	0.44	0.021	mg/kg	
			Ethylbenzene	0.11	0.1	mg/kg	
			m,p-Xylene	0.36	0.1	mg/kg	
			o-Xylene	<0.1	0.1	mg/kg	
Toluene	<0.1	0.1	mg/kg				

NOTES:

Results in **bold** denote analyte was detected. See Table 7A.

If the result is less than (<) the laboratory reporting limit, the analyte was not detected.

< denotes analyte not detected at or above the laboratory reporting limit listed.

bgs = below ground surface

µg/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

Table C-5B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 9
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR13	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<0.27	0.27	mg/l
			Heavy Oil-Range Organics	<0.42	0.42	mg/l
		NWTPH-GX	Gasoline-Range Organics	<100	100	ug/l
	Volatile Organic Compounds	EPA8021	Benzene	<1	1	ug/l
			Ethylbenzene	<1	1	ug/l
			m,p-Xylene	<1	1	ug/l
o-Xylene			<1	1	ug/l	
Toluene			<1	1	ug/l	
FAR14	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<0.26	0.26	mg/l
			Heavy Oil-Range Organics	<0.42	0.42	mg/l
		NWTPH-GX	Gasoline-Range Organics	<100	100	ug/l
	Volatile Organic Compounds	EPA8021	Benzene	<1	1	ug/l
			Ethylbenzene	<1	1	ug/l
			m,p-Xylene	<1	1	ug/l
o-Xylene			<1	1	ug/l	
Toluene			<1	1	ug/l	
FAR15	Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.98	0.98	ug/l
			1,2-Dichlorobenzene	<0.98	0.98	ug/l
			1,2-Dinitrobenzene	<0.98	0.98	ug/l
			1,2-Diphenylhydrazine	<0.98	0.98	ug/l
			1,3-Dichlorobenzene	<0.98	0.98	ug/l
			1,3-Dinitrobenzene	<0.98	0.98	ug/l
			1,4-Dichlorobenzene	<0.98	0.98	ug/l
			1,4-Dinitrobenzene	<0.98	0.98	ug/l
			1-Methylnaphthalene	<0.098	0.098	ug/l
			2,3,4,6-Tetrachlorophenol	<0.98	0.98	ug/l
			2,3,5,6-Tetrachlorophenol	<0.98	0.98	ug/l
			2,3-Dichloroaniline	<0.98	0.98	ug/l
			2,4,5-Trichlorophenol	<0.98	0.98	ug/l
			2,4,6-Trichlorophenol	<0.98	0.98	ug/l
			2,4-Dichlorophenol	<0.98	0.98	ug/l
			2,4-Dimethylphenol	<0.98	0.98	ug/l
			2,4-Dinitrophenol	<4.9	4.9	ug/l
			2,4-Dinitrotoluene	<0.98	0.98	ug/l
			2,6-Dinitrotoluene	<0.98	0.98	ug/l
			2-Chloronaphthalene	<0.98	0.98	ug/l
			2-Chlorophenol	<0.98	0.98	ug/l
			2-Methylnaphthalene	<0.098	0.098	ug/l
			2-Methylphenol (o-Cresol)	<0.98	0.98	ug/l
2-Nitroaniline	<0.98	0.98	ug/l			
2-Nitrophenol	<0.98	0.98	ug/l			

Table C-5B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 9
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR15 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	3,3'-Dichlorobenzidine	<0.98	0.98	ug/l
			3,4-Methylphenol(m,p-Cresol)	<0.98	0.98	ug/l
			3-Nitroaniline	<0.98	0.98	ug/l
			4,6-Dinitro-2-Methylphenol	<4.9	4.9	ug/l
			4-Bromophenyl Phenyl Ether	<0.98	0.98	ug/l
			4-Chloro-3-Methylphenol	<0.98	0.98	ug/l
			4-Chloroaniline	<0.98	0.98	ug/l
			4-Chlorophenyl Phenylether	<0.98	0.98	ug/l
			4-Nitroaniline	<0.98	0.98	ug/l
			4-Nitrophenol	<0.98	0.98	ug/l
			Acenaphthene	<0.098	0.098	ug/l
			Acenaphthylene	<0.098	0.098	ug/l
			Aniline	<4.9	4.9	ug/l
			Anthracene	<0.098	0.098	ug/l
			Benzidine	<4.9	4.9	ug/l
			Benzo(a)Anthracene	0.01	0.0098	ug/l
			Benzo(a)Pyrene	0.012	0.0098	ug/l
			Benzo(b)Fluoranthene	0.031	0.0098	ug/l
			Benzo(g,h,i)Perylene	0.014	0.0098	ug/l
			Benzo(j,k)Fluoranthene	0.016	0.0098	ug/l
			Benzyl alcohol	<0.98	0.98	ug/l
			Bis(2-Chloroethoxy) Methane	<0.98	0.98	ug/l
			Bis(2-Chloroethyl) Ether	<0.98	0.98	ug/l
			Bis(2-Chloroisopropyl)ether	<0.98	0.98	ug/l
			Bis(2-Ethylhexyl) Phthalate	<0.98	0.98	ug/l
			Bis-2-Ethylhexyladipate	<0.98	0.98	ug/l
			Butyl Benzyl Phthalate	<0.98	0.98	ug/l
			Carbazole	<0.98	0.98	ug/l
			Chrysene	0.044	0.0098	ug/l
			Dibenzo(a,h)Anthracene	<0.0098	0.0098	ug/l
			Dibenzofuran	<0.98	0.98	ug/l
			Diethylphthalate	<0.98	0.98	ug/l
			Dimethylphthalate	<0.98	0.98	ug/l
			Di-N-Butylphthalate	<0.98	0.98	ug/l
			Di-N-Octyl Phthalate	<0.98	0.98	ug/l
			Fluoranthene	<0.098	0.098	ug/l
			Fluorene	<0.098	0.098	ug/l
			Hexachlorobenzene	<0.98	0.98	ug/l
			Hexachlorobutadiene	<0.98	0.98	ug/l
			Hexachlorocyclopentadiene	<0.98	0.98	ug/l
Hexachloroethane	<0.98	0.98	ug/l			

Table C-5B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 9
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR15 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Indeno(1,2,3-cd)Pyrene	0.011	0.0098	ug/l
			Isophorone	<0.98	0.98	ug/l
			Naphthalene	<0.098	0.098	ug/l
			Nitrobenzene	<0.98	0.98	ug/l
			N-Nitrosodimethylamine	<0.98	0.98	ug/l
			N-Nitroso-Di-N-Propylamine	<0.98	0.98	ug/l
			N-Nitrosodiphenylamine	<0.98	0.98	ug/l
			Pentachlorophenol	<4.9	4.9	ug/l
			Phenanthrene	<0.098	0.098	ug/l
			Phenol	<0.98	0.98	ug/l
			Pyrene	<0.098	0.098	ug/l
			Pyridine	<0.98	0.98	ug/l
			Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<0.26	0.26	mg/l
	Heavy Oil-Range Organics	<0.42			0.42	mg/l
	NWTPH-GX	Gasoline-Range Organics		<100	100	ug/l
	Volatile Organic Compounds	EPA8021	Benzene	<1	1	ug/l
			Ethylbenzene	<1	1	ug/l
			m,p-Xylene	<1	1	ug/l
			o-Xylene	<1	1	ug/l
			Toluene	<1	1	ug/l
		SW8260	1,1,1,2-Tetrachloroethane	<0.2	0.2	ug/l
			1,1,1-Trichloroethane	<0.2	0.2	ug/l
			1,1,2,2-Tetrachloroethane	<0.2	0.2	ug/l
			1,1,2-Trichloroethane	<0.2	0.2	ug/l
			1,1-Dichloroethane	<0.2	0.2	ug/l
			1,1-Dichloroethene	<0.2	0.2	ug/l
			1,1-Dichloropropene	<0.2	0.2	ug/l
			1,2,3-Trichlorobenzene	<0.2	0.2	ug/l
			1,2,3-Trichloropropane	<0.2	0.2	ug/l
			1,2,4-Trichlorobenzene	<0.2	0.2	ug/l
			1,2,4-Trimethylbenzene	<0.2	0.2	ug/l
			1,2-Dibromo-3-chloropropane	<1	1	ug/l
			1,2-Dibromoethane	<0.2	0.2	ug/l
1,2-Dichlorobenzene			<0.2	0.2	ug/l	
1,2-Dichloroethane			<0.2	0.2	ug/l	
1,2-Dichloropropane	<0.2	0.2	ug/l			
1,3,5-Trimethylbenzene	<0.2	0.2	ug/l			
1,3-Dichlorobenzene	<0.2	0.2	ug/l			
1,3-Dichloropropane	<0.2	0.2	ug/l			
1,4-Dichlorobenzene	<0.2	0.2	ug/l			

Table C-5B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 9
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR15 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	2,2-Dichloropropane	<0.2	0.2	ug/l
			2-Butanone (MEK)	<5	5	ug/l
			2-Chloroethyl Vinyl Ether	<1	1	ug/l
			2-Chlorotoluene	<0.2	0.2	ug/l
			2-Hexanone	<2	2	ug/l
			4-Chlorotoluene	<0.2	0.2	ug/l
			4-Methyl-2-Pentanone (MIBK)	<2	2	ug/l
			Acetone	<5	5	ug/l
			Benzene	<0.2	0.2	ug/l
			Bromobenzene	<0.2	0.2	ug/l
			Bromochloromethane	<0.2	0.2	ug/l
			Bromodichloromethane	<0.2	0.2	ug/l
			Bromoform	<1	1	ug/l
			Bromomethane	<0.2	0.2	ug/l
			Carbon Disulfide	<0.2	0.2	ug/l
			Carbon Tetrachloride	<0.2	0.2	ug/l
			Chlorobenzene	<0.2	0.2	ug/l
			Chloroethane	<1	1	ug/l
			Chloroform	<0.2	0.2	ug/l
			Chloromethane	<1	1	ug/l
			cis-1,2-Dichloroethene	<0.2	0.2	ug/l
			cis-1,3-Dichloropropene	<0.2	0.2	ug/l
			Dibromochloromethane	<0.2	0.2	ug/l
			Dibromomethane	<0.2	0.2	ug/l
			Dichlorodifluoromethane	<0.2	0.2	ug/l
			Ethylbenzene	<0.2	0.2	ug/l
			Hexachlorobutadiene	<0.2	0.2	ug/l
			Iodomethane	<1	1	ug/l
			Isopropylbenzene	<0.2	0.2	ug/l
			m,p-Xylene	<0.4	0.4	ug/l
			Methyl T-Butyl Ether (MTBE)	<0.2	0.2	ug/l
			Methylene Chloride	<1	1	ug/l
Naphthalene	<1	1	ug/l			
N-Butylbenzene	<0.2	0.2	ug/l			
N-Propylbenzene	<0.2	0.2	ug/l			
o-Xylene	<0.2	0.2	ug/l			
p-Isopropyltoluene	<0.2	0.2	ug/l			
sec-Butylbenzene	<0.2	0.2	ug/l			
Styrene	<0.2	0.2	ug/l			

Table C-5B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 9
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR15 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	tert-Butylbenzene	<0.2	0.2	ug/l
			Tetrachloroethene (PCE)	<0.2	0.2	ug/l
			Toluene	<1	1	ug/l
			Trans-1,2-Dichloroethene	<0.2	0.2	ug/l
			Trans-1,3-Dichloropropene	<0.2	0.2	ug/l
			Trichloroethene (TCE)	<0.2	0.2	ug/l
			Trichlorofluoromethane	<0.2	0.2	ug/l
			Vinyl Acetate	<2	2	ug/l
			Vinyl Chloride	<0.2	0.2	ug/l
FAR16	Metals	SW6020	Arsenic (dissolved)	5.9	3	ug/l
			Cadmium (dissolved)	<4	4	ug/l
			Chromium (dissolved)	<10	10	ug/l
			Lead (dissolved)	<1	1	ug/l
		SW7470A	Mercury (dissolved)	<0.5	0.5	ug/l
	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<0.26	0.26	mg/l
			Heavy Oil-Range Organics	<0.41	0.41	mg/l
		NWTPH-GX	Gasoline-Range Organics	<100	100	ug/l
	Volatile Organic Compounds	EPA8021	Benzene	<1	1	ug/l
			Ethylbenzene	<1	1	ug/l
m,p-Xylene			<1	1	ug/l	
o-Xylene			<1	1	ug/l	
Toluene			<1	1	ug/l	

NOTES:

Results in **bold** denote analyte was detected. See Table 7B.

If the result is less than (<) the laboratory reporting limit, the analyte was not detected.

< denotes analyte not detected at or above the laboratory reporting limit listed.

µg/l = micrograms per liter

mg/l = milligrams per liter

Table C-6A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 12
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR17	2.5 - 3	Metals	SW6010B	Arsenic	<13	13	mg/kg
				Cadmium	<0.63	0.63	mg/kg
				Chromium	56	0.63	mg/kg
				Lead	<6.3	6.3	mg/kg
			SW7471A	Mercury	<0.32	0.32	mg/kg
		Pesticides	SW8081	4,4'-DDD	<13	13	ug/kg
				4,4'-DDE	<13	13	ug/kg
				4,4'-DDT	<13	13	ug/kg
				Aldrin	<6.3	6.3	ug/kg
				Alpha-Bhc	<6.3	6.3	ug/kg
				Alpha-Chlordane	<13	13	ug/kg
				Beta-Bhc	<6.3	6.3	ug/kg
				Delta-Bhc	<6.3	6.3	ug/kg
				Dieldrin	<13	13	ug/kg
				Endosulfan I	<6.3	6.3	ug/kg
				Endosulfan II	<13	13	ug/kg
				Endosulfan Sulfate	<13	13	ug/kg
				Endrin	<13	13	ug/kg
				Endrin Aldehyde	<13	13	ug/kg
				Endrin Ketone	<13	13	ug/kg
				Gamma-Bhc (Lindane)	<6.3	6.3	ug/kg
				Gamma-Chlordane	<13	13	ug/kg
				Heptachlor	<6.3	6.3	ug/kg
				Heptachlor Epoxide	<6.3	6.3	ug/kg
				Methoxychlor	<13	13	ug/kg
		Toxaphene	<63	63	ug/kg		
		Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.063	0.063	mg/kg
				Aroclor 1221	<0.063	0.063	mg/kg
				Aroclor 1232	<0.063	0.063	mg/kg
				Aroclor 1242	<0.063	0.063	mg/kg
				Aroclor 1248	<0.063	0.063	mg/kg
				Aroclor 1254	<0.063	0.063	mg/kg
				Aroclor 1260	<0.063	0.063	mg/kg
		Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.042	0.042	mg/kg
				1,2-Dichlorobenzene	<0.042	0.042	mg/kg
				1,2-Dinitrobenzene	<0.042	0.042	mg/kg
1,2-Diphenylhydrazine	<0.042			0.042	mg/kg		
1,3-Dichlorobenzene	<0.042			0.042	mg/kg		
1,3-Dinitrobenzene	<0.042			0.042	mg/kg		
1,4-Dichlorobenzene	<0.042			0.042	mg/kg		
1,4-Dinitrobenzene	<0.042			0.042	mg/kg		
1-Methylnaphthalene	<0.0084			0.0084	mg/kg		
2,3,4,6-Tetrachlorophenol	<0.042			0.042	mg/kg		
2,3,5,6-Tetrachlorophenol	<0.042			0.042	mg/kg		
2,3-Dichloroaniline	<0.042			0.042	mg/kg		
2,4,5-Trichlorophenol	<0.042			0.042	mg/kg		
2,4,6-Trichlorophenol	<0.042			0.042	mg/kg		
2,4-Dichlorophenol	<0.042	0.042	mg/kg				
2,4-Dimethylphenol	<0.42	0.42	mg/kg				

Table C-6A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 12
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR17 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	2,4-Dinitrophenol	<0.21	0.21	mg/kg
				2,4-Dinitrotoluene	<0.042	0.042	mg/kg
				2,6-Dinitrotoluene	<0.042	0.042	mg/kg
				2-Chloronaphthalene	<0.042	0.042	mg/kg
				2-Chlorophenol	<0.042	0.042	mg/kg
				2-Methylnaphthalene	<0.0084	0.0084	mg/kg
				2-Methylphenol (o-Cresol)	<0.042	0.042	mg/kg
				2-Nitroaniline	<0.042	0.042	mg/kg
				2-Nitrophenol	<0.042	0.042	mg/kg
				3,3'-Dichlorobenzidine	<0.42	0.42	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.042	0.042	mg/kg
				3-Nitroaniline	<0.042	0.042	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.21	0.21	mg/kg
				4-Bromophenyl Phenyl Ether	<0.042	0.042	mg/kg
				4-Chloro-3-Methylphenol	<0.042	0.042	mg/kg
				4-Chloroaniline	<0.042	0.042	mg/kg
				4-Chlorophenyl Phenylether	<0.042	0.042	mg/kg
				4-Nitroaniline	<0.042	0.042	mg/kg
				4-Nitrophenol	<0.042	0.042	mg/kg
				Acenaphthene	<0.0084	0.0084	mg/kg
				Acenaphthylene	<0.0084	0.0084	mg/kg
				Aniline	<0.042	0.042	mg/kg
				Anthracene	<0.0084	0.0084	mg/kg
				Benzidine	<0.42	0.42	mg/kg
				Benzo(a)Anthracene	<0.0084	0.0084	mg/kg
				Benzo(a)Pyrene	<0.0084	0.0084	mg/kg
				Benzo(b)Fluoranthene	<0.0084	0.0084	mg/kg
				Benzo(g,h,i)Perylene	<0.0084	0.0084	mg/kg
				Benzo(j,k)Fluoranthene	<0.0084	0.0084	mg/kg
				Benzyl alcohol	<0.042	0.042	mg/kg
				Bis(2-Chloroethoxy) Methane	<0.042	0.042	mg/kg
				Bis(2-Chloroethyl) Ether	<0.042	0.042	mg/kg
				Bis(2-Chloroisopropyl)ether	<0.042	0.042	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.042	0.042	mg/kg
				Bis-2-Ethylhexyladipate	<0.042	0.042	mg/kg
				Butyl Benzyl Phthalate	<0.42	0.42	mg/kg
				Carbazole	<0.042	0.042	mg/kg
				Chrysene	<0.0084	0.0084	mg/kg
				Dibenzo(a,h)Anthracene	<0.0084	0.0084	mg/kg
				Dibenzofuran	<0.042	0.042	mg/kg
				Diethylphthalate	<0.21	0.21	mg/kg
				Dimethylphthalate	<0.042	0.042	mg/kg
Di-N-Butylphthalate	<0.42	0.42	mg/kg				
Di-N-Octyl Phthalate	<0.042	0.042	mg/kg				
Fluoranthene	<0.0084	0.0084	mg/kg				
Fluorene	<0.0084	0.0084	mg/kg				

Table C-6A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure		
FAR17 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Hexachlorobenzene	<0.042	0.042	mg/kg		
				Hexachlorobutadiene	<0.042	0.042	mg/kg		
				Hexachlorocyclopentadiene	<0.042	0.042	mg/kg		
				Hexachloroethane	<0.042	0.042	mg/kg		
				Indeno(1,2,3-cd)Pyrene	<0.0084	0.0084	mg/kg		
				Isophorone	<0.042	0.042	mg/kg		
				Naphthalene	<0.0084	0.0084	mg/kg		
				Nitrobenzene	<0.042	0.042	mg/kg		
				N-Nitrosodimethylamine	<0.042	0.042	mg/kg		
				N-Nitroso-Di-N-Propylamine	<0.042	0.042	mg/kg		
				N-Nitrosodiphenylamine	<0.042	0.042	mg/kg		
				Pentachlorophenol	<0.21	0.21	mg/kg		
				Phenanthrene	<0.0084	0.0084	mg/kg		
				Phenol	<0.042	0.042	mg/kg		
				Pyrene	<0.0084	0.0084	mg/kg		
				Pyridine	<0.42	0.42	mg/kg		
				Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<32	32	mg/kg
						Heavy Oil-Range Organics	<63	63	mg/kg
					NWTPH-GX	Gasoline-Range Organics	<6.9	6.9	mg/kg
				Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.0013	0.0013	mg/kg
		1,1,1-Trichloroethane	<0.0013			0.0013	mg/kg		
		1,1,2,2-Tetrachloroethane	<0.0013			0.0013	mg/kg		
		1,1,2-Trichloroethane	<0.0013			0.0013	mg/kg		
		1,1-Dichloroethane	<0.0013			0.0013	mg/kg		
		1,1-Dichloroethene	<0.0013			0.0013	mg/kg		
		1,1-Dichloropropene	<0.0013			0.0013	mg/kg		
		1,2,3-Trichlorobenzene	<0.0013			0.0013	mg/kg		
		1,2,3-Trichloropropane	<0.0013			0.0013	mg/kg		
		1,2,4-Trichlorobenzene	<0.0013			0.0013	mg/kg		
		1,2,4-Trimethylbenzene	<0.0013			0.0013	mg/kg		
		1,2-Dibromo-3-chloropropane	<0.0064			0.0064	mg/kg		
		1,2-Dibromoethane	<0.0013			0.0013	mg/kg		
		1,2-Dichlorobenzene	<0.0013			0.0013	mg/kg		
		1,2-Dichloroethane	<0.0013			0.0013	mg/kg		
		1,2-Dichloropropane	<0.0013			0.0013	mg/kg		
		1,3,5-Trimethylbenzene	<0.0013			0.0013	mg/kg		
		1,3-Dichlorobenzene	<0.0013			0.0013	mg/kg		
1,3-Dichloropropane	<0.0013	0.0013	mg/kg						
1,4-Dichlorobenzene	<0.0013	0.0013	mg/kg						
2,2-Dichloropropane	<0.0013	0.0013	mg/kg						
2-Butanone (MEK)	0.0082	0.0064	mg/kg						
2-Chloroethyl Vinyl Ether	<0.0064	0.0064	mg/kg						
2-Chlorotoluene	<0.0013	0.0013	mg/kg						
2-Hexanone	<0.0064	0.0064	mg/kg						
4-Chlorotoluene	<0.0013	0.0013	mg/kg						
4-Methyl-2-Pentanone (MIBK)	<0.0064	0.0064	mg/kg						

Table C-6A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR17 (continued)	2.5 - 3 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Acetone	0.061	0.0064	mg/kg
				Benzene	<0.0013	0.0013	mg/kg
				Bromobenzene	<0.0013	0.0013	mg/kg
				Bromochloromethane	<0.0013	0.0013	mg/kg
				Bromodichloromethane	<0.0013	0.0013	mg/kg
				Bromoform	<0.0013	0.0013	mg/kg
				Bromomethane	<0.0013	0.0013	mg/kg
				Carbon Disulfide	<0.0064	0.0064	mg/kg
				Carbon Tetrachloride	<0.0013	0.0013	mg/kg
				Chlorobenzene	<0.0013	0.0013	mg/kg
				Chloroethane	<0.0064	0.0064	mg/kg
				Chloroform	<0.0013	0.0013	mg/kg
				Chloromethane	<0.0064	0.0064	mg/kg
				cis-1,2-Dichloroethene	<0.0013	0.0013	mg/kg
				cis-1,3-Dichloropropene	<0.0013	0.0013	mg/kg
				Dibromochloromethane	<0.0013	0.0013	mg/kg
				Dibromomethane	<0.0013	0.0013	mg/kg
				Dichlorodifluoromethane	<0.0013	0.0013	mg/kg
				Ethylbenzene	<0.0013	0.0013	mg/kg
				Hexachlorobutadiene	<0.0064	0.0064	mg/kg
				Iodomethane	<0.0064	0.0064	mg/kg
				Isopropylbenzene	<0.0013	0.0013	mg/kg
				m,p-Xylene	<0.0026	0.0026	mg/kg
				Methyl T-Butyl Ether (MTBE)	<0.0013	0.0013	mg/kg
				Methylene Chloride	<0.0064	0.0064	mg/kg
				Naphthalene	<0.0013	0.0013	mg/kg
				N-Butylbenzene	<0.0013	0.0013	mg/kg
				N-Propylbenzene	<0.0013	0.0013	mg/kg
				o-Xylene	<0.0013	0.0013	mg/kg
				p-Isopropyltoluene	<0.0013	0.0013	mg/kg
				sec-Butylbenzene	<0.0013	0.0013	mg/kg
				Styrene	<0.0013	0.0013	mg/kg
				tert-Butylbenzene	<0.0013	0.0013	mg/kg
				Tetrachloroethene (PCE)	<0.0013	0.0013	mg/kg
Toluene	<0.0064	0.0064	mg/kg				
Trans-1,2-Dichloroethene	<0.0013	0.0013	mg/kg				
Trans-1,3-Dichloropropene	<0.0013	0.0013	mg/kg				
Trichloroethene (TCE)	<0.0013	0.0013	mg/kg				
Trichlorofluoromethane	<0.0013	0.0013	mg/kg				
Vinyl Acetate	<0.0064	0.0064	mg/kg				
Vinyl Chloride	<0.0013	0.0013	mg/kg				

Table C-6A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR17 (continued)	8 - 8.5	Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.046	0.046	mg/kg
				1,2-Dichlorobenzene	<0.046	0.046	mg/kg
				1,2-Dinitrobenzene	<0.046	0.046	mg/kg
				1,2-Diphenylhydrazine	<0.046	0.046	mg/kg
				1,3-Dichlorobenzene	<0.046	0.046	mg/kg
				1,3-Dinitrobenzene	<0.046	0.046	mg/kg
				1,4-Dichlorobenzene	<0.046	0.046	mg/kg
				1,4-Dinitrobenzene	<0.046	0.046	mg/kg
				1-Methylnaphthalene	<0.0092	0.0092	mg/kg
				2,3,4,6-Tetrachlorophenol	<0.046	0.046	mg/kg
				2,3,5,6-Tetrachlorophenol	<0.046	0.046	mg/kg
				2,3-Dichloroaniline	<0.046	0.046	mg/kg
				2,4,5-Trichlorophenol	<0.046	0.046	mg/kg
				2,4,6-Trichlorophenol	<0.046	0.046	mg/kg
				2,4-Dichlorophenol	<0.046	0.046	mg/kg
				2,4-Dimethylphenol	<0.46	0.46	mg/kg
				2,4-Dinitrophenol	<0.23	0.23	mg/kg
				2,4-Dinitrotoluene	<0.046	0.046	mg/kg
				2,6-Dinitrotoluene	<0.046	0.046	mg/kg
				2-Chloronaphthalene	<0.046	0.046	mg/kg
				2-Chlorophenol	<0.046	0.046	mg/kg
				2-Methylnaphthalene	<0.0092	0.0092	mg/kg
				2-Methylphenol (o-Cresol)	<0.046	0.046	mg/kg
				2-Nitroaniline	<0.046	0.046	mg/kg
				2-Nitrophenol	<0.046	0.046	mg/kg
				3,3'-Dichlorobenzidine	<0.46	0.46	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.046	0.046	mg/kg
				3-Nitroaniline	<0.046	0.046	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.23	0.23	mg/kg
				4-Bromophenyl Phenyl Ether	<0.046	0.046	mg/kg
				4-Chloro-3-Methylphenol	<0.046	0.046	mg/kg
				4-Chloroaniline	<0.046	0.046	mg/kg
				4-Chlorophenyl Phenylether	<0.046	0.046	mg/kg
				4-Nitroaniline	<0.046	0.046	mg/kg
				4-Nitrophenol	<0.046	0.046	mg/kg
				Acenaphthene	<0.0092	0.0092	mg/kg
				Acenaphthylene	<0.0092	0.0092	mg/kg
				Aniline	<0.046	0.046	mg/kg
				Anthracene	<0.0092	0.0092	mg/kg
				Benzidine	<0.46	0.46	mg/kg
Benzo(a)Anthracene	<0.0092	0.0092	mg/kg				
Benzo(a)Pyrene	<0.0092	0.0092	mg/kg				

Table C-6A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR17 (continued)	8 - 8.5 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Benzo(b)Fluoranthene	<0.0092	0.0092	mg/kg
				Benzo(g,h,i)Perylene	<0.0092	0.0092	mg/kg
				Benzo(j,k)Fluoranthene	<0.0092	0.0092	mg/kg
				Benzyl alcohol	<0.046	0.046	mg/kg
				Bis(2-Chloroethoxy) Methane	<0.046	0.046	mg/kg
				Bis(2-Chloroethyl) Ether	<0.046	0.046	mg/kg
				Bis(2-Chloroisopropyl)ether	<0.046	0.046	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.046	0.046	mg/kg
				Bis-2-Ethylhexyladipate	<0.046	0.046	mg/kg
				Butyl Benzyl Phthalate	<0.46	0.46	mg/kg
				Carbazole	<0.046	0.046	mg/kg
				Chrysene	0.012	0.0092	mg/kg
				Dibenzo(a,h)Anthracene	<0.0092	0.0092	mg/kg
				Dibenzofuran	<0.046	0.046	mg/kg
				Diethylphthalate	<0.23	0.23	mg/kg
				Dimethylphthalate	<0.046	0.046	mg/kg
				Di-N-Butylphthalate	<0.46	0.46	mg/kg
				Di-N-Octyl Phthalate	<0.046	0.046	mg/kg
				Fluoranthene	<0.0092	0.0092	mg/kg
				Fluorene	<0.0092	0.0092	mg/kg
				Hexachlorobenzene	<0.046	0.046	mg/kg
				Hexachlorobutadiene	<0.046	0.046	mg/kg
				Hexachlorocyclopentadiene	<0.046	0.046	mg/kg
				Hexachloroethane	<0.046	0.046	mg/kg
				Indeno(1,2,3-cd)Pyrene	<0.0092	0.0092	mg/kg
				Isophorone	<0.046	0.046	mg/kg
				Naphthalene	<0.0092	0.0092	mg/kg
				Nitrobenzene	<0.046	0.046	mg/kg
				N-Nitrosodimethylamine	<0.046	0.046	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.046	0.046	mg/kg
				N-Nitrosodiphenylamine	<0.046	0.046	mg/kg
				Pentachlorophenol	<0.23	0.23	mg/kg
				Phenanthrene	<0.0092	0.0092	mg/kg
				Phenol	<0.046	0.046	mg/kg
				Pyrene	<0.0092	0.0092	mg/kg
				Pyridine	<0.46	0.46	mg/kg

Table C-6A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR17 (continued)	8 - 8.5 (continued)	Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.0014	0.0014	mg/kg
				1,1,1-Trichloroethane	<0.0014	0.0014	mg/kg
				1,1,2,2-Tetrachloroethane	<0.0014	0.0014	mg/kg
				1,1,2-Trichloroethane	<0.0014	0.0014	mg/kg
				1,1-Dichloroethane	<0.0014	0.0014	mg/kg
				1,1-Dichloroethene	<0.0014	0.0014	mg/kg
				1,1-Dichloropropene	<0.0014	0.0014	mg/kg
				1,2,3-Trichlorobenzene	<0.0014	0.0014	mg/kg
				1,2,3-Trichloropropane	<0.0014	0.0014	mg/kg
				1,2,4-Trichlorobenzene	<0.0014	0.0014	mg/kg
				1,2,4-Trimethylbenzene	<0.0014	0.0014	mg/kg
				1,2-Dibromo-3-chloropropane	<0.007	0.007	mg/kg
				1,2-Dibromoethane	<0.0014	0.0014	mg/kg
				1,2-Dichlorobenzene	<0.0014	0.0014	mg/kg
				1,2-Dichloroethane	<0.0014	0.0014	mg/kg
				1,2-Dichloropropane	<0.0014	0.0014	mg/kg
				1,3,5-Trimethylbenzene	<0.0014	0.0014	mg/kg
				1,3-Dichlorobenzene	<0.0014	0.0014	mg/kg
				1,3-Dichloropropane	<0.0014	0.0014	mg/kg
				1,4-Dichlorobenzene	<0.0014	0.0014	mg/kg
				2,2-Dichloropropane	<0.0014	0.0014	mg/kg
				2-Butanone (MEK)	0.022	0.007	mg/kg
				2-Chloroethyl Vinyl Ether	<0.007	0.007	mg/kg
				2-Chlorotoluene	<0.0014	0.0014	mg/kg
				2-Hexanone	<0.007	0.007	mg/kg
				4-Chlorotoluene	<0.0014	0.0014	mg/kg
				4-Methyl-2-Pentanone (MIBK)	<0.007	0.007	mg/kg
				Acetone	0.15	0.007	mg/kg
				Benzene	<0.0014	0.0014	mg/kg
				Bromobenzene	<0.0014	0.0014	mg/kg
				Bromochloromethane	<0.0014	0.0014	mg/kg
				Bromodichloromethane	<0.0014	0.0014	mg/kg
				Bromoform	<0.0014	0.0014	mg/kg
				Bromomethane	<0.0014	0.0014	mg/kg
				Carbon Disulfide	<0.007	0.007	mg/kg
				Carbon Tetrachloride	<0.0014	0.0014	mg/kg
				Chlorobenzene	<0.0014	0.0014	mg/kg
				Chloroethane	<0.007	0.007	mg/kg
				Chloroform	<0.0014	0.0014	mg/kg
				Chloromethane	<0.007	0.007	mg/kg
				cis-1,2-Dichloroethene	<0.0014	0.0014	mg/kg
cis-1,3-Dichloropropene	<0.0014	0.0014	mg/kg				
Dibromochloromethane	<0.0014	0.0014	mg/kg				
Dibromomethane	<0.0014	0.0014	mg/kg				
Dichlorodifluoromethane	<0.0014	0.0014	mg/kg				
Ethylbenzene	<0.0014	0.0014	mg/kg				

Table C-6A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR17 (continued)	8 - 8.5 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Hexachlorobutadiene	<0.007	0.007	mg/kg
				Iodomethane	<0.007	0.007	mg/kg
				Isopropylbenzene	<0.0014	0.0014	mg/kg
				m,p-Xylene	<0.0028	0.0028	mg/kg
				Methyl T-Butyl Ether (MTBE)	<0.0014	0.0014	mg/kg
				Methylene Chloride	<0.007	0.007	mg/kg
				Naphthalene	<0.0014	0.0014	mg/kg
				N-Butylbenzene	<0.0014	0.0014	mg/kg
				N-Propylbenzene	<0.0014	0.0014	mg/kg
				o-Xylene	<0.0014	0.0014	mg/kg
				p-Isopropyltoluene	<0.0014	0.0014	mg/kg
				sec-Butylbenzene	<0.0014	0.0014	mg/kg
				Styrene	<0.0014	0.0014	mg/kg
				tert-Butylbenzene	<0.0014	0.0014	mg/kg
				Tetrachloroethene (PCE)	<0.0014	0.0014	mg/kg
				Toluene	<0.007	0.007	mg/kg
				Trans-1,2-Dichloroethene	<0.0014	0.0014	mg/kg
				Trans-1,3-Dichloropropene	<0.0014	0.0014	mg/kg
				Trichloroethene (TCE)	<0.0014	0.0014	mg/kg
				Trichlorofluoromethane	<0.0014	0.0014	mg/kg
Vinyl Acetate	<0.007	0.007	mg/kg				
Vinyl Chloride	<0.0014	0.0014	mg/kg				
FAR22	2.5 - 3	Metals	SW6010B	Arsenic	<13	13	mg/kg
				Cadmium	<0.63	0.63	mg/kg
				Chromium	60	0.63	mg/kg
				Lead	<6.3	6.3	mg/kg
			SW7471A	Mercury	<0.31	0.31	mg/kg
	Pesticides	SW8081	4,4'-DDD	<13	13	ug/kg	
			4,4'-DDE	<13	13	ug/kg	
			4,4'-DDT	<13	13	ug/kg	
			Aldrin	<6.3	6.3	ug/kg	
			Alpha-Bhc	<6.3	6.3	ug/kg	
			Alpha-Chlordane	<13	13	ug/kg	
			Beta-Bhc	<6.3	6.3	ug/kg	
			Delta-Bhc	<6.3	6.3	ug/kg	
			Dieldrin	<13	13	ug/kg	
			Endosulfan I	<6.3	6.3	ug/kg	
Endosulfan II	<13	13	ug/kg				
Endosulfan Sulfate	<13	13	ug/kg				
Endrin	<13	13	ug/kg				
Endrin Aldehyde	<13	13	ug/kg				
Endrin Ketone	<13	13	ug/kg				
Gamma-Bhc (Lindane)	<6.3	6.3	ug/kg				
Gamma-Chlordane	<13	13	ug/kg				
Heptachlor	<6.3	6.3	ug/kg				
Heptachlor Epoxide	<6.3	6.3	ug/kg				
Methoxychlor	<13	13	ug/kg				
Toxaphene	<63	63	ug/kg				

Table C-6A
Analytical Results for Tested Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR22 (continued)	2.5 - 3 (continued)	Polychlorinated Biphenyls	SW8082	Aroclor 1016	<0.063	0.063	mg/kg
				Aroclor 1221	<0.063	0.063	mg/kg
				Aroclor 1232	<0.063	0.063	mg/kg
				Aroclor 1242	<0.063	0.063	mg/kg
				Aroclor 1248	<0.063	0.063	mg/kg
				Aroclor 1254	<0.063	0.063	mg/kg
				Aroclor 1260	<0.063	0.063	mg/kg
		Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.042	0.042	mg/kg
				1,2-Dichlorobenzene	<0.042	0.042	mg/kg
				1,2-Dinitrobenzene	<0.042	0.042	mg/kg
				1,2-Diphenylhydrazine	<0.042	0.042	mg/kg
				1,3-Dichlorobenzene	<0.042	0.042	mg/kg
				1,3-Dinitrobenzene	<0.042	0.042	mg/kg
				1,4-Dichlorobenzene	<0.042	0.042	mg/kg
				1,4-Dinitrobenzene	<0.042	0.042	mg/kg
				1-Methylnaphthalene	<0.0084	0.0084	mg/kg
				2,3,4,6-Tetrachlorophenol	<0.042	0.042	mg/kg
				2,3,5,6-Tetrachlorophenol	<0.042	0.042	mg/kg
				2,3-Dichloroaniline	<0.042	0.042	mg/kg
				2,4,5-Trichlorophenol	<0.042	0.042	mg/kg
				2,4,6-Trichlorophenol	<0.042	0.042	mg/kg
				2,4-Dichlorophenol	<0.042	0.042	mg/kg
				2,4-Dimethylphenol	<0.42	0.42	mg/kg
				2,4-Dinitrophenol	<0.21	0.21	mg/kg
				2,4-Dinitrotoluene	<0.042	0.042	mg/kg
				2,6-Dinitrotoluene	<0.042	0.042	mg/kg
				2-Chloronaphthalene	<0.042	0.042	mg/kg
				2-Chlorophenol	<0.042	0.042	mg/kg
				2-Methylnaphthalene	<0.0084	0.0084	mg/kg
				2-Methylphenol (o-Cresol)	<0.042	0.042	mg/kg
				2-Nitroaniline	<0.042	0.042	mg/kg
				2-Nitrophenol	<0.042	0.042	mg/kg
				3,3'-Dichlorobenzidine	<0.42	0.42	mg/kg
3,4-Methylphenol(m,p-Cresol)	<0.042	0.042	mg/kg				
3-Nitroaniline	<0.042	0.042	mg/kg				

Table C-6A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 12
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR22 (continued)	2.5 - 3 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	4,6-Dinitro-2-Methylphenol	<0.21	0.21	mg/kg
				4-Bromophenyl Phenyl Ether	<0.042	0.042	mg/kg
				4-Chloro-3-Methylphenol	<0.042	0.042	mg/kg
				4-Chloroaniline	<0.042	0.042	mg/kg
				4-Chlorophenyl Phenylether	<0.042	0.042	mg/kg
				4-Nitroaniline	<0.042	0.042	mg/kg
				4-Nitrophenol	<0.042	0.042	mg/kg
				Acenaphthene	<0.0084	0.0084	mg/kg
				Acenaphthylene	<0.0084	0.0084	mg/kg
				Aniline	<0.042	0.042	mg/kg
				Anthracene	<0.0084	0.0084	mg/kg
				Benzidine	<0.42	0.42	mg/kg
				Benzo(a)Anthracene	<0.0084	0.0084	mg/kg
				Benzo(a)Pyrene	<0.0084	0.0084	mg/kg
				Benzo(b)Fluoranthene	<0.0084	0.0084	mg/kg
				Benzo(g,h,i)Perylene	<0.0084	0.0084	mg/kg
				Benzo(j,k)Fluoranthene	<0.0084	0.0084	mg/kg
				Benzyl alcohol	<0.042	0.042	mg/kg
				Bis(2-Chloroethoxy) Methane	<0.042	0.042	mg/kg
				Bis(2-Chloroethyl) Ether	<0.042	0.042	mg/kg
				Bis(2-Chloroisopropyl)ether	<0.042	0.042	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.042	0.042	mg/kg
				Bis-2-Ethylhexyladipate	<0.042	0.042	mg/kg
				Butyl Benzyl Phthalate	<0.42	0.42	mg/kg
				Carbazole	<0.042	0.042	mg/kg
				Chrysene	<0.0084	0.0084	mg/kg
				Dibenzo(a,h)Anthracene	<0.0084	0.0084	mg/kg
				Dibenzofuran	<0.042	0.042	mg/kg
				Diethylphthalate	<0.21	0.21	mg/kg
				Dimethylphthalate	<0.042	0.042	mg/kg
				Di-N-Butylphthalate	<0.42	0.42	mg/kg
				Di-N-Octyl Phthalate	<0.042	0.042	mg/kg
				Fluoranthene	<0.0084	0.0084	mg/kg
				Fluorene	<0.0084	0.0084	mg/kg
				Hexachlorobenzene	<0.042	0.042	mg/kg
				Hexachlorobutadiene	<0.042	0.042	mg/kg
				Hexachlorocyclopentadiene	<0.042	0.042	mg/kg
				Hexachloroethane	<0.042	0.042	mg/kg
				Indeno(1,2,3-cd)Pyrene	<0.0084	0.0084	mg/kg
				Isophorone	<0.042	0.042	mg/kg
				Naphthalene	<0.0084	0.0084	mg/kg
				Nitrobenzene	<0.042	0.042	mg/kg
N-Nitrosodimethylamine	<0.042	0.042	mg/kg				
N-Nitroso-Di-N-Propylamine	<0.042	0.042	mg/kg				
N-Nitrosodiphenylamine	<0.042	0.042	mg/kg				
Pentachlorophenol	<0.21	0.21	mg/kg				
Phenanthrene	<0.0084	0.0084	mg/kg				
Phenol	<0.042	0.042	mg/kg				
Pyrene	<0.0084	0.0084	mg/kg				
Pyridine	<0.42	0.42	mg/kg				

Table C-6A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 12
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR22 (continued)	2.5 - 3 (continued)	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<31	31	mg/kg
				Heavy Oil-Range Organics	<63	63	mg/kg
			NWTPH-GX	Gasoline-Range Organics	<7.5	7.5	mg/kg
		Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.0018	0.0018	mg/kg
				1,1,1-Trichloroethane	<0.0018	0.0018	mg/kg
				1,1,2,2-Tetrachloroethane	<0.0018	0.0018	mg/kg
				1,1,2-Trichloroethane	<0.0018	0.0018	mg/kg
				1,1-Dichloroethane	<0.0018	0.0018	mg/kg
				1,1-Dichloroethene	<0.0018	0.0018	mg/kg
				1,1-Dichloropropene	<0.0018	0.0018	mg/kg
				1,2,3-Trichlorobenzene	<0.0018	0.0018	mg/kg
				1,2,3-Trichloropropane	<0.0018	0.0018	mg/kg
				1,2,4-Trichlorobenzene	<0.0018	0.0018	mg/kg
				1,2,4-Trimethylbenzene	<0.0018	0.0018	mg/kg
				1,2-Dibromo-3-chloropropane	<0.0089	0.0089	mg/kg
				1,2-Dibromoethane	<0.0018	0.0018	mg/kg
				1,2-Dichlorobenzene	<0.0018	0.0018	mg/kg
				1,2-Dichloroethane	<0.0018	0.0018	mg/kg
				1,2-Dichloropropane	<0.0018	0.0018	mg/kg
				1,3,5-Trimethylbenzene	<0.0018	0.0018	mg/kg
				1,3-Dichlorobenzene	<0.0018	0.0018	mg/kg
				1,3-Dichloropropane	<0.0018	0.0018	mg/kg
				1,4-Dichlorobenzene	<0.0018	0.0018	mg/kg
				2,2-Dichloropropane	<0.0018	0.0018	mg/kg
				2-Butanone (MEK)	0.017	0.0089	mg/kg
				2-Chloroethyl Vinyl Ether	<0.0089	0.0089	mg/kg
				2-Chlorotoluene	<0.0018	0.0018	mg/kg
				2-Hexanone	<0.0089	0.0089	mg/kg
				4-Chlorotoluene	<0.0018	0.0018	mg/kg
				4-Methyl-2-Pentanone (MIBK)	<0.0089	0.0089	mg/kg
				Acetone	0.096	0.0089	mg/kg
				Benzene	<0.0018	0.0018	mg/kg
				Bromobenzene	<0.0018	0.0018	mg/kg
				Bromochloromethane	<0.0018	0.0018	mg/kg
				Bromodichloromethane	<0.0018	0.0018	mg/kg
				Bromoform	<0.0018	0.0018	mg/kg
		Bromomethane	<0.0018	0.0018	mg/kg		
		Carbon Disulfide	<0.0089	0.0089	mg/kg		
		Carbon Tetrachloride	<0.0018	0.0018	mg/kg		
		Chlorobenzene	<0.0018	0.0018	mg/kg		
		Chloroethane	<0.0089	0.0089	mg/kg		
		Chloroform	<0.0018	0.0018	mg/kg		
		Chloromethane	<0.0089	0.0089	mg/kg		
		cis-1,2-Dichloroethene	<0.0018	0.0018	mg/kg		
		cis-1,3-Dichloropropene	<0.0018	0.0018	mg/kg		
		Dibromochloromethane	<0.0018	0.0018	mg/kg		
		Dibromomethane	<0.0018	0.0018	mg/kg		
		Dichlorodifluoromethane	<0.0018	0.0018	mg/kg		

Table C-6A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 12
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR22 (continued)	2.5 - 3 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Ethylbenzene	<0.0018	0.0018	mg/kg
				Hexachlorobutadiene	<0.0089	0.0089	mg/kg
				Iodomethane	<0.0089	0.0089	mg/kg
				Isopropylbenzene	<0.0018	0.0018	mg/kg
				m,p-Xylene	<0.0035	0.0035	mg/kg
				Methyl T-Butyl Ether (MTBE)	<0.0018	0.0018	mg/kg
				Methylene Chloride	<0.0089	0.0089	mg/kg
				Naphthalene	<0.0018	0.0018	mg/kg
				N-Butylbenzene	<0.0018	0.0018	mg/kg
				N-Propylbenzene	<0.0018	0.0018	mg/kg
				o-Xylene	<0.0018	0.0018	mg/kg
				p-Isopropyltoluene	<0.0018	0.0018	mg/kg
				sec-Butylbenzene	<0.0018	0.0018	mg/kg
				Styrene	<0.0018	0.0018	mg/kg
				tert-Butylbenzene	<0.0018	0.0018	mg/kg
				Tetrachloroethene (PCE)	<0.0018	0.0018	mg/kg
				Toluene	<0.0089	0.0089	mg/kg
				Trans-1,2-Dichloroethene	<0.0018	0.0018	mg/kg
				Trans-1,3-Dichloropropene	<0.0018	0.0018	mg/kg
				Trichloroethene (TCE)	<0.0018	0.0018	mg/kg
Trichlorofluoromethane	<0.0018	0.0018	mg/kg				
Vinyl Acetate	<0.0089	0.0089	mg/kg				
Vinyl Chloride	<0.0018	0.0018	mg/kg				
	6 - 6.5	Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.0013	0.0013	mg/kg
				1,1,1-Trichloroethane	<0.0013	0.0013	mg/kg
				1,1,2,2-Tetrachloroethane	<0.0013	0.0013	mg/kg
				1,1,2-Trichloroethane	<0.0013	0.0013	mg/kg
				1,1-Dichloroethane	<0.0013	0.0013	mg/kg
				1,1-Dichloroethene	<0.0013	0.0013	mg/kg
				1,1-Dichloropropene	<0.0013	0.0013	mg/kg
				1,2,3-Trichlorobenzene	<0.0013	0.0013	mg/kg
				1,2,3-Trichloropropane	<0.0013	0.0013	mg/kg
				1,2,4-Trichlorobenzene	<0.0013	0.0013	mg/kg
				1,2,4-Trimethylbenzene	<0.0013	0.0013	mg/kg
				1,2-Dibromo-3-chloropropane	<0.0065	0.0065	mg/kg
				1,2-Dibromoethane	<0.0013	0.0013	mg/kg
				1,2-Dichlorobenzene	<0.0013	0.0013	mg/kg
				1,2-Dichloroethane	<0.0013	0.0013	mg/kg
				1,2-Dichloropropane	<0.0013	0.0013	mg/kg
				1,3,5-Trimethylbenzene	<0.0013	0.0013	mg/kg
				1,3-Dichlorobenzene	<0.0013	0.0013	mg/kg
				1,3-Dichloropropane	<0.0013	0.0013	mg/kg
				1,4-Dichlorobenzene	<0.0013	0.0013	mg/kg
				2,2-Dichloropropane	<0.0013	0.0013	mg/kg
				2-Butanone (MEK)	<0.0065	0.0065	mg/kg
				2-Chloroethyl Vinyl Ether	<0.0065	0.0065	mg/kg
				2-Chlorotoluene	<0.0013	0.0013	mg/kg
				2-Hexanone	<0.0065	0.0065	mg/kg
				4-Chlorotoluene	<0.0013	0.0013	mg/kg
				4-Methyl-2-Pentanone (MIBK)	<0.0065	0.0065	mg/kg

Table C-6A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 12
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR22 (continued)	6 - 6.5 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Acetone	0.041	0.0065	mg/kg
				Benzene	<0.0013	0.0013	mg/kg
				Bromobenzene	<0.0013	0.0013	mg/kg
				Bromochloromethane	<0.0013	0.0013	mg/kg
				Bromodichloromethane	<0.0013	0.0013	mg/kg
				Bromoform	<0.0013	0.0013	mg/kg
				Bromomethane	<0.0013	0.0013	mg/kg
				Carbon Disulfide	<0.0065	0.0065	mg/kg
				Carbon Tetrachloride	<0.0013	0.0013	mg/kg
				Chlorobenzene	<0.0013	0.0013	mg/kg
				Chloroethane	<0.0065	0.0065	mg/kg
				Chloroform	<0.0013	0.0013	mg/kg
				Chloromethane	<0.0065	0.0065	mg/kg
				cis-1,2-Dichloroethene	<0.0013	0.0013	mg/kg
				cis-1,3-Dichloropropene	<0.0013	0.0013	mg/kg
				Dibromochloromethane	<0.0013	0.0013	mg/kg
				Dibromomethane	<0.0013	0.0013	mg/kg
				Dichlorodifluoromethane	<0.0013	0.0013	mg/kg
				Ethylbenzene	<0.0013	0.0013	mg/kg
				Hexachlorobutadiene	<0.0065	0.0065	mg/kg
				Iodomethane	<0.0065	0.0065	mg/kg
				Isopropylbenzene	<0.0013	0.0013	mg/kg
				m,p-Xylene	<0.0026	0.0026	mg/kg
				Methyl T-Butyl Ether (MTBE)	<0.0013	0.0013	mg/kg
				Methylene Chloride	<0.0065	0.0065	mg/kg
				Naphthalene	<0.0013	0.0013	mg/kg
				N-Butylbenzene	<0.0013	0.0013	mg/kg
				N-Propylbenzene	<0.0013	0.0013	mg/kg
				o-Xylene	<0.0013	0.0013	mg/kg
				p-Isopropyltoluene	<0.0013	0.0013	mg/kg
				sec-Butylbenzene	<0.0013	0.0013	mg/kg
				Styrene	<0.0013	0.0013	mg/kg
				tert-Butylbenzene	<0.0013	0.0013	mg/kg
				Tetrachloroethene (PCE)	<0.0013	0.0013	mg/kg
Toluene	<0.0065	0.0065	mg/kg				
Trans-1,2-Dichloroethene	<0.0013	0.0013	mg/kg				
Trans-1,3-Dichloropropene	<0.0013	0.0013	mg/kg				
Trichloroethene (TCE)	<0.0013	0.0013	mg/kg				
Trichlorofluoromethane	<0.0013	0.0013	mg/kg				
Vinyl Acetate	<0.0065	0.0065	mg/kg				
Vinyl Chloride	<0.0013	0.0013	mg/kg				

Table C-6A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 12
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR22 (continued)	10 - 10.5	Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.04	0.04	mg/kg
				1,2-Dichlorobenzene	<0.04	0.04	mg/kg
				1,2-Dinitrobenzene	<0.04	0.04	mg/kg
				1,2-Diphenylhydrazine	<0.04	0.04	mg/kg
				1,3-Dichlorobenzene	<0.04	0.04	mg/kg
				1,3-Dinitrobenzene	<0.04	0.04	mg/kg
				1,4-Dichlorobenzene	<0.04	0.04	mg/kg
				1,4-Dinitrobenzene	<0.04	0.04	mg/kg
				1-Methylnaphthalene	<0.0079	0.0079	mg/kg
				2,3,4,6-Tetrachlorophenol	<0.04	0.04	mg/kg
				2,3,5,6-Tetrachlorophenol	<0.04	0.04	mg/kg
				2,3-Dichloroaniline	<0.04	0.04	mg/kg
				2,4,5-Trichlorophenol	<0.04	0.04	mg/kg
				2,4,6-Trichlorophenol	<0.04	0.04	mg/kg
				2,4-Dichlorophenol	<0.04	0.04	mg/kg
				2,4-Dimethylphenol	<0.4	0.4	mg/kg
				2,4-Dinitrophenol	<0.2	0.2	mg/kg
				2,4-Dinitrotoluene	<0.04	0.04	mg/kg
				2,6-Dinitrotoluene	<0.04	0.04	mg/kg
				2-Chloronaphthalene	<0.04	0.04	mg/kg
				2-Chlorophenol	<0.04	0.04	mg/kg
				2-Methylnaphthalene	<0.0079	0.0079	mg/kg
				2-Methylphenol (o-Cresol)	<0.04	0.04	mg/kg
				2-Nitroaniline	<0.04	0.04	mg/kg
				2-Nitrophenol	<0.04	0.04	mg/kg
				3,3'-Dichlorobenzidine	<0.4	0.4	mg/kg
				3,4-Methylphenol(m,p-Cresol)	<0.04	0.04	mg/kg
				3-Nitroaniline	<0.04	0.04	mg/kg
				4,6-Dinitro-2-Methylphenol	<0.2	0.2	mg/kg
				4-Bromophenyl Phenyl Ether	<0.04	0.04	mg/kg
				4-Chloro-3-Methylphenol	<0.04	0.04	mg/kg
				4-Chloroaniline	<0.04	0.04	mg/kg
				4-Chlorophenyl Phenylether	<0.04	0.04	mg/kg
				4-Nitroaniline	<0.04	0.04	mg/kg
				4-Nitrophenol	<0.04	0.04	mg/kg
				Acenaphthene	<0.0079	0.0079	mg/kg
				Acenaphthylene	<0.0079	0.0079	mg/kg
				Aniline	<0.04	0.04	mg/kg
				Anthracene	<0.0079	0.0079	mg/kg
				Benzidine	<0.4	0.4	mg/kg
				Benzo(a)Anthracene	<0.0079	0.0079	mg/kg
Benzo(a)Pyrene	<0.0079	0.0079	mg/kg				
Benzo(b)Fluoranthene	<0.0079	0.0079	mg/kg				
Benzo(g,h,i)Perylene	<0.0079	0.0079	mg/kg				
Benzo(j,k)Fluoranthene	<0.0079	0.0079	mg/kg				
Benzyl alcohol	<0.04	0.04	mg/kg				

Table C-6A
Analytical Results for Tested Constituents in Soil
Area of Potential Concern 12
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR22 (continued)	10 - 10.5 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Bis(2-Chloroethoxy) Methane	<0.04	0.04	mg/kg
				Bis(2-Chloroethyl) Ether	<0.04	0.04	mg/kg
				Bis(2-Chloroisopropyl) ether	<0.04	0.04	mg/kg
				Bis(2-Ethylhexyl) Phthalate	<0.04	0.04	mg/kg
				Bis-2-Ethylhexyladipate	<0.04	0.04	mg/kg
				Butyl Benzyl Phthalate	<0.4	0.4	mg/kg
				Carbazole	<0.04	0.04	mg/kg
				Chrysene	0.0083	0.0079	mg/kg
				Dibenzo(a,h)Anthracene	<0.0079	0.0079	mg/kg
				Dibenzofuran	<0.04	0.04	mg/kg
				Diethylphthalate	<0.2	0.2	mg/kg
				Dimethylphthalate	<0.04	0.04	mg/kg
				Di-N-Butylphthalate	<0.4	0.4	mg/kg
				Di-N-Octyl Phthalate	<0.04	0.04	mg/kg
				Fluoranthene	<0.0079	0.0079	mg/kg
				Fluorene	<0.0079	0.0079	mg/kg
				Hexachlorobenzene	<0.04	0.04	mg/kg
				Hexachlorobutadiene	<0.04	0.04	mg/kg
				Hexachlorocyclopentadiene	<0.04	0.04	mg/kg
				Hexachloroethane	<0.04	0.04	mg/kg
				Indeno(1,2,3-cd)Pyrene	<0.0079	0.0079	mg/kg
				Isophorone	<0.04	0.04	mg/kg
				Naphthalene	<0.0079	0.0079	mg/kg
				Nitrobenzene	<0.04	0.04	mg/kg
				N-Nitrosodimethylamine	<0.04	0.04	mg/kg
				N-Nitroso-Di-N-Propylamine	<0.04	0.04	mg/kg
				N-Nitrosodiphenylamine	<0.04	0.04	mg/kg
				Pentachlorophenol	<0.2	0.2	mg/kg
				Phenanthrene	<0.0079	0.0079	mg/kg
				Phenol	<0.04	0.04	mg/kg
				Pyrene	<0.0079	0.0079	mg/kg
				Pyridine	<0.4	0.4	mg/kg

NOTES:

Results in **bold** denote analyte was detected. See Table 7A.

If the result is less than (<) the laboratory reporting limit, the analyte was not detected.

< denotes analyte not detected at or above the laboratory reporting limit listed.

bgs = below ground surface

µg/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

Table C-6B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 12
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR17	Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.95	0.95	ug/l
			1,2-Dichlorobenzene	<0.95	0.95	ug/l
			1,2-Dinitrobenzene	<0.95	0.95	ug/l
			1,2-Diphenylhydrazine	<0.95	0.95	ug/l
			1,3-Dichlorobenzene	<0.95	0.95	ug/l
			1,3-Dinitrobenzene	<0.95	0.95	ug/l
			1,4-Dichlorobenzene	<0.95	0.95	ug/l
			1,4-Dinitrobenzene	<0.95	0.95	ug/l
			1-Methylnaphthalene	<0.095	0.095	ug/l
			2,3,4,6-Tetrachlorophenol	<0.95	0.95	ug/l
			2,3,5,6-Tetrachlorophenol	<0.95	0.95	ug/l
			2,3-Dichloroaniline	<0.95	0.95	ug/l
			2,4,5-Trichlorophenol	<0.95	0.95	ug/l
			2,4,6-Trichlorophenol	<0.95	0.95	ug/l
			2,4-Dichlorophenol	<0.95	0.95	ug/l
			2,4-Dimethylphenol	<0.95	0.95	ug/l
			2,4-Dinitrophenol	<4.7	4.7	ug/l
			2,4-Dinitrotoluene	<0.95	0.95	ug/l
			2,6-Dinitrotoluene	<0.95	0.95	ug/l
			2-Chloronaphthalene	<0.95	0.95	ug/l
			2-Chlorophenol	<0.95	0.95	ug/l
			2-Methylnaphthalene	<0.095	0.095	ug/l
			2-Methylphenol (o-Cresol)	<0.95	0.95	ug/l
			2-Nitroaniline	<0.95	0.95	ug/l
			2-Nitrophenol	<0.95	0.95	ug/l
			3,3`-Dichlorobenzidine	<0.95	0.95	ug/l
			3,4-Methylphenol(m,p-Cresol)	<0.95	0.95	ug/l
			3-Nitroaniline	<0.95	0.95	ug/l
			4,6-Dinitro-2-Methylphenol	<4.7	4.7	ug/l
			4-Bromophenyl Phenyl Ether	<0.95	0.95	ug/l
			4-Chloro-3-Methylphenol	<0.95	0.95	ug/l
			4-Chloroaniline	<0.95	0.95	ug/l
			4-Chlorophenyl Phenylether	<0.95	0.95	ug/l
4-Nitroaniline	<0.95	0.95	ug/l			
4-Nitrophenol	<0.95	0.95	ug/l			
Acenaphthene	<0.095	0.095	ug/l			
Acenaphthylene	<0.095	0.095	ug/l			
Aniline	<4.7	4.7	ug/l			
Anthracene	<0.095	0.095	ug/l			

Table C-6B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 12
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR17 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Benzidine	<4.7	4.7	ug/l
			Benzo(a)Anthracene	<0.0095	0.0095	ug/l
			Benzo(a)Pyrene	<0.0095	0.0095	ug/l
			Benzo(b)Fluoranthene	<0.0095	0.0095	ug/l
			Benzo(g,h,i)Perylene	<0.0095	0.0095	ug/l
			Benzo(j,k)Fluoranthene	<0.0095	0.0095	ug/l
			Benzyl alcohol	<0.95	0.95	ug/l
			Bis(2-Chloroethoxy) Methane	<0.95	0.95	ug/l
			Bis(2-Chloroethyl) Ether	<0.95	0.95	ug/l
			Bis(2-Chloroisopropyl)ether	<0.95	0.95	ug/l
			Bis(2-Ethylhexyl) Phthalate	<0.95	0.95	ug/l
			Bis-2-Ethylhexyladipate	<0.95	0.95	ug/l
			Butyl Benzyl Phthalate	1.1	0.95	ug/l
			Carbazole	<0.95	0.95	ug/l
			Chrysene	<0.0095	0.0095	ug/l
			Dibenzo(a,h)Anthracene	<0.0095	0.0095	ug/l
			Dibenzofuran	<0.95	0.95	ug/l
			Diethylphthalate	<0.95	0.95	ug/l
			Dimethylphthalate	<0.95	0.95	ug/l
			Di-N-Butylphthalate	<0.95	0.95	ug/l
			Di-N-Octyl Phthalate	<0.95	0.95	ug/l
			Fluoranthene	<0.095	0.095	ug/l
			Fluorene	<0.095	0.095	ug/l
			Hexachlorobenzene	<0.95	0.95	ug/l
			Hexachlorobutadiene	<0.95	0.95	ug/l
			Hexachlorocyclopentadiene	<0.95	0.95	ug/l
			Hexachloroethane	<0.95	0.95	ug/l
			Indeno(1,2,3-cd)Pyrene	<0.0095	0.0095	ug/l
			Isophorone	<0.95	0.95	ug/l
			Naphthalene	<0.095	0.095	ug/l
			Nitrobenzene	<0.95	0.95	ug/l
			N-Nitrosodimethylamine	<0.95	0.95	ug/l
			N-Nitroso-Di-N-Propylamine	<0.95	0.95	ug/l
			N-Nitrosodiphenylamine	<0.95	0.95	ug/l
			Pentachlorophenol	<4.7	4.7	ug/l
			Phenanthrene	<0.095	0.095	ug/l
			Phenol	<0.95	0.95	ug/l
			Pyrene	<0.095	0.095	ug/l
			Pyridine	<0.95	0.95	ug/l

Table C-6B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 12
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR17 (continued)	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<0.26	0.26	mg/l
			Heavy Oil-Range Organics	<0.41	0.41	mg/l
		NWTPH-GX	Gasoline-Range Organics	<100	100	ug/l
	Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.2	0.2	ug/l
1,1,1-Trichloroethane			<0.2	0.2	ug/l	
1,1,2,2-Tetrachloroethane			<0.2	0.2	ug/l	
1,1,2-Trichloroethane			<0.2	0.2	ug/l	
1,1-Dichloroethane			<0.2	0.2	ug/l	
1,1-Dichloroethene			<0.2	0.2	ug/l	
1,1-Dichloropropene			<0.2	0.2	ug/l	
1,2,3-Trichlorobenzene			<0.2	0.2	ug/l	
1,2,3-Trichloropropane			<0.2	0.2	ug/l	
1,2,4-Trichlorobenzene			<0.2	0.2	ug/l	
1,2,4-Trimethylbenzene			<0.2	0.2	ug/l	
1,2-Dibromo-3-chloropropane			<1	1	ug/l	
1,2-Dibromoethane			<0.2	0.2	ug/l	
1,2-Dichlorobenzene			<0.2	0.2	ug/l	
1,2-Dichloroethane			<0.2	0.2	ug/l	
1,2-Dichloropropane			<0.2	0.2	ug/l	
1,3,5-Trimethylbenzene			<0.2	0.2	ug/l	
1,3-Dichlorobenzene			<0.2	0.2	ug/l	
1,3-Dichloropropane			<0.2	0.2	ug/l	
1,4-Dichlorobenzene			<0.2	0.2	ug/l	
2,2-Dichloropropane			<0.2	0.2	ug/l	
2-Butanone (MEK)			<5	5	ug/l	
2-Chloroethyl Vinyl Ether			<1	1	ug/l	
2-Chlorotoluene			<0.2	0.2	ug/l	
2-Hexanone			<2	2	ug/l	
4-Chlorotoluene			<0.2	0.2	ug/l	
4-Methyl-2-Pentanone (MIBK)			<2	2	ug/l	
Acetone	<5	5	ug/l			
Benzene	<0.2	0.2	ug/l			
Bromobenzene	<0.2	0.2	ug/l			
Bromochloromethane	<0.2	0.2	ug/l			
Bromodichloromethane	<0.2	0.2	ug/l			
Bromoform	<1	1	ug/l			
Bromomethane	<0.2	0.2	ug/l			

Table C-6B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 12
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR17 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Carbon Disulfide	<0.2	0.2	ug/l
			Carbon Tetrachloride	<0.2	0.2	ug/l
			Chlorobenzene	<0.2	0.2	ug/l
			Chloroethane	<1	1	ug/l
			Chloroform	<0.2	0.2	ug/l
			Chloromethane	<1	1	ug/l
			cis-1,2-Dichloroethene	<0.2	0.2	ug/l
			cis-1,3-Dichloropropene	<0.2	0.2	ug/l
			Dibromochloromethane	<0.2	0.2	ug/l
			Dibromomethane	<0.2	0.2	ug/l
			Dichlorodifluoromethane	<0.2	0.2	ug/l
			Ethylbenzene	<0.2	0.2	ug/l
			Hexachlorobutadiene	<0.2	0.2	ug/l
			Iodomethane	<1	1	ug/l
			Isopropylbenzene	<0.2	0.2	ug/l
			m,p-Xylene	<0.4	0.4	ug/l
			Methyl T-Butyl Ether (MTBE)	<0.2	0.2	ug/l
			Methylene Chloride	<1	1	ug/l
			Naphthalene	<1	1	ug/l
			N-Butylbenzene	<0.2	0.2	ug/l
			N-Propylbenzene	<0.2	0.2	ug/l
			o-Xylene	<0.2	0.2	ug/l
			p-Isopropyltoluene	<0.2	0.2	ug/l
			sec-Butylbenzene	<0.2	0.2	ug/l
			Styrene	<0.2	0.2	ug/l
			tert-Butylbenzene	<0.2	0.2	ug/l
			Tetrachloroethene (PCE)	<0.2	0.2	ug/l
			Toluene	<1	1	ug/l
			Trans-1,2-Dichloroethene	<0.2	0.2	ug/l
			Trans-1,3-Dichloropropene	<0.2	0.2	ug/l
			Trichloroethene (TCE)	<0.2	0.2	ug/l
			Trichlorofluoromethane	<0.2	0.2	ug/l
Vinyl Acetate	<2	2	ug/l			
Vinyl Chloride	<0.2	0.2	ug/l			

Table C-6B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 12
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR22	Semi-Volatile Organic Compounds	SW8270	1,2,4-Trichlorobenzene	<0.95	0.95	ug/l
			1,2-Dichlorobenzene	<0.95	0.95	ug/l
			1,2-Dinitrobenzene	<0.95	0.95	ug/l
			1,2-Diphenylhydrazine	<0.95	0.95	ug/l
			1,3-Dichlorobenzene	<0.95	0.95	ug/l
			1,3-Dinitrobenzene	<0.95	0.95	ug/l
			1,4-Dichlorobenzene	<0.95	0.95	ug/l
			1,4-Dinitrobenzene	<0.95	0.95	ug/l
			1-Methylnaphthalene	<0.095	0.095	ug/l
			2,3,4,6-Tetrachlorophenol	<0.95	0.95	ug/l
			2,3,5,6-Tetrachlorophenol	<0.95	0.95	ug/l
			2,3-Dichloroaniline	<0.95	0.95	ug/l
			2,4,5-Trichlorophenol	<0.95	0.95	ug/l
			2,4,6-Trichlorophenol	<0.95	0.95	ug/l
			2,4-Dichlorophenol	<0.95	0.95	ug/l
			2,4-Dimethylphenol	<0.95	0.95	ug/l
			2,4-Dinitrophenol	<4.7	4.7	ug/l
			2,4-Dinitrotoluene	<0.95	0.95	ug/l
			2,6-Dinitrotoluene	<0.95	0.95	ug/l
			2-Chloronaphthalene	<0.95	0.95	ug/l
			2-Chlorophenol	<0.95	0.95	ug/l
			2-Methylnaphthalene	<0.095	0.095	ug/l
			2-Methylphenol (o-Cresol)	<0.95	0.95	ug/l
			2-Nitroaniline	<0.95	0.95	ug/l
			2-Nitrophenol	<0.95	0.95	ug/l
			3,3'-Dichlorobenzidine	<0.95	0.95	ug/l
			3,4-Methylphenol(m,p-Cresol)	<0.95	0.95	ug/l
			3-Nitroaniline	<0.95	0.95	ug/l
			4,6-Dinitro-2-Methylphenol	<4.7	4.7	ug/l
			4-Bromophenyl Phenyl Ether	<0.95	0.95	ug/l
			4-Chloro-3-Methylphenol	<0.95	0.95	ug/l
			4-Chloroaniline	<0.95	0.95	ug/l
			4-Chlorophenyl Phenylether	<0.95	0.95	ug/l
			4-Nitroaniline	<0.95	0.95	ug/l
			4-Nitrophenol	<0.95	0.95	ug/l
			Acenaphthene	<0.095	0.095	ug/l
			Acenaphthylene	<0.095	0.095	ug/l
			Aniline	<4.7	4.7	ug/l
			Anthracene	<0.095	0.095	ug/l
			Benzidine	<4.7	4.7	ug/l
Benzo(a)Anthracene	<0.0095	0.0095	ug/l			
Benzo(a)Pyrene	<0.0095	0.0095	ug/l			
Benzo(b)Fluoranthene	<0.0095	0.0095	ug/l			

Table C-6B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 12
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR22 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Benzo(g,h,i)Perylene	<0.0095	0.0095	ug/l
			Benzo(j,k)Fluoranthene	<0.0095	0.0095	ug/l
			Benzyl alcohol	<0.95	0.95	ug/l
			Bis(2-Chloroethoxy) Methane	<0.95	0.95	ug/l
			Bis(2-Chloroethyl) Ether	<0.95	0.95	ug/l
			Bis(2-Chloroisopropyl)ether	<0.95	0.95	ug/l
			Bis(2-Ethylhexyl) Phthalate	<0.95	0.95	ug/l
			Bis-2-Ethylhexyladipate	<0.95	0.95	ug/l
			Butyl Benzyl Phthalate	2.4	0.95	ug/l
			Carbazole	<0.95	0.95	ug/l
			Chrysene	<0.0095	0.0095	ug/l
			Dibenzo(a,h)Anthracene	<0.0095	0.0095	ug/l
			Dibenzofuran	<0.95	0.95	ug/l
			Diethylphthalate	<0.95	0.95	ug/l
			Dimethylphthalate	<0.95	0.95	ug/l
			Di-N-Butylphthalate	<0.95	0.95	ug/l
			Di-N-Octyl Phthalate	<0.95	0.95	ug/l
			Fluoranthene	<0.095	0.095	ug/l
			Fluorene	<0.095	0.095	ug/l
			Hexachlorobenzene	<0.95	0.95	ug/l
			Hexachlorobutadiene	<0.95	0.95	ug/l
			Hexachlorocyclopentadiene	<0.95	0.95	ug/l
			Hexachloroethane	<0.95	0.95	ug/l
			Indeno(1,2,3-cd)Pyrene	<0.0095	0.0095	ug/l
			Isophorone	<0.95	0.95	ug/l
			Naphthalene	<0.095	0.095	ug/l
			Nitrobenzene	<0.95	0.95	ug/l
			N-Nitrosodimethylamine	<0.95	0.95	ug/l
			N-Nitroso-Di-N-Propylamine	<0.95	0.95	ug/l
			N-Nitrosodiphenylamine	<0.95	0.95	ug/l
			Pentachlorophenol	<4.7	4.7	ug/l
			Phenanthrene	<0.095	0.095	ug/l
			Phenol	<0.95	0.95	ug/l
Pyrene	<0.095	0.095	ug/l			
Pyridine	<0.95	0.95	ug/l			
Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	<0.27	0.27	mg/l	
		Heavy Oil-Range Organics	<0.43	0.43	mg/l	
		NWTPH-GX	Gasoline-Range Organics	<100	100	ug/l

Table C-6B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 12
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR22 (continued)	Volatile Organic Compounds	SW8260	1,1,1,2-Tetrachloroethane	<0.2	0.2	ug/l
			1,1,1-Trichloroethane	<0.2	0.2	ug/l
			1,1,2,2-Tetrachloroethane	<0.2	0.2	ug/l
			1,1,2-Trichloroethane	<0.2	0.2	ug/l
			1,1-Dichloroethane	<0.2	0.2	ug/l
			1,1-Dichloroethene	<0.2	0.2	ug/l
			1,1-Dichloropropene	<0.2	0.2	ug/l
			1,2,3-Trichlorobenzene	<0.2	0.2	ug/l
			1,2,3-Trichloropropane	<0.2	0.2	ug/l
			1,2,4-Trichlorobenzene	<0.2	0.2	ug/l
			1,2,4-Trimethylbenzene	<0.2	0.2	ug/l
			1,2-Dibromo-3-chloropropane	<1	1	ug/l
			1,2-Dibromoethane	<0.2	0.2	ug/l
			1,2-Dichlorobenzene	<0.2	0.2	ug/l
			1,2-Dichloroethane	<0.2	0.2	ug/l
			1,2-Dichloropropane	<0.2	0.2	ug/l
			1,3,5-Trimethylbenzene	<0.2	0.2	ug/l
			1,3-Dichlorobenzene	<0.2	0.2	ug/l
			1,3-Dichloropropane	<0.2	0.2	ug/l
			1,4-Dichlorobenzene	<0.2	0.2	ug/l
			2,2-Dichloropropane	<0.2	0.2	ug/l
			2-Butanone (MEK)	<5	5	ug/l
			2-Chloroethyl Vinyl Ether	<1	1	ug/l
			2-Chlorotoluene	<0.2	0.2	ug/l
			2-Hexanone	<2	2	ug/l
			4-Chlorotoluene	<0.2	0.2	ug/l
			4-Methyl-2-Pentanone (MIBK)	<2	2	ug/l
			Acetone	<5	5	ug/l
			Benzene	<0.2	0.2	ug/l
			Bromobenzene	<0.2	0.2	ug/l
Bromochloromethane	<0.2	0.2	ug/l			
Bromodichloromethane	<0.2	0.2	ug/l			
Bromoform	<1	1	ug/l			
Bromomethane	<0.2	0.2	ug/l			

Table C-6B
Analytical Results for Tested Constituents in Groundwater
Area of Potential Concern 12
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR22 (continued)	Volatile Organic Compounds (continued)	SW8260 (continued)	Carbon Disulfide	<0.2	0.2	ug/l
			Carbon Tetrachloride	<0.2	0.2	ug/l
			Chlorobenzene	<0.2	0.2	ug/l
			Chloroethane	<1	1	ug/l
			Chloroform	<0.2	0.2	ug/l
			Chloromethane	<1	1	ug/l
			cis-1,2-Dichloroethene	<0.2	0.2	ug/l
			cis-1,3-Dichloropropene	<0.2	0.2	ug/l
			Dibromochloromethane	<0.2	0.2	ug/l
			Dibromomethane	<0.2	0.2	ug/l
			Dichlorodifluoromethane	<0.2	0.2	ug/l
			Ethylbenzene	<0.2	0.2	ug/l
			Hexachlorobutadiene	<0.2	0.2	ug/l
			Iodomethane	<1	1	ug/l
			Isopropylbenzene	<0.2	0.2	ug/l
			m,p-Xylene	<0.4	0.4	ug/l
			Methyl T-Butyl Ether (MTBE)	<0.2	0.2	ug/l
			Methylene Chloride	<1	1	ug/l
			Naphthalene	<1	1	ug/l
			N-Butylbenzene	<0.2	0.2	ug/l
			N-Propylbenzene	<0.2	0.2	ug/l
			o-Xylene	<0.2	0.2	ug/l
			p-Isopropyltoluene	<0.2	0.2	ug/l
			sec-Butylbenzene	<0.2	0.2	ug/l
			Styrene	<0.2	0.2	ug/l
			tert-Butylbenzene	<0.2	0.2	ug/l
			Tetrachloroethene (PCE)	<0.2	0.2	ug/l
			Toluene	<1	1	ug/l
			Trans-1,2-Dichloroethene	<0.2	0.2	ug/l
			Trans-1,3-Dichloropropene	<0.2	0.2	ug/l
			Trichloroethene (TCE)	<0.2	0.2	ug/l
			Trichlorofluoromethane	<0.2	0.2	ug/l
Vinyl Acetate	<2	2	ug/l			
Vinyl Chloride	<0.2	0.2	ug/l			

NOTES:

Results in **bold** denote analyte was detected. See Table 7B.

If the result is less than (<) the laboratory reporting limit, the analyte was not detected.

< denotes analyte not detected at or above the laboratory reporting limit listed.

µg/l = micrograms per liter

mg/l = milligrams per liter

Table C-7A
Analytical Results Summary for Detected Constituents in Soil
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
Area of Potential Concern 2							
FAR1	6 - 6.5	Volatile Organic Compounds	SW8260	Acetone	0.04	0.0055	mg/kg
	10 - 10.5	Metals	SW6010B	Chromium	36	0.6	mg/kg
				Lead	6	6	mg/kg
	Semi-Volatile Organic Compounds	SW8270	Acenaphthene	0.031	0.008	mg/kg	
			Anthracene	0.14	0.04	mg/kg	
			Benzo(a)Anthracene	0.17	0.04	mg/kg	
			Benzo(a)Pyrene	0.18	0.04	mg/kg	
			Benzo(b)Fluoranthene	0.13	0.04	mg/kg	
			Benzo(g,h,i)Perylene	0.14	0.04	mg/kg	
			Benzo(j,k)Fluoranthene	0.16	0.04	mg/kg	
Chrysene			0.19	0.04	mg/kg		
Dibenzo(a,h)Anthracene			0.041	0.008	mg/kg		
Fluoranthene			0.51	0.04	mg/kg		
Fluorene	0.028	0.008	mg/kg				
Indeno(1,2,3-cd)Pyrene	0.12	0.04	mg/kg				
Phenanthrene	0.4	0.04	mg/kg				
Pyrene	0.42	0.04	mg/kg				
		Calculated cPAHs (TEC)		0.244	--	mg/kg	
		Volatile Organic Compounds	SW8260	Acetone	0.028	0.0066	mg/kg
FAR2	2.5 - 3	Volatile Organic Compounds	SW8260	Acetone	0.05	0.0062	mg/kg
	5.5 - 6	Metals	SW6010B	Chromium	28	0.53	mg/kg
		Volatile Organic Compounds	SW8260	Acetone	0.039	0.0052	mg/kg
Area of Potential Concern 4							
FAR3	12.5 - 13	Metals	SW6010B	Chromium	48	0.61	mg/kg
		Volatile Organic Compounds	SW8260	Acetone	0.063	0.0053	mg/kg
				Carbon Disulfide	0.0083	0.0053	mg/kg
FAR4	4 - 4.5	Metals	SW6010B	Cadmium	0.67	0.59	mg/kg
				Chromium	52	0.59	mg/kg
				Lead	400	5.9	mg/kg
		Pesticides	SW8081	4,4'-DDT	25	12	ug/kg
		Polychlorinated Biphenyls	SW8082	Aroclor 1260	0.23	0.059	mg/kg
				Calculated Total Aroclors	0.41	--	mg/kg
		Semi-Volatile Organic Compounds	SW8270	1-Methylnaphthalene	0.0092	0.0079	mg/kg
				2-Methylnaphthalene	0.014	0.0079	mg/kg
Acenaphthene	0.011			0.0079	mg/kg		
Anthracene	0.014			0.0079	mg/kg		
Benzo(a)Anthracene	0.04			0.0079	mg/kg		
Benzo(a)Pyrene	0.041			0.0079	mg/kg		
Benzo(b)Fluoranthene	0.042			0.0079	mg/kg		
Benzo(g,h,i)Perylene	0.037			0.0079	mg/kg		
Benzo(j,k)Fluoranthene	0.029	0.0079	mg/kg				
Chrysene	0.051	0.0079	mg/kg				

Table C-7A
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR4 (continued)	4 - 4.5 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Dibenzo(a,h)Anthracene	0.01	0.0079	mg/kg
				Fluoranthene	0.083	0.0079	mg/kg
				Fluorene	0.012	0.0079	mg/kg
				Indeno(1,2,3-cd)Pyrene	0.025	0.0079	mg/kg
				Naphthalene	0.02	0.0079	mg/kg
				Phenanthrene	0.068	0.0079	mg/kg
				Pyrene	0.071	0.0079	mg/kg
				Calculated cPAHs (TEC)	0.056	--	mg/kg
				Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	39	30	mg/kg
		Lube Oil	180	60	mg/kg		
FAR5	0.5 - 1	Metals	SW6010B	Chromium	27	0.82	mg/kg
				Lead	9.9	8.2	mg/kg
		Pesticides	SW8081	Beta-Bhc	11	8.2	ug/kg
		Semi-Volatile Organic Compounds	SW8270	Benzo(a)Pyrene	0.016	0.011	mg/kg
				Benzo(b)Fluoranthene	0.016	0.011	mg/kg
				Benzo(g,h,i)Perylene	0.017	0.011	mg/kg
				Benzo(j,k)Fluoranthene	0.015	0.011	mg/kg
				Chrysene	0.016	0.011	mg/kg
				Fluoranthene	0.022	0.011	mg/kg
				Indeno(1,2,3-cd)Pyrene	0.013	0.011	mg/kg
Phenanthrene	0.011			0.011	mg/kg		
Pyrene	0.019	0.011	mg/kg				
Calculated cPAHs (TEC)	0.0217	--	mg/kg				
Area of Potential Concern 6							
FAR6	0.5 - 1	Metals	SW6010B	Chromium	44	0.62	mg/kg
				Lead	140	6.2	mg/kg
		Pesticides	SW8081	4,4'-DDT	12	12	ug/kg
		Polychlorinated Biphenyls	SW8082	Aroclor 1260	0.21	0.062	mg/kg
				Calculated Total Aroclors	0.40	--	mg/kg
		Semi-Volatile Organic Compounds	SW8270	1-Methylnaphthalene	0.022	0.0082	mg/kg
				2-Methylnaphthalene	0.028	0.0082	mg/kg
				Acenaphthene	0.17	0.0082	mg/kg
				Acenaphthylene	0.048	0.0082	mg/kg
				Anthracene	0.4	0.21	mg/kg
Benzo(a)Anthracene	0.95			0.21	mg/kg		
Benzo(a)Pyrene	1.2			0.21	mg/kg		
Benzo(b)Fluoranthene	1.1			0.21	mg/kg		
Benzo(g,h,i)Perylene	0.78			0.21	mg/kg		
Benzo(j,k)Fluoranthene	1.2			0.21	mg/kg		
Carbazole	0.44			0.21	mg/kg		
Chrysene	1.3			0.21	mg/kg		
Dibenzo(a,h)Anthracene	0.26			0.21	mg/kg		
Fluoranthene	3			0.21	mg/kg		
Fluorene	0.17			0.0082	mg/kg		
Indeno(1,2,3-cd)Pyrene	0.79			0.21	mg/kg		
Naphthalene	0.052			0.0082	mg/kg		
Phenanthrene	2.5	0.21	mg/kg				
Pyrene	2.6	0.21	mg/kg				
Calculated cPAHs (TEC)	1.64	--	mg/kg				
Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	370	62	mg/kg		

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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR7	2.5 - 3	Metals	SW6010B	Chromium	28	0.52	mg/kg
				Lead	27	5.2	mg/kg
		Polychlorinated Biphenyls	SW8082	Aroclor 1260	0.26	0.052	mg/kg
				Calculated Total Aroclors	0.42	--	mg/kg
	Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	120	52	mg/kg	
			Volatile Organic Compounds	SW8260	Acetone Benzene	0.07 0.0026	0.0082 0.0016	mg/kg mg/kg
6 - 6.5	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics Heavy Oil-Range Organics	31 150	27 53	mg/kg mg/kg	
FAR8	5 - 5.5	Metals	SW6010B	Chromium	35	0.58	mg/kg
				Lead	40	5.8	mg/kg
	Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	51	29	mg/kg	
Lube Oil			290	58	mg/kg		
11 - 11.5	Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	59	54	mg/kg	
FAR9	2.5 - 3	Metals	SW6010B	Chromium	52	0.58	mg/kg
				Lead	460	5.8	mg/kg
		Semi-Volatile Organic Compounds	SW8270	Acenaphthene	0.0081	0.0077	mg/kg
				Anthracene	0.021	0.0077	mg/kg
				Benzo(a)Anthracene	0.069	0.039	mg/kg
				Benzo(a)Pyrene	0.071	0.039	mg/kg
				Benzo(b)Fluoranthene	0.063	0.039	mg/kg
				Benzo(g,h,i)Perylene	0.049	0.039	mg/kg
				Benzo(j,k)Fluoranthene	0.06	0.039	mg/kg
				Bis(2-Ethylhexyl) Phthalate	0.06	0.039	mg/kg
				Chrysene	0.083	0.039	mg/kg
				Dibenzo(a,h)Anthracene	0.015	0.0077	mg/kg
				Fluoranthene	0.19	0.039	mg/kg
				Fluorene	0.01	0.0077	mg/kg
				Indeno(1,2,3-cd)Pyrene	0.041	0.039	mg/kg
				Naphthalene	0.0079	0.0077	mg/kg
	Phenanthrene	0.093	0.039	mg/kg			
Pyrene	0.12	0.039	mg/kg				
Calculated cPAHs (TEC)	0.0966	--	mg/kg				
Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	260	58	mg/kg		
6 - 6.5	Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	220	68	mg/kg	

Table C-7A
Analytical Results Summary for Detected Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR20	2.5 - 3	Metals	SW6010B	Chromium	64	0.6	mg/kg
				Lead	160	6	mg/kg
		Pesticides	SW8081	4,4'-DDT	16	12	ug/kg
				Polychlorinated Biphenyls	SW8082	Aroclor 1260	0.19	0.06	mg/kg
		Calculated Total Aroclors	0.37	--		mg/kg	
		Semi-Volatile Organic Compounds	SW8270	1-Methylnaphthalene	0.008	0.0079	mg/kg
				2-Methylnaphthalene	0.016	0.0079	mg/kg
				Acenaphthene	0.016	0.0079	mg/kg
				Acenaphthylene	0.0092	0.0079	mg/kg
				Anthracene	0.024	0.0079	mg/kg
				Benzo(a)Anthracene	0.064	0.04	mg/kg
				Benzo(a)Pyrene	0.067	0.04	mg/kg
				Benzo(b)Fluoranthene	0.065	0.04	mg/kg
				Benzo(g,h,i)Perylene	0.051	0.04	mg/kg
				Benzo(j,k)Fluoranthene	0.056	0.04	mg/kg
	Chrysene			0.081	0.04	mg/kg	
	Dibenzo(a,h)Anthracene			0.016	0.0079	mg/kg	
	Fluoranthene			0.16	0.04	mg/kg	
	Fluorene			0.026	0.0079	mg/kg	
	Indeno(1,2,3-cd)Pyrene	0.045	0.04	mg/kg			
	Naphthalene	0.044	0.04	mg/kg			
	Phenanthrene	0.13	0.04	mg/kg			
	Pyrene	0.13	0.04	mg/kg			
	Calculated cPAHs (TEC)	0.0924	--	mg/kg			
	Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	260	60	mg/kg	
	Volatile Organic Compounds	SW8260	2-Butanone (MEK)	0.0084	0.0055	mg/kg	
			Acetone	0.068	0.0055	mg/kg	
Benzene			0.0033	0.0011	mg/kg		
5 - 5.5	Semi-Volatile Organic Compounds	SW8270	Anthracene	0.013	0.0083	mg/kg	
			Benzo(a)Anthracene	0.032	0.0083	mg/kg	
			Benzo(a)Pyrene	0.035	0.0083	mg/kg	
			Benzo(b)Fluoranthene	0.033	0.0083	mg/kg	
			Benzo(g,h,i)Perylene	0.034	0.0083	mg/kg	
			Benzo(j,k)Fluoranthene	0.024	0.0083	mg/kg	
			Bis(2-Ethylhexyl) Phthalate	0.057	0.042	mg/kg	
			Chrysene	0.05	0.042	mg/kg	
			Fluoranthene	0.084	0.042	mg/kg	
			Indeno(1,2,3-cd)Pyrene	0.023	0.0083	mg/kg	
			Phenanthrene	0.047	0.042	mg/kg	
	Pyrene	0.076	0.042	mg/kg			
Calculated cPAHs (TEC)	0.0471	--	mg/kg				
Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	310	63	mg/kg		

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Analytical Results Summary for Detected Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR21	2.5 - 3	Metals	SW6010B	Chromium	37	0.59	mg/kg
				Lead	180	5.9	mg/kg
		Pesticides	SW8081	4,4'-DDE	12	12	ug/kg
				4,4'-DDT	33	12	ug/kg
				Dieldrin	14	12	ug/kg
		Polychlorinated Biphenyls	SW8082	Aroclor 1260	0.18	0.059	mg/kg
				Calculated Total Aroclors	0.36	--	mg/kg
		Semi-Volatile Organic Compounds	SW8270	1-Methylnaphthalene	0.012	0.0079	mg/kg
				2-Methylnaphthalene	0.02	0.0079	mg/kg
				Acenaphthene	0.018	0.0079	mg/kg
	Acenaphthylene			0.013	0.0079	mg/kg	
	Anthracene			0.027	0.0079	mg/kg	
	Benzo(a)Anthracene			0.041	0.0079	mg/kg	
	Benzo(a)Pyrene			0.049	0.0079	mg/kg	
	Benzo(b)Fluoranthene			0.05	0.04	mg/kg	
	Benzo(g,h,i)Perylene			0.046	0.04	mg/kg	
	Benzo(j,k)Fluoranthene			0.032	0.0079	mg/kg	
	Chrysene			0.047	0.04	mg/kg	
	Dibenzo(a,h)Anthracene			0.013	0.0079	mg/kg	
	Fluoranthene	0.1	0.04	mg/kg			
	Fluorene	0.02	0.0079	mg/kg			
	Indeno(1,2,3-cd)Pyrene	0.034	0.0079	mg/kg			
	Naphthalene	0.037	0.0079	mg/kg			
Phenanthrene	0.077	0.04	mg/kg				
Pyrene	0.082	0.04	mg/kg				
Calculated cPAHs (TEC)	0.0665	--	mg/kg				
Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	240	60	mg/kg		
Volatile Organic Compounds	SW8260	Acetone	0.042	0.0057	mg/kg		
		Benzene	0.01	0.0011	mg/kg		
6 - 6.5	Semi-Volatile Organic Compounds	SW8270	Benzo(a)Anthracene	0.018	0.0083	mg/kg	
			Benzo(a)Pyrene	0.017	0.0083	mg/kg	
			Benzo(b)Fluoranthene	0.025	0.0083	mg/kg	
			Benzo(g,h,i)Perylene	0.022	0.0083	mg/kg	
			Benzo(j,k)Fluoranthene	0.017	0.0083	mg/kg	
			Chrysene	0.035	0.0083	mg/kg	
			Fluoranthene	0.044	0.041	mg/kg	
			Indeno(1,2,3-cd)Pyrene	0.012	0.0083	mg/kg	
			Phenanthrene	0.022	0.0083	mg/kg	
			Pyrene	0.041	0.041	mg/kg	
Calculated cPAHs (TEC)	0.025	--	mg/kg				
Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	340	62	mg/kg		

Table C-7A
Analytical Results Summary for Detected Constituents in Soil
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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
Area of Potential Concern 8							
FAR10	2.5 - 3	Metals	SW6010B	Chromium	45	0.6	mg/kg
				Lead	260	6	mg/kg
		Polychlorinated Biphenyls	SW8082	Aroclor 1260	0.16	0.06	mg/kg
				Calculated Total Aroclors	0.34	--	mg/kg
		Semi-Volatile Organic Compounds	SW8270	Anthracene	0.011	0.0079	mg/kg
				Benzo(a)Anthracene	0.029	0.0079	mg/kg
				Benzo(a)Pyrene	0.031	0.0079	mg/kg
				Benzo(b)Fluoranthene	0.028	0.0079	mg/kg
				Benzo(g,h,i)Perylene	0.025	0.0079	mg/kg
				Benzo(j,k)Fluoranthene	0.022	0.0079	mg/kg
				Chrysene	0.045	0.04	mg/kg
				Fluoranthene	0.054	0.04	mg/kg
				Indeno(1,2,3-cd)Pyrene	0.017	0.0079	mg/kg
				Phenanthrene	0.049	0.04	mg/kg
				Pyrene	0.063	0.04	mg/kg
	Calculated cPAHs (TEC)	0.0414	--	mg/kg			
	Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	370	60	mg/kg	
Volatile Organic Compounds	SW8260	2-Butanone (MEK)	0.011	0.0059	mg/kg		
		Acetone	0.12	0.0059	mg/kg		
		Benzene	0.24	0.0012	mg/kg		
		Carbon Disulfide	0.0064	0.0059	mg/kg		
		m,p-Xylene	0.0038	0.0024	mg/kg		
		o-Xylene	0.0016	0.0012	mg/kg		
		Toluene	0.026	0.0059	mg/kg		
15 - 15.5	Volatile Organic Compounds	SW8260	Acetone	0.028	0.0073	mg/kg	
FAR11	2.5 - 3	Metals	SW6010B	Chromium	35	0.55	mg/kg
				Lead	150	5.5	mg/kg
		Pesticides	SW8081	Endrin Aldehyde	22	11	ug/kg
		Polychlorinated Biphenyls	SW8082	Aroclor 1260	0.09	0.055	mg/kg
				Calculated Total Aroclors	0.26	--	mg/kg
		Semi-Volatile Organic Compounds	SW8270	Benzo(a)Anthracene	0.011	0.0073	mg/kg
				Benzo(a)Pyrene	0.011	0.0073	mg/kg
				Benzo(b)Fluoranthene	0.011	0.0073	mg/kg
				Benzo(g,h,i)Perylene	0.014	0.0073	mg/kg
				Benzo(j,k)Fluoranthene	0.0092	0.0073	mg/kg
				Chrysene	0.023	0.0073	mg/kg
Fluoranthene	0.024			0.0073	mg/kg		
Naphthalene	0.0094			0.0073	mg/kg		
Phenanthrene	0.018			0.0073	mg/kg		
Pyrene	0.027			0.0073	mg/kg		
Calculated cPAHs (TEC)	0.0151	--	mg/kg				
Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	130	27	mg/kg		
		Lube Oil	110	55	mg/kg		
Volatile Organic Compounds	SW8260	2-Butanone (MEK)	0.0077	0.0061	mg/kg		
		Acetone	0.073	0.0061	mg/kg		

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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR12	2.5 - 3	Metals	SW6010B	Chromium	51	0.63	mg/kg
FAR23	2.5 - 3	Metals	SW6010B	Chromium	16	0.53	mg/kg
		Volatile Organic Compounds	SW8260	Acetone	0.011	0.0051	mg/kg
	6 - 6.5	Volatile Organic Compounds	SW8260	Acetone	0.041	0.0057	mg/kg
Area of Potential Concern 9							
FAR13	2.5 - 3	Metals	SW6010B	Chromium	32	0.55	mg/kg
				Lead	8.2	5.5	mg/kg
		Semi-Volatile Organic	SW8270	Fluoranthene	0.0087	0.0073	mg/kg
				Pyrene	0.0082	0.0073	mg/kg
Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	55	55	mg/kg		
FAR14	3.5 - 4	Metals	SW6010B	Chromium	25	0.53	mg/kg
FAR15	2.5 - 3	Metals	SW6010B	Chromium	37	0.58	mg/kg
				Lead	8.6	5.8	mg/kg
		Semi-Volatile Organic Compounds	SW8270	Acenaphthene	0.013	0.0078	mg/kg
				Acenaphthylene	0.014	0.0078	mg/kg
				Anthracene	0.067	0.039	mg/kg
				Benzo(a)Anthracene	0.14	0.039	mg/kg
				Benzo(a)Pyrene	0.18	0.039	mg/kg
				Benzo(b)Fluoranthene	0.17	0.039	mg/kg
				Benzo(g,h,i)Perylene	0.14	0.039	mg/kg
				Benzo(j,k)Fluoranthene	0.17	0.039	mg/kg
				Bis(2-Ethylhexyl) Phthalate	0.11	0.039	mg/kg
				Chrysene	0.22	0.039	mg/kg
				Dibenzo(a,h)Anthracene	0.044	0.039	mg/kg
				Fluoranthene	0.45	0.039	mg/kg
				Fluorene	0.014	0.0078	mg/kg
				Indeno(1,2,3-cd)Pyrene	0.13	0.039	mg/kg
	Phenanthrene	0.21	0.039	mg/kg			
Pyrene	0.35	0.039	mg/kg				
Calculated cPAHs (TEC)	0.248	--	mg/kg				
Volatile Organic Compounds	SW8260	Acetone	0.033	0.0058	mg/kg		
11 - 11.5	Semi-Volatile Organic Compounds	SW8270	Acenaphthylene	0.015	0.0072	mg/kg	
			Anthracene	0.034	0.0072	mg/kg	
			Benzo(a)Anthracene	0.075	0.036	mg/kg	
			Benzo(a)Pyrene	0.11	0.036	mg/kg	
			Benzo(b)Fluoranthene	0.16	0.036	mg/kg	
			Benzo(g,h,i)Perylene	0.067	0.036	mg/kg	
			Benzo(j,k)Fluoranthene	0.1	0.036	mg/kg	
			Bis(2-Ethylhexyl) Phthalate	0.059	0.036	mg/kg	
			Chrysene	0.22	0.036	mg/kg	
			Dibenzo(a,h)Anthracene	0.024	0.0072	mg/kg	
			Fluoranthene	0.2	0.036	mg/kg	
Fluorene	0.0072	0.0072	mg/kg				
Indeno(1,2,3-cd)Pyrene	0.064	0.036	mg/kg				

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Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR15 (continued)	11 - 11.5 (continued)	Semi-Volatile Organic Compounds (continued)	SW8270 (continued)	Pentachlorophenol	0.47	0.18	mg/kg
				Phenanthrene	0.074	0.036	mg/kg
				Pyrene	0.19	0.036	mg/kg
				Calculated cPAHs (TEC)	0.155	--	mg/kg
FAR16	2.5 - 3	Metals	SW6010B	Chromium	41	0.54	mg/kg
				Lead	7.6	5.4	mg/kg
FAR18	0.5 - 1	Metals	SW6010B	Chromium	55	0.67	mg/kg
				Lead	13	6.7	mg/kg
		Polychlorinated Biphenyls	SW8082	Aroclor 1260	0.12	0.067	mg/kg
				Calculated Total Aroclors	0.32	--	mg/kg
		Semi-Volatile Organic Compounds	SW8270	2-Methylnaphthalene	0.055	0.045	mg/kg
				Acenaphthene	0.17	0.045	mg/kg
				Acenaphthylene	0.14	0.045	mg/kg
				Anthracene	0.58	0.045	mg/kg
				Benzo(a)Anthracene	5.8	1.1	mg/kg
				Benzo(a)Pyrene	7.1	1.1	mg/kg
				Benzo(b)Fluoranthene	7.5	1.1	mg/kg
				Benzo(g,h,i)Perylene	4.6	1.1	mg/kg
				Benzo(j,k)Fluoranthene	7.2	1.1	mg/kg
				Chrysene	7.4	1.1	mg/kg
				Dibenzo(a,h)Anthracene	1.9	1.1	mg/kg
				Fluoranthene	7.3	1.1	mg/kg
				Fluorene	0.32	0.045	mg/kg
Indeno(1,2,3-cd)Pyrene	5.4			1.1	mg/kg		
Naphthalene	0.091	0.045	mg/kg				
Phenanthrene	2	1.1	mg/kg				
Pyrene	6.8	1.1	mg/kg				
Calculated cPAHs (TEC)	9.95	--	mg/kg				
Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel-Range Organics	230	170	mg/kg		
		Lube Oil	2,700	340	mg/kg		
Volatile Organic Compounds	EPA8021	Toluene	0.17	0.092	mg/kg		

Table C-7A
Analytical Results Summary for Detected Constituents in Soil
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
FAR19	0.5 - 1	Metals	SW6010B	Chromium	55	0.59	mg/kg
				Lead	10	5.9	mg/kg
		Semi-Volatile Organic Compounds	SW8270	Anthracene	0.061	0.039	mg/kg
				Benzo(a)Anthracene	0.53	0.039	mg/kg
				Benzo(a)Pyrene	0.81	0.039	mg/kg
				Benzo(b)Fluoranthene	0.84	0.039	mg/kg
				Benzo(g,h,i)Perylene	0.57	0.039	mg/kg
				Benzo(j,k)Fluoranthene	0.63	0.039	mg/kg
				Chrysene	0.66	0.039	mg/kg
				Dibenzo(a,h)Anthracene	0.2	0.039	mg/kg
				Fluoranthene	0.6	0.039	mg/kg
				Indeno(1,2,3-cd)Pyrene	0.53	0.039	mg/kg
				Phenanthrene	0.26	0.039	mg/kg
		Pyrene	0.5	0.039	mg/kg		
		Calculated cPAHs (TEC)	1.09	--	mg/kg		
Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	1,600	300	mg/kg		
Volatile Organic Compounds	EPA8021	Benzene	0.44	0.021	mg/kg		
		Ethylbenzene	0.11	0.1	mg/kg		
		m,p-Xylene	0.36	0.1	mg/kg		
Area of Potential Concern 12							
FAR17	2.5 - 3	Metals	SW6010B	Chromium	56	0.63	mg/kg
		Volatile Organic Compounds	SW8260	2-Butanone (MEK)	0.0082	0.0064	mg/kg
				Acetone	0.061	0.0064	mg/kg
	8 - 8.5	Semi-Volatile Organic Compounds	SW8270	Chrysene	0.012	0.0092	mg/kg
				Calculated cPAHs (TEC)	0.0072	--	mg/kg
		Volatile Organic Compounds	SW8260	2-Butanone (MEK)	0.022	0.007	mg/kg
			Acetone	0.15	0.007	mg/kg	
FAR22	2.5 - 3	Metals	SW6010B	Chromium	60	0.63	mg/kg
		Volatile Organic Compounds	SW8260	2-Butanone (MEK)	0.017	0.0089	mg/kg
				Acetone	0.096	0.0089	mg/kg
	6 - 6.5	Volatile Organic Compounds	SW8260	Acetone	0.041	0.0065	mg/kg
	10 - 10.5	Semi-Volatile Organic Compounds	SW8270	Chrysene	0.0083	0.0079	mg/kg
				Calculated cPAHs (TEC)	0.00638	--	mg/kg

NOTES:

Results in **bold** denote analyte detected above screening level.

µg/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

Table C-7B
Analytical Results Summary for Detected Constituents in Groundwater
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure
Area of Potential Concern 2						
FAR2	Semi-Volatile Organic Compounds	SW8270	Benzo(a)Anthracene	0.02	0.0095	ug/l
			Benzo(a)Pyrene	0.018	0.0095	ug/l
			Benzo(b)Fluoranthene	0.022	0.0095	ug/l
			Benzo(g,h,i)Perylene	0.025	0.0095	ug/l
			Benzo(j,k)Fluoranthene	0.016	0.0095	ug/l
			Butyl Benzyl Phthalate	2.1	0.95	ug/l
			Chrysene	0.025	0.0095	ug/l
			Dibenzo(a,h)Anthracene	0.01	0.0095	ug/l
			Indeno(1,2,3-cd)Pyrene	0.02	0.0095	ug/l
			Calculated cPAHs (TEC)	0.0271	--	ug/l
Area of Potential Concern 8						
FAR11	Volatile Organic Compounds	SW8260	Acetone	13	5	ug/l
			Chloroform	0.53	0.2	ug/l
			p-Isopropyltoluene	0.26	0.2	ug/l
Area of Potential Concern 9						
FAR15	Semi-Volatile Organic Compounds	SW8270	Benzo(a)Anthracene	0.01	0.0098	ug/l
			Benzo(a)Pyrene	0.012	0.0098	ug/l
			Benzo(b)Fluoranthene	0.031	0.0098	ug/l
			Benzo(g,h,i)Perylene	0.014	0.0098	ug/l
			Benzo(j,k)Fluoranthene	0.016	0.0098	ug/l
			Chrysene	0.044	0.0098	ug/l
			Indeno(1,2,3-cd)Pyrene	0.011	0.0098	ug/l
			Calculated cPAHs (TEC)	0.0197	--	ug/l
FAR16	Metals	SW6020	Arsenic (dissolved)	5.9	3	ug/l
Area of Potential Concern 12						
FAR17	Semi-Volatile Organic Compounds	SW8270	Butyl Benzyl Phthalate	1.1	0.95	ug/l
FAR22	Semi-Volatile Organic Compounds	SW8270	Butyl Benzyl Phthalate	2.4	0.95	ug/l

NOTES:

Results in **bold** denote analyte detected above screening level.

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

µg/l = micrograms per liter

TEC = toxic equivalent concentration

**Table C-8
 Constituents Exceeding Screening Levels in Soil and Groundwater
 City of Port Angeles Sale Parcel Baseline Assessment
 Port Angeles, Washington
 Farallon PN: 1005-001**

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure	Screening Level	Exceedance Factor ¹	Screening Level Basis ²	
SOIL											
AOPC-2	FAR1	10-10.5	Semi-Volatile Organic Compounds	SW8270	Calculated cPAHs (TEC)	0.244	-	mg/kg	0.14	1.7	Carcinogen, human health direct contact pathway (MTCA Method B standard formula value for unrestricted land use)
AOPC-4	FAR3	12.5 - 13	Metals	SW6010B	Chromium	48	0.61	mg/kg	48	1.0	Metals background values (Puget Sound Region 90th percentile values) are from Natural Background Soil Metals Concentrations in Washington State (Ecology Publication #94-115, 1994)
	FAR4	4 - 4.5	Metals	SW6010B	Chromium	52	0.59	mg/kg	48	1.1	Metals background values (Puget Sound Region 90th percentile values) are from Natural Background Soil Metals Concentrations in Washington State (Ecology Publication #94-115, 1994)
					Lead	400	5.9	mg/kg	50	8.0	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)
			Pesticides	SW8081	4,4'-DDT	25	12	ug/kg	3	8.3	Soil concentration protective of groundwater as marine surface water (MTCA fixed parameter three-phase partitioning model)
			Polychlorinated Biphenyls	SW8082	Calculated Total Aroclors	0.41	-	mg/kg	0.004	100	Screening level based on PQL from Analytical Resources, Inc. or Frontier Analytical Laboratory.
FAR5	0.5 - 1	Pesticides	SW8081	Beta-Bhc	11	8.2	ug/kg	1	11.0	Screening level based on PQL from Analytical Resources Inc. or Frontier Analytical Laboratory	
AOPC-6	FAR6	0.5 - 1	Metals	SW6010B	Lead	140	6.2	mg/kg	50	2.8	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)
			Pesticides	SW8081	4,4'-DDT	12	12	ug/kg	3	4.0	Soil concentration protective of groundwater as marine surface water (MTCA fixed parameter three-phase partitioning model)
			Polychlorinated Biphenyls	SW8082	Calculated Total Aroclors	0.40	-	mg/kg	0.004	99	Screening level based on PQL from Analytical Resources, Inc. or Frontier Analytical Laboratory.
			Semi-Volatile Organic Compounds	SW8270	Calculated cPAHs (TEC)	1.64	-	mg/kg	0.14	12	Carcinogen, human health direct contact pathway (MTCA Method B standard formula value for unrestricted land use)
			Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	370	62	mg/kg	200	1.9	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)
	FAR7	2.5 - 3	Polychlorinated Biphenyls	SW8082	Calculated Total Aroclors	0.42	-	mg/kg	0.004	100	Screening level based on PQL from Analytical Resources, Inc. or Frontier Analytical Laboratory.
	FAR8	5 - 5.5	Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	290	58	mg/kg	200	1.5	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)
	FAR9	2.5 - 3	Metals	SW6010B	Chromium	52	0.58	mg/kg	48	1.1	Metals background values (Puget Sound Region 90th percentile values) are from Natural Background Soil Metals Concentrations in Washington State (Ecology Publication #94-115, 1994)
					Lead	460	5.8	mg/kg	50	9.2	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)
Total Petroleum Hydrocarbons			NWTPH-Dx	Lube Oil	260	58	mg/kg	200	1.3	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)	
	6 - 6.5	Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	220	68	mg/kg	200	1.1	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)	

**Table C-8
 Constituents Exceeding Screening Levels in Soil and Groundwater
 City of Port Angeles Sale Parcel Baseline Assessment
 Port Angeles, Washington
 Farallon PN: 1005-001**

Location		Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure	Screening Level	Exceedance Factor ¹	Screening Level Basis ²		
AOPC-6 (continued)	FAR20	2.5 - 3	Metals	SW6010B	Chromium	64	0.6	mg/kg	48	1.3	Metals background values (Puget Sound Region 90th percentile values) are from Natural Background Soil Metals Concentrations in Washington State (Ecology Publication #94-115, 1994)		
					Lead	160	6	mg/kg	50	3.2	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)		
			Pesticides	SW8081	4,4'-DDT	16	12	ug/kg	3	5.3	Soil concentration protective of groundwater as marine surface water (MTCA fixed parameter three-phase partitioning model)		
			Polychlorinated Biphenyls	SW8082	Calculated Total Aroclors	0.37	-	mg/kg	0.004	93	Screening level based on PQL from Analytical Resources, Inc. or Frontier Analytical Laboratory.		
		Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	260	60	mg/kg	200	1.3	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)			
			5 - 5.5	Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	310	63	mg/kg	200	1.6	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)	
	FAR21	2.5 - 3	Metals	SW6010B	Lead	180	5.9	mg/kg	50	3.6	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)		
					Pesticides	SW8081	4,4'-DDE	12	12	ug/kg	2	6.0	Screening level based on PQL from Analytical Resources Inc. or Frontier Analytical Laboratory
							4,4'-DDT	33	12	ug/kg	3	11.0	Soil concentration protective of groundwater as marine surface water (MTCA fixed parameter three-phase partitioning model)
			Dieldrin	14	12	ug/kg	2	7.0	Screening level based on PQL from Analytical Resources Inc. or Frontier Analytical Laboratory				
			Polychlorinated Biphenyls	SW8082	Calculated Total Aroclors	0.36	-	mg/kg	0.004	90	Screening level based on PQL from Analytical Resources, Inc. or Frontier Analytical Laboratory.		
		Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	240	60	mg/kg	200	1.2	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)			
				6 - 6.5	Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	340	62	mg/kg	200	1.7	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)
	AOPC-8	FAR10	2.5 - 3	Metals	SW6010B	Lead	260	6	mg/kg	50	5.2	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)	
Polychlorinated Biphenyls						SW8082	Calculated Total Aroclors	0.34	-	mg/kg	0.004	85	Screening level based on PQL from Analytical Resources, Inc. or Frontier Analytical Laboratory.
Total Petroleum Hydrocarbons				NWTPH-Dx	Lube Oil	370	60	mg/kg	200	1.9	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)		
Volatile Organic Compounds				EPA8021	Benzene	0.24	0.0012	mg/kg	0.13	1.9	Soil concentration protective of groundwater as marine surface water (MTCA fixed parameter three-phase partitioning model)		
FAR11		2.5 - 3	Metals	SW6010B	Lead	150	5.5	mg/kg	50	3.0	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)		
					Pesticides	SW8081	Endrin Aldehyde	22	11	ug/kg	2	11.0	Screening level based on PQL from Analytical Resources Inc. or Frontier Analytical Laboratory
			Polychlorinated Biphenyls	SW8082	Calculated Total Aroclors	0.26	-	mg/kg	0.004	65	Screening level based on PQL from Analytical Resources, Inc. or Frontier Analytical Laboratory.		
FAR12		2.5 - 3	Metals	SW6010B	Chromium	51	0.63	mg/kg	48	1.1	Metals background values (Puget Sound Region 90th percentile values) are from Natural Background Soil Metals Concentrations in Washington State (Ecology Publication #94-115, 1994)		

**Table C-8
 Constituents Exceeding Screening Levels in Soil and Groundwater
 City of Port Angeles Sale Parcel Baseline Assessment
 Port Angeles, Washington
 Farallon PN: 1005-001**

Location		Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure	Screening Level	Exceedance Factor ¹	Screening Level Basis ²	
AOPC-9	FAR15	2.5 - 3	Semi-Volatile Organic Compounds	SW8270	Calculated cPAHs (TEC)	0.248	-	mg/kg	0.14	1.8	Carcinogen, human health direct contact pathway (MTCA Method B standard formula value for unrestricted land use)	
		11 - 11.5	Semi-Volatile Organic Compounds	SW8270	Pentachlorophenol	0.47	0.18	mg/kg	0.048	9.8	Soil concentration protective of groundwater as marine surface water (MTCA fixed parameter three-phase partitioning model)	
				SW8270	Calculated cPAHs (TEC)	0.155	-	mg/kg	0.14	1.1	Carcinogen, human health direct contact pathway (MTCA Method B standard formula value for unrestricted land use)	
	FAR18	0.5 - 1	Metals	SW6010B	Chromium	55	0.67	mg/kg	48	1.1	Metals background values (Puget Sound Region 90th percentile values) are from Natural Background Soil Metals Concentrations in Washington State (Ecology Publication #94-115, 1994)	
			Polychlorinated Biphenyls	SW8082	Calculated Total Aroclors	0.32	-	mg/kg	0.004	80	Screening level based on PQL from Analytical Resources, Inc. or Frontier Analytical Laboratory.	
			Semi-Volatile Organic Compounds	SW8270	Calculated cPAHs (TEC)	9.95	-	mg/kg	0.14	71.1	Carcinogen, human health direct contact pathway (MTCA Method B standard formula value for unrestricted land use)	
			Total Petroleum Hydrocarbons	NWTPH-Dx	Diesel Range Organics (DRO)	230	170	mg/kg	200	1.2	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)	
					Lube Oil	2700	340	mg/kg	200	13.5	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)	
	FAR19	0.5 - 1	Metals	SW6010B	Chromium	55	0.59	mg/kg	48	1.1	Metals background values (Puget Sound Region 90th percentile values) are from Natural Background Soil Metals Concentrations in Washington State (Ecology Publication #94-115, 1994)	
			Semi-Volatile Organic Compounds	SW8270	Calculated cPAHs (TEC)	1.09	-	mg/kg	0.14	7.8	Carcinogen, human health direct contact pathway (MTCA Method B standard formula value for unrestricted land use)	
			Total Petroleum Hydrocarbons	NWTPH-Dx	Lube Oil	1600	340	mg/kg	200	8.0	Ecological indicator soil concentration for protection of terrestrial plants and animals (MTCA Table 749-3)	
			Volatile Organic Compounds	EPA8021	Benzene	0.44	0.021	mg/kg	0.13	3.4	Soil concentration protective of groundwater as marine surface water (MTCA fixed parameter three-phase partitioning model)	
	AOPC-12	FAR17	2.5 - 3	Metals	SW6010B	Chromium	56	0.63	mg/kg	48	1.2	Metals background values (Puget Sound Region 90th percentile values) are from Natural Background Soil Metals Concentrations in Washington State (Ecology Publication #94-115, 1994)
		FAR22	2.5 - 3	Metals	SW6010B	Chromium	60	0.63	mg/kg	48	1.3	Metals background values (Puget Sound Region 90th percentile values) are from Natural Background Soil Metals Concentrations in Washington State (Ecology Publication #94-115, 1994)

Table C-8
Constituents Exceeding Screening Levels in Soil and Groundwater
City of Port Angeles Sale Parcel Baseline Assessment
Port Angeles, Washington
Farallon PN: 1005-001

Location	Depth Range (feet bgs)	Analyte Type	Analytical Method	Analyte	Result	Practical Quantitation Limit	Unit of Measure	Screening Level	Exceedance Factor ¹	Screening Level Basis ²	
GROUNDWATER											
AOPC-2	FAR2	-	Semi-Volatile Organic Compounds	SW8270	Calculated cPAHs (TEC)	0.0271	-	ug/l	0.018	1.5	National Recommended Water Quality Criteria (EPA 2006)- Protection of Human Health
AOPC-9	FAR15	-	Semi-Volatile Organic Compounds	SW8270	Calculated cPAHs (TEC)	0.0197	-	ug/l	0.018	1.1	National Recommended Water Quality Criteria (EPA 2006)- Protection of Human Health
	FAR16	-	Metals	SW6020	Arsenic (Dissolved)	5.9	3	ug/l	0.2	29.5	Additional screening level based on PQL from OnSite Environmental Inc.

NOTES:

¹Exceedance factor = Result divided by Screening Level

²Soil and groundwater screening levels are for comparison purposes only and are those identified in Tables 1 and 2 of the Rayonier Supplemental Upland Data Collection Work Plan (GeoEngineers, July 20, 2010)

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

ug/kg = micrograms per kilogram

ug/l = micrograms per liter

mg/kg = milligrams per kilogram

MTCA = Washington State Model Toxics Control Act Cleanup Regulation

PQL = practical quantitation limit

TEC = toxic equivalent concentration

APPENDIX D
LABORATORY ANALYTICAL REPORTS

BASELINE SUBSURFACE ENVIRONMENTAL ASSESSMENT
Portion of Rayonier Mill Property
700 North Ennis Street
Port Angeles, Washington

Farallon PN: 1005-001



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 14, 2011

Tad Cline
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1005-001
Laboratory Reference No. 1106-187

Dear Tad:

Enclosed are the analytical results and associated quality control data for samples submitted on June 22, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: July 14, 2011
Samples Submitted: June 22, 2011
Laboratory Reference: 1106-187
Project: 1005-001

Case Narrative

Samples were collected on June 20 and 21, 2011 and received by the laboratory on June 22, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX (soil) Analysis

Per EPA method 5035A, samples were received by the laboratory in pre-weighed 40 ml VOA vials preserved with either Methanol or Sodium Bisulfate.

Volatiles (soil) EPA 8260B Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

The value reported for Benzene for sample FAR10-2.5 exceeds the quantitation range and is therefore an estimate. The sample was analyzed at the lowest possible dilution provided for by Method 5035A with non-detect results for Benzene. The sample VOAs may be inhomogeneous.

Semivolatiles (water) EPA 8270D/SIM Analysis

The method blank had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Organochlorine Pesticides by EPA 8081A Analysis

Please note that the P-flagged pesticide hits for samples FAR21-2.5, FAR20-2.5, and FAR6-0.5 are caused by PCB interferences.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR12-2.5					
Laboratory ID:	06-187-01					
Benzene	ND	0.020	EPA 8021	6-24-11	6-24-11	
Toluene	ND	0.074	EPA 8021	6-24-11	6-24-11	
Ethyl Benzene	ND	0.074	EPA 8021	6-24-11	6-24-11	
m,p-Xylene	ND	0.074	EPA 8021	6-24-11	6-24-11	
o-Xylene	ND	0.074	EPA 8021	6-24-11	6-24-11	
Gasoline	ND	7.4	NWTPH-Gx	6-24-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	68-124				
Client ID:	FAR21-2.5					
Laboratory ID:	06-187-10					
Gasoline	ND	7.1	NWTPH-Gx	6-24-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	88	68-124				
Client ID:	FAR20-2.5					
Laboratory ID:	06-187-14					
Gasoline	ND	6.7	NWTPH-Gx	6-24-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	83	68-124				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR10-2.5					
Laboratory ID:	06-187-18					
Gasoline	ND	6.9	NWTPH-Gx	6-24-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	81	68-124				
Client ID:	FAR9-2.5					
Laboratory ID:	06-187-22					
Benzene	ND	0.020	EPA 8021	6-24-11	6-24-11	
Toluene	ND	0.063	EPA 8021	6-24-11	6-24-11	
Ethyl Benzene	ND	0.063	EPA 8021	6-24-11	6-24-11	
m,p-Xylene	ND	0.063	EPA 8021	6-24-11	6-24-11	
o-Xylene	ND	0.063	EPA 8021	6-24-11	6-24-11	
Gasoline	ND	6.3	NWTPH-Gx	6-24-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	88	68-124				
Client ID:	FAR7-2.5					
Laboratory ID:	06-187-26					
Gasoline	ND	7.7	NWTPH-Gx	6-24-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	88	68-124				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR13-2.5					
Laboratory ID:	06-187-30					
Benzene	ND	0.020	EPA 8021	6-24-11	6-24-11	
Toluene	ND	0.060	EPA 8021	6-24-11	6-24-11	
Ethyl Benzene	ND	0.060	EPA 8021	6-24-11	6-24-11	
m,p-Xylene	ND	0.060	EPA 8021	6-24-11	6-24-11	
o-Xylene	ND	0.060	EPA 8021	6-24-11	6-24-11	
Gasoline	ND	6.0	NWTPH-Gx	6-24-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	81	68-124				
Client ID:	FAR5-0.5					
Laboratory ID:	06-187-35					
Benzene	ND	0.022	EPA 8021	6-24-11	6-24-11	
Toluene	ND	0.11	EPA 8021	6-24-11	6-24-11	
Ethyl Benzene	ND	0.11	EPA 8021	6-24-11	6-24-11	
m,p-Xylene	ND	0.11	EPA 8021	6-24-11	6-24-11	
o-Xylene	ND	0.11	EPA 8021	6-24-11	6-24-11	
Gasoline	ND	11	NWTPH-Gx	6-24-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	97	68-124				
Client ID:	FAR6-0.5					
Laboratory ID:	06-187-36					
Benzene	ND	0.020	EPA 8021	6-24-11	6-24-11	
Toluene	ND	0.073	EPA 8021	6-24-11	6-24-11	
Ethyl Benzene	ND	0.073	EPA 8021	6-24-11	6-24-11	
m,p-Xylene	ND	0.073	EPA 8021	6-24-11	6-24-11	
o-Xylene	ND	0.073	EPA 8021	6-24-11	6-24-11	
Gasoline	ND	7.3	NWTPH-Gx	6-24-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	83	68-124				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624S1					
Benzene	ND	0.020	EPA 8021	6-24-11	6-24-11	
Toluene	ND	0.050	EPA 8021	6-24-11	6-24-11	
Ethyl Benzene	ND	0.050	EPA 8021	6-24-11	6-24-11	
m,p-Xylene	ND	0.050	EPA 8021	6-24-11	6-24-11	
o-Xylene	ND	0.050	EPA 8021	6-24-11	6-24-11	
Gasoline	ND	5.0	NWTPH-Gx	6-24-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	81	68-124				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-187-26							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				88	90	68-124		

SPIKE BLANKS

Laboratory ID:	SB0624S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.837	0.837	1.00	1.00	84	84	77-114	0	9
Toluene	0.872	0.876	1.00	1.00	87	88	80-115	0	9
Ethyl Benzene	0.878	0.881	1.00	1.00	88	88	80-118	0	9
m,p-Xylene	0.886	0.891	1.00	1.00	89	89	82-118	1	9
o-Xylene	0.876	0.876	1.00	1.00	88	88	82-116	0	9
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					82	80	68-124		

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
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 Project: 1005-001

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR12-062011-GW					
Laboratory ID:	06-187-04					
Benzene	ND	1.0	EPA 8021	6-23-11	6-23-11	
Toluene	ND	1.0	EPA 8021	6-23-11	6-23-11	
Ethyl Benzene	ND	1.0	EPA 8021	6-23-11	6-23-11	
m,p-Xylene	ND	1.0	EPA 8021	6-23-11	6-23-11	
o-Xylene	ND	1.0	EPA 8021	6-23-11	6-23-11	
Gasoline	ND	100	NWTPH-Gx	6-23-11	6-23-11	

Surrogate: Percent Recovery Control Limits
Fluorobenzene 87 73-121

Client ID: FAR15-062011-GW

Laboratory ID:	06-187-09					
Gasoline	ND	100	NWTPH-Gx	6-23-11	6-23-11	

Surrogate: Percent Recovery Control Limits
Fluorobenzene 89 73-121

Client ID: FAR13-062111-GW

Laboratory ID:	06-187-34					
Benzene	ND	1.0	EPA 8021	6-23-11	6-23-11	
Toluene	ND	1.0	EPA 8021	6-23-11	6-23-11	
Ethyl Benzene	ND	1.0	EPA 8021	6-23-11	6-23-11	
m,p-Xylene	ND	1.0	EPA 8021	6-23-11	6-23-11	
o-Xylene	ND	1.0	EPA 8021	6-23-11	6-23-11	
Gasoline	ND	100	NWTPH-Gx	6-23-11	6-23-11	

Surrogate: Percent Recovery Control Limits
Fluorobenzene 87 73-121

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0623W1					
Benzene	ND	1.0	EPA 8021	6-23-11	6-23-11	
Toluene	ND	1.0	EPA 8021	6-23-11	6-23-11	
Ethyl Benzene	ND	1.0	EPA 8021	6-23-11	6-23-11	
m,p-Xylene	ND	1.0	EPA 8021	6-23-11	6-23-11	
o-Xylene	ND	1.0	EPA 8021	6-23-11	6-23-11	
Gasoline	ND	100	NWTPH-Gx	6-23-11	6-23-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	78	73-121				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-187-04							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				87	88	73-121		

MATRIX SPIKES

Laboratory ID:	06-187-04									
	MS	MSD	MS	MSD	MS	MSD				
Benzene	45.8	46.0	50.0	50.0	ND	92	92	82-120	0	8
Toluene	46.8	47.9	50.0	50.0	ND	94	96	84-119	2	8
Ethyl Benzene	46.1	47.9	50.0	50.0	ND	92	96	84-122	4	9
m,p-Xylene	45.9	47.6	50.0	50.0	ND	92	95	85-121	4	9
o-Xylene	45.7	47.1	50.0	50.0	ND	91	94	84-121	3	9
<i>Surrogate:</i>										
<i>Fluorobenzene</i>						98	87	73-121		

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

NWTPH-Dx
 (with acid/silica gel clean-up)

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR12-2.5					
Laboratory ID:	06-187-01					
Diesel Range Organics	ND	32	NWTPH-Dx	6-23-11	6-24-11	
Lube Oil Range Organics	ND	63	NWTPH-Dx	6-23-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				

Client ID:	FAR21-2.5					
Laboratory ID:	06-187-10					
Diesel Range Organics	ND	51	NWTPH-Dx	6-23-11	6-24-11	U1
Lube Oil	240	60	NWTPH-Dx	6-23-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	114	50-150				

Client ID:	FAR20-2.5					
Laboratory ID:	06-187-14					
Diesel Range Organics	ND	39	NWTPH-Dx	6-23-11	6-24-11	U1
Lube Oil	260	60	NWTPH-Dx	6-23-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	111	50-150				

Client ID:	FAR10-2.5					
Laboratory ID:	06-187-18					
Diesel Range Organics	ND	57	NWTPH-Dx	6-23-11	6-24-11	U1
Lube Oil	370	60	NWTPH-Dx	6-23-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	102	50-150				

Client ID:	FAR9-2.5					
Laboratory ID:	06-187-22					
Diesel Range Organics	ND	49	NWTPH-Dx	6-23-11	6-24-11	U1
Lube Oil	260	58	NWTPH-Dx	6-23-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	102	50-150				

Client ID:	FAR7-2.5					
Laboratory ID:	06-187-26					
Diesel Range Organics	ND	26	NWTPH-Dx	6-23-11	6-24-11	
Lube Oil	120	52	NWTPH-Dx	6-23-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	133	50-150				

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 Project: 1005-001

NWTPH-Dx
 (with acid/silica gel clean-up)

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR13-2.5					
Laboratory ID:	06-187-30					
Diesel Range Organics	ND	27	NWTPH-Dx	6-23-11	6-24-11	
Lube Oil	55	55	NWTPH-Dx	6-23-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	114	50-150				
Client ID:	FAR5-0.5					
Laboratory ID:	06-187-35					
Diesel Range Organics	ND	41	NWTPH-Dx	6-23-11	6-24-11	
Lube Oil Range Organics	ND	82	NWTPH-Dx	6-23-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	51	50-150				
Client ID:	FAR6-0.5					
Laboratory ID:	06-187-36					
Diesel Range Organics	ND	42	NWTPH-Dx	6-23-11	6-24-11	U1
Lube Oil	370	62	NWTPH-Dx	6-23-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	103	50-150				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
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 Project: 1005-001

**NWTPH-Dx
 QUALITY CONTROL
 (with acid/silica gel clean-up)**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0623S2					
Diesel Range Organics	ND	25	NWTPH-Dx	6-23-11	6-24-11	
Lube Oil Range Organics	ND	50	NWTPH-Dx	6-23-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	118	50-150				

Analyte	Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE						
Laboratory ID:	06-187-30					
	ORIG	DUP				
Diesel Range Organics	ND	ND		NA	NA	
Lube Oil	50.1	ND		NA	NA	
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			114 106	50-150		

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
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 Project: 1005-001

NWTPH-Dx
(with acid/silica gel clean-up)

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR12-062011-GW					
Laboratory ID:	06-187-04					
Diesel Range Organics	ND	0.27	NWTPH-Dx	6-23-11	6-23-11	
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	6-23-11	6-23-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	100	50-150				

Client ID:	FAR15-062011-GW					
Laboratory ID:	06-187-09					
Diesel Range Organics	ND	0.26	NWTPH-Dx	6-23-11	6-23-11	
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	6-23-11	6-23-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	109	50-150				

Client ID:	FAR13-062111-GW					
Laboratory ID:	06-187-34					
Diesel Range Organics	ND	0.27	NWTPH-Dx	6-23-11	6-23-11	
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	6-23-11	6-23-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	99	50-150				

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 Samples Submitted: June 22, 2011
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 Project: 1005-001

**NWTPH-Dx
 QUALITY CONTROL
 (with acid/silica gel clean-up)**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0623W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-23-11	6-23-11	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	6-23-11	6-23-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	103	50-150				

Analyte	Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE						
Laboratory ID:	06-187-09					
	ORIG	DUP				
Diesel Range Organics	ND	ND		NA	NA	
Lube Oil Range Organics	ND	ND		NA	NA	
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			109 108	50-150		

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VOLATILES by EPA 8260B
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR15-2.5					
Laboratory ID:	06-187-05					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Chloromethane	ND	0.0058	EPA 8260	6-24-11	6-24-11	
Vinyl Chloride	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Bromomethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Chloroethane	ND	0.0058	EPA 8260	6-24-11	6-24-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Acetone	0.033	0.0058	EPA 8260	6-24-11	6-24-11	
Iodomethane	ND	0.0058	EPA 8260	6-24-11	6-24-11	
Carbon Disulfide	ND	0.0058	EPA 8260	6-24-11	6-24-11	
Methylene Chloride	ND	0.0058	EPA 8260	6-24-11	6-24-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Vinyl Acetate	ND	0.0058	EPA 8260	6-24-11	6-24-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
2-Butanone	ND	0.0058	EPA 8260	6-24-11	6-24-11	
Bromochloromethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Chloroform	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Benzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,2-Dichloroethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Trichloroethene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Dibromomethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Bromodichloromethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260	6-24-11	6-24-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Methyl Isobutyl Ketone	ND	0.0058	EPA 8260	6-24-11	6-24-11	
Toluene	ND	0.0058	EPA 8260	6-24-11	6-24-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	6-24-11	6-24-11	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR15-2.5					
Laboratory ID:	06-187-05					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Tetrachloroethene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
2-Hexanone	ND	0.0058	EPA 8260	6-24-11	6-24-11	
Dibromochloromethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Chlorobenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Ethylbenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
m,p-Xylene	ND	0.0023	EPA 8260	6-24-11	6-24-11	
o-Xylene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Styrene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Bromoform	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Isopropylbenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Bromobenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
n-Propylbenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
2-Chlorotoluene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
4-Chlorotoluene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
tert-Butylbenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
sec-Butylbenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
p-Isopropyltoluene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
n-Butylbenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260	6-24-11	6-24-11	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Hexachlorobutadiene	ND	0.0058	EPA 8260	6-24-11	6-24-11	
Naphthalene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>75</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>77</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>76</i>	<i>55-121</i>				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR21-2.5					
Laboratory ID:	06-187-10					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Chloromethane	ND	0.0057	EPA 8260	6-24-11	6-24-11	
Vinyl Chloride	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Bromomethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Chloroethane	ND	0.0057	EPA 8260	6-24-11	6-24-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Acetone	0.042	0.0057	EPA 8260	6-24-11	6-24-11	
Iodomethane	ND	0.0057	EPA 8260	6-24-11	6-24-11	
Carbon Disulfide	ND	0.0057	EPA 8260	6-24-11	6-24-11	
Methylene Chloride	ND	0.0057	EPA 8260	6-24-11	6-24-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260	6-24-11	6-24-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Vinyl Acetate	ND	0.0057	EPA 8260	6-24-11	6-24-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
2-Butanone	ND	0.0057	EPA 8260	6-24-11	6-24-11	
Bromochloromethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Chloroform	ND	0.0011	EPA 8260	6-24-11	6-24-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	6-24-11	6-24-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Benzene	0.010	0.0011	EPA 8260	6-24-11	6-24-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Trichloroethene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Dibromomethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Bromodichloromethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260	6-24-11	6-24-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Methyl Isobutyl Ketone	ND	0.0057	EPA 8260	6-24-11	6-24-11	
Toluene	ND	0.0057	EPA 8260	6-24-11	6-24-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	6-24-11	6-24-11	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR21-2.5					
Laboratory ID:	06-187-10					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Tetrachloroethene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
2-Hexanone	ND	0.0057	EPA 8260	6-24-11	6-24-11	
Dibromochloromethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Chlorobenzene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Ethylbenzene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
m,p-Xylene	ND	0.0023	EPA 8260	6-24-11	6-24-11	
o-Xylene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Styrene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Bromoform	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Isopropylbenzene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Bromobenzene	ND	0.071	EPA 8260	6-24-11	6-27-11	
1,1,2,2-Tetrachloroethane	ND	0.071	EPA 8260	6-24-11	6-27-11	
1,2,3-Trichloropropane	ND	0.071	EPA 8260	6-24-11	6-27-11	
n-Propylbenzene	ND	0.071	EPA 8260	6-24-11	6-27-11	
2-Chlorotoluene	ND	0.071	EPA 8260	6-24-11	6-27-11	
4-Chlorotoluene	ND	0.071	EPA 8260	6-24-11	6-27-11	
1,3,5-Trimethylbenzene	ND	0.071	EPA 8260	6-24-11	6-27-11	
tert-Butylbenzene	ND	0.071	EPA 8260	6-24-11	6-27-11	
1,2,4-Trimethylbenzene	ND	0.071	EPA 8260	6-24-11	6-27-11	
sec-Butylbenzene	ND	0.071	EPA 8260	6-24-11	6-27-11	
1,3-Dichlorobenzene	ND	0.071	EPA 8260	6-24-11	6-27-11	
p-Isopropyltoluene	ND	0.071	EPA 8260	6-24-11	6-27-11	
1,4-Dichlorobenzene	ND	0.071	EPA 8260	6-24-11	6-27-11	
1,2-Dichlorobenzene	ND	0.071	EPA 8260	6-24-11	6-27-11	
n-Butylbenzene	ND	0.071	EPA 8260	6-24-11	6-27-11	
1,2-Dibromo-3-chloropropane	ND	0.35	EPA 8260	6-24-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.071	EPA 8260	6-24-11	6-27-11	
Hexachlorobutadiene	ND	0.35	EPA 8260	6-24-11	6-27-11	
Naphthalene	ND	0.071	EPA 8260	6-24-11	6-27-11	
1,2,3-Trichlorobenzene	ND	0.071	EPA 8260	6-24-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>81</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>78</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>62</i>	<i>55-121</i>				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
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 Project: 1005-001

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR20-2.5					
Laboratory ID:	06-187-14					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Chloromethane	ND	0.0055	EPA 8260	6-24-11	6-24-11	
Vinyl Chloride	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Bromomethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Chloroethane	ND	0.0055	EPA 8260	6-24-11	6-24-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Acetone	0.068	0.0055	EPA 8260	6-24-11	6-24-11	
Iodomethane	ND	0.0055	EPA 8260	6-24-11	6-24-11	
Carbon Disulfide	ND	0.0055	EPA 8260	6-24-11	6-24-11	
Methylene Chloride	ND	0.0055	EPA 8260	6-24-11	6-24-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260	6-24-11	6-24-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Vinyl Acetate	ND	0.0055	EPA 8260	6-24-11	6-24-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
2-Butanone	0.0084	0.0055	EPA 8260	6-24-11	6-24-11	
Bromochloromethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Chloroform	ND	0.0011	EPA 8260	6-24-11	6-24-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	6-24-11	6-24-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Benzene	0.0033	0.0011	EPA 8260	6-24-11	6-24-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Trichloroethene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Dibromomethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Bromodichloromethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260	6-24-11	6-24-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Methyl Isobutyl Ketone	ND	0.0055	EPA 8260	6-24-11	6-24-11	
Toluene	ND	0.0055	EPA 8260	6-24-11	6-24-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	6-24-11	6-24-11	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR20-2.5					
Laboratory ID:	06-187-14					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Tetrachloroethene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
2-Hexanone	ND	0.0055	EPA 8260	6-24-11	6-24-11	
Dibromochloromethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Chlorobenzene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Ethylbenzene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
m,p-Xylene	ND	0.0022	EPA 8260	6-24-11	6-24-11	
o-Xylene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Styrene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Bromoform	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Isopropylbenzene	ND	0.0011	EPA 8260	6-24-11	6-24-11	
Bromobenzene	ND	0.067	EPA 8260	6-24-11	6-24-11	
1,1,2,2-Tetrachloroethane	ND	0.067	EPA 8260	6-24-11	6-24-11	
1,2,3-Trichloropropane	ND	0.067	EPA 8260	6-24-11	6-24-11	
n-Propylbenzene	ND	0.067	EPA 8260	6-24-11	6-24-11	
2-Chlorotoluene	ND	0.067	EPA 8260	6-24-11	6-24-11	
4-Chlorotoluene	ND	0.067	EPA 8260	6-24-11	6-24-11	
1,3,5-Trimethylbenzene	ND	0.067	EPA 8260	6-24-11	6-24-11	
tert-Butylbenzene	ND	0.067	EPA 8260	6-24-11	6-24-11	
1,2,4-Trimethylbenzene	ND	0.067	EPA 8260	6-24-11	6-24-11	
sec-Butylbenzene	ND	0.067	EPA 8260	6-24-11	6-24-11	
1,3-Dichlorobenzene	ND	0.067	EPA 8260	6-24-11	6-24-11	
p-Isopropyltoluene	ND	0.067	EPA 8260	6-24-11	6-24-11	
1,4-Dichlorobenzene	ND	0.067	EPA 8260	6-24-11	6-24-11	
1,2-Dichlorobenzene	ND	0.067	EPA 8260	6-24-11	6-24-11	
n-Butylbenzene	ND	0.067	EPA 8260	6-24-11	6-24-11	
1,2-Dibromo-3-chloropropane	ND	0.33	EPA 8260	6-24-11	6-24-11	
1,2,4-Trichlorobenzene	ND	0.067	EPA 8260	6-24-11	6-24-11	
Hexachlorobutadiene	ND	0.33	EPA 8260	6-24-11	6-24-11	
Naphthalene	ND	0.067	EPA 8260	6-24-11	6-24-11	
1,2,3-Trichlorobenzene	ND	0.067	EPA 8260	6-24-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>86</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>79</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>62</i>	<i>55-121</i>				

Date of Report: July 14, 2011
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 Project: 1005-001

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR10-2.5					
Laboratory ID:	06-187-18					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Chloromethane	ND	0.0059	EPA 8260	6-24-11	6-24-11	
Vinyl Chloride	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Bromomethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Chloroethane	ND	0.0059	EPA 8260	6-24-11	6-24-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Acetone	0.12	0.0059	EPA 8260	6-24-11	6-24-11	
Iodomethane	ND	0.0059	EPA 8260	6-24-11	6-24-11	
Carbon Disulfide	0.0064	0.0059	EPA 8260	6-24-11	6-24-11	
Methylene Chloride	ND	0.0059	EPA 8260	6-24-11	6-24-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Vinyl Acetate	ND	0.0059	EPA 8260	6-24-11	6-24-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
2-Butanone	0.011	0.0059	EPA 8260	6-24-11	6-24-11	
Bromochloromethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Chloroform	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Benzene	0.24	0.0012	EPA 8260	6-24-11	6-24-11	E
1,2-Dichloroethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Trichloroethene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Dibromomethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Bromodichloromethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260	6-24-11	6-24-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Methyl Isobutyl Ketone	ND	0.0059	EPA 8260	6-24-11	6-24-11	
Toluene	0.026	0.0059	EPA 8260	6-24-11	6-24-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	6-24-11	6-24-11	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR10-2.5					
Laboratory ID:	06-187-18					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Tetrachloroethene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
2-Hexanone	ND	0.0059	EPA 8260	6-24-11	6-24-11	
Dibromochloromethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Chlorobenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Ethylbenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
m,p-Xylene	0.0038	0.0024	EPA 8260	6-24-11	6-24-11	
o-Xylene	0.0016	0.0012	EPA 8260	6-24-11	6-24-11	
Styrene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Bromoform	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Isopropylbenzene	ND	0.0012	EPA 8260	6-24-11	6-24-11	
Bromobenzene	ND	0.069	EPA 8260	6-24-11	6-27-11	
1,1,2,2-Tetrachloroethane	ND	0.069	EPA 8260	6-24-11	6-27-11	
1,2,3-Trichloropropane	ND	0.069	EPA 8260	6-24-11	6-27-11	
n-Propylbenzene	ND	0.069	EPA 8260	6-24-11	6-27-11	
2-Chlorotoluene	ND	0.069	EPA 8260	6-24-11	6-27-11	
4-Chlorotoluene	ND	0.069	EPA 8260	6-24-11	6-27-11	
1,3,5-Trimethylbenzene	ND	0.069	EPA 8260	6-24-11	6-27-11	
tert-Butylbenzene	ND	0.069	EPA 8260	6-24-11	6-27-11	
1,2,4-Trimethylbenzene	ND	0.069	EPA 8260	6-24-11	6-27-11	
sec-Butylbenzene	ND	0.069	EPA 8260	6-24-11	6-27-11	
1,3-Dichlorobenzene	ND	0.069	EPA 8260	6-24-11	6-27-11	
p-Isopropyltoluene	ND	0.069	EPA 8260	6-24-11	6-27-11	
1,4-Dichlorobenzene	ND	0.069	EPA 8260	6-24-11	6-27-11	
1,2-Dichlorobenzene	ND	0.069	EPA 8260	6-24-11	6-27-11	
n-Butylbenzene	ND	0.069	EPA 8260	6-24-11	6-27-11	
1,2-Dibromo-3-chloropropane	ND	0.34	EPA 8260	6-24-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.069	EPA 8260	6-24-11	6-27-11	
Hexachlorobutadiene	ND	0.34	EPA 8260	6-24-11	6-27-11	
Naphthalene	ND	0.069	EPA 8260	6-24-11	6-27-11	
1,2,3-Trichlorobenzene	ND	0.069	EPA 8260	6-24-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>84</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>78</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>64</i>	<i>55-121</i>				

Date of Report: July 14, 2011
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR7-2.5					
Laboratory ID:	06-187-26					
Dichlorodifluoromethane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Chloromethane	ND	0.0082	EPA 8260	6-24-11	6-24-11	
Vinyl Chloride	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Bromomethane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Chloroethane	ND	0.0082	EPA 8260	6-24-11	6-24-11	
Trichlorofluoromethane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,1-Dichloroethene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Acetone	0.070	0.0082	EPA 8260	6-24-11	6-24-11	
Iodomethane	ND	0.0082	EPA 8260	6-24-11	6-24-11	
Carbon Disulfide	ND	0.0082	EPA 8260	6-24-11	6-24-11	
Methylene Chloride	ND	0.0082	EPA 8260	6-24-11	6-24-11	
(trans) 1,2-Dichloroethene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Methyl t-Butyl Ether	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,1-Dichloroethane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Vinyl Acetate	ND	0.0082	EPA 8260	6-24-11	6-24-11	
2,2-Dichloropropane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
(cis) 1,2-Dichloroethene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
2-Butanone	ND	0.0082	EPA 8260	6-24-11	6-24-11	
Bromochloromethane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Chloroform	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,1,1-Trichloroethane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Carbon Tetrachloride	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,1-Dichloropropene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Benzene	0.0026	0.0016	EPA 8260	6-24-11	6-24-11	
1,2-Dichloroethane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Trichloroethene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,2-Dichloropropane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Dibromomethane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Bromodichloromethane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
2-Chloroethyl Vinyl Ether	ND	0.0082	EPA 8260	6-24-11	6-24-11	
(cis) 1,3-Dichloropropene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Methyl Isobutyl Ketone	ND	0.0082	EPA 8260	6-24-11	6-24-11	
Toluene	ND	0.0082	EPA 8260	6-24-11	6-24-11	
(trans) 1,3-Dichloropropene	ND	0.0016	EPA 8260	6-24-11	6-24-11	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR7-2.5					
Laboratory ID:	06-187-26					
1,1,2-Trichloroethane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Tetrachloroethene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,3-Dichloropropane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
2-Hexanone	ND	0.0082	EPA 8260	6-24-11	6-24-11	
Dibromochloromethane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,2-Dibromoethane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Chlorobenzene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,1,1,2-Tetrachloroethane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Ethylbenzene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
m,p-Xylene	ND	0.0033	EPA 8260	6-24-11	6-24-11	
o-Xylene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Styrene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Bromoform	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Isopropylbenzene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Bromobenzene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,1,2,2-Tetrachloroethane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,2,3-Trichloropropane	ND	0.0016	EPA 8260	6-24-11	6-24-11	
n-Propylbenzene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
2-Chlorotoluene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
4-Chlorotoluene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,3,5-Trimethylbenzene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
tert-Butylbenzene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,2,4-Trimethylbenzene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
sec-Butylbenzene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,3-Dichlorobenzene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
p-Isopropyltoluene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,4-Dichlorobenzene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,2-Dichlorobenzene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
n-Butylbenzene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,2-Dibromo-3-chloropropane	ND	0.0082	EPA 8260	6-24-11	6-24-11	
1,2,4-Trichlorobenzene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
Hexachlorobutadiene	ND	0.0082	EPA 8260	6-24-11	6-24-11	
Naphthalene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
1,2,3-Trichlorobenzene	ND	0.0016	EPA 8260	6-24-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>71</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>73</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>71</i>	<i>55-121</i>				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0624S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Chloromethane	ND	0.0050	EPA 8260	6-24-11	6-24-11	
Vinyl Chloride	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Bromomethane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Chloroethane	ND	0.0050	EPA 8260	6-24-11	6-24-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Acetone	ND	0.0050	EPA 8260	6-24-11	6-24-11	
Iodomethane	ND	0.0050	EPA 8260	6-24-11	6-24-11	
Carbon Disulfide	ND	0.0050	EPA 8260	6-24-11	6-24-11	
Methylene Chloride	ND	0.0050	EPA 8260	6-24-11	6-24-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Vinyl Acetate	ND	0.0050	EPA 8260	6-24-11	6-24-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
2-Butanone	ND	0.0050	EPA 8260	6-24-11	6-24-11	
Bromochloromethane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Chloroform	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Benzene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Trichloroethene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Dibromomethane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Bromodichloromethane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	6-24-11	6-24-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260	6-24-11	6-24-11	
Toluene	ND	0.0050	EPA 8260	6-24-11	6-24-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	6-24-11	6-24-11	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0624S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Tetrachloroethene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
2-Hexanone	ND	0.0050	EPA 8260	6-24-11	6-24-11	
Dibromochloromethane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Chlorobenzene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Ethylbenzene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
m,p-Xylene	ND	0.0020	EPA 8260	6-24-11	6-24-11	
o-Xylene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Styrene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Bromoform	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Isopropylbenzene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Bromobenzene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	6-24-11	6-24-11	
n-Propylbenzene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
tert-Butylbenzene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
sec-Butylbenzene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
p-Isopropyltoluene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
n-Butylbenzene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	6-24-11	6-24-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	6-24-11	6-24-11	
Naphthalene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	6-24-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>71</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>78</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>80</i>	<i>55-121</i>				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Limit	Flags
					Recovery	Limits	RPD				
SPIKE BLANKS											
Laboratory ID:	SB0624S1										
	SB	SBD	SB	SBD	SB	SBD					
1,1-Dichloroethene	0.0558	0.0552	0.0500	0.0500	112	110	70-130	1		19	
Benzene	0.0457	0.0454	0.0500	0.0500	91	91	70-125	1		15	
Trichloroethene	0.0485	0.0479	0.0500	0.0500	97	96	70-122	1		14	
Toluene	0.0475	0.0469	0.0500	0.0500	95	94	73-120	1		16	
Chlorobenzene	0.0506	0.0498	0.0500	0.0500	101	100	74-109	2		12	
<i>Surrogate:</i>											
<i>Dibromofluoromethane</i>					<i>70</i>	<i>70</i>	<i>63-127</i>				
<i>Toluene-d8</i>					<i>73</i>	<i>76</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>					<i>78</i>	<i>79</i>	<i>55-121</i>				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

VOLATILES by EPA 8260B
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR15-062011-GW					
Laboratory ID:	06-187-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Chloromethane	ND	1.0	EPA 8260	6-23-11	6-23-11	
Vinyl Chloride	ND	0.20	EPA 8260	6-23-11	6-23-11	
Bromomethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Chloroethane	ND	1.0	EPA 8260	6-23-11	6-23-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Acetone	ND	5.0	EPA 8260	6-23-11	6-23-11	
Iodomethane	ND	1.0	EPA 8260	6-23-11	6-23-11	
Carbon Disulfide	ND	0.20	EPA 8260	6-23-11	6-23-11	
Methylene Chloride	ND	1.0	EPA 8260	6-23-11	6-23-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Vinyl Acetate	ND	2.0	EPA 8260	6-23-11	6-23-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	6-23-11	6-23-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	6-23-11	6-23-11	
2-Butanone	ND	5.0	EPA 8260	6-23-11	6-23-11	
Bromochloromethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Chloroform	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Benzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Trichloroethene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Dibromomethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Bromodichloromethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	6-23-11	6-23-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	6-23-11	6-23-11	
Toluene	ND	1.0	EPA 8260	6-23-11	6-23-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	6-23-11	6-23-11	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
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 Project: 1005-001

VOLATILES by EPA 8260B
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR15-062011-GW					
Laboratory ID:	06-187-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Tetrachloroethene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	6-23-11	6-23-11	
2-Hexanone	ND	2.0	EPA 8260	6-23-11	6-23-11	
Dibromochloromethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Chlorobenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Ethylbenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
m,p-Xylene	ND	0.40	EPA 8260	6-23-11	6-23-11	
o-Xylene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Styrene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Bromoform	ND	1.0	EPA 8260	6-23-11	6-23-11	
Isopropylbenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Bromobenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	6-23-11	6-23-11	
n-Propylbenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
2-Chlorotoluene	ND	0.20	EPA 8260	6-23-11	6-23-11	
4-Chlorotoluene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
tert-Butylbenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
sec-Butylbenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
n-Butylbenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	6-23-11	6-23-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Naphthalene	ND	1.0	EPA 8260	6-23-11	6-23-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>83</i>	<i>68-110</i>				
<i>Toluene-d8</i>	<i>84</i>	<i>73-110</i>				
<i>4-Bromofluorobenzene</i>	<i>77</i>	<i>65-110</i>				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0623W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Chloromethane	ND	1.0	EPA 8260	6-23-11	6-23-11	
Vinyl Chloride	ND	0.20	EPA 8260	6-23-11	6-23-11	
Bromomethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Chloroethane	ND	1.0	EPA 8260	6-23-11	6-23-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Acetone	ND	5.0	EPA 8260	6-23-11	6-23-11	
Iodomethane	ND	1.0	EPA 8260	6-23-11	6-23-11	
Carbon Disulfide	ND	0.20	EPA 8260	6-23-11	6-23-11	
Methylene Chloride	ND	1.0	EPA 8260	6-23-11	6-23-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Vinyl Acetate	ND	2.0	EPA 8260	6-23-11	6-23-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	6-23-11	6-23-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	6-23-11	6-23-11	
2-Butanone	ND	5.0	EPA 8260	6-23-11	6-23-11	
Bromochloromethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Chloroform	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Benzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Trichloroethene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Dibromomethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Bromodichloromethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	6-23-11	6-23-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	6-23-11	6-23-11	
Toluene	ND	1.0	EPA 8260	6-23-11	6-23-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	6-23-11	6-23-11	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0623W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Tetrachloroethene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	6-23-11	6-23-11	
2-Hexanone	ND	2.0	EPA 8260	6-23-11	6-23-11	
Dibromochloromethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Chlorobenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
Ethylbenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
m,p-Xylene	ND	0.40	EPA 8260	6-23-11	6-23-11	
o-Xylene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Styrene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Bromoform	ND	1.0	EPA 8260	6-23-11	6-23-11	
Isopropylbenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Bromobenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	6-23-11	6-23-11	
n-Propylbenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
2-Chlorotoluene	ND	0.20	EPA 8260	6-23-11	6-23-11	
4-Chlorotoluene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
tert-Butylbenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
sec-Butylbenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
n-Butylbenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	6-23-11	6-23-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	6-23-11	6-23-11	
Naphthalene	ND	1.0	EPA 8260	6-23-11	6-23-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	6-23-11	6-23-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>91</i>	<i>68-110</i>				
<i>Toluene-d8</i>	<i>87</i>	<i>73-110</i>				
<i>4-Bromofluorobenzene</i>	<i>81</i>	<i>65-110</i>				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

VOLATILES by EPA 8260B
SB/SBD QUALITY CONTROL

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0623W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.85	8.46	10.0	10.0	89	85	70-130	5	11	
Benzene	9.58	9.35	10.0	10.0	96	94	75-123	2	8	
Trichloroethene	9.82	9.58	10.0	10.0	98	96	80-113	2	9	
Toluene	10.0	9.93	10.0	10.0	100	99	80-113	1	8	
Chlorobenzene	10.2	10.1	10.0	10.0	102	101	80-111	1	8	
<i>Surrogate:</i>										
Dibromofluoromethane					89	93	68-110			
Toluene-d8					88	89	73-110			
4-Bromofluorobenzene					82	85	65-110			

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR15-2.5					
Laboratory ID:	06-187-05					
n-Nitrosodimethylamine	ND	0.039	EPA 8270	6-27-11	6-27-11	
Pyridine	ND	0.39	EPA 8270	6-27-11	6-27-11	
Phenol	ND	0.039	EPA 8270	6-27-11	6-27-11	
Aniline	ND	0.039	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethyl)ether	ND	0.039	EPA 8270	6-27-11	6-27-11	
2-Chlorophenol	ND	0.039	EPA 8270	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	0.039	EPA 8270	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	0.039	EPA 8270	6-27-11	6-27-11	
Benzyl alcohol	ND	0.039	EPA 8270	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	0.039	EPA 8270	6-27-11	6-27-11	
2-Methylphenol (o-Cresol)	ND	0.039	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroisopropyl)ether	ND	0.039	EPA 8270	6-27-11	6-27-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.039	EPA 8270	6-27-11	6-27-11	
n-Nitroso-di-n-propylamine	ND	0.039	EPA 8270	6-27-11	6-27-11	
Hexachloroethane	ND	0.039	EPA 8270	6-27-11	6-27-11	
Nitrobenzene	ND	0.039	EPA 8270	6-27-11	6-27-11	
Isophorone	ND	0.039	EPA 8270	6-27-11	6-27-11	
2-Nitrophenol	ND	0.039	EPA 8270	6-27-11	6-27-11	
2,4-Dimethylphenol	ND	0.39	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethoxy)methane	ND	0.039	EPA 8270	6-27-11	6-27-11	
2,4-Dichlorophenol	ND	0.039	EPA 8270	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.039	EPA 8270	6-27-11	6-27-11	
Naphthalene	ND	0.0078	EPA 8270/SIM	6-27-11	6-27-11	
4-Chloroaniline	ND	0.039	EPA 8270	6-27-11	6-27-11	
Hexachlorobutadiene	ND	0.039	EPA 8270	6-27-11	6-27-11	
4-Chloro-3-methylphenol	ND	0.039	EPA 8270	6-27-11	6-27-11	
2-Methylnaphthalene	ND	0.0078	EPA 8270/SIM	6-27-11	6-27-11	
1-Methylnaphthalene	ND	0.0078	EPA 8270/SIM	6-27-11	6-27-11	
Hexachlorocyclopentadiene	ND	0.039	EPA 8270	6-27-11	6-27-11	
2,4,6-Trichlorophenol	ND	0.039	EPA 8270	6-27-11	6-27-11	
2,3-Dichloroaniline	ND	0.039	EPA 8270	6-27-11	6-27-11	
2,4,5-Trichlorophenol	ND	0.039	EPA 8270	6-27-11	6-27-11	
2-Chloronaphthalene	ND	0.039	EPA 8270	6-27-11	6-27-11	
2-Nitroaniline	ND	0.039	EPA 8270	6-27-11	6-27-11	
1,4-Dinitrobenzene	ND	0.039	EPA 8270	6-27-11	6-27-11	
Dimethylphthalate	ND	0.039	EPA 8270	6-27-11	6-27-11	
1,3-Dinitrobenzene	ND	0.039	EPA 8270	6-27-11	6-27-11	
2,6-Dinitrotoluene	ND	0.039	EPA 8270	6-27-11	6-27-11	
1,2-Dinitrobenzene	ND	0.039	EPA 8270	6-27-11	6-27-11	
Acenaphthylene	0.014	0.0078	EPA 8270/SIM	6-27-11	6-27-11	
3-Nitroaniline	ND	0.039	EPA 8270	6-27-11	6-27-11	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR15-2.5					
Laboratory ID:	06-187-05					
2,4-Dinitrophenol	ND	0.19	EPA 8270	6-27-11	6-27-11	
Acenaphthene	0.013	0.0078	EPA 8270/SIM	6-27-11	6-27-11	
4-Nitrophenol	ND	0.039	EPA 8270	6-27-11	6-27-11	
2,4-Dinitrotoluene	ND	0.039	EPA 8270	6-27-11	6-27-11	
Dibenzofuran	ND	0.039	EPA 8270	6-27-11	6-27-11	
2,3,5,6-Tetrachlorophenol	ND	0.039	EPA 8270	6-27-11	6-27-11	
2,3,4,6-Tetrachlorophenol	ND	0.039	EPA 8270	6-27-11	6-27-11	
Diethylphthalate	ND	0.19	EPA 8270	6-27-11	6-27-11	
4-Chlorophenyl-phenylether	ND	0.039	EPA 8270	6-27-11	6-27-11	
4-Nitroaniline	ND	0.039	EPA 8270	6-27-11	6-27-11	
Fluorene	0.014	0.0078	EPA 8270/SIM	6-27-11	6-27-11	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270	6-27-11	6-27-11	
n-Nitrosodiphenylamine	ND	0.039	EPA 8270	6-27-11	6-27-11	
1,2-Diphenylhydrazine	ND	0.039	EPA 8270	6-27-11	6-27-11	
4-Bromophenyl-phenylether	ND	0.039	EPA 8270	6-27-11	6-27-11	
Hexachlorobenzene	ND	0.039	EPA 8270	6-27-11	6-27-11	
Pentachlorophenol	ND	0.19	EPA 8270	6-27-11	6-27-11	
Phenanthrene	0.21	0.039	EPA 8270	6-27-11	6-27-11	
Anthracene	0.067	0.039	EPA 8270	6-27-11	6-27-11	
Carbazole	ND	0.039	EPA 8270	6-27-11	6-27-11	
Di-n-butylphthalate	ND	0.39	EPA 8270	6-27-11	6-27-11	
Fluoranthene	0.45	0.039	EPA 8270	6-27-11	6-27-11	
Benzidine	ND	0.39	EPA 8270	6-27-11	6-27-11	
Pyrene	0.35	0.039	EPA 8270	6-27-11	6-27-11	
Butylbenzylphthalate	ND	0.39	EPA 8270	6-27-11	6-27-11	
bis-2-Ethylhexyladipate	ND	0.039	EPA 8270	6-27-11	6-27-11	
3,3'-Dichlorobenzidine	ND	0.39	EPA 8270	6-27-11	6-27-11	
Benzo[a]anthracene	0.14	0.039	EPA 8270	6-27-11	6-27-11	
Chrysene	0.22	0.039	EPA 8270	6-27-11	6-27-11	
bis(2-Ethylhexyl)phthalate	0.11	0.039	EPA 8270	6-27-11	6-27-11	
Di-n-octylphthalate	ND	0.039	EPA 8270	6-27-11	6-27-11	
Benzo[b]fluoranthene	0.17	0.039	EPA 8270	6-27-11	6-27-11	
Benzo(j,k)fluoranthene	0.17	0.039	EPA 8270	6-27-11	6-27-11	
Benzo[a]pyrene	0.18	0.039	EPA 8270	6-27-11	6-27-11	
Indeno[1,2,3-cd]pyrene	0.13	0.039	EPA 8270	6-27-11	6-27-11	
Dibenz[a,h]anthracene	0.044	0.039	EPA 8270	6-27-11	6-27-11	
Benzo[g,h,i]perylene	0.14	0.039	EPA 8270	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	53	30 - 97				
Phenol-d6	61	40 - 104				
Nitrobenzene-d5	55	35 - 102				
2-Fluorobiphenyl	76	44 - 97				
2,4,6-Tribromophenol	86	41 - 110				
Terphenyl-d14	77	53 - 107				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR21-2.5					
Laboratory ID:	06-187-10					
n-Nitrosodimethylamine	ND	0.040	EPA 8270	6-27-11	6-27-11	
Pyridine	ND	0.40	EPA 8270	6-27-11	6-27-11	
Phenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
Aniline	ND	0.040	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethyl)ether	ND	0.040	EPA 8270	6-27-11	6-27-11	
2-Chlorophenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
Benzyl alcohol	ND	0.040	EPA 8270	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
2-Methylphenol (o-Cresol)	ND	0.040	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroisopropyl)ether	ND	0.040	EPA 8270	6-27-11	6-27-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.040	EPA 8270	6-27-11	6-27-11	
n-Nitroso-di-n-propylamine	ND	0.040	EPA 8270	6-27-11	6-27-11	
Hexachloroethane	ND	0.040	EPA 8270	6-27-11	6-27-11	
Nitrobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
Isophorone	ND	0.040	EPA 8270	6-27-11	6-27-11	
2-Nitrophenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,4-Dimethylphenol	ND	0.40	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethoxy)methane	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,4-Dichlorophenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
Naphthalene	0.037	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
4-Chloroaniline	ND	0.040	EPA 8270	6-27-11	6-27-11	
Hexachlorobutadiene	ND	0.040	EPA 8270	6-27-11	6-27-11	
4-Chloro-3-methylphenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
2-Methylnaphthalene	0.020	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
1-Methylnaphthalene	0.012	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Hexachlorocyclopentadiene	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,4,6-Trichlorophenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,3-Dichloroaniline	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,4,5-Trichlorophenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
2-Chloronaphthalene	ND	0.040	EPA 8270	6-27-11	6-27-11	
2-Nitroaniline	ND	0.040	EPA 8270	6-27-11	6-27-11	
1,4-Dinitrobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
Dimethylphthalate	ND	0.040	EPA 8270	6-27-11	6-27-11	
1,3-Dinitrobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,6-Dinitrotoluene	ND	0.040	EPA 8270	6-27-11	6-27-11	
1,2-Dinitrobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
Acenaphthylene	0.013	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
3-Nitroaniline	ND	0.040	EPA 8270	6-27-11	6-27-11	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR21-2.5					
Laboratory ID:	06-187-10					
2,4-Dinitrophenol	ND	0.20	EPA 8270	6-27-11	6-27-11	
Acenaphthene	0.018	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
4-Nitrophenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,4-Dinitrotoluene	ND	0.040	EPA 8270	6-27-11	6-27-11	
Dibenzofuran	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,3,5,6-Tetrachlorophenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,3,4,6-Tetrachlorophenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
Diethylphthalate	ND	0.20	EPA 8270	6-27-11	6-27-11	
4-Chlorophenyl-phenylether	ND	0.040	EPA 8270	6-27-11	6-27-11	
4-Nitroaniline	ND	0.040	EPA 8270	6-27-11	6-27-11	
Fluorene	0.020	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270	6-27-11	6-27-11	
n-Nitrosodiphenylamine	ND	0.040	EPA 8270	6-27-11	6-27-11	
1,2-Diphenylhydrazine	ND	0.040	EPA 8270	6-27-11	6-27-11	
4-Bromophenyl-phenylether	ND	0.040	EPA 8270	6-27-11	6-27-11	
Hexachlorobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
Pentachlorophenol	ND	0.20	EPA 8270	6-27-11	6-27-11	
Phenanthrene	0.077	0.040	EPA 8270	6-27-11	6-27-11	
Anthracene	0.027	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Carbazole	ND	0.040	EPA 8270	6-27-11	6-27-11	
Di-n-butylphthalate	ND	0.40	EPA 8270	6-27-11	6-27-11	
Fluoranthene	0.10	0.040	EPA 8270	6-27-11	6-27-11	
Benzidine	ND	0.40	EPA 8270	6-27-11	6-27-11	
Pyrene	0.082	0.040	EPA 8270	6-27-11	6-27-11	
Butylbenzylphthalate	ND	0.40	EPA 8270	6-27-11	6-27-11	
bis-2-Ethylhexyladipate	ND	0.040	EPA 8270	6-27-11	6-27-11	
3,3'-Dichlorobenzidine	ND	0.40	EPA 8270	6-27-11	6-27-11	
Benzo[a]anthracene	0.041	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Chrysene	0.047	0.040	EPA 8270	6-27-11	6-27-11	
bis(2-Ethylhexyl)phthalate	ND	0.040	EPA 8270	6-27-11	6-27-11	
Di-n-octylphthalate	ND	0.040	EPA 8270	6-27-11	6-27-11	
Benzo[b]fluoranthene	0.050	0.040	EPA 8270	6-27-11	6-27-11	
Benzo(j,k)fluoranthene	0.032	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[a]pyrene	0.049	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Indeno[1,2,3-cd]pyrene	0.034	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Dibenz[a,h]anthracene	0.013	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[g,h,i]perylene	0.046	0.040	EPA 8270	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	49	30 - 97				
Phenol-d6	53	40 - 104				
Nitrobenzene-d5	52	35 - 102				
2-Fluorobiphenyl	77	44 - 97				
2,4,6-Tribromophenol	90	41 - 110				
Terphenyl-d14	82	53 - 107				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR20-2.5					
Laboratory ID:	06-187-14					
n-Nitrosodimethylamine	ND	0.040	EPA 8270	6-27-11	6-27-11	
Pyridine	ND	0.40	EPA 8270	6-27-11	6-27-11	
Phenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
Aniline	ND	0.040	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethyl)ether	ND	0.040	EPA 8270	6-27-11	6-27-11	
2-Chlorophenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
Benzyl alcohol	ND	0.040	EPA 8270	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
2-Methylphenol (o-Cresol)	ND	0.040	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroisopropyl)ether	ND	0.040	EPA 8270	6-27-11	6-27-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.040	EPA 8270	6-27-11	6-27-11	
n-Nitroso-di-n-propylamine	ND	0.040	EPA 8270	6-27-11	6-27-11	
Hexachloroethane	ND	0.040	EPA 8270	6-27-11	6-27-11	
Nitrobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
Isophorone	ND	0.040	EPA 8270	6-27-11	6-27-11	
2-Nitrophenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,4-Dimethylphenol	ND	0.40	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethoxy)methane	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,4-Dichlorophenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
Naphthalene	0.044	0.040	EPA 8270	6-27-11	6-27-11	
4-Chloroaniline	ND	0.040	EPA 8270	6-27-11	6-27-11	
Hexachlorobutadiene	ND	0.040	EPA 8270	6-27-11	6-27-11	
4-Chloro-3-methylphenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
2-Methylnaphthalene	0.016	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
1-Methylnaphthalene	0.0080	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Hexachlorocyclopentadiene	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,4,6-Trichlorophenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,3-Dichloroaniline	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,4,5-Trichlorophenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
2-Chloronaphthalene	ND	0.040	EPA 8270	6-27-11	6-27-11	
2-Nitroaniline	ND	0.040	EPA 8270	6-27-11	6-27-11	
1,4-Dinitrobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
Dimethylphthalate	ND	0.040	EPA 8270	6-27-11	6-27-11	
1,3-Dinitrobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,6-Dinitrotoluene	ND	0.040	EPA 8270	6-27-11	6-27-11	
1,2-Dinitrobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
Acenaphthylene	0.0092	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
3-Nitroaniline	ND	0.040	EPA 8270	6-27-11	6-27-11	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR20-2.5					
Laboratory ID:	06-187-14					
2,4-Dinitrophenol	ND	0.20	EPA 8270	6-27-11	6-27-11	
Acenaphthene	0.016	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
4-Nitrophenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,4-Dinitrotoluene	ND	0.040	EPA 8270	6-27-11	6-27-11	
Dibenzofuran	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,3,5,6-Tetrachlorophenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
2,3,4,6-Tetrachlorophenol	ND	0.040	EPA 8270	6-27-11	6-27-11	
Diethylphthalate	ND	0.20	EPA 8270	6-27-11	6-27-11	
4-Chlorophenyl-phenylether	ND	0.040	EPA 8270	6-27-11	6-27-11	
4-Nitroaniline	ND	0.040	EPA 8270	6-27-11	6-27-11	
Fluorene	0.026	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270	6-27-11	6-27-11	
n-Nitrosodiphenylamine	ND	0.040	EPA 8270	6-27-11	6-27-11	
1,2-Diphenylhydrazine	ND	0.040	EPA 8270	6-27-11	6-27-11	
4-Bromophenyl-phenylether	ND	0.040	EPA 8270	6-27-11	6-27-11	
Hexachlorobenzene	ND	0.040	EPA 8270	6-27-11	6-27-11	
Pentachlorophenol	ND	0.20	EPA 8270	6-27-11	6-27-11	
Phenanthrene	0.13	0.040	EPA 8270	6-27-11	6-27-11	
Anthracene	0.024	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Carbazole	ND	0.040	EPA 8270	6-27-11	6-27-11	
Di-n-butylphthalate	ND	0.40	EPA 8270	6-27-11	6-27-11	
Fluoranthene	0.16	0.040	EPA 8270	6-27-11	6-27-11	
Benzidine	ND	0.40	EPA 8270	6-27-11	6-27-11	
Pyrene	0.13	0.040	EPA 8270	6-27-11	6-27-11	
Butylbenzylphthalate	ND	0.40	EPA 8270	6-27-11	6-27-11	
bis-2-Ethylhexyladipate	ND	0.040	EPA 8270	6-27-11	6-27-11	
3,3'-Dichlorobenzidine	ND	0.40	EPA 8270	6-27-11	6-27-11	
Benzo[a]anthracene	0.064	0.040	EPA 8270	6-27-11	6-27-11	
Chrysene	0.081	0.040	EPA 8270	6-27-11	6-27-11	
bis(2-Ethylhexyl)phthalate	ND	0.040	EPA 8270	6-27-11	6-27-11	
Di-n-octylphthalate	ND	0.040	EPA 8270	6-27-11	6-27-11	
Benzo[b]fluoranthene	0.065	0.040	EPA 8270	6-27-11	6-27-11	
Benzo(j,k)fluoranthene	0.056	0.040	EPA 8270	6-27-11	6-27-11	
Benzo[a]pyrene	0.067	0.040	EPA 8270	6-27-11	6-27-11	
Indeno[1,2,3-cd]pyrene	0.045	0.040	EPA 8270	6-27-11	6-27-11	
Dibenz[a,h]anthracene	0.016	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[g,h,i]perylene	0.051	0.040	EPA 8270	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	37	30 - 97				
Phenol-d6	41	40 - 104				
Nitrobenzene-d5	38	35 - 102				
2-Fluorobiphenyl	63	44 - 97				
2,4,6-Tribromophenol	72	41 - 110				
Terphenyl-d14	74	53 - 107				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR10-2.5					
Laboratory ID:	06-187-18					
n-Nitrosodimethylamine	ND	0.040	EPA 8270	6-27-11	6-29-11	
Pyridine	ND	0.40	EPA 8270	6-27-11	6-29-11	
Phenol	ND	0.040	EPA 8270	6-27-11	6-29-11	
Aniline	ND	0.040	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethyl)ether	ND	0.040	EPA 8270	6-27-11	6-29-11	
2-Chlorophenol	ND	0.040	EPA 8270	6-27-11	6-29-11	
1,3-Dichlorobenzene	ND	0.040	EPA 8270	6-27-11	6-29-11	
1,4-Dichlorobenzene	ND	0.040	EPA 8270	6-27-11	6-29-11	
Benzyl alcohol	ND	0.040	EPA 8270	6-27-11	6-29-11	
1,2-Dichlorobenzene	ND	0.040	EPA 8270	6-27-11	6-29-11	
2-Methylphenol (o-Cresol)	ND	0.040	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroisopropyl)ether	ND	0.040	EPA 8270	6-27-11	6-29-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.040	EPA 8270	6-27-11	6-29-11	
n-Nitroso-di-n-propylamine	ND	0.040	EPA 8270	6-27-11	6-29-11	
Hexachloroethane	ND	0.040	EPA 8270	6-27-11	6-29-11	
Nitrobenzene	ND	0.040	EPA 8270	6-27-11	6-29-11	
Isophorone	ND	0.040	EPA 8270	6-27-11	6-29-11	
2-Nitrophenol	ND	0.040	EPA 8270	6-27-11	6-29-11	
2,4-Dimethylphenol	ND	0.40	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethoxy)methane	ND	0.040	EPA 8270	6-27-11	6-29-11	
2,4-Dichlorophenol	ND	0.040	EPA 8270	6-27-11	6-29-11	
1,2,4-Trichlorobenzene	ND	0.040	EPA 8270	6-27-11	6-29-11	
Naphthalene	ND	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
4-Chloroaniline	ND	0.040	EPA 8270	6-27-11	6-29-11	
Hexachlorobutadiene	ND	0.040	EPA 8270	6-27-11	6-29-11	
4-Chloro-3-methylphenol	ND	0.040	EPA 8270	6-27-11	6-29-11	
2-Methylnaphthalene	ND	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
1-Methylnaphthalene	ND	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Hexachlorocyclopentadiene	ND	0.040	EPA 8270	6-27-11	6-29-11	
2,4,6-Trichlorophenol	ND	0.040	EPA 8270	6-27-11	6-29-11	
2,3-Dichloroaniline	ND	0.040	EPA 8270	6-27-11	6-29-11	
2,4,5-Trichlorophenol	ND	0.040	EPA 8270	6-27-11	6-29-11	
2-Chloronaphthalene	ND	0.040	EPA 8270	6-27-11	6-29-11	
2-Nitroaniline	ND	0.040	EPA 8270	6-27-11	6-29-11	
1,4-Dinitrobenzene	ND	0.040	EPA 8270	6-27-11	6-29-11	
Dimethylphthalate	ND	0.040	EPA 8270	6-27-11	6-29-11	
1,3-Dinitrobenzene	ND	0.040	EPA 8270	6-27-11	6-29-11	
2,6-Dinitrotoluene	ND	0.040	EPA 8270	6-27-11	6-29-11	
1,2-Dinitrobenzene	ND	0.040	EPA 8270	6-27-11	6-29-11	
Acenaphthylene	ND	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
3-Nitroaniline	ND	0.040	EPA 8270	6-27-11	6-29-11	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR10-2.5					
Laboratory ID:	06-187-18					
2,4-Dinitrophenol	ND	0.20	EPA 8270	6-27-11	6-29-11	
Acenaphthene	ND	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
4-Nitrophenol	ND	0.040	EPA 8270	6-27-11	6-29-11	
2,4-Dinitrotoluene	ND	0.040	EPA 8270	6-27-11	6-29-11	
Dibenzofuran	ND	0.040	EPA 8270	6-27-11	6-29-11	
2,3,5,6-Tetrachlorophenol	ND	0.040	EPA 8270	6-27-11	6-29-11	
2,3,4,6-Tetrachlorophenol	ND	0.040	EPA 8270	6-27-11	6-29-11	
Diethylphthalate	ND	0.20	EPA 8270	6-27-11	6-29-11	
4-Chlorophenyl-phenylether	ND	0.040	EPA 8270	6-27-11	6-29-11	
4-Nitroaniline	ND	0.040	EPA 8270	6-27-11	6-29-11	
Fluorene	ND	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270	6-27-11	6-29-11	
n-Nitrosodiphenylamine	ND	0.040	EPA 8270	6-27-11	6-29-11	
1,2-Diphenylhydrazine	ND	0.040	EPA 8270	6-27-11	6-29-11	
4-Bromophenyl-phenylether	ND	0.040	EPA 8270	6-27-11	6-29-11	
Hexachlorobenzene	ND	0.040	EPA 8270	6-27-11	6-29-11	
Pentachlorophenol	ND	0.20	EPA 8270	6-27-11	6-29-11	
Phenanthrene	0.049	0.040	EPA 8270	6-27-11	6-29-11	
Anthracene	0.011	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Carbazole	ND	0.040	EPA 8270	6-27-11	6-29-11	
Di-n-butylphthalate	ND	0.40	EPA 8270	6-27-11	6-29-11	
Fluoranthene	0.054	0.040	EPA 8270	6-27-11	6-29-11	
Benzidine	ND	0.40	EPA 8270	6-27-11	6-29-11	
Pyrene	0.063	0.040	EPA 8270	6-27-11	6-29-11	
Butylbenzylphthalate	ND	0.40	EPA 8270	6-27-11	6-29-11	
bis-2-Ethylhexyladipate	ND	0.040	EPA 8270	6-27-11	6-29-11	
3,3'-Dichlorobenzidine	ND	0.40	EPA 8270	6-27-11	6-29-11	
Benzo[a]anthracene	0.029	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Chrysene	0.045	0.040	EPA 8270	6-27-11	6-29-11	
bis(2-Ethylhexyl)phthalate	ND	0.040	EPA 8270	6-27-11	6-29-11	
Di-n-octylphthalate	ND	0.040	EPA 8270	6-27-11	6-29-11	
Benzo[b]fluoranthene	0.028	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Benzo(j,k)fluoranthene	0.022	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[a]pyrene	0.031	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Indeno[1,2,3-cd]pyrene	0.017	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Dibenz[a,h]anthracene	ND	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[g,h,i]perylene	0.025	0.0079	EPA 8270/SIM	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	48	30 - 97				
Phenol-d6	55	40 - 104				
Nitrobenzene-d5	55	35 - 102				
2-Fluorobiphenyl	76	44 - 97				
2,4,6-Tribromophenol	74	41 - 110				
Terphenyl-d14	76	53 - 107				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR5-0.5					
Laboratory ID:	06-187-35					
n-Nitrosodimethylamine	ND	0.055	EPA 8270	6-27-11	6-27-11	
Pyridine	ND	0.55	EPA 8270	6-27-11	6-27-11	
Phenol	ND	0.055	EPA 8270	6-27-11	6-27-11	
Aniline	ND	0.055	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethyl)ether	ND	0.055	EPA 8270	6-27-11	6-27-11	
2-Chlorophenol	ND	0.055	EPA 8270	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	0.055	EPA 8270	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	0.055	EPA 8270	6-27-11	6-27-11	
Benzyl alcohol	ND	0.055	EPA 8270	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	0.055	EPA 8270	6-27-11	6-27-11	
2-Methylphenol (o-Cresol)	ND	0.055	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroisopropyl)ether	ND	0.055	EPA 8270	6-27-11	6-27-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.055	EPA 8270	6-27-11	6-27-11	
n-Nitroso-di-n-propylamine	ND	0.055	EPA 8270	6-27-11	6-27-11	
Hexachloroethane	ND	0.055	EPA 8270	6-27-11	6-27-11	
Nitrobenzene	ND	0.055	EPA 8270	6-27-11	6-27-11	
Isophorone	ND	0.055	EPA 8270	6-27-11	6-27-11	
2-Nitrophenol	ND	0.055	EPA 8270	6-27-11	6-27-11	
2,4-Dimethylphenol	ND	0.55	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethoxy)methane	ND	0.055	EPA 8270	6-27-11	6-27-11	
2,4-Dichlorophenol	ND	0.055	EPA 8270	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.055	EPA 8270	6-27-11	6-27-11	
Naphthalene	ND	0.011	EPA 8270/SIM	6-27-11	6-27-11	
4-Chloroaniline	ND	0.055	EPA 8270	6-27-11	6-27-11	
Hexachlorobutadiene	ND	0.055	EPA 8270	6-27-11	6-27-11	
4-Chloro-3-methylphenol	ND	0.055	EPA 8270	6-27-11	6-27-11	
2-Methylnaphthalene	ND	0.011	EPA 8270/SIM	6-27-11	6-27-11	
1-Methylnaphthalene	ND	0.011	EPA 8270/SIM	6-27-11	6-27-11	
Hexachlorocyclopentadiene	ND	0.055	EPA 8270	6-27-11	6-27-11	
2,4,6-Trichlorophenol	ND	0.055	EPA 8270	6-27-11	6-27-11	
2,3-Dichloroaniline	ND	0.055	EPA 8270	6-27-11	6-27-11	
2,4,5-Trichlorophenol	ND	0.055	EPA 8270	6-27-11	6-27-11	
2-Chloronaphthalene	ND	0.055	EPA 8270	6-27-11	6-27-11	
2-Nitroaniline	ND	0.055	EPA 8270	6-27-11	6-27-11	
1,4-Dinitrobenzene	ND	0.055	EPA 8270	6-27-11	6-27-11	
Dimethylphthalate	ND	0.055	EPA 8270	6-27-11	6-27-11	
1,3-Dinitrobenzene	ND	0.055	EPA 8270	6-27-11	6-27-11	
2,6-Dinitrotoluene	ND	0.055	EPA 8270	6-27-11	6-27-11	
1,2-Dinitrobenzene	ND	0.055	EPA 8270	6-27-11	6-27-11	
Acenaphthylene	ND	0.011	EPA 8270/SIM	6-27-11	6-27-11	
3-Nitroaniline	ND	0.055	EPA 8270	6-27-11	6-27-11	

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 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR5-0.5					
Laboratory ID:	06-187-35					
2,4-Dinitrophenol	ND	0.27	EPA 8270	6-27-11	6-27-11	
Acenaphthene	ND	0.011	EPA 8270/SIM	6-27-11	6-27-11	
4-Nitrophenol	ND	0.055	EPA 8270	6-27-11	6-27-11	
2,4-Dinitrotoluene	ND	0.055	EPA 8270	6-27-11	6-27-11	
Dibenzofuran	ND	0.055	EPA 8270	6-27-11	6-27-11	
2,3,5,6-Tetrachlorophenol	ND	0.055	EPA 8270	6-27-11	6-27-11	
2,3,4,6-Tetrachlorophenol	ND	0.055	EPA 8270	6-27-11	6-27-11	
Diethylphthalate	ND	0.27	EPA 8270	6-27-11	6-27-11	
4-Chlorophenyl-phenylether	ND	0.055	EPA 8270	6-27-11	6-27-11	
4-Nitroaniline	ND	0.055	EPA 8270	6-27-11	6-27-11	
Fluorene	ND	0.011	EPA 8270/SIM	6-27-11	6-27-11	
4,6-Dinitro-2-methylphenol	ND	0.27	EPA 8270	6-27-11	6-27-11	
n-Nitrosodiphenylamine	ND	0.055	EPA 8270	6-27-11	6-27-11	
1,2-Diphenylhydrazine	ND	0.055	EPA 8270	6-27-11	6-27-11	
4-Bromophenyl-phenylether	ND	0.055	EPA 8270	6-27-11	6-27-11	
Hexachlorobenzene	ND	0.055	EPA 8270	6-27-11	6-27-11	
Pentachlorophenol	ND	0.27	EPA 8270	6-27-11	6-27-11	
Phenanthrene	0.011	0.011	EPA 8270/SIM	6-27-11	6-27-11	
Anthracene	ND	0.011	EPA 8270/SIM	6-27-11	6-27-11	
Carbazole	ND	0.055	EPA 8270	6-27-11	6-27-11	
Di-n-butylphthalate	ND	0.55	EPA 8270	6-27-11	6-27-11	
Fluoranthene	0.022	0.011	EPA 8270/SIM	6-27-11	6-27-11	
Benzidine	ND	0.55	EPA 8270	6-27-11	6-27-11	
Pyrene	0.019	0.011	EPA 8270/SIM	6-27-11	6-27-11	
Butylbenzylphthalate	ND	0.55	EPA 8270	6-27-11	6-27-11	
bis-2-Ethylhexyladipate	ND	0.055	EPA 8270	6-27-11	6-27-11	
3,3'-Dichlorobenzidine	ND	0.55	EPA 8270	6-27-11	6-27-11	
Benzo[a]anthracene	ND	0.011	EPA 8270/SIM	6-27-11	6-27-11	
Chrysene	0.016	0.011	EPA 8270/SIM	6-27-11	6-27-11	
bis(2-Ethylhexyl)phthalate	ND	0.055	EPA 8270	6-27-11	6-27-11	
Di-n-octylphthalate	ND	0.055	EPA 8270	6-27-11	6-27-11	
Benzo[b]fluoranthene	0.016	0.011	EPA 8270/SIM	6-27-11	6-27-11	
Benzo(j,k)fluoranthene	0.015	0.011	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[a]pyrene	0.016	0.011	EPA 8270/SIM	6-27-11	6-27-11	
Indeno[1,2,3-cd]pyrene	0.013	0.011	EPA 8270/SIM	6-27-11	6-27-11	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[g,h,i]perylene	0.017	0.011	EPA 8270/SIM	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>41</i>	<i>30 - 97</i>				
<i>Phenol-d6</i>	<i>47</i>	<i>40 - 104</i>				
<i>Nitrobenzene-d5</i>	<i>41</i>	<i>35 - 102</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>44 - 97</i>				
<i>2,4,6-Tribromophenol</i>	<i>87</i>	<i>41 - 110</i>				
<i>Terphenyl-d14</i>	<i>79</i>	<i>53 - 107</i>				

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR6-0.5					
Laboratory ID:	06-187-36					
n-Nitrosodimethylamine	ND	0.21	EPA 8270	6-27-11	6-29-11	
Pyridine	ND	2.1	EPA 8270	6-27-11	6-29-11	
Phenol	ND	0.21	EPA 8270	6-27-11	6-29-11	
Aniline	ND	0.21	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethyl)ether	ND	0.21	EPA 8270	6-27-11	6-29-11	
2-Chlorophenol	ND	0.21	EPA 8270	6-27-11	6-29-11	
1,3-Dichlorobenzene	ND	0.21	EPA 8270	6-27-11	6-29-11	
1,4-Dichlorobenzene	ND	0.21	EPA 8270	6-27-11	6-29-11	
Benzyl alcohol	ND	0.21	EPA 8270	6-27-11	6-29-11	
1,2-Dichlorobenzene	ND	0.21	EPA 8270	6-27-11	6-29-11	
2-Methylphenol (o-Cresol)	ND	0.21	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroisopropyl)ether	ND	0.21	EPA 8270	6-27-11	6-29-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.21	EPA 8270	6-27-11	6-29-11	
n-Nitroso-di-n-propylamine	ND	0.21	EPA 8270	6-27-11	6-29-11	
Hexachloroethane	ND	0.21	EPA 8270	6-27-11	6-29-11	
Nitrobenzene	ND	0.21	EPA 8270	6-27-11	6-29-11	
Isophorone	ND	0.21	EPA 8270	6-27-11	6-29-11	
2-Nitrophenol	ND	0.21	EPA 8270	6-27-11	6-29-11	
2,4-Dimethylphenol	ND	2.1	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethoxy)methane	ND	0.21	EPA 8270	6-27-11	6-29-11	
2,4-Dichlorophenol	ND	0.21	EPA 8270	6-27-11	6-29-11	
1,2,4-Trichlorobenzene	ND	0.21	EPA 8270	6-27-11	6-29-11	
Naphthalene	0.052	0.0082	EPA 8270/SIM	6-27-11	6-27-11	
4-Chloroaniline	ND	0.21	EPA 8270	6-27-11	6-29-11	
Hexachlorobutadiene	ND	0.21	EPA 8270	6-27-11	6-29-11	
4-Chloro-3-methylphenol	ND	0.21	EPA 8270	6-27-11	6-29-11	
2-Methylnaphthalene	0.028	0.0082	EPA 8270/SIM	6-27-11	6-27-11	
1-Methylnaphthalene	0.022	0.0082	EPA 8270/SIM	6-27-11	6-27-11	
Hexachlorocyclopentadiene	ND	0.21	EPA 8270	6-27-11	6-29-11	
2,4,6-Trichlorophenol	ND	0.21	EPA 8270	6-27-11	6-29-11	
2,3-Dichloroaniline	ND	0.21	EPA 8270	6-27-11	6-29-11	
2,4,5-Trichlorophenol	ND	0.21	EPA 8270	6-27-11	6-29-11	
2-Chloronaphthalene	ND	0.21	EPA 8270	6-27-11	6-29-11	
2-Nitroaniline	ND	0.21	EPA 8270	6-27-11	6-29-11	
1,4-Dinitrobenzene	ND	0.21	EPA 8270	6-27-11	6-29-11	
Dimethylphthalate	ND	0.21	EPA 8270	6-27-11	6-29-11	
1,3-Dinitrobenzene	ND	0.21	EPA 8270	6-27-11	6-29-11	
2,6-Dinitrotoluene	ND	0.21	EPA 8270	6-27-11	6-29-11	
1,2-Dinitrobenzene	ND	0.21	EPA 8270	6-27-11	6-29-11	
Acenaphthylene	0.048	0.0082	EPA 8270/SIM	6-27-11	6-27-11	
3-Nitroaniline	ND	0.21	EPA 8270	6-27-11	6-29-11	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR6-0.5					
Laboratory ID:	06-187-36					
2,4-Dinitrophenol	ND	1.0	EPA 8270	6-27-11	6-29-11	
Acenaphthene	0.17	0.0082	EPA 8270/SIM	6-27-11	6-27-11	
4-Nitrophenol	ND	0.21	EPA 8270	6-27-11	6-29-11	
2,4-Dinitrotoluene	ND	0.21	EPA 8270	6-27-11	6-29-11	
Dibenzofuran	ND	0.21	EPA 8270	6-27-11	6-29-11	
2,3,5,6-Tetrachlorophenol	ND	0.21	EPA 8270	6-27-11	6-29-11	
2,3,4,6-Tetrachlorophenol	ND	0.21	EPA 8270	6-27-11	6-29-11	
Diethylphthalate	ND	1.0	EPA 8270	6-27-11	6-29-11	
4-Chlorophenyl-phenylether	ND	0.21	EPA 8270	6-27-11	6-29-11	
4-Nitroaniline	ND	0.21	EPA 8270	6-27-11	6-29-11	
Fluorene	0.17	0.0082	EPA 8270/SIM	6-27-11	6-27-11	
4,6-Dinitro-2-methylphenol	ND	1.0	EPA 8270	6-27-11	6-29-11	
n-Nitrosodiphenylamine	ND	0.21	EPA 8270	6-27-11	6-29-11	
1,2-Diphenylhydrazine	ND	0.21	EPA 8270	6-27-11	6-29-11	
4-Bromophenyl-phenylether	ND	0.21	EPA 8270	6-27-11	6-29-11	
Hexachlorobenzene	ND	0.21	EPA 8270	6-27-11	6-29-11	
Pentachlorophenol	ND	1.0	EPA 8270	6-27-11	6-29-11	
Phenanthrene	2.5	0.21	EPA 8270	6-27-11	6-29-11	
Anthracene	0.40	0.21	EPA 8270	6-27-11	6-29-11	
Carbazole	0.44	0.21	EPA 8270	6-27-11	6-29-11	
Di-n-butylphthalate	ND	2.1	EPA 8270	6-27-11	6-29-11	
Fluoranthene	3.0	0.21	EPA 8270	6-27-11	6-29-11	
Benzidine	ND	2.1	EPA 8270	6-27-11	6-29-11	
Pyrene	2.6	0.21	EPA 8270	6-27-11	6-29-11	
Butylbenzylphthalate	ND	2.1	EPA 8270	6-27-11	6-29-11	
bis-2-Ethylhexyladipate	ND	0.21	EPA 8270	6-27-11	6-29-11	
3,3'-Dichlorobenzidine	ND	2.1	EPA 8270	6-27-11	6-29-11	
Benzo[a]anthracene	0.95	0.21	EPA 8270	6-27-11	6-29-11	
Chrysene	1.3	0.21	EPA 8270	6-27-11	6-29-11	
bis(2-Ethylhexyl)phthalate	ND	0.21	EPA 8270	6-27-11	6-29-11	
Di-n-octylphthalate	ND	0.21	EPA 8270	6-27-11	6-29-11	
Benzo[b]fluoranthene	1.1	0.21	EPA 8270	6-27-11	6-29-11	
Benzo(j,k)fluoranthene	1.2	0.21	EPA 8270	6-27-11	6-29-11	
Benzo[a]pyrene	1.2	0.21	EPA 8270	6-27-11	6-29-11	
Indeno[1,2,3-cd]pyrene	0.79	0.21	EPA 8270	6-27-11	6-29-11	
Dibenz[a,h]anthracene	0.26	0.21	EPA 8270	6-27-11	6-29-11	
Benzo[g,h,i]perylene	0.78	0.21	EPA 8270	6-27-11	6-29-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	55	30 - 97				
Phenol-d6	55	40 - 104				
Nitrobenzene-d5	53	35 - 102				
2-Fluorobiphenyl	84	44 - 97				
2,4,6-Tribromophenol	72	41 - 110				
Terphenyl-d14	80	53 - 107				

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0627S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270	6-27-11	6-27-11	
Pyridine	ND	0.33	EPA 8270	6-27-11	6-27-11	
Phenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
Aniline	ND	0.033	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270	6-27-11	6-27-11	
2-Chlorophenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
Benzyl alcohol	ND	0.033	EPA 8270	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270	6-27-11	6-27-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270	6-27-11	6-27-11	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270	6-27-11	6-27-11	
Hexachloroethane	ND	0.033	EPA 8270	6-27-11	6-27-11	
Nitrobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
Isophorone	ND	0.033	EPA 8270	6-27-11	6-27-11	
2-Nitrophenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,4-Dimethylphenol	ND	0.33	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,4-Dichlorophenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
Naphthalene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
4-Chloroaniline	ND	0.033	EPA 8270	6-27-11	6-27-11	
Hexachlorobutadiene	ND	0.033	EPA 8270	6-27-11	6-27-11	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,3-Dichloroaniline	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
2-Chloronaphthalene	ND	0.033	EPA 8270	6-27-11	6-27-11	
2-Nitroaniline	ND	0.033	EPA 8270	6-27-11	6-27-11	
1,4-Dinitrobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
Dimethylphthalate	ND	0.033	EPA 8270	6-27-11	6-27-11	
1,3-Dinitrobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,6-Dinitrotoluene	ND	0.033	EPA 8270	6-27-11	6-27-11	
1,2-Dinitrobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
3-Nitroaniline	ND	0.033	EPA 8270	6-27-11	6-27-11	

Date of Report: July 14, 2011
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METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0627S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270	6-27-11	6-27-11	
Acenaphthene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
4-Nitrophenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,4-Dinitrotoluene	ND	0.033	EPA 8270	6-27-11	6-27-11	
Dibenzofuran	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
Diethylphthalate	ND	0.17	EPA 8270	6-27-11	6-27-11	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270	6-27-11	6-27-11	
4-Nitroaniline	ND	0.033	EPA 8270	6-27-11	6-27-11	
Fluorene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270	6-27-11	6-27-11	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270	6-27-11	6-27-11	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270	6-27-11	6-27-11	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270	6-27-11	6-27-11	
Hexachlorobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
Pentachlorophenol	ND	0.17	EPA 8270	6-27-11	6-27-11	
Phenanthrene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Anthracene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Carbazole	ND	0.033	EPA 8270	6-27-11	6-27-11	
Di-n-butylphthalate	ND	0.33	EPA 8270	6-27-11	6-27-11	
Fluoranthene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Benzidine	ND	0.33	EPA 8270	6-27-11	6-27-11	
Pyrene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Butylbenzylphthalate	ND	0.33	EPA 8270	6-27-11	6-27-11	
bis-2-Ethylhexyladipate	ND	0.033	EPA 8270	6-27-11	6-27-11	
3,3'-Dichlorobenzidine	ND	0.33	EPA 8270	6-27-11	6-27-11	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Chrysene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
bis(2-Ethylhexyl)phthalate	ND	0.033	EPA 8270	6-27-11	6-27-11	
Di-n-octylphthalate	ND	0.033	EPA 8270	6-27-11	6-27-11	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>51</i>	<i>30 - 97</i>				
<i>Phenol-d6</i>	<i>52</i>	<i>40 - 104</i>				
<i>Nitrobenzene-d5</i>	<i>52</i>	<i>35 - 102</i>				
<i>2-Fluorobiphenyl</i>	<i>64</i>	<i>44 - 97</i>				
<i>2,4,6-Tribromophenol</i>	<i>71</i>	<i>41 - 110</i>				
<i>Terphenyl-d14</i>	<i>75</i>	<i>53 - 107</i>				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

**SEMIVOLATILES by EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
MATRIX SPIKES										
Laboratory ID:	06-187-05									
	MS	MSD	MS	MSD		MS	MSD			
Phenol	0.764	0.825	1.33	1.33	ND	57	62	41 - 106	8	29
2-Chlorophenol	0.962	1.06	1.33	1.33	ND	72	80	43 - 104	10	36
1,4-Dichlorobenzene	0.383	0.443	0.667	0.667	ND	57	66	25 - 94	15	40
n-Nitroso-di-n-propylamine	0.366	0.388	0.667	0.667	ND	55	58	40 - 100	6	34
1,2,4-Trichlorobenzene	0.432	0.476	0.667	0.667	ND	65	71	39 - 86	10	34
4-Chloro-3-methylphenol	1.00	1.02	1.33	1.33	ND	75	77	60 - 102	2	25
Acenaphthene	0.532	0.567	0.667	0.667	ND	80	85	54 - 94	6	23
4-Nitrophenol	1.16	1.17	1.33	1.33	ND	87	88	30 - 133	1	25
2,4-Dinitrotoluene	0.605	0.624	0.667	0.667	ND	91	94	46 - 107	3	26
Pentachlorophenol	1.30	1.33	1.33	1.33	ND	98	100	54 - 111	2	29
Pyrene	0.741	0.800	0.667	0.667	0.296	67	76	54 - 108	8	21
<i>Surrogate:</i>										
2-Fluorophenol						47	51	30 - 97		
Phenol-d6						51	55	40 - 104		
Nitrobenzene-d5						49	51	35 - 102		
2-Fluorobiphenyl						72	73	44 - 97		
2,4,6-Tribromophenol						85	89	41 - 110		
Terphenyl-d14						78	80	53 - 107		

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR15-062011-GW					
Laboratory ID:	06-187-09					
n-Nitrosodimethylamine	ND	0.98	EPA 8270	6-24-11	6-24-11	
Pyridine	ND	0.98	EPA 8270	6-24-11	6-24-11	
Phenol	ND	0.98	EPA 8270	6-24-11	6-24-11	
Aniline	ND	4.9	EPA 8270	6-24-11	6-24-11	
bis(2-Chloroethyl)ether	ND	0.98	EPA 8270	6-24-11	6-24-11	
2-Chlorophenol	ND	0.98	EPA 8270	6-24-11	6-24-11	
1,3-Dichlorobenzene	ND	0.98	EPA 8270	6-24-11	6-24-11	
1,4-Dichlorobenzene	ND	0.98	EPA 8270	6-24-11	6-24-11	
Benzyl alcohol	ND	0.98	EPA 8270	6-24-11	6-24-11	
1,2-Dichlorobenzene	ND	0.98	EPA 8270	6-24-11	6-24-11	
2-Methylphenol (o-Cresol)	ND	0.98	EPA 8270	6-24-11	6-24-11	
bis(2-Chloroisopropyl)ether	ND	0.98	EPA 8270	6-24-11	6-24-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.98	EPA 8270	6-24-11	6-24-11	
n-Nitroso-di-n-propylamine	ND	0.98	EPA 8270	6-24-11	6-24-11	
Hexachloroethane	ND	0.98	EPA 8270	6-24-11	6-24-11	
Nitrobenzene	ND	0.98	EPA 8270	6-24-11	6-24-11	
Isophorone	ND	0.98	EPA 8270	6-24-11	6-24-11	
2-Nitrophenol	ND	0.98	EPA 8270	6-24-11	6-24-11	
2,4-Dimethylphenol	ND	0.98	EPA 8270	6-24-11	6-24-11	
bis(2-Chloroethoxy)methane	ND	0.98	EPA 8270	6-24-11	6-24-11	
2,4-Dichlorophenol	ND	0.98	EPA 8270	6-24-11	6-24-11	
1,2,4-Trichlorobenzene	ND	0.98	EPA 8270	6-24-11	6-24-11	
Naphthalene	ND	0.098	EPA 8270/SIM	6-24-11	6-24-11	
4-Chloroaniline	ND	0.98	EPA 8270	6-24-11	6-24-11	
Hexachlorobutadiene	ND	0.98	EPA 8270	6-24-11	6-24-11	
4-Chloro-3-methylphenol	ND	0.98	EPA 8270	6-24-11	6-24-11	
2-Methylnaphthalene	ND	0.098	EPA 8270/SIM	6-24-11	6-24-11	
1-Methylnaphthalene	ND	0.098	EPA 8270/SIM	6-24-11	6-24-11	
Hexachlorocyclopentadiene	ND	0.98	EPA 8270	6-24-11	6-24-11	
2,4,6-Trichlorophenol	ND	0.98	EPA 8270	6-24-11	6-24-11	
2,3-Dichloroaniline	ND	0.98	EPA 8270	6-24-11	6-24-11	
2,4,5-Trichlorophenol	ND	0.98	EPA 8270	6-24-11	6-24-11	
2-Chloronaphthalene	ND	0.98	EPA 8270	6-24-11	6-24-11	
2-Nitroaniline	ND	0.98	EPA 8270	6-24-11	6-24-11	
1,4-Dinitrobenzene	ND	0.98	EPA 8270	6-24-11	6-24-11	
Dimethylphthalate	ND	0.98	EPA 8270	6-24-11	6-24-11	
1,3-Dinitrobenzene	ND	0.98	EPA 8270	6-24-11	6-24-11	
2,6-Dinitrotoluene	ND	0.98	EPA 8270	6-24-11	6-24-11	
1,2-Dinitrobenzene	ND	0.98	EPA 8270	6-24-11	6-24-11	
Acenaphthylene	ND	0.098	EPA 8270/SIM	6-24-11	6-24-11	
3-Nitroaniline	ND	0.98	EPA 8270	6-24-11	6-24-11	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR15-062011-GW					
Laboratory ID:	06-187-09					
2,4-Dinitrophenol	ND	4.9	EPA 8270	6-24-11	6-24-11	
Acenaphthene	ND	0.098	EPA 8270/SIM	6-24-11	6-24-11	
4-Nitrophenol	ND	0.98	EPA 8270	6-24-11	6-24-11	
2,4-Dinitrotoluene	ND	0.98	EPA 8270	6-24-11	6-24-11	
Dibenzofuran	ND	0.98	EPA 8270	6-24-11	6-24-11	
2,3,5,6-Tetrachlorophenol	ND	0.98	EPA 8270	6-24-11	6-24-11	
2,3,4,6-Tetrachlorophenol	ND	0.98	EPA 8270	6-24-11	6-24-11	
Diethylphthalate	ND	0.98	EPA 8270	6-24-11	6-24-11	
4-Chlorophenyl-phenylether	ND	0.98	EPA 8270	6-24-11	6-24-11	
4-Nitroaniline	ND	0.98	EPA 8270	6-24-11	6-24-11	
Fluorene	ND	0.098	EPA 8270/SIM	6-24-11	6-24-11	
4,6-Dinitro-2-methylphenol	ND	4.9	EPA 8270	6-24-11	6-24-11	
n-Nitrosodiphenylamine	ND	0.98	EPA 8270	6-24-11	6-24-11	
1,2-Diphenylhydrazine	ND	0.98	EPA 8270	6-24-11	6-24-11	
4-Bromophenyl-phenylether	ND	0.98	EPA 8270	6-24-11	6-24-11	
Hexachlorobenzene	ND	0.98	EPA 8270	6-24-11	6-24-11	
Pentachlorophenol	ND	4.9	EPA 8270	6-24-11	6-24-11	
Phenanthrene	ND	0.098	EPA 8270/SIM	6-24-11	6-24-11	
Anthracene	ND	0.098	EPA 8270/SIM	6-24-11	6-24-11	
Carbazole	ND	0.98	EPA 8270	6-24-11	6-24-11	
Di-n-butylphthalate	ND	0.98	EPA 8270	6-24-11	6-24-11	
Fluoranthene	ND	0.098	EPA 8270/SIM	6-24-11	6-24-11	
Benzidine	ND	4.9	EPA 8270	6-24-11	6-24-11	
Pyrene	ND	0.098	EPA 8270/SIM	6-24-11	6-24-11	
Butylbenzylphthalate	ND	0.98	EPA 8270	6-24-11	6-24-11	
bis(2-Ethylhexyl)adipate	ND	0.98	EPA 8270	6-24-11	6-24-11	
3,3'-Dichlorobenzidine	ND	0.98	EPA 8270	6-24-11	6-24-11	
Benzo[a]anthracene	0.010	0.0098	EPA 8270/SIM	6-24-11	6-24-11	
Chrysene	0.044	0.0098	EPA 8270/SIM	6-24-11	6-24-11	
bis(2-Ethylhexyl)phthalate	ND	0.98	EPA 8270	6-24-11	6-24-11	
Di-n-octylphthalate	ND	0.98	EPA 8270	6-24-11	6-24-11	
Benzo[b]fluoranthene	0.031	0.0098	EPA 8270/SIM	6-24-11	6-24-11	
Benzo(j,k)fluoranthene	0.016	0.0098	EPA 8270/SIM	6-24-11	6-24-11	
Benzo[a]pyrene	0.012	0.0098	EPA 8270/SIM	6-24-11	6-24-11	
Indeno[1,2,3-cd]pyrene	0.011	0.0098	EPA 8270/SIM	6-24-11	6-24-11	
Dibenz[a,h]anthracene	ND	0.0098	EPA 8270/SIM	6-24-11	6-24-11	
Benzo[g,h,i]perylene	0.014	0.0098	EPA 8270/SIM	6-24-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	31	18 - 86				
Phenol-d6	30	10 - 88				
Nitrobenzene-d5	48	37 - 112				
2-Fluorobiphenyl	63	42 - 108				
2,4,6-Tribromophenol	81	39 - 118				
Terphenyl-d14	85	49 - 122				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0624W1					
n-Nitrosodimethylamine	ND	0.50	EPA 8270	6-24-11	6-24-11	
Pyridine	ND	0.50	EPA 8270	6-24-11	6-24-11	
Phenol	ND	0.50	EPA 8270	6-24-11	6-24-11	
Aniline	ND	2.5	EPA 8270	6-24-11	6-24-11	
bis(2-Chloroethyl)ether	ND	0.50	EPA 8270	6-24-11	6-24-11	
2-Chlorophenol	ND	0.50	EPA 8270	6-24-11	6-24-11	
1,3-Dichlorobenzene	ND	0.50	EPA 8270	6-24-11	6-24-11	
1,4-Dichlorobenzene	ND	0.50	EPA 8270	6-24-11	6-24-11	
Benzyl alcohol	ND	0.50	EPA 8270	6-24-11	6-24-11	
1,2-Dichlorobenzene	ND	0.50	EPA 8270	6-24-11	6-24-11	
2-Methylphenol (o-Cresol)	ND	0.50	EPA 8270	6-24-11	6-24-11	
bis(2-Chloroisopropyl)ether	ND	0.50	EPA 8270	6-24-11	6-24-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.50	EPA 8270	6-24-11	6-24-11	
n-Nitroso-di-n-propylamine	ND	0.50	EPA 8270	6-24-11	6-24-11	
Hexachloroethane	ND	0.50	EPA 8270	6-24-11	6-24-11	
Nitrobenzene	ND	0.50	EPA 8270	6-24-11	6-24-11	
Isophorone	ND	0.50	EPA 8270	6-24-11	6-24-11	
2-Nitrophenol	ND	0.50	EPA 8270	6-24-11	6-24-11	
2,4-Dimethylphenol	ND	0.50	EPA 8270	6-24-11	6-24-11	
bis(2-Chloroethoxy)methane	ND	0.50	EPA 8270	6-24-11	6-24-11	
2,4-Dichlorophenol	ND	0.50	EPA 8270	6-24-11	6-24-11	
1,2,4-Trichlorobenzene	ND	0.50	EPA 8270	6-24-11	6-24-11	
Naphthalene	ND	0.050	EPA 8270/SIM	6-24-11	6-24-11	
4-Chloroaniline	ND	0.50	EPA 8270	6-24-11	6-24-11	
Hexachlorobutadiene	ND	0.50	EPA 8270	6-24-11	6-24-11	
4-Chloro-3-methylphenol	ND	0.50	EPA 8270	6-24-11	6-24-11	
2-Methylnaphthalene	ND	0.050	EPA 8270/SIM	6-24-11	6-24-11	
1-Methylnaphthalene	ND	0.050	EPA 8270/SIM	6-24-11	6-24-11	
Hexachlorocyclopentadiene	ND	0.50	EPA 8270	6-24-11	6-24-11	
2,4,6-Trichlorophenol	ND	0.50	EPA 8270	6-24-11	6-24-11	
2,3-Dichloroaniline	ND	0.50	EPA 8270	6-24-11	6-24-11	
2,4,5-Trichlorophenol	ND	0.50	EPA 8270	6-24-11	6-24-11	
2-Chloronaphthalene	ND	0.50	EPA 8270	6-24-11	6-24-11	
2-Nitroaniline	ND	0.50	EPA 8270	6-24-11	6-24-11	
1,4-Dinitrobenzene	ND	0.50	EPA 8270	6-24-11	6-24-11	
Dimethylphthalate	ND	0.50	EPA 8270	6-24-11	6-24-11	
1,3-Dinitrobenzene	ND	0.50	EPA 8270	6-24-11	6-24-11	
2,6-Dinitrotoluene	ND	0.50	EPA 8270	6-24-11	6-24-11	
1,2-Dinitrobenzene	ND	0.50	EPA 8270	6-24-11	6-24-11	
Acenaphthylene	ND	0.050	EPA 8270/SIM	6-24-11	6-24-11	
3-Nitroaniline	ND	0.50	EPA 8270	6-24-11	6-24-11	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0624W1					
2,4-Dinitrophenol	ND	2.5	EPA 8270	6-24-11	6-24-11	
Acenaphthene	ND	0.050	EPA 8270/SIM	6-24-11	6-24-11	
4-Nitrophenol	ND	0.50	EPA 8270	6-24-11	6-24-11	
2,4-Dinitrotoluene	ND	0.50	EPA 8270	6-24-11	6-24-11	
Dibenzofuran	ND	0.50	EPA 8270	6-24-11	6-24-11	
2,3,5,6-Tetrachlorophenol	ND	0.50	EPA 8270	6-24-11	6-24-11	
2,3,4,6-Tetrachlorophenol	ND	0.50	EPA 8270	6-24-11	6-24-11	
Diethylphthalate	ND	0.50	EPA 8270	6-24-11	6-24-11	
4-Chlorophenyl-phenylether	ND	0.50	EPA 8270	6-24-11	6-24-11	
4-Nitroaniline	ND	0.50	EPA 8270	6-24-11	6-24-11	
Fluorene	ND	0.050	EPA 8270/SIM	6-24-11	6-24-11	
4,6-Dinitro-2-methylphenol	ND	2.5	EPA 8270	6-24-11	6-24-11	
n-Nitrosodiphenylamine	ND	0.50	EPA 8270	6-24-11	6-24-11	
1,2-Diphenylhydrazine	ND	0.50	EPA 8270	6-24-11	6-24-11	
4-Bromophenyl-phenylether	ND	0.50	EPA 8270	6-24-11	6-24-11	
Hexachlorobenzene	ND	0.50	EPA 8270	6-24-11	6-24-11	
Pentachlorophenol	ND	2.5	EPA 8270	6-24-11	6-24-11	
Phenanthrene	ND	0.050	EPA 8270/SIM	6-24-11	6-24-11	
Anthracene	ND	0.050	EPA 8270/SIM	6-24-11	6-24-11	
Carbazole	ND	0.50	EPA 8270	6-24-11	6-24-11	
Di-n-butylphthalate	ND	0.50	EPA 8270	6-24-11	6-24-11	
Fluoranthene	ND	0.050	EPA 8270/SIM	6-24-11	6-24-11	
Benzidine	ND	2.5	EPA 8270	6-24-11	6-24-11	
Pyrene	ND	0.050	EPA 8270/SIM	6-24-11	6-24-11	
Butylbenzylphthalate	ND	0.50	EPA 8270	6-24-11	6-24-11	
bis-2-Ethylhexyladipate	ND	0.50	EPA 8270	6-24-11	6-24-11	
3,3'-Dichlorobenzidine	ND	0.50	EPA 8270	6-24-11	6-24-11	
Benzo[a]anthracene	ND	0.0050	EPA 8270/SIM	6-24-11	6-24-11	
Chrysene	ND	0.0050	EPA 8270/SIM	6-24-11	6-24-11	
bis(2-Ethylhexyl)phthalate	ND	0.50	EPA 8270	6-24-11	6-24-11	
Di-n-octylphthalate	ND	0.50	EPA 8270	6-24-11	6-24-11	
Benzo[b]fluoranthene	ND	0.0050	EPA 8270/SIM	6-24-11	6-24-11	
Benzo(j,k)fluoranthene	ND	0.0050	EPA 8270/SIM	6-24-11	6-24-11	
Benzo[a]pyrene	ND	0.0050	EPA 8270/SIM	6-24-11	6-24-11	
Indeno[1,2,3-cd]pyrene	ND	0.0050	EPA 8270/SIM	6-24-11	6-24-11	
Dibenz[a,h]anthracene	ND	0.0050	EPA 8270/SIM	6-24-11	6-24-11	
Benzo[g,h,i]perylene	ND	0.0050	EPA 8270/SIM	6-24-11	6-24-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	19	18 - 86				
Phenol-d6	14	10 - 88				
Nitrobenzene-d5	27	37 - 112				Q
2-Fluorobiphenyl	42	42 - 108				
2,4,6-Tribromophenol	50	39 - 118				
Terphenyl-d14	53	49 - 122				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

**SEMIVOLATILES by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limits	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0624W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	14.3	14.5	40.0	40.0	36	36	26 - 60	1	29	
2-Chlorophenol	27.5	27.9	40.0	40.0	69	70	46 - 104	1	34	
1,4-Dichlorobenzene	12.1	12.3	20.0	20.0	61	62	48 - 92	2	29	
n-Nitroso-di-n-propylamine	13.3	12.5	20.0	20.0	67	63	45 - 102	6	25	
1,2,4-Trichlorobenzene	12.0	12.3	20.0	20.0	60	62	47 - 91	2	25	
4-Chloro-3-methylphenol	31.7	36.0	40.0	40.0	79	90	61 - 104	13	18	
Acenaphthene	15.1	16.4	20.0	20.0	76	82	59 - 95	8	15	
4-Nitrophenol	21.6	21.7	40.0	40.0	54	54	21 - 75	0	33	
2,4-Dinitrotoluene	18.3	20.1	20.0	20.0	92	101	66 - 105	9	20	
Pentachlorophenol	34.1	38.0	40.0	40.0	85	95	48 - 119	11	31	
Pyrene	18.5	20.0	20.0	20.0	93	100	62 - 111	8	19	
<i>Surrogate:</i>										
2-Fluorophenol					40	39	18 - 86			
Phenol-d6					31	32	10 - 88			
Nitrobenzene-d5					52	54	37 - 112			
2-Fluorobiphenyl					70	71	42 - 108			
2,4,6-Tribromophenol					77	83	39 - 118			
Terphenyl-d14					86	91	49 - 122			

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR15-2.5					
Laboratory ID:	06-187-05					
Aroclor 1016	ND	0.058	EPA 8082	6-29-11	6-29-11	
Aroclor 1221	ND	0.058	EPA 8082	6-29-11	6-29-11	
Aroclor 1232	ND	0.058	EPA 8082	6-29-11	6-29-11	
Aroclor 1242	ND	0.058	EPA 8082	6-29-11	6-29-11	
Aroclor 1248	ND	0.058	EPA 8082	6-29-11	6-29-11	
Aroclor 1254	ND	0.058	EPA 8082	6-29-11	6-29-11	
Aroclor 1260	ND	0.058	EPA 8082	6-29-11	6-29-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>91</i>	<i>42-123</i>				
Client ID:	FAR21-2.5					
Laboratory ID:	06-187-10					
Aroclor 1016	ND	0.059	EPA 8082	6-29-11	6-29-11	
Aroclor 1221	ND	0.059	EPA 8082	6-29-11	6-29-11	
Aroclor 1232	ND	0.059	EPA 8082	6-29-11	6-29-11	
Aroclor 1242	ND	0.059	EPA 8082	6-29-11	6-29-11	
Aroclor 1248	ND	0.059	EPA 8082	6-29-11	6-29-11	
Aroclor 1254	ND	0.059	EPA 8082	6-29-11	6-29-11	
Aroclor 1260	0.18	0.059	EPA 8082	6-29-11	6-29-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>80</i>	<i>42-123</i>				
Client ID:	FAR20-2.5					
Laboratory ID:	06-187-14					
Aroclor 1016	ND	0.060	EPA 8082	6-29-11	6-30-11	X
Aroclor 1221	ND	0.060	EPA 8082	6-29-11	6-30-11	X
Aroclor 1232	ND	0.060	EPA 8082	6-29-11	6-30-11	X
Aroclor 1242	ND	0.060	EPA 8082	6-29-11	6-30-11	X
Aroclor 1248	ND	0.060	EPA 8082	6-29-11	6-30-11	X
Aroclor 1254	ND	0.060	EPA 8082	6-29-11	6-30-11	X
Aroclor 1260	0.19	0.060	EPA 8082	6-29-11	6-30-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>87</i>	<i>42-123</i>				

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 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR10-2.5					
Laboratory ID:	06-187-18					
Aroclor 1016	ND	0.060	EPA 8082	6-29-11	6-29-11	
Aroclor 1221	ND	0.060	EPA 8082	6-29-11	6-29-11	
Aroclor 1232	ND	0.060	EPA 8082	6-29-11	6-29-11	
Aroclor 1242	ND	0.060	EPA 8082	6-29-11	6-29-11	
Aroclor 1248	ND	0.060	EPA 8082	6-29-11	6-29-11	
Aroclor 1254	ND	0.060	EPA 8082	6-29-11	6-29-11	
Aroclor 1260	0.16	0.060	EPA 8082	6-29-11	6-29-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	92	42-123				
Client ID:	FAR7-2.5					
Laboratory ID:	06-187-26					
Aroclor 1016	ND	0.052	EPA 8082	6-29-11	6-29-11	
Aroclor 1221	ND	0.052	EPA 8082	6-29-11	6-29-11	
Aroclor 1232	ND	0.052	EPA 8082	6-29-11	6-29-11	
Aroclor 1242	ND	0.052	EPA 8082	6-29-11	6-29-11	
Aroclor 1248	ND	0.052	EPA 8082	6-29-11	6-29-11	
Aroclor 1254	ND	0.052	EPA 8082	6-29-11	6-29-11	
Aroclor 1260	0.26	0.052	EPA 8082	6-29-11	6-29-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	97	42-123				
Client ID:	FAR5-0.5					
Laboratory ID:	06-187-35					
Aroclor 1016	ND	0.082	EPA 8082	6-29-11	6-29-11	
Aroclor 1221	ND	0.082	EPA 8082	6-29-11	6-29-11	
Aroclor 1232	ND	0.082	EPA 8082	6-29-11	6-29-11	
Aroclor 1242	ND	0.082	EPA 8082	6-29-11	6-29-11	
Aroclor 1248	ND	0.082	EPA 8082	6-29-11	6-29-11	
Aroclor 1254	ND	0.082	EPA 8082	6-29-11	6-29-11	
Aroclor 1260	ND	0.082	EPA 8082	6-29-11	6-29-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	61	42-123				

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 Project: 1005-001

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR6-0.5					
Laboratory ID:	06-187-36					
Aroclor 1016	ND	0.062	EPA 8082	6-29-11	6-29-11	
Aroclor 1221	ND	0.062	EPA 8082	6-29-11	6-29-11	
Aroclor 1232	ND	0.062	EPA 8082	6-29-11	6-29-11	
Aroclor 1242	ND	0.062	EPA 8082	6-29-11	6-29-11	
Aroclor 1248	ND	0.062	EPA 8082	6-29-11	6-29-11	
Aroclor 1254	ND	0.062	EPA 8082	6-29-11	6-29-11	
Aroclor 1260	0.21	0.062	EPA 8082	6-29-11	6-29-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>93</i>	<i>42-123</i>				

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 Project: 1005-001

**PCBs by EPA 8082
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0629S1					
Aroclor 1016	ND	0.050	EPA 8082	6-29-11	6-29-11	
Aroclor 1221	ND	0.050	EPA 8082	6-29-11	6-29-11	
Aroclor 1232	ND	0.050	EPA 8082	6-29-11	6-29-11	
Aroclor 1242	ND	0.050	EPA 8082	6-29-11	6-29-11	
Aroclor 1248	ND	0.050	EPA 8082	6-29-11	6-29-11	
Aroclor 1254	ND	0.050	EPA 8082	6-29-11	6-29-11	
Aroclor 1260	ND	0.050	EPA 8082	6-29-11	6-29-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	92	42-123				

Laboratory ID:	MB0629S1					
Aroclor 1016	ND	0.050	EPA 8082	6-29-11	6-30-11	X
Aroclor 1221	ND	0.050	EPA 8082	6-29-11	6-30-11	X
Aroclor 1232	ND	0.050	EPA 8082	6-29-11	6-30-11	X
Aroclor 1242	ND	0.050	EPA 8082	6-29-11	6-30-11	X
Aroclor 1248	ND	0.050	EPA 8082	6-29-11	6-30-11	X
Aroclor 1254	ND	0.050	EPA 8082	6-29-11	6-30-11	X
Aroclor 1260	ND	0.050	EPA 8082	6-29-11	6-30-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	100	42-123				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0629S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.425	0.417	0.500	0.500	N/A	85	83	59-120	2	15	
<i>Surrogate:</i>											
DCB						96	97	42-123			

Date of Report: July 14, 2011
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 Project: 1005-001

**ORGANOCHLORINE
 PESTICIDES by EPA 8081A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR15-2.5					
Laboratory ID:	06-187-05					
alpha-BHC	ND	5.8	EPA 8081	6-28-11	6-28-11	
gamma-BHC	ND	5.8	EPA 8081	6-28-11	6-28-11	
beta-BHC	ND	5.8	EPA 8081	6-28-11	6-28-11	
delta-BHC	ND	5.8	EPA 8081	6-28-11	6-28-11	
Heptachlor	ND	5.8	EPA 8081	6-28-11	6-28-11	
Aldrin	ND	5.8	EPA 8081	6-28-11	6-28-11	
Heptachlor Epoxide	ND	5.8	EPA 8081	6-28-11	6-28-11	
gamma-Chlordane	ND	12	EPA 8081	6-28-11	6-28-11	
alpha-Chlordane	ND	12	EPA 8081	6-28-11	6-28-11	
4,4'-DDE	ND	12	EPA 8081	6-28-11	6-28-11	
Endosulfan I	ND	5.8	EPA 8081	6-28-11	6-28-11	
Dieldrin	ND	12	EPA 8081	6-28-11	6-28-11	
Endrin	ND	12	EPA 8081	6-28-11	6-28-11	
4,4'-DDD	ND	12	EPA 8081	6-28-11	6-28-11	
Endosulfan II	ND	12	EPA 8081	6-28-11	6-28-11	
4,4'-DDT	ND	12	EPA 8081	6-28-11	6-28-11	
Endrin Aldehyde	ND	12	EPA 8081	6-28-11	6-28-11	
Methoxychlor	ND	12	EPA 8081	6-28-11	6-28-11	
Endosulfan Sulfate	ND	12	EPA 8081	6-28-11	6-28-11	
Endrin Ketone	ND	12	EPA 8081	6-28-11	6-28-11	
Toxaphene	ND	58	EPA 8081	6-28-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>TCMX</i>	<i>77</i>	<i>30-111</i>				
<i>DCB</i>	<i>84</i>	<i>33-119</i>				

Date of Report: July 14, 2011
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 Project: 1005-001

**ORGANOCHLORINE
 PESTICIDES by EPA 8081A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR21-2.5					
Laboratory ID:	06-187-10					
alpha-BHC	ND	5.9	EPA 8081	6-28-11	6-30-11	X
gamma-BHC	ND	5.9	EPA 8081	6-28-11	6-30-11	X
beta-BHC	ND	5.9	EPA 8081	6-28-11	6-30-11	X
delta-BHC	ND	5.9	EPA 8081	6-28-11	6-30-11	X
Heptachlor	ND	5.9	EPA 8081	6-28-11	6-30-11	X
Aldrin	ND	5.9	EPA 8081	6-28-11	6-30-11	X
Heptachlor Epoxide	ND	5.9	EPA 8081	6-28-11	6-30-11	X
gamma-Chlordane	ND	12	EPA 8081	6-28-11	6-30-11	X
alpha-Chlordane	ND	12	EPA 8081	6-28-11	6-30-11	X
4,4'-DDE	12	12	EPA 8081	6-28-11	6-30-11	X
Endosulfan I	ND	5.9	EPA 8081	6-28-11	6-30-11	X
Dieldrin	14	12	EPA 8081	6-28-11	6-30-11	X, P
Endrin	ND	12	EPA 8081	6-28-11	6-30-11	X
4,4'-DDD	ND	12	EPA 8081	6-28-11	6-30-11	X
Endosulfan II	ND	12	EPA 8081	6-28-11	6-30-11	X
4,4'-DDT	33	12	EPA 8081	6-28-11	6-30-11	X
Endrin Aldehyde	ND	12	EPA 8081	6-28-11	6-30-11	X
Methoxychlor	ND	12	EPA 8081	6-28-11	6-30-11	X
Endosulfan Sulfate	ND	12	EPA 8081	6-28-11	6-30-11	X
Endrin Ketone	ND	12	EPA 8081	6-28-11	6-30-11	X
Toxaphene	ND	59	EPA 8081	6-28-11	6-30-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	75	30-111				
DCB	80	33-119				

Date of Report: July 14, 2011
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 Project: 1005-001

**ORGANOCHLORINE
 PESTICIDES by EPA 8081A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR20-2.5					
Laboratory ID:	06-187-14					
alpha-BHC	ND	6.0	EPA 8081	6-28-11	6-30-11	X
gamma-BHC	ND	6.0	EPA 8081	6-28-11	6-30-11	X
beta-BHC	ND	6.0	EPA 8081	6-28-11	6-30-11	X
delta-BHC	ND	6.0	EPA 8081	6-28-11	6-30-11	X
Heptachlor	ND	6.0	EPA 8081	6-28-11	6-30-11	X
Aldrin	ND	6.0	EPA 8081	6-28-11	6-30-11	X
Heptachlor Epoxide	ND	6.0	EPA 8081	6-28-11	6-30-11	X
gamma-Chlordane	ND	12	EPA 8081	6-28-11	6-30-11	X
alpha-Chlordane	ND	12	EPA 8081	6-28-11	6-30-11	X
4,4'-DDE	ND	12	EPA 8081	6-28-11	6-30-11	X
Endosulfan I	ND	6.0	EPA 8081	6-28-11	6-30-11	X
Dieldrin	ND	12	EPA 8081	6-28-11	6-30-11	X
Endrin	ND	12	EPA 8081	6-28-11	6-30-11	X
4,4'-DDD	ND	12	EPA 8081	6-28-11	6-30-11	X
Endosulfan II	ND	12	EPA 8081	6-28-11	6-30-11	X
4,4'-DDT	16	12	EPA 8081	6-28-11	6-30-11	X, P
Endrin Aldehyde	ND	12	EPA 8081	6-28-11	6-30-11	X
Methoxychlor	ND	12	EPA 8081	6-28-11	6-30-11	X
Endosulfan Sulfate	ND	12	EPA 8081	6-28-11	6-30-11	X
Endrin Ketone	ND	12	EPA 8081	6-28-11	6-30-11	X
Toxaphene	ND	60	EPA 8081	6-28-11	6-30-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	78	30-111				
DCB	85	33-119				

Date of Report: July 14, 2011
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**ORGANOCHLORINE
 PESTICIDES by EPA 8081A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR10-2.5					
Laboratory ID:	06-187-18					
alpha-BHC	ND	6.0	EPA 8081	6-28-11	6-30-11	X
gamma-BHC	ND	6.0	EPA 8081	6-28-11	6-30-11	X
beta-BHC	ND	6.0	EPA 8081	6-28-11	6-30-11	X
delta-BHC	ND	6.0	EPA 8081	6-28-11	6-30-11	X
Heptachlor	ND	6.0	EPA 8081	6-28-11	6-30-11	X
Aldrin	ND	6.0	EPA 8081	6-28-11	6-30-11	X
Heptachlor Epoxide	ND	6.0	EPA 8081	6-28-11	6-30-11	X
gamma-Chlordane	ND	12	EPA 8081	6-28-11	6-30-11	X
alpha-Chlordane	ND	12	EPA 8081	6-28-11	6-30-11	X
4,4'-DDE	ND	12	EPA 8081	6-28-11	6-30-11	X
Endosulfan I	ND	6.0	EPA 8081	6-28-11	6-30-11	X
Dieldrin	ND	12	EPA 8081	6-28-11	6-30-11	X
Endrin	ND	12	EPA 8081	6-28-11	6-30-11	X
4,4'-DDD	ND	12	EPA 8081	6-28-11	6-30-11	X
Endosulfan II	ND	12	EPA 8081	6-28-11	6-30-11	X
4,4'-DDT	ND	12	EPA 8081	6-28-11	6-30-11	X
Endrin Aldehyde	ND	12	EPA 8081	6-28-11	6-30-11	X
Methoxychlor	ND	12	EPA 8081	6-28-11	6-30-11	X
Endosulfan Sulfate	ND	12	EPA 8081	6-28-11	6-30-11	X
Endrin Ketone	ND	12	EPA 8081	6-28-11	6-30-11	X
Toxaphene	ND	60	EPA 8081	6-28-11	6-30-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	72	30-111				
DCB	79	33-119				

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**ORGANOCHLORINE
 PESTICIDES by EPA 8081A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR7-2.5					
Laboratory ID:	06-187-26					
alpha-BHC	ND	5.2	EPA 8081	6-28-11	6-30-11	X
gamma-BHC	ND	5.2	EPA 8081	6-28-11	6-30-11	X
beta-BHC	ND	5.2	EPA 8081	6-28-11	6-30-11	X
delta-BHC	ND	5.2	EPA 8081	6-28-11	6-30-11	X
Heptachlor	ND	5.2	EPA 8081	6-28-11	6-30-11	X
Aldrin	ND	5.2	EPA 8081	6-28-11	6-30-11	X
Heptachlor Epoxide	ND	5.2	EPA 8081	6-28-11	6-30-11	X
gamma-Chlordane	ND	10	EPA 8081	6-28-11	6-30-11	X
alpha-Chlordane	ND	10	EPA 8081	6-28-11	6-30-11	X
4,4'-DDE	ND	10	EPA 8081	6-28-11	6-30-11	X
Endosulfan I	ND	5.2	EPA 8081	6-28-11	6-30-11	X
Dieldrin	ND	10	EPA 8081	6-28-11	6-30-11	X
Endrin	ND	10	EPA 8081	6-28-11	6-30-11	X
4,4'-DDD	ND	10	EPA 8081	6-28-11	6-30-11	X
Endosulfan II	ND	10	EPA 8081	6-28-11	6-30-11	X
4,4'-DDT	ND	10	EPA 8081	6-28-11	6-30-11	X
Endrin Aldehyde	ND	10	EPA 8081	6-28-11	6-30-11	X
Methoxychlor	ND	10	EPA 8081	6-28-11	6-30-11	X
Endosulfan Sulfate	ND	10	EPA 8081	6-28-11	6-30-11	X
Endrin Ketone	ND	10	EPA 8081	6-28-11	6-30-11	X
Toxaphene	ND	52	EPA 8081	6-28-11	6-30-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>TCMX</i>	<i>70</i>	<i>30-111</i>				
<i>DCB</i>	<i>77</i>	<i>33-119</i>				

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**ORGANOCHLORINE
 PESTICIDES by EPA 8081A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR5-0.5					
Laboratory ID:	06-187-35					
alpha-BHC	ND	8.2	EPA 8081	6-28-11	6-30-11	X
gamma-BHC	ND	8.2	EPA 8081	6-28-11	6-30-11	X
beta-BHC	11	8.2	EPA 8081	6-28-11	6-30-11	X, P
delta-BHC	ND	8.2	EPA 8081	6-28-11	6-30-11	X
Heptachlor	ND	8.2	EPA 8081	6-28-11	6-30-11	X
Aldrin	ND	8.2	EPA 8081	6-28-11	6-30-11	X
Heptachlor Epoxide	ND	8.2	EPA 8081	6-28-11	6-30-11	X
gamma-Chlordane	ND	16	EPA 8081	6-28-11	6-30-11	X
alpha-Chlordane	ND	16	EPA 8081	6-28-11	6-30-11	X
4,4'-DDE	ND	16	EPA 8081	6-28-11	6-30-11	X
Endosulfan I	ND	8.2	EPA 8081	6-28-11	6-30-11	X
Dieldrin	ND	16	EPA 8081	6-28-11	6-30-11	X
Endrin	ND	16	EPA 8081	6-28-11	6-30-11	X
4,4'-DDD	ND	16	EPA 8081	6-28-11	6-30-11	X
Endosulfan II	ND	16	EPA 8081	6-28-11	6-30-11	X
4,4'-DDT	ND	16	EPA 8081	6-28-11	6-30-11	X
Endrin Aldehyde	ND	16	EPA 8081	6-28-11	6-30-11	X
Methoxychlor	ND	16	EPA 8081	6-28-11	6-30-11	X
Endosulfan Sulfate	ND	16	EPA 8081	6-28-11	6-30-11	X
Endrin Ketone	ND	16	EPA 8081	6-28-11	6-30-11	X
Toxaphene	ND	82	EPA 8081	6-28-11	6-30-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	69	30-111				
DCB	61	33-119				

Date of Report: July 14, 2011
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**ORGANOCHLORINE
 PESTICIDES by EPA 8081A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR6-0.5					
Laboratory ID:	06-187-36					
alpha-BHC	ND	6.2	EPA 8081	6-28-11	6-30-11	X
gamma-BHC	ND	6.2	EPA 8081	6-28-11	6-30-11	X
beta-BHC	ND	6.2	EPA 8081	6-28-11	6-30-11	X
delta-BHC	ND	6.2	EPA 8081	6-28-11	6-30-11	X
Heptachlor	ND	6.2	EPA 8081	6-28-11	6-30-11	X
Aldrin	ND	6.2	EPA 8081	6-28-11	6-30-11	X
Heptachlor Epoxide	ND	6.2	EPA 8081	6-28-11	6-30-11	X
gamma-Chlordane	ND	12	EPA 8081	6-28-11	6-30-11	X
alpha-Chlordane	ND	12	EPA 8081	6-28-11	6-30-11	X
4,4'-DDE	ND	12	EPA 8081	6-28-11	6-30-11	X
Endosulfan I	ND	6.2	EPA 8081	6-28-11	6-30-11	X
Dieldrin	ND	12	EPA 8081	6-28-11	6-30-11	X
Endrin	ND	12	EPA 8081	6-28-11	6-30-11	X
4,4'-DDD	ND	12	EPA 8081	6-28-11	6-30-11	X
Endosulfan II	ND	12	EPA 8081	6-28-11	6-30-11	X
4,4'-DDT	12	12	EPA 8081	6-28-11	6-30-11	X, P
Endrin Aldehyde	ND	12	EPA 8081	6-28-11	6-30-11	X
Methoxychlor	ND	12	EPA 8081	6-28-11	6-30-11	X
Endosulfan Sulfate	ND	12	EPA 8081	6-28-11	6-30-11	X
Endrin Ketone	ND	12	EPA 8081	6-28-11	6-30-11	X
Toxaphene	ND	62	EPA 8081	6-28-11	6-30-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	65	30-111				
DCB	74	33-119				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
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 Project: 1005-001

**ORGANOCHLORINE
 PESTICIDES by EPA 8081A
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0628S1					
alpha-BHC	ND	5.0	EPA 8081	6-28-11	6-30-11	X
gamma-BHC	ND	5.0	EPA 8081	6-28-11	6-30-11	X
beta-BHC	ND	5.0	EPA 8081	6-28-11	6-30-11	X
delta-BHC	ND	5.0	EPA 8081	6-28-11	6-30-11	X
Heptachlor	ND	5.0	EPA 8081	6-28-11	6-30-11	X
Aldrin	ND	5.0	EPA 8081	6-28-11	6-30-11	X
Heptachlor Epoxide	ND	5.0	EPA 8081	6-28-11	6-30-11	X
gamma-Chlordane	ND	10	EPA 8081	6-28-11	6-30-11	X
alpha-Chlordane	ND	10	EPA 8081	6-28-11	6-30-11	X
4,4'-DDE	ND	10	EPA 8081	6-28-11	6-30-11	X
Endosulfan I	ND	5.0	EPA 8081	6-28-11	6-30-11	X
Dieldrin	ND	10	EPA 8081	6-28-11	6-30-11	X
Endrin	ND	10	EPA 8081	6-28-11	6-30-11	X
4,4'-DDD	ND	10	EPA 8081	6-28-11	6-30-11	X
Endosulfan II	ND	10	EPA 8081	6-28-11	6-30-11	X
4,4'-DDT	ND	10	EPA 8081	6-28-11	6-30-11	X
Endrin Aldehyde	ND	10	EPA 8081	6-28-11	6-30-11	X
Methoxychlor	ND	10	EPA 8081	6-28-11	6-30-11	X
Endosulfan Sulfate	ND	10	EPA 8081	6-28-11	6-30-11	X
Endrin Ketone	ND	10	EPA 8081	6-28-11	6-30-11	X
Toxaphene	ND	50	EPA 8081	6-28-11	6-30-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>TCMX</i>	<i>79</i>	<i>30-111</i>				
<i>DCB</i>	<i>84</i>	<i>33-119</i>				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

**ORGANOCHLORINE
 PESTICIDES by EPA 8081A
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
					Result	Recovery	Recovery	Limits		Limit	
MATRIX SPIKES											
Laboratory ID:	06-167-04										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	36.6	36.3	50.0	50.0	ND	73	73	32-96	1	10	
Heptachlor	39.8	40.3	50.0	50.0	ND	80	81	29-101	1	13	
Aldrin	41.2	41.4	50.0	50.0	ND	82	83	27-99	0	10	
Dieldrin	96.3	91.5	125	125	ND	77	73	33-92	5	10	
Endrin	97.4	92.1	125	125	ND	78	74	29-101	6	11	
4,4'-DDT	89.8	83.8	125	125	ND	72	67	21-114	7	15	
Surrogate:											
TCMX						72	74	30-111			
DCB						70	63	33-119			

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
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 Project: 1005-001

**TOTAL METALS
 EPA 6010B/7471A**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID:	06-187-05					
Client ID:	FAR15-2.5					
Arsenic	ND	12	6010B	6-24-11	6-27-11	
Cadmium	ND	0.58	6010B	6-24-11	6-27-11	
Chromium	37	0.58	6010B	6-24-11	6-27-11	
Lead	8.6	5.8	6010B	6-24-11	6-27-11	
Mercury	ND	0.29	7471A	6-28-11	6-28-11	

Lab ID:	06-187-10					
Client ID:	FAR21-2.5					
Arsenic	ND	12	6010B	6-24-11	6-27-11	
Cadmium	ND	0.59	6010B	6-24-11	6-27-11	
Chromium	37	0.59	6010B	6-24-11	6-27-11	
Lead	180	5.9	6010B	6-24-11	6-27-11	
Mercury	ND	0.30	7471A	6-28-11	6-28-11	

Lab ID:	06-187-14					
Client ID:	FAR20-2.5					
Arsenic	ND	12	6010B	6-24-11	6-27-11	
Cadmium	ND	0.60	6010B	6-24-11	6-27-11	
Chromium	64	0.60	6010B	6-24-11	6-27-11	
Lead	160	6.0	6010B	6-24-11	6-27-11	
Mercury	ND	0.30	7471A	6-28-11	6-28-11	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

TOTAL METALS
EPA 6010B/7471A

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID:	06-187-18					
Client ID:	FAR10-2.5					
Arsenic	ND	12	6010B	6-24-11	6-27-11	
Cadmium	ND	0.60	6010B	6-24-11	6-27-11	
Chromium	45	0.60	6010B	6-24-11	6-27-11	
Lead	260	6.0	6010B	6-24-11	6-27-11	
Mercury	ND	0.30	7471A	6-28-11	6-28-11	

Lab ID:	06-187-22					
Client ID:	FAR9-2.5					
Arsenic	ND	12	6010B	6-24-11	6-27-11	
Cadmium	ND	0.58	6010B	6-24-11	6-27-11	
Chromium	52	0.58	6010B	6-24-11	6-27-11	
Lead	460	5.8	6010B	6-24-11	6-27-11	
Mercury	ND	0.29	7471A	6-28-11	6-28-11	

Lab ID:	06-187-26					
Client ID:	FAR7-2.5					
Arsenic	ND	10	6010B	6-24-11	6-27-11	
Cadmium	ND	0.52	6010B	6-24-11	6-27-11	
Chromium	28	0.52	6010B	6-24-11	6-27-11	
Lead	27	5.2	6010B	6-24-11	6-27-11	
Mercury	ND	0.26	7471A	6-28-11	6-28-11	

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 Project: 1005-001

**TOTAL METALS
 EPA 6010B/7471A**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID:	06-187-30					
Client ID:	FAR13-2.5					
Arsenic	ND	11	6010B	6-24-11	6-27-11	
Cadmium	ND	0.55	6010B	6-24-11	6-27-11	
Chromium	32	0.55	6010B	6-24-11	6-27-11	
Lead	8.2	5.5	6010B	6-24-11	6-27-11	
Mercury	ND	0.27	7471A	6-28-11	6-28-11	

Lab ID:	06-187-35					
Client ID:	FAR5-0.5					
Arsenic	ND	16	6010B	6-24-11	6-27-11	
Cadmium	ND	0.82	6010B	6-24-11	6-27-11	
Chromium	27	0.82	6010B	6-24-11	6-27-11	
Lead	9.9	8.2	6010B	6-24-11	6-27-11	
Mercury	ND	0.41	7471A	6-28-11	6-28-11	

Lab ID:	06-187-36					
Client ID:	FAR6-0.5					
Arsenic	ND	12	6010B	6-24-11	6-27-11	
Cadmium	ND	0.62	6010B	6-24-11	6-27-11	
Chromium	44	0.62	6010B	6-24-11	6-27-11	
Lead	140	6.2	6010B	6-24-11	6-27-11	
Mercury	ND	0.31	7471A	6-28-11	6-28-11	

Date of Report: July 14, 2011
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Project: 1005-001

**TOTAL METALS
EPA 6010B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 6-24-11
Date Analyzed: 6-27-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0624S3

Analyte	Method	Result	PQL
Arsenic	6010B	ND	10
Cadmium	6010B	ND	0.50
Chromium	6010B	ND	0.50
Lead	6010B	ND	5.0

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Samples Submitted: June 22, 2011
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Project: 1005-001

**TOTAL MERCURY
EPA 7471A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 6-28-11
Date Analyzed: 6-28-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0628S1

Analyte	Method	Result	PQL
Mercury	7471A	ND	0.25

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 Project: 1005-001

**TOTAL METALS
 EPA 6010B
 DUPLICATE QUALITY CONTROL**

Date Extracted: 6-24-11

Date Analyzed: 6-27-11

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-163-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Cadmium	ND	ND	NA	0.50	
Chromium	26.7	29.3	9	0.50	
Lead	16.4	23.4	35	5.0	C

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Project: 1005-001

**TOTAL MERCURY
EPA 7471A
DUPLICATE QUALITY CONTROL**

Date Extracted: 6-28-11

Date Analyzed: 6-28-11

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-187-26

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	

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**TOTAL METALS
 EPA 6010B
 MS/MSD QUALITY CONTROL**

Date Extracted: 6-24-11

Date Analyzed: 6-27-11

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-163-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	91.0	91	90.7	91	0	
Cadmium	50	45.1	90	45.4	91	1	
Chromium	100	114	88	116	89	1	
Lead	250	233	87	235	88	1	

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Project: 1005-001

**TOTAL MERCURY
EPA 7471A
MS/MSD QUALITY CONTROL**

Date Extracted: 6-28-11

Date Analyzed: 6-28-11

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-187-26

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.485	97	0.509	102	5	

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NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR15-2.5					
Laboratory ID:	06-187-05					
Gasoline	ND	12	NWTPH-Gx	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	119	68-124				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
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 Project: 1005-001

**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701S2					
Gasoline	ND	5.0	NWTPH-Gx	7-1-11	7-1-11	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	104	68-124				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-262-04							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				110	111	68-124		

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NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR15-2.5					
Laboratory ID:	06-187-05					
Diesel Range Organics	ND	29	NWTPH-Dx	6-30-11	6-30-11	
Lube Oil Range Organics	ND	58	NWTPH-Dx	6-30-11	6-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				
Client ID:	FAR21-6.0					
Laboratory ID:	06-187-11					
Diesel Range Organics	ND	37	NWTPH-Dx	6-30-11	6-30-11	U1
Lube Oil	340	62	NWTPH-Dx	6-30-11	6-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	110	50-150				
Client ID:	FAR20-5.0					
Laboratory ID:	06-187-15					
Diesel Range Organics	ND	52	NWTPH-Dx	6-30-11	6-30-11	U1
Lube Oil	310	63	NWTPH-Dx	6-30-11	6-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	107	50-150				
Client ID:	FAR10-6.0					
Laboratory ID:	06-187-19					
Diesel Range Organics	ND	33	NWTPH-Dx	6-30-11	6-30-11	
Lube Oil Range Organics	ND	65	NWTPH-Dx	6-30-11	6-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	102	50-150				
Client ID:	FAR9-6.0					
Laboratory ID:	06-187-23					
Diesel Range Organics	ND	45	NWTPH-Dx	6-30-11	6-30-11	U1
Lube Oil	220	68	NWTPH-Dx	6-30-11	6-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	106	50-150				
Client ID:	FAR7-6.0					
Laboratory ID:	06-187-27					
Diesel Range Organics	31	27	NWTPH-Dx	6-30-11	6-30-11	
Lube Oil Range Organics	150	53	NWTPH-Dx	6-30-11	6-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	115	50-150				
Client ID:	FAR13-6.0					
Laboratory ID:	06-187-31					
Diesel Range Organics	ND	34	NWTPH-Dx	6-30-11	6-30-11	
Lube Oil Range Organics	ND	68	NWTPH-Dx	6-30-11	6-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				

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**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0630S1					
Diesel Range Organics	ND	25	NWTPH-Dx	6-30-11	6-30-11	
Lube Oil Range Organics	ND	50	NWTPH-Dx	6-30-11	6-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>104</i>	<i>50-150</i>				

Analyte	Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE						
Laboratory ID:	06-187-27					
	ORIG	DUP				
Diesel Range Organics	29.2	ND		NA	NA	
Lube Oil Range Organics	142	108		27	NA	
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			115 116	50-150		

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR9-2.5					
Laboratory ID:	06-187-22					
n-Nitrosodimethylamine	ND	0.039	EPA 8270	6-30-11	6-30-11	
Pyridine	ND	0.39	EPA 8270	6-30-11	6-30-11	
Phenol	ND	0.039	EPA 8270	6-30-11	6-30-11	
Aniline	ND	0.039	EPA 8270	6-30-11	6-30-11	
bis(2-Chloroethyl)ether	ND	0.039	EPA 8270	6-30-11	6-30-11	
2-Chlorophenol	ND	0.039	EPA 8270	6-30-11	6-30-11	
1,3-Dichlorobenzene	ND	0.039	EPA 8270	6-30-11	6-30-11	
1,4-Dichlorobenzene	ND	0.039	EPA 8270	6-30-11	6-30-11	
Benzyl alcohol	ND	0.039	EPA 8270	6-30-11	6-30-11	
1,2-Dichlorobenzene	ND	0.039	EPA 8270	6-30-11	6-30-11	
2-Methylphenol (o-Cresol)	ND	0.039	EPA 8270	6-30-11	6-30-11	
bis(2-Chloroisopropyl)ether	ND	0.039	EPA 8270	6-30-11	6-30-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.039	EPA 8270	6-30-11	6-30-11	
n-Nitroso-di-n-propylamine	ND	0.039	EPA 8270	6-30-11	6-30-11	
Hexachloroethane	ND	0.039	EPA 8270	6-30-11	6-30-11	
Nitrobenzene	ND	0.039	EPA 8270	6-30-11	6-30-11	
Isophorone	ND	0.039	EPA 8270	6-30-11	6-30-11	
2-Nitrophenol	ND	0.039	EPA 8270	6-30-11	6-30-11	
2,4-Dimethylphenol	ND	0.39	EPA 8270	6-30-11	6-30-11	
bis(2-Chloroethoxy)methane	ND	0.039	EPA 8270	6-30-11	6-30-11	
2,4-Dichlorophenol	ND	0.039	EPA 8270	6-30-11	6-30-11	
1,2,4-Trichlorobenzene	ND	0.039	EPA 8270	6-30-11	6-30-11	
Naphthalene	0.0079	0.0077	EPA 8270/SIM	6-30-11	6-30-11	
4-Chloroaniline	ND	0.039	EPA 8270	6-30-11	6-30-11	
Hexachlorobutadiene	ND	0.039	EPA 8270	6-30-11	6-30-11	
4-Chloro-3-methylphenol	ND	0.039	EPA 8270	6-30-11	6-30-11	
2-Methylnaphthalene	ND	0.0077	EPA 8270/SIM	6-30-11	6-30-11	
1-Methylnaphthalene	ND	0.0077	EPA 8270/SIM	6-30-11	6-30-11	
Hexachlorocyclopentadiene	ND	0.039	EPA 8270	6-30-11	6-30-11	
2,4,6-Trichlorophenol	ND	0.039	EPA 8270	6-30-11	6-30-11	
2,3-Dichloroaniline	ND	0.039	EPA 8270	6-30-11	6-30-11	
2,4,5-Trichlorophenol	ND	0.039	EPA 8270	6-30-11	6-30-11	
2-Chloronaphthalene	ND	0.039	EPA 8270	6-30-11	6-30-11	
2-Nitroaniline	ND	0.039	EPA 8270	6-30-11	6-30-11	
1,4-Dinitrobenzene	ND	0.039	EPA 8270	6-30-11	6-30-11	
Dimethylphthalate	ND	0.039	EPA 8270	6-30-11	6-30-11	
1,3-Dinitrobenzene	ND	0.039	EPA 8270	6-30-11	6-30-11	
2,6-Dinitrotoluene	ND	0.039	EPA 8270	6-30-11	6-30-11	
1,2-Dinitrobenzene	ND	0.039	EPA 8270	6-30-11	6-30-11	
Acenaphthylene	ND	0.0077	EPA 8270/SIM	6-30-11	6-30-11	
3-Nitroaniline	ND	0.039	EPA 8270	6-30-11	6-30-11	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR9-2.5					
Laboratory ID:	06-187-22					
2,4-Dinitrophenol	ND	0.19	EPA 8270	6-30-11	6-30-11	
Acenaphthene	0.0081	0.0077	EPA 8270/SIM	6-30-11	6-30-11	
4-Nitrophenol	ND	0.039	EPA 8270	6-30-11	6-30-11	
2,4-Dinitrotoluene	ND	0.039	EPA 8270	6-30-11	6-30-11	
Dibenzofuran	ND	0.039	EPA 8270	6-30-11	6-30-11	
2,3,5,6-Tetrachlorophenol	ND	0.039	EPA 8270	6-30-11	6-30-11	
2,3,4,6-Tetrachlorophenol	ND	0.039	EPA 8270	6-30-11	6-30-11	
Diethylphthalate	ND	0.19	EPA 8270	6-30-11	6-30-11	
4-Chlorophenyl-phenylether	ND	0.039	EPA 8270	6-30-11	6-30-11	
4-Nitroaniline	ND	0.039	EPA 8270	6-30-11	6-30-11	
Fluorene	0.010	0.0077	EPA 8270/SIM	6-30-11	6-30-11	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270	6-30-11	6-30-11	
n-Nitrosodiphenylamine	ND	0.039	EPA 8270	6-30-11	6-30-11	
1,2-Diphenylhydrazine	ND	0.039	EPA 8270	6-30-11	6-30-11	
4-Bromophenyl-phenylether	ND	0.039	EPA 8270	6-30-11	6-30-11	
Hexachlorobenzene	ND	0.039	EPA 8270	6-30-11	6-30-11	
Pentachlorophenol	ND	0.19	EPA 8270	6-30-11	6-30-11	
Phenanthrene	0.093	0.039	EPA 8270	6-30-11	6-30-11	
Anthracene	0.021	0.0077	EPA 8270/SIM	6-30-11	6-30-11	
Carbazole	ND	0.039	EPA 8270	6-30-11	6-30-11	
Di-n-butylphthalate	ND	0.39	EPA 8270	6-30-11	6-30-11	
Fluoranthene	0.19	0.039	EPA 8270	6-30-11	6-30-11	
Benzidine	ND	0.39	EPA 8270	6-30-11	6-30-11	
Pyrene	0.12	0.039	EPA 8270	6-30-11	6-30-11	
Butylbenzylphthalate	ND	0.39	EPA 8270	6-30-11	6-30-11	
bis(2-Ethylhexyl)adipate	ND	0.039	EPA 8270	6-30-11	6-30-11	
3,3'-Dichlorobenzidine	ND	0.39	EPA 8270	6-30-11	6-30-11	
Benzo[a]anthracene	0.069	0.039	EPA 8270	6-30-11	6-30-11	
Chrysene	0.083	0.039	EPA 8270	6-30-11	6-30-11	
bis(2-Ethylhexyl)phthalate	0.060	0.039	EPA 8270	6-30-11	6-30-11	
Di-n-octylphthalate	ND	0.039	EPA 8270	6-30-11	6-30-11	
Benzo[b]fluoranthene	0.063	0.039	EPA 8270	6-30-11	6-30-11	
Benzo(j,k)fluoranthene	0.060	0.039	EPA 8270	6-30-11	6-30-11	
Benzo[a]pyrene	0.071	0.039	EPA 8270	6-30-11	6-30-11	
Indeno[1,2,3-cd]pyrene	0.041	0.039	EPA 8270	6-30-11	6-30-11	
Dibenz[a,h]anthracene	0.015	0.0077	EPA 8270/SIM	6-30-11	6-30-11	
Benzo[g,h,i]perylene	0.049	0.039	EPA 8270	6-30-11	6-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	44	30 - 97				
Phenol-d6	50	40 - 104				
Nitrobenzene-d5	45	35 - 102				
2-Fluorobiphenyl	66	44 - 97				
2,4,6-Tribromophenol	63	41 - 110				
Terphenyl-d14	67	53 - 107				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR13-2.5					
Laboratory ID:	06-187-30					
n-Nitrosodimethylamine	ND	0.036	EPA 8270	6-30-11	6-30-11	
Pyridine	ND	0.36	EPA 8270	6-30-11	6-30-11	
Phenol	ND	0.036	EPA 8270	6-30-11	6-30-11	
Aniline	ND	0.036	EPA 8270	6-30-11	6-30-11	
bis(2-Chloroethyl)ether	ND	0.036	EPA 8270	6-30-11	6-30-11	
2-Chlorophenol	ND	0.036	EPA 8270	6-30-11	6-30-11	
1,3-Dichlorobenzene	ND	0.036	EPA 8270	6-30-11	6-30-11	
1,4-Dichlorobenzene	ND	0.036	EPA 8270	6-30-11	6-30-11	
Benzyl alcohol	ND	0.036	EPA 8270	6-30-11	6-30-11	
1,2-Dichlorobenzene	ND	0.036	EPA 8270	6-30-11	6-30-11	
2-Methylphenol (o-Cresol)	ND	0.036	EPA 8270	6-30-11	6-30-11	
bis(2-Chloroisopropyl)ether	ND	0.036	EPA 8270	6-30-11	6-30-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.036	EPA 8270	6-30-11	6-30-11	
n-Nitroso-di-n-propylamine	ND	0.036	EPA 8270	6-30-11	6-30-11	
Hexachloroethane	ND	0.036	EPA 8270	6-30-11	6-30-11	
Nitrobenzene	ND	0.036	EPA 8270	6-30-11	6-30-11	
Isophorone	ND	0.036	EPA 8270	6-30-11	6-30-11	
2-Nitrophenol	ND	0.036	EPA 8270	6-30-11	6-30-11	
2,4-Dimethylphenol	ND	0.36	EPA 8270	6-30-11	6-30-11	
bis(2-Chloroethoxy)methane	ND	0.036	EPA 8270	6-30-11	6-30-11	
2,4-Dichlorophenol	ND	0.036	EPA 8270	6-30-11	6-30-11	
1,2,4-Trichlorobenzene	ND	0.036	EPA 8270	6-30-11	6-30-11	
Naphthalene	ND	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
4-Chloroaniline	ND	0.036	EPA 8270	6-30-11	6-30-11	
Hexachlorobutadiene	ND	0.036	EPA 8270	6-30-11	6-30-11	
4-Chloro-3-methylphenol	ND	0.036	EPA 8270	6-30-11	6-30-11	
2-Methylnaphthalene	ND	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
1-Methylnaphthalene	ND	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
Hexachlorocyclopentadiene	ND	0.036	EPA 8270	6-30-11	6-30-11	
2,4,6-Trichlorophenol	ND	0.036	EPA 8270	6-30-11	6-30-11	
2,3-Dichloroaniline	ND	0.036	EPA 8270	6-30-11	6-30-11	
2,4,5-Trichlorophenol	ND	0.036	EPA 8270	6-30-11	6-30-11	
2-Chloronaphthalene	ND	0.036	EPA 8270	6-30-11	6-30-11	
2-Nitroaniline	ND	0.036	EPA 8270	6-30-11	6-30-11	
1,4-Dinitrobenzene	ND	0.036	EPA 8270	6-30-11	6-30-11	
Dimethylphthalate	ND	0.036	EPA 8270	6-30-11	6-30-11	
1,3-Dinitrobenzene	ND	0.036	EPA 8270	6-30-11	6-30-11	
2,6-Dinitrotoluene	ND	0.036	EPA 8270	6-30-11	6-30-11	
1,2-Dinitrobenzene	ND	0.036	EPA 8270	6-30-11	6-30-11	
Acenaphthylene	ND	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
3-Nitroaniline	ND	0.036	EPA 8270	6-30-11	6-30-11	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR13-2.5					
Laboratory ID:	06-187-30					
2,4-Dinitrophenol	ND	0.18	EPA 8270	6-30-11	6-30-11	
Acenaphthene	ND	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
4-Nitrophenol	ND	0.036	EPA 8270	6-30-11	6-30-11	
2,4-Dinitrotoluene	ND	0.036	EPA 8270	6-30-11	6-30-11	
Dibenzofuran	ND	0.036	EPA 8270	6-30-11	6-30-11	
2,3,5,6-Tetrachlorophenol	ND	0.036	EPA 8270	6-30-11	6-30-11	
2,3,4,6-Tetrachlorophenol	ND	0.036	EPA 8270	6-30-11	6-30-11	
Diethylphthalate	ND	0.18	EPA 8270	6-30-11	6-30-11	
4-Chlorophenyl-phenylether	ND	0.036	EPA 8270	6-30-11	6-30-11	
4-Nitroaniline	ND	0.036	EPA 8270	6-30-11	6-30-11	
Fluorene	ND	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270	6-30-11	6-30-11	
n-Nitrosodiphenylamine	ND	0.036	EPA 8270	6-30-11	6-30-11	
1,2-Diphenylhydrazine	ND	0.036	EPA 8270	6-30-11	6-30-11	
4-Bromophenyl-phenylether	ND	0.036	EPA 8270	6-30-11	6-30-11	
Hexachlorobenzene	ND	0.036	EPA 8270	6-30-11	6-30-11	
Pentachlorophenol	ND	0.18	EPA 8270	6-30-11	6-30-11	
Phenanthrene	ND	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
Anthracene	ND	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
Carbazole	ND	0.036	EPA 8270	6-30-11	6-30-11	
Di-n-butylphthalate	ND	0.36	EPA 8270	6-30-11	6-30-11	
Fluoranthene	0.0087	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
Benzidine	ND	0.36	EPA 8270	6-30-11	6-30-11	
Pyrene	0.0082	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
Butylbenzylphthalate	ND	0.36	EPA 8270	6-30-11	6-30-11	
bis-2-Ethylhexyladipate	ND	0.036	EPA 8270	6-30-11	6-30-11	
3,3'-Dichlorobenzidine	ND	0.36	EPA 8270	6-30-11	6-30-11	
Benzo[a]anthracene	ND	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
Chrysene	ND	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
bis(2-Ethylhexyl)phthalate	ND	0.036	EPA 8270	6-30-11	6-30-11	
Di-n-octylphthalate	ND	0.036	EPA 8270	6-30-11	6-30-11	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
Benzo[a]pyrene	ND	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
Indeno[1,2,3-cd]pyrene	ND	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270/SIM	6-30-11	6-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>39</i>	<i>30 - 97</i>				
<i>Phenol-d6</i>	<i>44</i>	<i>40 - 104</i>				
<i>Nitrobenzene-d5</i>	<i>40</i>	<i>35 - 102</i>				
<i>2-Fluorobiphenyl</i>	<i>67</i>	<i>44 - 97</i>				
<i>2,4,6-Tribromophenol</i>	<i>68</i>	<i>41 - 110</i>				
<i>Terphenyl-d14</i>	<i>74</i>	<i>53 - 107</i>				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0630S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270	6-30-11	6-30-11	
Pyridine	ND	0.33	EPA 8270	6-30-11	6-30-11	
Phenol	ND	0.033	EPA 8270	6-30-11	6-30-11	
Aniline	ND	0.033	EPA 8270	6-30-11	6-30-11	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270	6-30-11	6-30-11	
2-Chlorophenol	ND	0.033	EPA 8270	6-30-11	6-30-11	
1,3-Dichlorobenzene	ND	0.033	EPA 8270	6-30-11	6-30-11	
1,4-Dichlorobenzene	ND	0.033	EPA 8270	6-30-11	6-30-11	
Benzyl alcohol	ND	0.033	EPA 8270	6-30-11	6-30-11	
1,2-Dichlorobenzene	ND	0.033	EPA 8270	6-30-11	6-30-11	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270	6-30-11	6-30-11	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270	6-30-11	6-30-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270	6-30-11	6-30-11	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270	6-30-11	6-30-11	
Hexachloroethane	ND	0.033	EPA 8270	6-30-11	6-30-11	
Nitrobenzene	ND	0.033	EPA 8270	6-30-11	6-30-11	
Isophorone	ND	0.033	EPA 8270	6-30-11	6-30-11	
2-Nitrophenol	ND	0.033	EPA 8270	6-30-11	6-30-11	
2,4-Dimethylphenol	ND	0.33	EPA 8270	6-30-11	6-30-11	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270	6-30-11	6-30-11	
2,4-Dichlorophenol	ND	0.033	EPA 8270	6-30-11	6-30-11	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270	6-30-11	6-30-11	
Naphthalene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
4-Chloroaniline	ND	0.033	EPA 8270	6-30-11	6-30-11	
Hexachlorobutadiene	ND	0.033	EPA 8270	6-30-11	6-30-11	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270	6-30-11	6-30-11	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270	6-30-11	6-30-11	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270	6-30-11	6-30-11	
2,3-Dichloroaniline	ND	0.033	EPA 8270	6-30-11	6-30-11	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270	6-30-11	6-30-11	
2-Chloronaphthalene	ND	0.033	EPA 8270	6-30-11	6-30-11	
2-Nitroaniline	ND	0.033	EPA 8270	6-30-11	6-30-11	
1,4-Dinitrobenzene	ND	0.033	EPA 8270	6-30-11	6-30-11	
Dimethylphthalate	ND	0.033	EPA 8270	6-30-11	6-30-11	
1,3-Dinitrobenzene	ND	0.033	EPA 8270	6-30-11	6-30-11	
2,6-Dinitrotoluene	ND	0.033	EPA 8270	6-30-11	6-30-11	
1,2-Dinitrobenzene	ND	0.033	EPA 8270	6-30-11	6-30-11	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
3-Nitroaniline	ND	0.033	EPA 8270	6-30-11	6-30-11	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0630S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270	6-30-11	6-30-11	
Acenaphthene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
4-Nitrophenol	ND	0.033	EPA 8270	6-30-11	6-30-11	
2,4-Dinitrotoluene	ND	0.033	EPA 8270	6-30-11	6-30-11	
Dibenzofuran	ND	0.033	EPA 8270	6-30-11	6-30-11	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270	6-30-11	6-30-11	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270	6-30-11	6-30-11	
Diethylphthalate	ND	0.17	EPA 8270	6-30-11	6-30-11	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270	6-30-11	6-30-11	
4-Nitroaniline	ND	0.033	EPA 8270	6-30-11	6-30-11	
Fluorene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270	6-30-11	6-30-11	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270	6-30-11	6-30-11	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270	6-30-11	6-30-11	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270	6-30-11	6-30-11	
Hexachlorobenzene	ND	0.033	EPA 8270	6-30-11	6-30-11	
Pentachlorophenol	ND	0.17	EPA 8270	6-30-11	6-30-11	
Phenanthrene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
Anthracene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
Carbazole	ND	0.033	EPA 8270	6-30-11	6-30-11	
Di-n-butylphthalate	ND	0.33	EPA 8270	6-30-11	6-30-11	
Fluoranthene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
Benzidine	ND	0.33	EPA 8270	6-30-11	6-30-11	
Pyrene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
Butylbenzylphthalate	ND	0.33	EPA 8270	6-30-11	6-30-11	
bis-2-Ethylhexyladipate	ND	0.033	EPA 8270	6-30-11	6-30-11	
3,3'-Dichlorobenzidine	ND	0.33	EPA 8270	6-30-11	6-30-11	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
Chrysene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
bis(2-Ethylhexyl)phthalate	ND	0.033	EPA 8270	6-30-11	6-30-11	
Di-n-octylphthalate	ND	0.033	EPA 8270	6-30-11	6-30-11	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	6-30-11	6-30-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>59</i>	<i>30 - 97</i>				
<i>Phenol-d6</i>	<i>57</i>	<i>40 - 104</i>				
<i>Nitrobenzene-d5</i>	<i>60</i>	<i>35 - 102</i>				
<i>2-Fluorobiphenyl</i>	<i>74</i>	<i>44 - 97</i>				
<i>2,4,6-Tribromophenol</i>	<i>69</i>	<i>41 - 110</i>				
<i>Terphenyl-d14</i>	<i>75</i>	<i>53 - 107</i>				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

**SEMIVOLATILES by EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	06-245-10										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	0.681	0.734	1.33	1.33	ND	51	55	41 - 106	7	29	
2-Chlorophenol	0.865	0.948	1.33	1.33	ND	65	71	43 - 104	9	36	
1,4-Dichlorobenzene	0.378	0.431	0.667	0.667	ND	57	65	25 - 94	13	40	
n-Nitroso-di-n-propylamine	0.327	0.352	0.667	0.667	ND	49	53	40 - 100	7	34	
1,2,4-Trichlorobenzene	0.372	0.406	0.667	0.667	ND	56	61	39 - 86	9	34	
4-Chloro-3-methylphenol	0.848	0.857	1.33	1.33	ND	64	64	60 - 102	1	25	
Acenaphthene	0.446	0.439	0.667	0.667	ND	67	66	54 - 94	2	23	
4-Nitrophenol	0.965	0.901	1.33	1.33	ND	73	68	30 - 133	7	25	
2,4-Dinitrotoluene	0.497	0.460	0.667	0.667	ND	75	69	46 - 107	8	26	
Pentachlorophenol	1.02	0.962	1.33	1.33	ND	77	72	54 - 111	6	29	
Pyrene	0.508	0.492	0.667	0.667	ND	76	74	54 - 108	3	21	
<i>Surrogate:</i>											
2-Fluorophenol						53	58	30 - 97			
Phenol-d6						52	55	40 - 104			
Nitrobenzene-d5						51	57	35 - 102			
2-Fluorobiphenyl						72	70	44 - 97			
2,4,6-Tribromophenol						71	68	41 - 110			
Terphenyl-d14						76	73	53 - 107			

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

**TOTAL METALS
 EPA 6010B/7471A**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-187-01					
Client ID:	FAR12-2.5					
Arsenic	ND	13	6010B	6-30-11	6-30-11	
Cadmium	ND	0.63	6010B	6-30-11	6-30-11	
Chromium	51	0.63	6010B	6-30-11	6-30-11	
Lead	ND	6.3	6010B	6-30-11	6-30-11	
Mercury	ND	0.32	7471A	6-30-11	6-30-11	

Date of Report: July 14, 2011
Samples Submitted: June 22, 2011
Laboratory Reference: 1106-187
Project: 1005-001

**TOTAL METALS
EPA 6010B/7471A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 6-30-11
Date Analyzed: 6-30-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0630S1&MB0630S3

Analyte	Method	Result	PQL
Arsenic	6010B	ND	10
Cadmium	6010B	ND	0.50
Chromium	6010B	ND	0.50
Lead	6010B	ND	5.0
Mercury	7471A	ND	0.25

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

**TOTAL METALS
 EPA 6010B/7471A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 6-30-11

Date Analyzed: 6-30-11

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-239-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Cadmium	ND	ND	NA	0.50	
Chromium	20.2	18.6	8	0.50	
Lead	9.50	6.89	32	5.0	C
Mercury	ND	ND	NA	0.25	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

**TOTAL METALS
 EPA 6010B/7471A
 MS/MSD QUALITY CONTROL**

Date Extracted: 6-30-11

Date Analyzed: 6-30-11

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-239-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	83.0	83	82.2	82	1	
Cadmium	50.0	48.2	96	47.6	95	1	
Chromium	100	112	91	112	92	0	
Lead	250	237	91	238	92	1	
Mercury	0.500	0.480	96	0.476	95	1	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

VOLATILES by EPA 8260B
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR10-15.0					
Laboratory ID:	06-187-21					
Dichlorodifluoromethane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	0.0073	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	0.0073	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Acetone	0.028	0.0073	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	0.0073	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.0073	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	0.0073	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	0.0073	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	0.0073	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	0.0073	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	0.0073	EPA 8260	7-1-11	7-1-11	
Toluene	ND	0.0073	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260	7-1-11	7-1-11	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
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 Project: 1005-001

VOLATILES by EPA 8260B
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR10-15.0					
Laboratory ID:	06-187-21					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	0.0073	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.0029	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	0.0073	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.0073	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>77</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>77</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>79</i>	<i>55-121</i>				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Acetone	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	0.0050	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	0.0050	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Toluene	ND	0.0050	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	7-1-11	7-1-11	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.0020	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>79</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>81</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>55-121</i>				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0701S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0542	0.0546	0.0500	0.0500	108	109	70-130	1	19	
Benzene	0.0482	0.0490	0.0500	0.0500	96	98	70-125	2	15	
Trichloroethene	0.0500	0.0495	0.0500	0.0500	100	99	70-122	1	14	
Toluene	0.0482	0.0478	0.0500	0.0500	96	96	73-120	1	16	
Chlorobenzene	0.0505	0.0481	0.0500	0.0500	101	96	74-109	5	12	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					72	74	63-127			
<i>Toluene-d8</i>					75	75	65-129			
<i>4-Bromofluorobenzene</i>					76	79	55-121			

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR15-11.0					
Laboratory ID:	06-187-07					
n-Nitrosodimethylamine	ND	0.036	EPA 8270	7-1-11	7-3-11	
Pyridine	ND	0.36	EPA 8270	7-1-11	7-3-11	
Phenol	ND	0.036	EPA 8270	7-1-11	7-3-11	
Aniline	ND	0.036	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroethyl)ether	ND	0.036	EPA 8270	7-1-11	7-3-11	
2-Chlorophenol	ND	0.036	EPA 8270	7-1-11	7-3-11	
1,3-Dichlorobenzene	ND	0.036	EPA 8270	7-1-11	7-3-11	
1,4-Dichlorobenzene	ND	0.036	EPA 8270	7-1-11	7-3-11	
Benzyl alcohol	ND	0.036	EPA 8270	7-1-11	7-3-11	
1,2-Dichlorobenzene	ND	0.036	EPA 8270	7-1-11	7-3-11	
2-Methylphenol (o-Cresol)	ND	0.036	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroisopropyl)ether	ND	0.036	EPA 8270	7-1-11	7-3-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.036	EPA 8270	7-1-11	7-3-11	
n-Nitroso-di-n-propylamine	ND	0.036	EPA 8270	7-1-11	7-3-11	
Hexachloroethane	ND	0.036	EPA 8270	7-1-11	7-3-11	
Nitrobenzene	ND	0.036	EPA 8270	7-1-11	7-3-11	
Isophorone	ND	0.036	EPA 8270	7-1-11	7-3-11	
2-Nitrophenol	ND	0.036	EPA 8270	7-1-11	7-3-11	
2,4-Dimethylphenol	ND	0.36	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroethoxy)methane	ND	0.036	EPA 8270	7-1-11	7-3-11	
2,4-Dichlorophenol	ND	0.036	EPA 8270	7-1-11	7-3-11	
1,2,4-Trichlorobenzene	ND	0.036	EPA 8270	7-1-11	7-3-11	
Naphthalene	ND	0.0072	EPA 8270/SIM	7-1-11	7-2-11	
4-Chloroaniline	ND	0.036	EPA 8270	7-1-11	7-3-11	
Hexachlorobutadiene	ND	0.036	EPA 8270	7-1-11	7-3-11	
4-Chloro-3-methylphenol	ND	0.036	EPA 8270	7-1-11	7-3-11	
2-Methylnaphthalene	ND	0.0072	EPA 8270/SIM	7-1-11	7-2-11	
1-Methylnaphthalene	ND	0.0072	EPA 8270/SIM	7-1-11	7-2-11	
Hexachlorocyclopentadiene	ND	0.036	EPA 8270	7-1-11	7-3-11	
2,4,6-Trichlorophenol	ND	0.036	EPA 8270	7-1-11	7-3-11	
2,3-Dichloroaniline	ND	0.036	EPA 8270	7-1-11	7-3-11	
2,4,5-Trichlorophenol	ND	0.036	EPA 8270	7-1-11	7-3-11	
2-Chloronaphthalene	ND	0.036	EPA 8270	7-1-11	7-3-11	
2-Nitroaniline	ND	0.036	EPA 8270	7-1-11	7-3-11	
1,4-Dinitrobenzene	ND	0.036	EPA 8270	7-1-11	7-3-11	
Dimethylphthalate	ND	0.036	EPA 8270	7-1-11	7-3-11	
1,3-Dinitrobenzene	ND	0.036	EPA 8270	7-1-11	7-3-11	
2,6-Dinitrotoluene	ND	0.036	EPA 8270	7-1-11	7-3-11	
1,2-Dinitrobenzene	ND	0.036	EPA 8270	7-1-11	7-3-11	
Acenaphthylene	0.015	0.0072	EPA 8270/SIM	7-1-11	7-2-11	
3-Nitroaniline	ND	0.036	EPA 8270	7-1-11	7-3-11	

Date of Report: July 14, 2011
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 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR15-11.0					
Laboratory ID:	06-187-07					
2,4-Dinitrophenol	ND	0.18	EPA 8270	7-1-11	7-3-11	
Acenaphthene	ND	0.0072	EPA 8270/SIM	7-1-11	7-2-11	
4-Nitrophenol	ND	0.036	EPA 8270	7-1-11	7-3-11	
2,4-Dinitrotoluene	ND	0.036	EPA 8270	7-1-11	7-3-11	
Dibenzofuran	ND	0.036	EPA 8270	7-1-11	7-3-11	
2,3,5,6-Tetrachlorophenol	ND	0.036	EPA 8270	7-1-11	7-3-11	
2,3,4,6-Tetrachlorophenol	ND	0.036	EPA 8270	7-1-11	7-3-11	
Diethylphthalate	ND	0.18	EPA 8270	7-1-11	7-3-11	
4-Chlorophenyl-phenylether	ND	0.036	EPA 8270	7-1-11	7-3-11	
4-Nitroaniline	ND	0.036	EPA 8270	7-1-11	7-3-11	
Fluorene	0.0072	0.0072	EPA 8270/SIM	7-1-11	7-2-11	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270	7-1-11	7-3-11	
n-Nitrosodiphenylamine	ND	0.036	EPA 8270	7-1-11	7-3-11	
1,2-Diphenylhydrazine	ND	0.036	EPA 8270	7-1-11	7-3-11	
4-Bromophenyl-phenylether	ND	0.036	EPA 8270	7-1-11	7-3-11	
Hexachlorobenzene	ND	0.036	EPA 8270	7-1-11	7-3-11	
Pentachlorophenol	0.47	0.18	EPA 8270	7-1-11	7-3-11	
Phenanthrene	0.074	0.036	EPA 8270	7-1-11	7-3-11	
Anthracene	0.034	0.0072	EPA 8270/SIM	7-1-11	7-2-11	
Carbazole	ND	0.036	EPA 8270	7-1-11	7-3-11	
Di-n-butylphthalate	ND	0.36	EPA 8270	7-1-11	7-3-11	
Fluoranthene	0.20	0.036	EPA 8270	7-1-11	7-3-11	
Benzidine	ND	0.36	EPA 8270	7-1-11	7-3-11	
Pyrene	0.19	0.036	EPA 8270	7-1-11	7-3-11	
Butylbenzylphthalate	ND	0.36	EPA 8270	7-1-11	7-3-11	
bis-2-Ethylhexyladipate	ND	0.036	EPA 8270	7-1-11	7-3-11	
3,3'-Dichlorobenzidine	ND	0.36	EPA 8270	7-1-11	7-3-11	
Benzo[a]anthracene	0.075	0.036	EPA 8270	7-1-11	7-3-11	
Chrysene	0.22	0.036	EPA 8270	7-1-11	7-3-11	
bis(2-Ethylhexyl)phthalate	0.059	0.036	EPA 8270	7-1-11	7-3-11	
Di-n-octylphthalate	ND	0.036	EPA 8270	7-1-11	7-3-11	
Benzo[b]fluoranthene	0.16	0.036	EPA 8270	7-1-11	7-3-11	
Benzo(j,k)fluoranthene	0.10	0.036	EPA 8270	7-1-11	7-3-11	
Benzo[a]pyrene	0.11	0.036	EPA 8270	7-1-11	7-3-11	
Indeno[1,2,3-cd]pyrene	0.064	0.036	EPA 8270	7-1-11	7-3-11	
Dibenz[a,h]anthracene	0.024	0.0072	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[g,h,i]perylene	0.067	0.036	EPA 8270	7-1-11	7-3-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>67</i>	<i>30 - 97</i>				
<i>Phenol-d6</i>	<i>76</i>	<i>40 - 104</i>				
<i>Nitrobenzene-d5</i>	<i>77</i>	<i>35 - 102</i>				
<i>2-Fluorobiphenyl</i>	<i>81</i>	<i>44 - 97</i>				
<i>2,4,6-Tribromophenol</i>	<i>93</i>	<i>41 - 110</i>				
<i>Terphenyl-d14</i>	<i>86</i>	<i>53 - 107</i>				

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 Project: 1005-001

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR21-6.0					
Laboratory ID:	06-187-11					
n-Nitrosodimethylamine	ND	0.041	EPA 8270	7-1-11	7-3-11	
Pyridine	ND	0.41	EPA 8270	7-1-11	7-3-11	
Phenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
Aniline	ND	0.041	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroethyl)ether	ND	0.041	EPA 8270	7-1-11	7-3-11	
2-Chlorophenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
1,3-Dichlorobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
1,4-Dichlorobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
Benzyl alcohol	ND	0.041	EPA 8270	7-1-11	7-3-11	
1,2-Dichlorobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
2-Methylphenol (o-Cresol)	ND	0.041	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroisopropyl)ether	ND	0.041	EPA 8270	7-1-11	7-3-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.041	EPA 8270	7-1-11	7-3-11	
n-Nitroso-di-n-propylamine	ND	0.041	EPA 8270	7-1-11	7-3-11	
Hexachloroethane	ND	0.041	EPA 8270	7-1-11	7-3-11	
Nitrobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
Isophorone	ND	0.041	EPA 8270	7-1-11	7-3-11	
2-Nitrophenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,4-Dimethylphenol	ND	0.41	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroethoxy)methane	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,4-Dichlorophenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
1,2,4-Trichlorobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
Naphthalene	ND	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
4-Chloroaniline	ND	0.041	EPA 8270	7-1-11	7-3-11	
Hexachlorobutadiene	ND	0.041	EPA 8270	7-1-11	7-3-11	
4-Chloro-3-methylphenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
2-Methylnaphthalene	ND	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
1-Methylnaphthalene	ND	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Hexachlorocyclopentadiene	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,4,6-Trichlorophenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,3-Dichloroaniline	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,4,5-Trichlorophenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
2-Chloronaphthalene	ND	0.041	EPA 8270	7-1-11	7-3-11	
2-Nitroaniline	ND	0.041	EPA 8270	7-1-11	7-3-11	
1,4-Dinitrobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
Dimethylphthalate	ND	0.041	EPA 8270	7-1-11	7-3-11	
1,3-Dinitrobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,6-Dinitrotoluene	ND	0.041	EPA 8270	7-1-11	7-3-11	
1,2-Dinitrobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
Acenaphthylene	ND	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
3-Nitroaniline	ND	0.041	EPA 8270	7-1-11	7-3-11	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR21-6.0					
Laboratory ID:	06-187-11					
2,4-Dinitrophenol	ND	0.21	EPA 8270	7-1-11	7-3-11	
Acenaphthene	ND	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
4-Nitrophenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,4-Dinitrotoluene	ND	0.041	EPA 8270	7-1-11	7-3-11	
Dibenzofuran	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,3,5,6-Tetrachlorophenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,3,4,6-Tetrachlorophenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
Diethylphthalate	ND	0.21	EPA 8270	7-1-11	7-3-11	
4-Chlorophenyl-phenylether	ND	0.041	EPA 8270	7-1-11	7-3-11	
4-Nitroaniline	ND	0.041	EPA 8270	7-1-11	7-3-11	
Fluorene	ND	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
4,6-Dinitro-2-methylphenol	ND	0.21	EPA 8270	7-1-11	7-3-11	
n-Nitrosodiphenylamine	ND	0.041	EPA 8270	7-1-11	7-3-11	
1,2-Diphenylhydrazine	ND	0.041	EPA 8270	7-1-11	7-3-11	
4-Bromophenyl-phenylether	ND	0.041	EPA 8270	7-1-11	7-3-11	
Hexachlorobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
Pentachlorophenol	ND	0.21	EPA 8270	7-1-11	7-3-11	
Phenanthrene	0.022	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Anthracene	ND	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Carbazole	ND	0.041	EPA 8270	7-1-11	7-3-11	
Di-n-butylphthalate	ND	0.41	EPA 8270	7-1-11	7-3-11	
Fluoranthene	0.044	0.041	EPA 8270	7-1-11	7-3-11	
Benzidine	ND	0.41	EPA 8270	7-1-11	7-3-11	
Pyrene	0.041	0.041	EPA 8270	7-1-11	7-3-11	
Butylbenzylphthalate	ND	0.41	EPA 8270	7-1-11	7-3-11	
bis-2-Ethylhexyladipate	ND	0.041	EPA 8270	7-1-11	7-3-11	
3,3'-Dichlorobenzidine	ND	0.41	EPA 8270	7-1-11	7-3-11	
Benzo[a]anthracene	0.018	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Chrysene	0.035	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
bis(2-Ethylhexyl)phthalate	ND	0.041	EPA 8270	7-1-11	7-3-11	
Di-n-octylphthalate	ND	0.041	EPA 8270	7-1-11	7-3-11	
Benzo[b]fluoranthene	0.025	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Benzo(j,k)fluoranthene	0.017	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[a]pyrene	0.017	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Indeno[1,2,3-cd]pyrene	0.012	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Dibenz[a,h]anthracene	ND	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[g,h,i]perylene	0.022	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	66	30 - 97				
Phenol-d6	76	40 - 104				
Nitrobenzene-d5	73	35 - 102				
2-Fluorobiphenyl	77	44 - 97				
2,4,6-Tribromophenol	99	41 - 110				
Terphenyl-d14	90	53 - 107				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR20-5.0					
Laboratory ID:	06-187-15					
n-Nitrosodimethylamine	ND	0.042	EPA 8270	7-1-11	7-3-11	
Pyridine	ND	0.42	EPA 8270	7-1-11	7-3-11	
Phenol	ND	0.042	EPA 8270	7-1-11	7-3-11	
Aniline	ND	0.042	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroethyl)ether	ND	0.042	EPA 8270	7-1-11	7-3-11	
2-Chlorophenol	ND	0.042	EPA 8270	7-1-11	7-3-11	
1,3-Dichlorobenzene	ND	0.042	EPA 8270	7-1-11	7-3-11	
1,4-Dichlorobenzene	ND	0.042	EPA 8270	7-1-11	7-3-11	
Benzyl alcohol	ND	0.042	EPA 8270	7-1-11	7-3-11	
1,2-Dichlorobenzene	ND	0.042	EPA 8270	7-1-11	7-3-11	
2-Methylphenol (o-Cresol)	ND	0.042	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroisopropyl)ether	ND	0.042	EPA 8270	7-1-11	7-3-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.042	EPA 8270	7-1-11	7-3-11	
n-Nitroso-di-n-propylamine	ND	0.042	EPA 8270	7-1-11	7-3-11	
Hexachloroethane	ND	0.042	EPA 8270	7-1-11	7-3-11	
Nitrobenzene	ND	0.042	EPA 8270	7-1-11	7-3-11	
Isophorone	ND	0.042	EPA 8270	7-1-11	7-3-11	
2-Nitrophenol	ND	0.042	EPA 8270	7-1-11	7-3-11	
2,4-Dimethylphenol	ND	0.42	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroethoxy)methane	ND	0.042	EPA 8270	7-1-11	7-3-11	
2,4-Dichlorophenol	ND	0.042	EPA 8270	7-1-11	7-3-11	
1,2,4-Trichlorobenzene	ND	0.042	EPA 8270	7-1-11	7-3-11	
Naphthalene	ND	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
4-Chloroaniline	ND	0.042	EPA 8270	7-1-11	7-3-11	
Hexachlorobutadiene	ND	0.042	EPA 8270	7-1-11	7-3-11	
4-Chloro-3-methylphenol	ND	0.042	EPA 8270	7-1-11	7-3-11	
2-Methylnaphthalene	ND	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
1-Methylnaphthalene	ND	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Hexachlorocyclopentadiene	ND	0.042	EPA 8270	7-1-11	7-3-11	
2,4,6-Trichlorophenol	ND	0.042	EPA 8270	7-1-11	7-3-11	
2,3-Dichloroaniline	ND	0.042	EPA 8270	7-1-11	7-3-11	
2,4,5-Trichlorophenol	ND	0.042	EPA 8270	7-1-11	7-3-11	
2-Chloronaphthalene	ND	0.042	EPA 8270	7-1-11	7-3-11	
2-Nitroaniline	ND	0.042	EPA 8270	7-1-11	7-3-11	
1,4-Dinitrobenzene	ND	0.042	EPA 8270	7-1-11	7-3-11	
Dimethylphthalate	ND	0.042	EPA 8270	7-1-11	7-3-11	
1,3-Dinitrobenzene	ND	0.042	EPA 8270	7-1-11	7-3-11	
2,6-Dinitrotoluene	ND	0.042	EPA 8270	7-1-11	7-3-11	
1,2-Dinitrobenzene	ND	0.042	EPA 8270	7-1-11	7-3-11	
Acenaphthylene	ND	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
3-Nitroaniline	ND	0.042	EPA 8270	7-1-11	7-3-11	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR20-5.0					
Laboratory ID:	06-187-15					
2,4-Dinitrophenol	ND	0.21	EPA 8270	7-1-11	7-3-11	
Acenaphthene	ND	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
4-Nitrophenol	ND	0.042	EPA 8270	7-1-11	7-3-11	
2,4-Dinitrotoluene	ND	0.042	EPA 8270	7-1-11	7-3-11	
Dibenzofuran	ND	0.042	EPA 8270	7-1-11	7-3-11	
2,3,5,6-Tetrachlorophenol	ND	0.042	EPA 8270	7-1-11	7-3-11	
2,3,4,6-Tetrachlorophenol	ND	0.042	EPA 8270	7-1-11	7-3-11	
Diethylphthalate	ND	0.21	EPA 8270	7-1-11	7-3-11	
4-Chlorophenyl-phenylether	ND	0.042	EPA 8270	7-1-11	7-3-11	
4-Nitroaniline	ND	0.042	EPA 8270	7-1-11	7-3-11	
Fluorene	ND	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
4,6-Dinitro-2-methylphenol	ND	0.21	EPA 8270	7-1-11	7-3-11	
n-Nitrosodiphenylamine	ND	0.042	EPA 8270	7-1-11	7-3-11	
1,2-Diphenylhydrazine	ND	0.042	EPA 8270	7-1-11	7-3-11	
4-Bromophenyl-phenylether	ND	0.042	EPA 8270	7-1-11	7-3-11	
Hexachlorobenzene	ND	0.042	EPA 8270	7-1-11	7-3-11	
Pentachlorophenol	ND	0.21	EPA 8270	7-1-11	7-3-11	
Phenanthrene	0.047	0.042	EPA 8270	7-1-11	7-3-11	
Anthracene	0.013	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Carbazole	ND	0.042	EPA 8270	7-1-11	7-3-11	
Di-n-butylphthalate	ND	0.42	EPA 8270	7-1-11	7-3-11	
Fluoranthene	0.084	0.042	EPA 8270	7-1-11	7-3-11	
Benzidine	ND	0.42	EPA 8270	7-1-11	7-3-11	
Pyrene	0.076	0.042	EPA 8270	7-1-11	7-3-11	
Butylbenzylphthalate	ND	0.42	EPA 8270	7-1-11	7-3-11	
bis-2-Ethylhexyladipate	ND	0.042	EPA 8270	7-1-11	7-3-11	
3,3'-Dichlorobenzidine	ND	0.42	EPA 8270	7-1-11	7-3-11	
Benzo[a]anthracene	0.032	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Chrysene	0.050	0.042	EPA 8270	7-1-11	7-3-11	
bis(2-Ethylhexyl)phthalate	0.057	0.042	EPA 8270	7-1-11	7-3-11	
Di-n-octylphthalate	ND	0.042	EPA 8270	7-1-11	7-3-11	
Benzo[b]fluoranthene	0.033	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Benzo(j,k)fluoranthene	0.024	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[a]pyrene	0.035	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Indeno[1,2,3-cd]pyrene	0.023	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Dibenz[a,h]anthracene	ND	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[g,h,i]perylene	0.034	0.0083	EPA 8270/SIM	7-1-11	7-2-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	53	30 - 97				
Phenol-d6	64	40 - 104				
Nitrobenzene-d5	57	35 - 102				
2-Fluorobiphenyl	66	44 - 97				
2,4,6-Tribromophenol	87	41 - 110				
Terphenyl-d14	87	53 - 107				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR10-15.0					
Laboratory ID:	06-187-21					
n-Nitrosodimethylamine	ND	0.045	EPA 8270	7-1-11	7-2-11	
Pyridine	ND	0.45	EPA 8270	7-1-11	7-2-11	
Phenol	ND	0.045	EPA 8270	7-1-11	7-2-11	
Aniline	ND	0.045	EPA 8270	7-1-11	7-2-11	
bis(2-Chloroethyl)ether	ND	0.045	EPA 8270	7-1-11	7-2-11	
2-Chlorophenol	ND	0.045	EPA 8270	7-1-11	7-2-11	
1,3-Dichlorobenzene	ND	0.045	EPA 8270	7-1-11	7-2-11	
1,4-Dichlorobenzene	ND	0.045	EPA 8270	7-1-11	7-2-11	
Benzyl alcohol	ND	0.045	EPA 8270	7-1-11	7-2-11	
1,2-Dichlorobenzene	ND	0.045	EPA 8270	7-1-11	7-2-11	
2-Methylphenol (o-Cresol)	ND	0.045	EPA 8270	7-1-11	7-2-11	
bis(2-Chloroisopropyl)ether	ND	0.045	EPA 8270	7-1-11	7-2-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.045	EPA 8270	7-1-11	7-2-11	
n-Nitroso-di-n-propylamine	ND	0.045	EPA 8270	7-1-11	7-2-11	
Hexachloroethane	ND	0.045	EPA 8270	7-1-11	7-2-11	
Nitrobenzene	ND	0.045	EPA 8270	7-1-11	7-2-11	
Isophorone	ND	0.045	EPA 8270	7-1-11	7-2-11	
2-Nitrophenol	ND	0.045	EPA 8270	7-1-11	7-2-11	
2,4-Dimethylphenol	ND	0.45	EPA 8270	7-1-11	7-2-11	
bis(2-Chloroethoxy)methane	ND	0.045	EPA 8270	7-1-11	7-2-11	
2,4-Dichlorophenol	ND	0.045	EPA 8270	7-1-11	7-2-11	
1,2,4-Trichlorobenzene	ND	0.045	EPA 8270	7-1-11	7-2-11	
Naphthalene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
4-Chloroaniline	ND	0.045	EPA 8270	7-1-11	7-2-11	
Hexachlorobutadiene	ND	0.045	EPA 8270	7-1-11	7-2-11	
4-Chloro-3-methylphenol	ND	0.045	EPA 8270	7-1-11	7-2-11	
2-Methylnaphthalene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
1-Methylnaphthalene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
Hexachlorocyclopentadiene	ND	0.045	EPA 8270	7-1-11	7-2-11	
2,4,6-Trichlorophenol	ND	0.045	EPA 8270	7-1-11	7-2-11	
2,3-Dichloroaniline	ND	0.045	EPA 8270	7-1-11	7-2-11	
2,4,5-Trichlorophenol	ND	0.045	EPA 8270	7-1-11	7-2-11	
2-Chloronaphthalene	ND	0.045	EPA 8270	7-1-11	7-2-11	
2-Nitroaniline	ND	0.045	EPA 8270	7-1-11	7-2-11	
1,4-Dinitrobenzene	ND	0.045	EPA 8270	7-1-11	7-2-11	
Dimethylphthalate	ND	0.045	EPA 8270	7-1-11	7-2-11	
1,3-Dinitrobenzene	ND	0.045	EPA 8270	7-1-11	7-2-11	
2,6-Dinitrotoluene	ND	0.045	EPA 8270	7-1-11	7-2-11	
1,2-Dinitrobenzene	ND	0.045	EPA 8270	7-1-11	7-2-11	
Acenaphthylene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
3-Nitroaniline	ND	0.045	EPA 8270	7-1-11	7-2-11	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR10-15.0					
Laboratory ID:	06-187-21					
2,4-Dinitrophenol	ND	0.22	EPA 8270	7-1-11	7-2-11	
Acenaphthene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
4-Nitrophenol	ND	0.045	EPA 8270	7-1-11	7-2-11	
2,4-Dinitrotoluene	ND	0.045	EPA 8270	7-1-11	7-2-11	
Dibenzofuran	ND	0.045	EPA 8270	7-1-11	7-2-11	
2,3,5,6-Tetrachlorophenol	ND	0.045	EPA 8270	7-1-11	7-2-11	
2,3,4,6-Tetrachlorophenol	ND	0.045	EPA 8270	7-1-11	7-2-11	
Diethylphthalate	ND	0.22	EPA 8270	7-1-11	7-2-11	
4-Chlorophenyl-phenylether	ND	0.045	EPA 8270	7-1-11	7-2-11	
4-Nitroaniline	ND	0.045	EPA 8270	7-1-11	7-2-11	
Fluorene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
4,6-Dinitro-2-methylphenol	ND	0.22	EPA 8270	7-1-11	7-2-11	
n-Nitrosodiphenylamine	ND	0.045	EPA 8270	7-1-11	7-2-11	
1,2-Diphenylhydrazine	ND	0.045	EPA 8270	7-1-11	7-2-11	
4-Bromophenyl-phenylether	ND	0.045	EPA 8270	7-1-11	7-2-11	
Hexachlorobenzene	ND	0.045	EPA 8270	7-1-11	7-2-11	
Pentachlorophenol	ND	0.22	EPA 8270	7-1-11	7-2-11	
Phenanthrene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
Anthracene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
Carbazole	ND	0.045	EPA 8270	7-1-11	7-2-11	
Di-n-butylphthalate	ND	0.45	EPA 8270	7-1-11	7-2-11	
Fluoranthene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
Benzidine	ND	0.45	EPA 8270	7-1-11	7-2-11	
Pyrene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
Butylbenzylphthalate	ND	0.45	EPA 8270	7-1-11	7-2-11	
bis-2-Ethylhexyladipate	ND	0.045	EPA 8270	7-1-11	7-2-11	
3,3'-Dichlorobenzidine	ND	0.45	EPA 8270	7-1-11	7-2-11	
Benzo[a]anthracene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
Chrysene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
bis(2-Ethylhexyl)phthalate	ND	0.045	EPA 8270	7-1-11	7-2-11	
Di-n-octylphthalate	ND	0.045	EPA 8270	7-1-11	7-2-11	
Benzo[b]fluoranthene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
Benzo(j,k)fluoranthene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[a]pyrene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
Indeno[1,2,3-cd]pyrene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
Dibenz[a,h]anthracene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[g,h,i]perylene	ND	0.0090	EPA 8270/SIM	7-1-11	7-2-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	68	30 - 97				
Phenol-d6	72	40 - 104				
Nitrobenzene-d5	77	35 - 102				
2-Fluorobiphenyl	77	44 - 97				
2,4,6-Tribromophenol	89	41 - 110				
Terphenyl-d14	85	53 - 107				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270	7-1-11	7-2-11	
Pyridine	ND	0.33	EPA 8270	7-1-11	7-2-11	
Phenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
Aniline	ND	0.033	EPA 8270	7-1-11	7-2-11	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270	7-1-11	7-2-11	
2-Chlorophenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
1,3-Dichlorobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
1,4-Dichlorobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
Benzyl alcohol	ND	0.033	EPA 8270	7-1-11	7-2-11	
1,2-Dichlorobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270	7-1-11	7-2-11	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270	7-1-11	7-2-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270	7-1-11	7-2-11	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270	7-1-11	7-2-11	
Hexachloroethane	ND	0.033	EPA 8270	7-1-11	7-2-11	
Nitrobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
Isophorone	ND	0.033	EPA 8270	7-1-11	7-2-11	
2-Nitrophenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,4-Dimethylphenol	ND	0.33	EPA 8270	7-1-11	7-2-11	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,4-Dichlorophenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
Naphthalene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
4-Chloroaniline	ND	0.033	EPA 8270	7-1-11	7-2-11	
Hexachlorobutadiene	ND	0.033	EPA 8270	7-1-11	7-2-11	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,3-Dichloroaniline	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
2-Chloronaphthalene	ND	0.033	EPA 8270	7-1-11	7-2-11	
2-Nitroaniline	ND	0.033	EPA 8270	7-1-11	7-2-11	
1,4-Dinitrobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
Dimethylphthalate	ND	0.033	EPA 8270	7-1-11	7-2-11	
1,3-Dinitrobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,6-Dinitrotoluene	ND	0.033	EPA 8270	7-1-11	7-2-11	
1,2-Dinitrobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
3-Nitroaniline	ND	0.033	EPA 8270	7-1-11	7-2-11	

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270	7-1-11	7-2-11	
Acenaphthene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
4-Nitrophenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,4-Dinitrotoluene	ND	0.033	EPA 8270	7-1-11	7-2-11	
Dibenzofuran	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
Diethylphthalate	ND	0.17	EPA 8270	7-1-11	7-2-11	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270	7-1-11	7-2-11	
4-Nitroaniline	ND	0.033	EPA 8270	7-1-11	7-2-11	
Fluorene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270	7-1-11	7-2-11	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270	7-1-11	7-2-11	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270	7-1-11	7-2-11	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270	7-1-11	7-2-11	
Hexachlorobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
Pentachlorophenol	ND	0.17	EPA 8270	7-1-11	7-2-11	
Phenanthrene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Anthracene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Carbazole	ND	0.033	EPA 8270	7-1-11	7-2-11	
Di-n-butylphthalate	ND	0.33	EPA 8270	7-1-11	7-2-11	
Fluoranthene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Benzidine	ND	0.33	EPA 8270	7-1-11	7-2-11	
Pyrene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Butylbenzylphthalate	ND	0.33	EPA 8270	7-1-11	7-2-11	
bis-2-Ethylhexyladipate	ND	0.033	EPA 8270	7-1-11	7-2-11	
3,3'-Dichlorobenzidine	ND	0.33	EPA 8270	7-1-11	7-2-11	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Chrysene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
bis(2-Ethylhexyl)phthalate	ND	0.033	EPA 8270	7-1-11	7-2-11	
Di-n-octylphthalate	ND	0.033	EPA 8270	7-1-11	7-2-11	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>72</i>	<i>30 - 97</i>				
<i>Phenol-d6</i>	<i>79</i>	<i>40 - 104</i>				
<i>Nitrobenzene-d5</i>	<i>82</i>	<i>35 - 102</i>				
<i>2-Fluorobiphenyl</i>	<i>84</i>	<i>44 - 97</i>				
<i>2,4,6-Tribromophenol</i>	<i>91</i>	<i>41 - 110</i>				
<i>Terphenyl-d14</i>	<i>97</i>	<i>53 - 107</i>				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

**SEMIVOLATILES by EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery		RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit			
MATRIX SPIKES												
Laboratory ID:	06-187-07											
	MS	MSD	MS	MSD		MS	MSD					
Phenol	1.05	1.03	1.33	1.33	ND	79	77	41 - 106	2		29	
2-Chlorophenol	1.05	1.02	1.33	1.33	ND	79	77	43 - 104	3		36	
1,4-Dichlorobenzene	0.441	0.426	0.667	0.667	ND	66	64	25 - 94	3		40	
n-Nitroso-di-n-propylamine	0.478	0.476	0.667	0.667	ND	72	71	40 - 100	0		34	
1,2,4-Trichlorobenzene	0.514	0.509	0.667	0.667	ND	77	76	39 - 86	1		34	
4-Chloro-3-methylphenol	1.14	1.13	1.33	1.33	ND	86	85	60 - 102	1		25	
Acenaphthene	0.527	0.510	0.667	0.667	ND	79	76	54 - 94	3		23	
4-Nitrophenol	1.09	1.08	1.33	1.33	ND	82	81	30 - 133	1		25	
2,4-Dinitrotoluene	0.400	0.343	0.667	0.667	ND	60	51	46 - 107	15		26	
Pentachlorophenol	1.51	1.47	1.33	1.33	0.433	81	78	54 - 111	3		29	
Pyrene	0.738	0.696	0.667	0.667	0.172	85	79	54 - 108	6		21	
<i>Surrogate:</i>												
2-Fluorophenol						70	68	30 - 97				
Phenol-d6						77	77	40 - 104				
Nitrobenzene-d5						77	76	35 - 102				
2-Fluorobiphenyl						81	79	44 - 97				
2,4,6-Tribromophenol						100	99	41 - 110				
Terphenyl-d14						92	92	53 - 107				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR10-15.0					
Laboratory ID:	06-187-21					
Aroclor 1016	ND	0.067	EPA 8082	7-9-11	7-12-11	
Aroclor 1221	ND	0.067	EPA 8082	7-9-11	7-12-11	
Aroclor 1232	ND	0.067	EPA 8082	7-9-11	7-12-11	
Aroclor 1242	ND	0.067	EPA 8082	7-9-11	7-12-11	
Aroclor 1248	ND	0.067	EPA 8082	7-9-11	7-12-11	
Aroclor 1254	ND	0.067	EPA 8082	7-9-11	7-12-11	
Aroclor 1260	ND	0.067	EPA 8082	7-9-11	7-12-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	46	42-123				
Client ID:	FAR7-6.0					
Laboratory ID:	06-187-27					
Aroclor 1016	ND	0.053	EPA 8082	7-9-11	7-12-11	
Aroclor 1221	ND	0.053	EPA 8082	7-9-11	7-12-11	
Aroclor 1232	ND	0.053	EPA 8082	7-9-11	7-12-11	
Aroclor 1242	ND	0.053	EPA 8082	7-9-11	7-12-11	
Aroclor 1248	ND	0.053	EPA 8082	7-9-11	7-12-11	
Aroclor 1254	ND	0.053	EPA 8082	7-9-11	7-12-11	
Aroclor 1260	ND	0.053	EPA 8082	7-9-11	7-12-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	59	42-123				

Date of Report: July 14, 2011
 Samples Submitted: June 22, 2011
 Laboratory Reference: 1106-187
 Project: 1005-001

**PCBs by EPA 8082
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0709S1					
Aroclor 1016	ND	0.050	EPA 8082	7-9-11	7-11-11	
Aroclor 1221	ND	0.050	EPA 8082	7-9-11	7-11-11	
Aroclor 1232	ND	0.050	EPA 8082	7-9-11	7-11-11	
Aroclor 1242	ND	0.050	EPA 8082	7-9-11	7-11-11	
Aroclor 1248	ND	0.050	EPA 8082	7-9-11	7-11-11	
Aroclor 1254	ND	0.050	EPA 8082	7-9-11	7-11-11	
Aroclor 1260	ND	0.050	EPA 8082	7-9-11	7-11-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
DCB	61		42-123			

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	07-044-01										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.294	0.260	0.500	0.500	ND	59	52	44-125	12	15	
<i>Surrogate:</i>											
DCB						63	54	42-123			

Date of Report: July 14, 2011
Samples Submitted: June 22, 2011
Laboratory Reference: 1106-187
Project: 1005-001

% MOISTURE

Date Analyzed: 6-23,27-30&7-1-11

Client ID	Lab ID	% Moisture
FAR12-2.5	06-187-01	21
FAR15-2.5	06-187-05	14
FAR15-11.0	06-187-07	8
FAR21-2.5	06-187-10	16
FAR21-6.0	06-187-11	19
FAR20-2.5	06-187-14	16
FAR20-5.0	06-187-15	20
FAR10-2.5	06-187-18	16
FAR10-6.0	06-187-19	23
FAR10-15.0	06-187-21	26
FAR9-2.5	06-187-22	14
FAR9-6.0	06-187-23	27
FAR7-2.5	06-187-26	5
FAR7-6.0	06-187-27	6
FAR13-2.5	06-187-30	9
FAR13-6.0	06-187-31	27
FAR5-0.5	06-187-35	39
FAR6-0.5	06-187-36	19



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



MVA OnSite Environmental Inc.

Phone: (425) 883-3881 • Fax: (425) 885-4603

Chain of Custody

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Day 3 Day

Standard (7 working days)
(TPH analysis 5 working days)

(other)

Laboratory Number:

06-187

Requested Analysis

Company: FARALLON
 Project Number: 1005-001
 Project Name: Former Rayover Mills
 Project Manager: TAO CLINE
 Sampled by: Ken Buntz

Lab ID Sample Identification

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8) MTC METALS 6/10/11/6020	TCLP Metals	HEM by 1664	% Moisture	
11	FAR21-6.0	6/21/11	755	S	4			⊗			●									⊗
12	FAR21-10.0		805	S	4															
13	FAR21-15.0		815	S	4															
14	FAR20-2.5		840	S	4			⊗			●									⊗
15	FAR20-5.0		850	S	4			⊗												⊗
14	FAR20-10.0		900	S	4															
17	FAR20-15.0		910	S	4															
18	FAR10-2.5		945	S	4			⊗												⊗
19	FAR10-6.0		955	S	4			⊗												⊗
20	FAR10-10.0		1005	S	4															⊗

Signature

Company

Date

Time

Comments/Special Instructions:

Relinquished by: Ken Buntz FARALLON 6/21/11 1455
 Received by: [Signature] Fedex 6/21/11 1645
 Relinquished by: [Signature] OESite Inc 6/22/11 1350
 Received by: [Signature]
 Relinquished by: [Signature]
 Received by: [Signature]
 Reviewed by/Date: [Signature]

Comments/Special Instructions:
 See page # 1
 Added 6/21/11 - D3 (STA)
 Added 7/1/11 - D8 (STA)

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report



MVA OnSite Environmental Inc.

Phone: (425) 889-3981 • Fax: (425) 885-4603

Chain of Custody

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Day 3 Day

Standard (7 working days)
(TPH analysis 5 working days)

(other)

Laboratory Number:

06-187

Requested Analysis

Company: **FARALLON**
 Project Number: **1005-001**
 Project Name: **Power RAYONIER MILLS**
 Project Manager: **TAD CLINE**
 Sampled by: **Ken Smith**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (6) MCA METALS 60100/6020	TCLP Metals	HEM by 1664	Pesticides 8081A	% Moisture	
21	FAR10-15.0	6/21/11	1015	S	4				●		●		●								
22	FAR9-2.5		1050	S	4				●		●										●
23	FAR9-6.0		1100	S	4			⊗			⊗										⊗
24	FAR9-10.0		1118	S	4																
25	FAR9-15.0		1130	S	4																
26	FAR7-2.5		1220	S	4																
27	FAR7-6.0		1230	S	4			⊗													⊗
28	FAR7-10.0		1240	S	4																
29	FAR7-15.0		1250	S	4																
30	FAR13-2.5		1350	S	4						⊗										⊗

Signature	Company	Date	Time	Comments/Special Instructions:
<i>Ken Smith</i>	FARALLON	6/21/11	1645	see page #1, Applied 6/29/11. DB (STA) Added 7/1/11 - DB (STA)
<i>[Signature]</i>	703 Feder	04/21/11	1645	
<i>[Signature]</i>	OnSite Env Control	06/21/11	1350	

Relinquished by	Received by	Relinquished by	Received by	Reviewed by/Date	Chromatograms with final report <input type="checkbox"/>
Relinquished by	Received by	Relinquished by	Received by	Reviewed by/Date	
Relinquished by	Received by	Relinquished by	Received by	Reviewed by/Date	
Relinquished by	Received by	Relinquished by	Received by	Reviewed by/Date	



Ma OnSite Environmental Inc.

Phone: (425) 885-3881 • Fax: (425) 885-4603

Chain of Custody

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Day 3 Day

Standard (7 working days)
(TPH analysis 5 working days)

(other)

Laboratory Number:

06-187

Requested Analysis

- NWTPH-HCID
- NWTPH-Gx/BTEX
- NWTPH-Dx
- Volatiles by 8260B
- Halogenated Volatiles by 8260B
- Semivolatiles by 8270D
- PAHs by 8270D / SIM
- PCBs by 8082
- Pesticides by 8081A
- Herbicides by 8151A
- Total BCRA Metals (8)
- MICA METALS 6010816020
- TCLP Metals
- HEM by 1664

% Moisture

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analysis	Comments/Special Instructions
31	FAR13-6.0	6/21/11	1405	S	4	<input checked="" type="checkbox"/> NWTPH-Dx	
32	FAR13-10.0		1415	S	4		
33	FAR13-15.0		1425	S	4		
34	FAR13-06211-6W		1445	M	11		
35	FAR5-0.5		1530	S	4		
36	FAR6-0.5		1545	S	4		
<hr/>							
	Signature	Company	Date	Time			
	Ken Smith	FARALON	6/21/11	1645			See page #1
	[Signature]	Fedex	06/21/11	1645			Added 6/21/11 - DB (STA)
	[Signature]	OnSite	6/22/11	1350			
	Received by						
	Relinquished by						
	Relinquished by						
	Received by						
	Relinquished by						
	Reviewed by/Date						Chromatograms with final report <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 8, 2011

Tad Cline
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1005-001
Laboratory Reference No. 1106-212

Dear Tad:

Enclosed are the analytical results and associated quality control data for samples submitted on June 24, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: July 8, 2011
Samples Submitted: June 24, 2011
Laboratory Reference: 1106-212
Project: 1005-001

Case Narrative

Samples were collected on June 22, 23, and 24, 2011 and received by the laboratory on June 24, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX and Volatiles EPA 8260B (soil) Analysis

Per EPA method 5035A, samples were received by the laboratory in pre-weighed 40 ml VOA vials preserved with either Methanol or Sodium Bisulfate.

Semivolatiles (water) EPA 8270D/SIM Analysis

The method blank MB0627W1 had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

The samples FAR1-062211-GW and FAR3-062211-GW were extracted 1 day out of holding time.

Semivolatiles (soil) EPA 8270D/SIM Analysis

Sample FAR11-2.5 had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR1-10.0					
Laboratory ID:	06-212-03					
Gasoline	ND	7.7	NWTPH-Gx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	88	68-124				
Client ID:	FAR2-5.5					
Laboratory ID:	06-212-07					
Gasoline	ND	6.2	NWTPH-Gx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	82	68-124				
Client ID:	FAR3-12.5					
Laboratory ID:	06-212-13					
Benzene	ND	0.020	EPA 8021	6-27-11	6-27-11	
Toluene	ND	0.070	EPA 8021	6-27-11	6-27-11	
Ethyl Benzene	ND	0.070	EPA 8021	6-27-11	6-27-11	
m,p-Xylene	ND	0.070	EPA 8021	6-27-11	6-27-11	
o-Xylene	ND	0.070	EPA 8021	6-27-11	6-27-11	
Gasoline	ND	7.0	NWTPH-Gx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	68-124				
Client ID:	FAR4-4.0					
Laboratory ID:	06-212-17					
Benzene	ND	0.020	EPA 8021	6-27-11	6-27-11	
Toluene	ND	0.061	EPA 8021	6-27-11	6-27-11	
Ethyl Benzene	ND	0.061	EPA 8021	6-27-11	6-27-11	
m,p-Xylene	ND	0.061	EPA 8021	6-27-11	6-27-11	
o-Xylene	ND	0.061	EPA 8021	6-27-11	6-27-11	
Gasoline	ND	6.1	NWTPH-Gx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	84	68-124				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR8-5.0					
Laboratory ID:	06-212-20					
Benzene	ND	0.020	EPA 8021	6-27-11	6-27-11	
Toluene	ND	0.088	EPA 8021	6-27-11	6-27-11	
Ethyl Benzene	ND	0.088	EPA 8021	6-27-11	6-27-11	
m,p-Xylene	ND	0.088	EPA 8021	6-27-11	6-27-11	
o-Xylene	ND	0.088	EPA 8021	6-27-11	6-27-11	
Gasoline	ND	8.8	NWTPH-Gx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	85	68-124				
Client ID:	FAR14-3.5					
Laboratory ID:	06-212-22					
Benzene	ND	0.020	EPA 8021	6-27-11	6-27-11	
Toluene	ND	0.065	EPA 8021	6-27-11	6-27-11	
Ethyl Benzene	ND	0.065	EPA 8021	6-27-11	6-27-11	
m,p-Xylene	ND	0.065	EPA 8021	6-27-11	6-27-11	
o-Xylene	ND	0.065	EPA 8021	6-27-11	6-27-11	
Gasoline	ND	6.5	NWTPH-Gx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	84	68-124				
Client ID:	FAR17-2.5					
Laboratory ID:	06-212-25					
Gasoline	ND	6.9	NWTPH-Gx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	68-124				
Client ID:	FAR18-0.5					
Laboratory ID:	06-212-29					
Benzene	ND	0.020	EPA 8021	6-27-11	6-28-11	
Toluene	0.17	0.092	EPA 8021	6-27-11	6-28-11	
Ethyl Benzene	ND	0.092	EPA 8021	6-27-11	6-28-11	
m,p-Xylene	ND	0.092	EPA 8021	6-27-11	6-28-11	
o-Xylene	ND	0.092	EPA 8021	6-27-11	6-28-11	
Gasoline	ND	9.2	NWTPH-Gx	6-27-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	81	68-124				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR19-0.5					
Laboratory ID:	06-212-30					
Benzene	0.44	0.021	EPA 8021	6-27-11	6-28-11	
Toluene	ND	0.10	EPA 8021	6-27-11	6-28-11	
Ethyl Benzene	0.11	0.10	EPA 8021	6-27-11	6-28-11	
m,p-Xylene	0.36	0.10	EPA 8021	6-27-11	6-28-11	
o-Xylene	ND	0.10	EPA 8021	6-27-11	6-28-11	
Gasoline	ND	10	NWTPH-Gx	6-27-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	82	68-124				
Client ID:	FAR16-2.5					
Laboratory ID:	06-212-31					
Benzene	ND	0.020	EPA 8021	6-27-11	6-28-11	
Toluene	ND	0.057	EPA 8021	6-27-11	6-28-11	
Ethyl Benzene	ND	0.057	EPA 8021	6-27-11	6-29-11	
m,p-Xylene	ND	0.057	EPA 8021	6-27-11	6-29-11	
o-Xylene	ND	0.057	EPA 8021	6-27-11	6-28-11	
Gasoline	ND	5.7	NWTPH-Gx	6-27-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	82	68-124				
Client ID:	FAR11-2.5					
Laboratory ID:	06-212-35					
Gasoline	ND	5.8	NWTPH-Gx	6-27-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	82	68-124				
Client ID:	FAR23-2.5					
Laboratory ID:	06-212-39					
Gasoline	ND	4.7	NWTPH-Gx	6-27-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	82	68-124				
Client ID:	FAR22-2.5					
Laboratory ID:	06-212-43					
Gasoline	ND	7.5	NWTPH-Gx	6-27-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	85	68-124				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627S2					
Benzene	ND	0.020	EPA 8021	6-27-11	6-27-11	
Toluene	ND	0.050	EPA 8021	6-27-11	6-27-11	
Ethyl Benzene	ND	0.050	EPA 8021	6-27-11	6-27-11	
m,p-Xylene	ND	0.050	EPA 8021	6-27-11	6-27-11	
o-Xylene	ND	0.050	EPA 8021	6-27-11	6-27-11	
Gasoline	ND	5.0	NWTPH-Gx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	82	68-124				

Laboratory ID:	MB0627S3					
Gasoline	ND	5.0	NWTPH-Gx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	81	68-124				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-212-07							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				82	83	68-124		

Laboratory ID:	06-212-39							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				82	82	68-124		

SPIKE BLANKS

Laboratory ID:	SB0627S2								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.841	0.820	1.00	1.00	84	82	77-114	3	9
Toluene	0.894	0.877	1.00	1.00	89	88	80-115	2	9
Ethyl Benzene	0.912	0.900	1.00	1.00	91	90	80-118	1	9
m,p-Xylene	0.923	0.931	1.00	1.00	92	93	82-118	1	9
o-Xylene	0.909	0.910	1.00	1.00	91	91	82-116	0	9
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					81	78	68-124		

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: FAR1-062211-GW						
Laboratory ID: 06-212-05						
Gasoline	ND	100	NWTPH-Gx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	83	73-121				
Client ID: FAR2-062211-GW						
Laboratory ID: 06-212-09						
Gasoline	ND	100	NWTPH-Gx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	83	73-121				
Client ID: FAR3-062211-GW						
Laboratory ID: 06-212-15						
Benzene	ND	1.0	EPA 8021	6-27-11	6-27-11	
Toluene	ND	1.0	EPA 8021	6-27-11	6-27-11	
Ethyl Benzene	ND	1.0	EPA 8021	6-27-11	6-27-11	
m,p-Xylene	ND	1.0	EPA 8021	6-27-11	6-27-11	
o-Xylene	ND	1.0	EPA 8021	6-27-11	6-27-11	
Gasoline	ND	100	NWTPH-Gx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	85	73-121				
Client ID: FAR14-062211-GW						
Laboratory ID: 06-212-24						
Benzene	ND	1.0	EPA 8021	6-27-11	6-27-11	
Toluene	ND	1.0	EPA 8021	6-27-11	6-27-11	
Ethyl Benzene	ND	1.0	EPA 8021	6-27-11	6-27-11	
m,p-Xylene	ND	1.0	EPA 8021	6-27-11	6-27-11	
o-Xylene	ND	1.0	EPA 8021	6-27-11	6-27-11	
Gasoline	ND	100	NWTPH-Gx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	83	73-121				
Client ID: FAR17-062311-GW						
Laboratory ID: 06-212-28						
Gasoline	ND	100	NWTPH-Gx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	82	73-121				

Date of Report: July 8, 2011
Samples Submitted: June 24, 2011
Laboratory Reference: 1106-212
Project: 1005-001

NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR22-062411-GW					
Laboratory ID:	06-212-46					
Gasoline	ND	100	NWTPH-Gx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	82	73-121				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W1					
Benzene	ND	1.0	EPA 8021	6-27-11	6-27-11	
Toluene	ND	1.0	EPA 8021	6-27-11	6-27-11	
Ethyl Benzene	ND	1.0	EPA 8021	6-27-11	6-27-11	
m,p-Xylene	ND	1.0	EPA 8021	6-27-11	6-27-11	
o-Xylene	ND	1.0	EPA 8021	6-27-11	6-27-11	
Gasoline	ND	100	NWTPH-Gx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	82	73-121				

Laboratory ID:	MB0628W1					
Benzene	ND	1.0	EPA 8021	6-28-11	6-28-11	
Toluene	ND	1.0	EPA 8021	6-28-11	6-28-11	
Ethyl Benzene	ND	1.0	EPA 8021	6-28-11	6-28-11	
m,p-Xylene	ND	1.0	EPA 8021	6-28-11	6-28-11	
o-Xylene	ND	1.0	EPA 8021	6-28-11	6-28-11	
Gasoline	ND	100	NWTPH-Gx	6-28-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	78	73-121				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-166-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	2510	2360	NA	NA	NA	NA	6	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				80	79	73-121		

MATRIX SPIKES

Laboratory ID:	06-209-01									
	MS	MSD	MS	MSD		MS	MSD			
Benzene	44.4	42.4	50.0	50.0	ND	89	85	82-120	5	8
Toluene	45.5	44.3	50.0	50.0	ND	91	89	84-119	3	8
Ethyl Benzene	44.9	45.6	50.0	50.0	ND	90	91	84-122	2	9
m,p-Xylene	44.9	45.3	50.0	50.0	ND	90	91	85-121	1	9
o-Xylene	44.9	45.3	50.0	50.0	ND	90	91	84-121	1	9
<i>Surrogate:</i>										
<i>Fluorobenzene</i>						85	79	73-121		

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

NWTPH-Dx
 (with acid/silica gel clean-up)

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR1-10.0					
Laboratory ID:	06-212-03					
Diesel Range Organics	ND	30	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil Range Organics	ND	60	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	118	50-150				
Client ID:	FAR2-5.5					
Laboratory ID:	06-212-07					
Diesel Range Organics	ND	26	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil Range Organics	ND	53	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	127	50-150				
Client ID:	FAR3-12.5					
Laboratory ID:	06-212-13					
Diesel Range Organics	ND	31	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil Range Organics	ND	61	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	115	50-150				
Client ID:	FAR4-4.0					
Laboratory ID:	06-212-17					
Diesel Range Organics	39	30	NWTPH-Dx	6-27-11	6-27-11	N
Lube Oil	180	60	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	117	50-150				
Client ID:	FAR8-5.0					
Laboratory ID:	06-212-20					
Diesel Range Organics	51	29	NWTPH-Dx	6-27-11	6-27-11	N
Lube Oil	290	58	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	117	50-150				
Client ID:	FAR14-3.5					
Laboratory ID:	06-212-22					
Diesel Range Organics	ND	27	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil Range Organics	ND	53	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	136	50-150				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

NWTPH-Dx
(with acid/silica gel clean-up)

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR17-2.5					
Laboratory ID:	06-212-25					
Diesel Range Organics	ND	32	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil Range Organics	ND	63	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	117	50-150				

Client ID:	FAR18-0.5					
Laboratory ID:	06-212-29					
Diesel Range Organics	230	170	NWTPH-Dx	6-27-11	6-27-11	N
Lube Oil	2700	340	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	121	50-150				

Client ID:	FAR19-0.5					
Laboratory ID:	06-212-30					
Diesel Range Organics	ND	150	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil	1600	300	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	126	50-150				

Client ID:	FAR16-2.5					
Laboratory ID:	06-212-31					
Diesel Range Organics	ND	27	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil Range Organics	ND	54	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	126	50-150				

Client ID:	FAR11-2.5					
Laboratory ID:	06-212-35					
Diesel Range Organics	130	27	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil	110	55	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	119	50-150				

Client ID:	FAR23-2.5					
Laboratory ID:	06-212-39					
Diesel Range Organics	ND	26	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil Range Organics	ND	53	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	132	50-150				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

NWTPH-Dx
(with acid/silica gel clean-up)

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR22-2.5					
Laboratory ID:	06-212-43					
Diesel Range Organics	ND	31	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil Range Organics	ND	63	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>124</i>	<i>50-150</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**NWTPH-Dx
 QUALITY CONTROL
 (with acid/silica gel clean-up)**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627S1					
Diesel Range Organics	ND	25	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil Range Organics	ND	50	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	124	50-150				

Analyte	Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE						
Laboratory ID:	06-212-13					
	ORIG	DUP				
Diesel Range Organics	ND	ND			NA	NA
Lube Oil Range Organics	ND	ND			NA	NA
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			115 126	50-150		
Laboratory ID:	06-212-20					
	ORIG	DUP				
Diesel Range Organics	43.9	37.9			15	NA
Lube Oil	251	184			31	NA
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			117 121	50-150		

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

NWTPH-Dx
 (with acid/silica gel clean-up)

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR1-062211-GW					
Laboratory ID:	06-212-05					
Diesel Range Organics	ND	0.27	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil Range Organics	ND	0.43	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				

Client ID:	FAR2-062211-GW					
Laboratory ID:	06-212-09					
Diesel Range Organics	ND	0.26	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Client ID:	FAR3-062211-GW					
Laboratory ID:	06-212-15					
Diesel Range Organics	ND	0.26	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				

Client ID:	FAR14-062211-GW					
Laboratory ID:	06-212-24					
Diesel Range Organics	ND	0.26	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				

Client ID:	FAR17-062311-GW					
Laboratory ID:	06-212-28					
Diesel Range Organics	ND	0.26	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	87	50-150				

Client ID:	FAR22-062411-GW					
Laboratory ID:	06-212-46					
Diesel Range Organics	ND	0.27	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil Range Organics	ND	0.43	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	78	50-150				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**NWTPH-Dx
 QUALITY CONTROL
 (with acid/silica gel clean-up)**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-27-11	6-27-11	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>114</i>	<i>50-150</i>				

Analyte	Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE						
Laboratory ID:	06-212-28					
	ORIG	DUP				
Diesel Range Organics	ND	ND		NA	NA	
Lube Oil Range Organics	ND	ND		NA	NA	
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			87 99	50-150		

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
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 Project: 1005-001

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR1-10.0					
Laboratory ID:	06-212-03					
Dichlorodifluoromethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Chloromethane	ND	0.0066	EPA 8260	6-27-11	6-27-11	
Vinyl Chloride	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Bromomethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Chloroethane	ND	0.0066	EPA 8260	6-27-11	6-27-11	
Trichlorofluoromethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,1-Dichloroethene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Acetone	0.028	0.0066	EPA 8260	6-27-11	6-27-11	
Iodomethane	ND	0.0066	EPA 8260	6-27-11	6-27-11	
Carbon Disulfide	ND	0.0066	EPA 8260	6-27-11	6-27-11	
Methylene Chloride	ND	0.0066	EPA 8260	6-27-11	6-27-11	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Methyl t-Butyl Ether	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,1-Dichloroethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Vinyl Acetate	ND	0.0066	EPA 8260	6-27-11	6-27-11	
2,2-Dichloropropane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
2-Butanone	ND	0.0066	EPA 8260	6-27-11	6-27-11	
Bromochloromethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Chloroform	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Carbon Tetrachloride	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,1-Dichloropropene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Benzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,2-Dichloroethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Trichloroethene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,2-Dichloropropane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Dibromomethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Bromodichloromethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260	6-27-11	6-27-11	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Methyl Isobutyl Ketone	ND	0.0066	EPA 8260	6-27-11	6-27-11	
Toluene	ND	0.0066	EPA 8260	6-27-11	6-27-11	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260	6-27-11	6-27-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
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 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR1-10.0					
Laboratory ID:	06-212-03					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Tetrachloroethene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,3-Dichloropropane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
2-Hexanone	ND	0.0066	EPA 8260	6-27-11	6-27-11	
Dibromochloromethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,2-Dibromoethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Chlorobenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Ethylbenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
m,p-Xylene	ND	0.0027	EPA 8260	6-27-11	6-27-11	
o-Xylene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Styrene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Bromoform	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Isopropylbenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Bromobenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
n-Propylbenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
2-Chlorotoluene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
4-Chlorotoluene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,3,5-Trimethylbenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
tert-Butylbenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,2,4-Trimethylbenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
sec-Butylbenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
p-Isopropyltoluene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
n-Butylbenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,2-Dibromo-3-chloropropane	ND	0.0066	EPA 8260	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Hexachlorobutadiene	ND	0.0066	EPA 8260	6-27-11	6-27-11	
Naphthalene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>82</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>84</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>55-121</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
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 Project: 1005-001

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR2-5.5					
Laboratory ID:	06-212-07					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Chloromethane	ND	0.0052	EPA 8260	6-27-11	6-27-11	
Vinyl Chloride	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Bromomethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Chloroethane	ND	0.0052	EPA 8260	6-27-11	6-27-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Acetone	0.039	0.0052	EPA 8260	6-27-11	6-27-11	
Iodomethane	ND	0.0052	EPA 8260	6-27-11	6-27-11	
Carbon Disulfide	ND	0.0052	EPA 8260	6-27-11	6-27-11	
Methylene Chloride	ND	0.0052	EPA 8260	6-27-11	6-27-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Vinyl Acetate	ND	0.0052	EPA 8260	6-27-11	6-27-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
2-Butanone	ND	0.0052	EPA 8260	6-27-11	6-27-11	
Bromochloromethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Chloroform	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Benzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Trichloroethene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Dibromomethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Bromodichloromethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260	6-27-11	6-27-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Methyl Isobutyl Ketone	ND	0.0052	EPA 8260	6-27-11	6-27-11	
Toluene	ND	0.0052	EPA 8260	6-27-11	6-27-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	6-27-11	6-27-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR2-5.5					
Laboratory ID:	06-212-07					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Tetrachloroethene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
2-Hexanone	ND	0.0052	EPA 8260	6-27-11	6-27-11	
Dibromochloromethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Chlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Ethylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
m,p-Xylene	ND	0.0021	EPA 8260	6-27-11	6-27-11	
o-Xylene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Styrene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Bromoform	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Isopropylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Bromobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
n-Propylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
tert-Butylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
sec-Butylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
p-Isopropyltoluene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
n-Butylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Hexachlorobutadiene	ND	0.0052	EPA 8260	6-27-11	6-27-11	
Naphthalene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>73</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>76</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>77</i>	<i>55-121</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR17-2.5					
Laboratory ID:	06-212-25					
Dichlorodifluoromethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Chloromethane	ND	0.0064	EPA 8260	6-27-11	6-27-11	
Vinyl Chloride	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Bromomethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Chloroethane	ND	0.0064	EPA 8260	6-27-11	6-27-11	
Trichlorofluoromethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,1-Dichloroethene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Acetone	0.061	0.0064	EPA 8260	6-27-11	6-27-11	
Iodomethane	ND	0.0064	EPA 8260	6-27-11	6-27-11	
Carbon Disulfide	ND	0.0064	EPA 8260	6-27-11	6-27-11	
Methylene Chloride	ND	0.0064	EPA 8260	6-27-11	6-27-11	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Methyl t-Butyl Ether	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,1-Dichloroethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Vinyl Acetate	ND	0.0064	EPA 8260	6-27-11	6-27-11	
2,2-Dichloropropane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
2-Butanone	0.0082	0.0064	EPA 8260	6-27-11	6-27-11	
Bromochloromethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Chloroform	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Carbon Tetrachloride	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,1-Dichloropropene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Benzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,2-Dichloroethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Trichloroethene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,2-Dichloropropane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Dibromomethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Bromodichloromethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260	6-27-11	6-27-11	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Methyl Isobutyl Ketone	ND	0.0064	EPA 8260	6-27-11	6-27-11	
Toluene	ND	0.0064	EPA 8260	6-27-11	6-27-11	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260	6-27-11	6-27-11	

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 Samples Submitted: June 24, 2011
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 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR17-2.5					
Laboratory ID:	06-212-25					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Tetrachloroethene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,3-Dichloropropane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
2-Hexanone	ND	0.0064	EPA 8260	6-27-11	6-27-11	
Dibromochloromethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,2-Dibromoethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Chlorobenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Ethylbenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
m,p-Xylene	ND	0.0026	EPA 8260	6-27-11	6-27-11	
o-Xylene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Styrene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Bromoform	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Isopropylbenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Bromobenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260	6-27-11	6-27-11	
n-Propylbenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
2-Chlorotoluene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
4-Chlorotoluene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,3,5-Trimethylbenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
tert-Butylbenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,2,4-Trimethylbenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
sec-Butylbenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
p-Isopropyltoluene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
n-Butylbenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,2-Dibromo-3-chloropropane	ND	0.0064	EPA 8260	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
Hexachlorobutadiene	ND	0.0064	EPA 8260	6-27-11	6-27-11	
Naphthalene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>77</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>77</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>77</i>	<i>55-121</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR11-2.5					
Laboratory ID:	06-212-35					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Chloromethane	ND	0.0061	EPA 8260	6-27-11	6-27-11	
Vinyl Chloride	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Bromomethane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Chloroethane	ND	0.0061	EPA 8260	6-27-11	6-27-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Acetone	0.073	0.0061	EPA 8260	6-27-11	6-27-11	
Iodomethane	ND	0.0061	EPA 8260	6-27-11	6-27-11	
Carbon Disulfide	ND	0.0061	EPA 8260	6-27-11	6-27-11	
Methylene Chloride	ND	0.0061	EPA 8260	6-27-11	6-27-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Vinyl Acetate	ND	0.0061	EPA 8260	6-27-11	6-27-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
2-Butanone	0.0077	0.0061	EPA 8260	6-27-11	6-27-11	
Bromochloromethane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Chloroform	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Benzene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,2-Dichloroethane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Trichloroethene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Dibromomethane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Bromodichloromethane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260	6-27-11	6-27-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Methyl Isobutyl Ketone	ND	0.0061	EPA 8260	6-27-11	6-27-11	
Toluene	ND	0.0061	EPA 8260	6-27-11	6-27-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	6-27-11	6-27-11	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR11-2.5					
Laboratory ID:	06-212-35					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Tetrachloroethene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
2-Hexanone	ND	0.0061	EPA 8260	6-27-11	6-27-11	
Dibromochloromethane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Chlorobenzene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Ethylbenzene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
m,p-Xylene	ND	0.0024	EPA 8260	6-27-11	6-27-11	
o-Xylene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Styrene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Bromoform	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Isopropylbenzene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Bromobenzene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260	6-27-11	6-27-11	
n-Propylbenzene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
2-Chlorotoluene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
4-Chlorotoluene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
tert-Butylbenzene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
sec-Butylbenzene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
p-Isopropyltoluene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
n-Butylbenzene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
Hexachlorobutadiene	ND	0.0061	EPA 8260	6-27-11	6-27-11	
Naphthalene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>75</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>76</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>71</i>	<i>55-121</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR23-2.5					
Laboratory ID:	06-212-39					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Chloromethane	ND	0.0051	EPA 8260	6-27-11	6-27-11	
Vinyl Chloride	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Bromomethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Chloroethane	ND	0.0051	EPA 8260	6-27-11	6-27-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Acetone	0.011	0.0051	EPA 8260	6-27-11	6-27-11	
Iodomethane	ND	0.0051	EPA 8260	6-27-11	6-27-11	
Carbon Disulfide	ND	0.0051	EPA 8260	6-27-11	6-27-11	
Methylene Chloride	ND	0.0051	EPA 8260	6-27-11	6-27-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Vinyl Acetate	ND	0.0051	EPA 8260	6-27-11	6-27-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
2-Butanone	ND	0.0051	EPA 8260	6-27-11	6-27-11	
Bromochloromethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Chloroform	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Benzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Trichloroethene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Dibromomethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Bromodichloromethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260	6-27-11	6-27-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Methyl Isobutyl Ketone	ND	0.0051	EPA 8260	6-27-11	6-27-11	
Toluene	ND	0.0051	EPA 8260	6-27-11	6-27-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	6-27-11	6-27-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR23-2.5					
Laboratory ID:	06-212-39					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Tetrachloroethene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
2-Hexanone	ND	0.0051	EPA 8260	6-27-11	6-27-11	
Dibromochloromethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Chlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Ethylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
m,p-Xylene	ND	0.0021	EPA 8260	6-27-11	6-27-11	
o-Xylene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Styrene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Bromoform	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Isopropylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Bromobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
n-Propylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
tert-Butylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
sec-Butylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
p-Isopropyltoluene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
n-Butylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Hexachlorobutadiene	ND	0.0051	EPA 8260	6-27-11	6-27-11	
Naphthalene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>75</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>79</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>82</i>	<i>55-121</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

VOLATILES by EPA 8260B
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR22-2.5					
Laboratory ID:	06-212-43					
Dichlorodifluoromethane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Chloromethane	ND	0.0089	EPA 8260	6-27-11	6-27-11	
Vinyl Chloride	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Bromomethane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Chloroethane	ND	0.0089	EPA 8260	6-27-11	6-27-11	
Trichlorofluoromethane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,1-Dichloroethene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Acetone	0.096	0.0089	EPA 8260	6-27-11	6-27-11	
Iodomethane	ND	0.0089	EPA 8260	6-27-11	6-27-11	
Carbon Disulfide	ND	0.0089	EPA 8260	6-27-11	6-27-11	
Methylene Chloride	ND	0.0089	EPA 8260	6-27-11	6-27-11	
(trans) 1,2-Dichloroethene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Methyl t-Butyl Ether	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,1-Dichloroethane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Vinyl Acetate	ND	0.0089	EPA 8260	6-27-11	6-27-11	
2,2-Dichloropropane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
(cis) 1,2-Dichloroethene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
2-Butanone	0.017	0.0089	EPA 8260	6-27-11	6-27-11	
Bromochloromethane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Chloroform	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,1,1-Trichloroethane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Carbon Tetrachloride	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,1-Dichloropropene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Benzene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,2-Dichloroethane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Trichloroethene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,2-Dichloropropane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Dibromomethane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Bromodichloromethane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
2-Chloroethyl Vinyl Ether	ND	0.0089	EPA 8260	6-27-11	6-27-11	
(cis) 1,3-Dichloropropene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Methyl Isobutyl Ketone	ND	0.0089	EPA 8260	6-27-11	6-27-11	
Toluene	ND	0.0089	EPA 8260	6-27-11	6-27-11	
(trans) 1,3-Dichloropropene	ND	0.0018	EPA 8260	6-27-11	6-27-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR22-2.5					
Laboratory ID:	06-212-43					
1,1,2-Trichloroethane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Tetrachloroethene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,3-Dichloropropane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
2-Hexanone	ND	0.0089	EPA 8260	6-27-11	6-27-11	
Dibromochloromethane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,2-Dibromoethane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Chlorobenzene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,1,1,2-Tetrachloroethane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Ethylbenzene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
m,p-Xylene	ND	0.0035	EPA 8260	6-27-11	6-27-11	
o-Xylene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Styrene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Bromoform	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Isopropylbenzene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Bromobenzene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,1,2,2-Tetrachloroethane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,2,3-Trichloropropane	ND	0.0018	EPA 8260	6-27-11	6-27-11	
n-Propylbenzene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
2-Chlorotoluene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
4-Chlorotoluene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,3,5-Trimethylbenzene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
tert-Butylbenzene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,2,4-Trimethylbenzene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
sec-Butylbenzene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
p-Isopropyltoluene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
n-Butylbenzene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,2-Dibromo-3-chloropropane	ND	0.0089	EPA 8260	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
Hexachlorobutadiene	ND	0.0089	EPA 8260	6-27-11	6-27-11	
Naphthalene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
1,2,3-Trichlorobenzene	ND	0.0018	EPA 8260	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>74</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>73</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>65</i>	<i>55-121</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0627S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Chloromethane	ND	0.0050	EPA 8260	6-27-11	6-27-11	
Vinyl Chloride	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Bromomethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Chloroethane	ND	0.0050	EPA 8260	6-27-11	6-27-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Acetone	ND	0.0050	EPA 8260	6-27-11	6-27-11	
Iodomethane	ND	0.0050	EPA 8260	6-27-11	6-27-11	
Carbon Disulfide	ND	0.0050	EPA 8260	6-27-11	6-27-11	
Methylene Chloride	ND	0.0050	EPA 8260	6-27-11	6-27-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Vinyl Acetate	ND	0.0050	EPA 8260	6-27-11	6-27-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
2-Butanone	ND	0.0050	EPA 8260	6-27-11	6-27-11	
Bromochloromethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Chloroform	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Benzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Trichloroethene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Dibromomethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Bromodichloromethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	6-27-11	6-27-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260	6-27-11	6-27-11	
Toluene	ND	0.0050	EPA 8260	6-27-11	6-27-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	6-27-11	6-27-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0627S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Tetrachloroethene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
2-Hexanone	ND	0.0050	EPA 8260	6-27-11	6-27-11	
Dibromochloromethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Chlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Ethylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
m,p-Xylene	ND	0.0020	EPA 8260	6-27-11	6-27-11	
o-Xylene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Styrene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Bromoform	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Isopropylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Bromobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	6-27-11	6-27-11	
n-Propylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
tert-Butylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
sec-Butylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
p-Isopropyltoluene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
n-Butylbenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	6-27-11	6-27-11	
Naphthalene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>71</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>77</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>78</i>	<i>55-121</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Limit	Flags
					Recovery	Limits	RPD				
SPIKE BLANKS											
Laboratory ID:	SB0627S1										
	SB	SBD	SB	SBD	SB	SBD					
1,1-Dichloroethene	0.0572	0.0553	0.0500	0.0500	114	111	70-130	3		19	
Benzene	0.0460	0.0454	0.0500	0.0500	92	91	70-125	1		15	
Trichloroethene	0.0499	0.0487	0.0500	0.0500	100	97	70-122	2		14	
Toluene	0.0488	0.0476	0.0500	0.0500	98	95	73-120	2		16	
Chlorobenzene	0.0494	0.0483	0.0500	0.0500	99	97	74-109	2		12	
<i>Surrogate:</i>											
Dibromofluoromethane					67	70	63-127				
Toluene-d8					75	74	65-129				
4-Bromofluorobenzene					79	76	55-121				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

VOLATILES by EPA 8260B
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR1-062211-GW					
Laboratory ID:	06-212-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Acetone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	2.0	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Toluene	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR1-062211-GW					
Laboratory ID:	06-212-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.40	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	1.0	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>85</i>	<i>68-110</i>				
<i>Toluene-d8</i>	<i>90</i>	<i>73-110</i>				
<i>4-Bromofluorobenzene</i>	<i>82</i>	<i>65-110</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
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 Project: 1005-001

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR2-062211-GW					
Laboratory ID:	06-212-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Acetone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	2.0	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Toluene	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	

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 Samples Submitted: June 24, 2011
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 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR2-062211-GW					
Laboratory ID:	06-212-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.40	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	1.0	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>89</i>	<i>68-110</i>				
<i>Toluene-d8</i>	<i>90</i>	<i>73-110</i>				
<i>4-Bromofluorobenzene</i>	<i>82</i>	<i>65-110</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR17-062311-GW					
Laboratory ID:	06-212-28					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Acetone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	2.0	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Toluene	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR17-062311-GW					
Laboratory ID:	06-212-28					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.40	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	1.0	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>89</i>	<i>68-110</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>73-110</i>				
<i>4-Bromofluorobenzene</i>	<i>80</i>	<i>65-110</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR22-062411-GW					
Laboratory ID:	06-212-46					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Acetone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	2.0	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Toluene	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

VOLATILES by EPA 8260B
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR22-062411-GW					
Laboratory ID:	06-212-46					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.40	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	1.0	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>68-110</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>73-110</i>				
<i>4-Bromofluorobenzene</i>	<i>81</i>	<i>65-110</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Acetone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	2.0	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Toluene	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.40	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	1.0	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>68-110</i>				
<i>Toluene-d8</i>	<i>92</i>	<i>73-110</i>				
<i>4-Bromofluorobenzene</i>	<i>82</i>	<i>65-110</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0701W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.9	11.4	10.0	10.0	109	114	70-130	4	11	
Benzene	9.77	10.1	10.0	10.0	98	101	75-123	3	8	
Trichloroethene	10.2	10.0	10.0	10.0	102	100	80-113	2	9	
Toluene	10.1	10.3	10.0	10.0	101	103	80-113	2	8	
Chlorobenzene	10.1	10.2	10.0	10.0	101	102	80-111	1	8	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					82	88	68-110			
<i>Toluene-d8</i>					90	91	73-110			
<i>4-Bromofluorobenzene</i>					82	82	65-110			

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR2-5.5					
Laboratory ID:	06-212-07					
n-Nitrosodimethylamine	ND	0.035	EPA 8270	6-27-11	6-29-11	
Pyridine	ND	0.35	EPA 8270	6-27-11	6-29-11	
Phenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
Aniline	ND	0.035	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethyl)ether	ND	0.035	EPA 8270	6-27-11	6-29-11	
2-Chlorophenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
1,3-Dichlorobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
1,4-Dichlorobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
Benzyl alcohol	ND	0.035	EPA 8270	6-27-11	6-29-11	
1,2-Dichlorobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
2-Methylphenol (o-Cresol)	ND	0.035	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroisopropyl)ether	ND	0.035	EPA 8270	6-27-11	6-29-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.035	EPA 8270	6-27-11	6-29-11	
n-Nitroso-di-n-propylamine	ND	0.035	EPA 8270	6-27-11	6-29-11	
Hexachloroethane	ND	0.035	EPA 8270	6-27-11	6-29-11	
Nitrobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
Isophorone	ND	0.035	EPA 8270	6-27-11	6-29-11	
2-Nitrophenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,4-Dimethylphenol	ND	0.35	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethoxy)methane	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,4-Dichlorophenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
1,2,4-Trichlorobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
Naphthalene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
4-Chloroaniline	ND	0.035	EPA 8270	6-27-11	6-29-11	
Hexachlorobutadiene	ND	0.035	EPA 8270	6-27-11	6-29-11	
4-Chloro-3-methylphenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
2-Methylnaphthalene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
1-Methylnaphthalene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Hexachlorocyclopentadiene	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,4,6-Trichlorophenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,3-Dichloroaniline	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,4,5-Trichlorophenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
2-Chloronaphthalene	ND	0.035	EPA 8270	6-27-11	6-29-11	
2-Nitroaniline	ND	0.035	EPA 8270	6-27-11	6-29-11	
1,4-Dinitrobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
Dimethylphthalate	ND	0.035	EPA 8270	6-27-11	6-29-11	
1,3-Dinitrobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,6-Dinitrotoluene	ND	0.035	EPA 8270	6-27-11	6-29-11	
1,2-Dinitrobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
Acenaphthylene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
3-Nitroaniline	ND	0.035	EPA 8270	6-27-11	6-29-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR2-5.5					
Laboratory ID:	06-212-07					
2,4-Dinitrophenol	ND	0.18	EPA 8270	6-27-11	6-29-11	
Acenaphthene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
4-Nitrophenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,4-Dinitrotoluene	ND	0.035	EPA 8270	6-27-11	6-29-11	
Dibenzofuran	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,3,5,6-Tetrachlorophenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,3,4,6-Tetrachlorophenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
Diethylphthalate	ND	0.18	EPA 8270	6-27-11	6-29-11	
4-Chlorophenyl-phenylether	ND	0.035	EPA 8270	6-27-11	6-29-11	
4-Nitroaniline	ND	0.035	EPA 8270	6-27-11	6-29-11	
Fluorene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270	6-27-11	6-29-11	
n-Nitrosodiphenylamine	ND	0.035	EPA 8270	6-27-11	6-29-11	
1,2-Diphenylhydrazine	ND	0.035	EPA 8270	6-27-11	6-29-11	
4-Bromophenyl-phenylether	ND	0.035	EPA 8270	6-27-11	6-29-11	
Hexachlorobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
Pentachlorophenol	ND	0.18	EPA 8270	6-27-11	6-29-11	
Phenanthrene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Anthracene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Carbazole	ND	0.035	EPA 8270	6-27-11	6-29-11	
Di-n-butylphthalate	ND	0.35	EPA 8270	6-27-11	6-29-11	
Fluoranthene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Benzidine	ND	0.35	EPA 8270	6-27-11	6-29-11	
Pyrene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Butylbenzylphthalate	ND	0.35	EPA 8270	6-27-11	6-29-11	
bis-2-Ethylhexyladipate	ND	0.035	EPA 8270	6-27-11	6-29-11	
3,3'-Dichlorobenzidine	ND	0.35	EPA 8270	6-27-11	6-29-11	
Benzo[a]anthracene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Chrysene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
bis(2-Ethylhexyl)phthalate	ND	0.035	EPA 8270	6-27-11	6-29-11	
Di-n-octylphthalate	ND	0.035	EPA 8270	6-27-11	6-29-11	
Benzo[b]fluoranthene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Benzo(j,k)fluoranthene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Benzo[a]pyrene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Indeno[1,2,3-cd]pyrene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Dibenz[a,h]anthracene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Benzo[g,h,i]perylene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>44</i>	<i>30 - 97</i>				
<i>Phenol-d6</i>	<i>47</i>	<i>40 - 104</i>				
<i>Nitrobenzene-d5</i>	<i>47</i>	<i>35 - 102</i>				
<i>2-Fluorobiphenyl</i>	<i>58</i>	<i>44 - 97</i>				
<i>2,4,6-Tribromophenol</i>	<i>67</i>	<i>41 - 110</i>				
<i>Terphenyl-d14</i>	<i>71</i>	<i>53 - 107</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR4-4.0					
Laboratory ID:	06-212-17					
n-Nitrosodimethylamine	ND	0.20	EPA 8270	6-27-11	6-29-11	
Pyridine	ND	2.0	EPA 8270	6-27-11	6-29-11	
Phenol	ND	0.20	EPA 8270	6-27-11	6-29-11	
Aniline	ND	0.20	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethyl)ether	ND	0.20	EPA 8270	6-27-11	6-29-11	
2-Chlorophenol	ND	0.20	EPA 8270	6-27-11	6-29-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8270	6-27-11	6-29-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8270	6-27-11	6-29-11	
Benzyl alcohol	ND	0.20	EPA 8270	6-27-11	6-29-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8270	6-27-11	6-29-11	
2-Methylphenol (o-Cresol)	ND	0.20	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroisopropyl)ether	ND	0.20	EPA 8270	6-27-11	6-29-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.20	EPA 8270	6-27-11	6-29-11	
n-Nitroso-di-n-propylamine	ND	0.20	EPA 8270	6-27-11	6-29-11	
Hexachloroethane	ND	0.20	EPA 8270	6-27-11	6-29-11	
Nitrobenzene	ND	0.20	EPA 8270	6-27-11	6-29-11	
Isophorone	ND	0.20	EPA 8270	6-27-11	6-29-11	
2-Nitrophenol	ND	0.20	EPA 8270	6-27-11	6-29-11	
2,4-Dimethylphenol	ND	2.0	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethoxy)methane	ND	0.20	EPA 8270	6-27-11	6-29-11	
2,4-Dichlorophenol	ND	0.20	EPA 8270	6-27-11	6-29-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8270	6-27-11	6-29-11	
Naphthalene	0.020	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
4-Chloroaniline	ND	0.20	EPA 8270	6-27-11	6-29-11	
Hexachlorobutadiene	ND	0.20	EPA 8270	6-27-11	6-29-11	
4-Chloro-3-methylphenol	ND	0.20	EPA 8270	6-27-11	6-29-11	
2-Methylnaphthalene	0.014	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
1-Methylnaphthalene	0.0092	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
Hexachlorocyclopentadiene	ND	0.20	EPA 8270	6-27-11	6-29-11	
2,4,6-Trichlorophenol	ND	0.20	EPA 8270	6-27-11	6-29-11	
2,3-Dichloroaniline	ND	0.20	EPA 8270	6-27-11	6-29-11	
2,4,5-Trichlorophenol	ND	0.20	EPA 8270	6-27-11	6-29-11	
2-Chloronaphthalene	ND	0.20	EPA 8270	6-27-11	6-29-11	
2-Nitroaniline	ND	0.20	EPA 8270	6-27-11	6-29-11	
1,4-Dinitrobenzene	ND	0.20	EPA 8270	6-27-11	6-29-11	
Dimethylphthalate	ND	0.20	EPA 8270	6-27-11	6-29-11	
1,3-Dinitrobenzene	ND	0.20	EPA 8270	6-27-11	6-29-11	
2,6-Dinitrotoluene	ND	0.20	EPA 8270	6-27-11	6-29-11	
1,2-Dinitrobenzene	ND	0.20	EPA 8270	6-27-11	6-29-11	
Acenaphthylene	ND	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
3-Nitroaniline	ND	0.20	EPA 8270	6-27-11	6-29-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR4-4.0					
Laboratory ID:	06-212-17					
2,4-Dinitrophenol	ND	0.99	EPA 8270	6-27-11	6-29-11	
Acenaphthene	0.011	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
4-Nitrophenol	ND	0.20	EPA 8270	6-27-11	6-29-11	
2,4-Dinitrotoluene	ND	0.20	EPA 8270	6-27-11	6-29-11	
Dibenzofuran	ND	0.20	EPA 8270	6-27-11	6-29-11	
2,3,5,6-Tetrachlorophenol	ND	0.20	EPA 8270	6-27-11	6-29-11	
2,3,4,6-Tetrachlorophenol	ND	0.20	EPA 8270	6-27-11	6-29-11	
Diethylphthalate	ND	0.99	EPA 8270	6-27-11	6-29-11	
4-Chlorophenyl-phenylether	ND	0.20	EPA 8270	6-27-11	6-29-11	
4-Nitroaniline	ND	0.20	EPA 8270	6-27-11	6-29-11	
Fluorene	0.012	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
4,6-Dinitro-2-methylphenol	ND	0.99	EPA 8270	6-27-11	6-29-11	
n-Nitrosodiphenylamine	ND	0.20	EPA 8270	6-27-11	6-29-11	
1,2-Diphenylhydrazine	ND	0.20	EPA 8270	6-27-11	6-29-11	
4-Bromophenyl-phenylether	ND	0.20	EPA 8270	6-27-11	6-29-11	
Hexachlorobenzene	ND	0.20	EPA 8270	6-27-11	6-29-11	
Pentachlorophenol	ND	0.99	EPA 8270	6-27-11	6-29-11	
Phenanthrene	0.068	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
Anthracene	0.014	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
Carbazole	ND	0.20	EPA 8270	6-27-11	6-29-11	
Di-n-butylphthalate	ND	2.0	EPA 8270	6-27-11	6-29-11	
Fluoranthene	0.083	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
Benzidine	ND	2.0	EPA 8270	6-27-11	6-29-11	
Pyrene	0.071	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
Butylbenzylphthalate	ND	2.0	EPA 8270	6-27-11	6-29-11	
bis-2-Ethylhexyladipate	ND	0.20	EPA 8270	6-27-11	6-29-11	
3,3'-Dichlorobenzidine	ND	2.0	EPA 8270	6-27-11	6-29-11	
Benzo[a]anthracene	0.040	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
Chrysene	0.051	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
bis(2-Ethylhexyl)phthalate	ND	0.20	EPA 8270	6-27-11	6-29-11	
Di-n-octylphthalate	ND	0.20	EPA 8270	6-27-11	6-29-11	
Benzo[b]fluoranthene	0.042	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
Benzo(j,k)fluoranthene	0.029	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
Benzo[a]pyrene	0.041	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
Indeno[1,2,3-cd]pyrene	0.025	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
Dibenz[a,h]anthracene	0.010	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
Benzo[g,h,i]perylene	0.037	0.0079	EPA 8270/SIM	6-27-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	48	30 - 97				
Phenol-d6	47	40 - 104				
Nitrobenzene-d5	47	35 - 102				
2-Fluorobiphenyl	78	44 - 97				
2,4,6-Tribromophenol	73	41 - 110				
Terphenyl-d14	79	53 - 107				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR17-2.5					
Laboratory ID:	06-212-25					
n-Nitrosodimethylamine	ND	0.042	EPA 8270	6-27-11	6-29-11	
Pyridine	ND	0.42	EPA 8270	6-27-11	6-29-11	
Phenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
Aniline	ND	0.042	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethyl)ether	ND	0.042	EPA 8270	6-27-11	6-29-11	
2-Chlorophenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
1,3-Dichlorobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
1,4-Dichlorobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
Benzyl alcohol	ND	0.042	EPA 8270	6-27-11	6-29-11	
1,2-Dichlorobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
2-Methylphenol (o-Cresol)	ND	0.042	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroisopropyl)ether	ND	0.042	EPA 8270	6-27-11	6-29-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.042	EPA 8270	6-27-11	6-29-11	
n-Nitroso-di-n-propylamine	ND	0.042	EPA 8270	6-27-11	6-29-11	
Hexachloroethane	ND	0.042	EPA 8270	6-27-11	6-29-11	
Nitrobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
Isophorone	ND	0.042	EPA 8270	6-27-11	6-29-11	
2-Nitrophenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,4-Dimethylphenol	ND	0.42	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethoxy)methane	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,4-Dichlorophenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
1,2,4-Trichlorobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
Naphthalene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
4-Chloroaniline	ND	0.042	EPA 8270	6-27-11	6-29-11	
Hexachlorobutadiene	ND	0.042	EPA 8270	6-27-11	6-29-11	
4-Chloro-3-methylphenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
2-Methylnaphthalene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
1-Methylnaphthalene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Hexachlorocyclopentadiene	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,4,6-Trichlorophenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,3-Dichloroaniline	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,4,5-Trichlorophenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
2-Chloronaphthalene	ND	0.042	EPA 8270	6-27-11	6-29-11	
2-Nitroaniline	ND	0.042	EPA 8270	6-27-11	6-29-11	
1,4-Dinitrobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
Dimethylphthalate	ND	0.042	EPA 8270	6-27-11	6-29-11	
1,3-Dinitrobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,6-Dinitrotoluene	ND	0.042	EPA 8270	6-27-11	6-29-11	
1,2-Dinitrobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
Acenaphthylene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
3-Nitroaniline	ND	0.042	EPA 8270	6-27-11	6-29-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR17-2.5					
Laboratory ID:	06-212-25					
2,4-Dinitrophenol	ND	0.21	EPA 8270	6-27-11	6-29-11	
Acenaphthene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
4-Nitrophenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,4-Dinitrotoluene	ND	0.042	EPA 8270	6-27-11	6-29-11	
Dibenzofuran	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,3,5,6-Tetrachlorophenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,3,4,6-Tetrachlorophenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
Diethylphthalate	ND	0.21	EPA 8270	6-27-11	6-29-11	
4-Chlorophenyl-phenylether	ND	0.042	EPA 8270	6-27-11	6-29-11	
4-Nitroaniline	ND	0.042	EPA 8270	6-27-11	6-29-11	
Fluorene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
4,6-Dinitro-2-methylphenol	ND	0.21	EPA 8270	6-27-11	6-29-11	
n-Nitrosodiphenylamine	ND	0.042	EPA 8270	6-27-11	6-29-11	
1,2-Diphenylhydrazine	ND	0.042	EPA 8270	6-27-11	6-29-11	
4-Bromophenyl-phenylether	ND	0.042	EPA 8270	6-27-11	6-29-11	
Hexachlorobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
Pentachlorophenol	ND	0.21	EPA 8270	6-27-11	6-29-11	
Phenanthrene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Anthracene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Carbazole	ND	0.042	EPA 8270	6-27-11	6-29-11	
Di-n-butylphthalate	ND	0.42	EPA 8270	6-27-11	6-29-11	
Fluoranthene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Benzidine	ND	0.42	EPA 8270	6-27-11	6-29-11	
Pyrene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Butylbenzylphthalate	ND	0.42	EPA 8270	6-27-11	6-29-11	
bis-2-Ethylhexyladipate	ND	0.042	EPA 8270	6-27-11	6-29-11	
3,3'-Dichlorobenzidine	ND	0.42	EPA 8270	6-27-11	6-29-11	
Benzo[a]anthracene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Chrysene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
bis(2-Ethylhexyl)phthalate	ND	0.042	EPA 8270	6-27-11	6-29-11	
Di-n-octylphthalate	ND	0.042	EPA 8270	6-27-11	6-29-11	
Benzo[b]fluoranthene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Benzo(j,k)fluoranthene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Benzo[a]pyrene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Indeno[1,2,3-cd]pyrene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Dibenz[a,h]anthracene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Benzo[g,h,i]perylene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>43</i>	<i>30 - 97</i>				
<i>Phenol-d6</i>	<i>50</i>	<i>40 - 104</i>				
<i>Nitrobenzene-d5</i>	<i>47</i>	<i>35 - 102</i>				
<i>2-Fluorobiphenyl</i>	<i>65</i>	<i>44 - 97</i>				
<i>2,4,6-Tribromophenol</i>	<i>65</i>	<i>41 - 110</i>				
<i>Terphenyl-d14</i>	<i>68</i>	<i>53 - 107</i>				

Date of Report: July 8, 2011
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR18-0.5					
Laboratory ID:	06-212-29					
n-Nitrosodimethylamine	ND	1.1	EPA 8270	6-27-11	6-29-11	
Pyridine	ND	11	EPA 8270	6-27-11	6-29-11	
Phenol	ND	1.1	EPA 8270	6-27-11	6-29-11	
Aniline	ND	1.1	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethyl)ether	ND	1.1	EPA 8270	6-27-11	6-29-11	
2-Chlorophenol	ND	1.1	EPA 8270	6-27-11	6-29-11	
1,3-Dichlorobenzene	ND	1.1	EPA 8270	6-27-11	6-29-11	
1,4-Dichlorobenzene	ND	1.1	EPA 8270	6-27-11	6-29-11	
Benzyl alcohol	ND	1.1	EPA 8270	6-27-11	6-29-11	
1,2-Dichlorobenzene	ND	1.1	EPA 8270	6-27-11	6-29-11	
2-Methylphenol (o-Cresol)	ND	1.1	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroisopropyl)ether	ND	1.1	EPA 8270	6-27-11	6-29-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.1	EPA 8270	6-27-11	6-29-11	
n-Nitroso-di-n-propylamine	ND	1.1	EPA 8270	6-27-11	6-29-11	
Hexachloroethane	ND	1.1	EPA 8270	6-27-11	6-29-11	
Nitrobenzene	ND	1.1	EPA 8270	6-27-11	6-29-11	
Isophorone	ND	1.1	EPA 8270	6-27-11	6-29-11	
2-Nitrophenol	ND	1.1	EPA 8270	6-27-11	6-29-11	
2,4-Dimethylphenol	ND	11	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethoxy)methane	ND	1.1	EPA 8270	6-27-11	6-29-11	
2,4-Dichlorophenol	ND	1.1	EPA 8270	6-27-11	6-29-11	
1,2,4-Trichlorobenzene	ND	1.1	EPA 8270	6-27-11	6-29-11	
Naphthalene	0.091	0.045	EPA 8270/SIM	6-27-11	6-28-11	
4-Chloroaniline	ND	1.1	EPA 8270	6-27-11	6-29-11	
Hexachlorobutadiene	ND	1.1	EPA 8270	6-27-11	6-29-11	
4-Chloro-3-methylphenol	ND	1.1	EPA 8270	6-27-11	6-29-11	
2-Methylnaphthalene	0.055	0.045	EPA 8270/SIM	6-27-11	6-28-11	
1-Methylnaphthalene	ND	0.045	EPA 8270/SIM	6-27-11	6-28-11	
Hexachlorocyclopentadiene	ND	1.1	EPA 8270	6-27-11	6-29-11	
2,4,6-Trichlorophenol	ND	1.1	EPA 8270	6-27-11	6-29-11	
2,3-Dichloroaniline	ND	1.1	EPA 8270	6-27-11	6-29-11	
2,4,5-Trichlorophenol	ND	1.1	EPA 8270	6-27-11	6-29-11	
2-Chloronaphthalene	ND	1.1	EPA 8270	6-27-11	6-29-11	
2-Nitroaniline	ND	1.1	EPA 8270	6-27-11	6-29-11	
1,4-Dinitrobenzene	ND	1.1	EPA 8270	6-27-11	6-29-11	
Dimethylphthalate	ND	1.1	EPA 8270	6-27-11	6-29-11	
1,3-Dinitrobenzene	ND	1.1	EPA 8270	6-27-11	6-29-11	
2,6-Dinitrotoluene	ND	1.1	EPA 8270	6-27-11	6-29-11	
1,2-Dinitrobenzene	ND	1.1	EPA 8270	6-27-11	6-29-11	
Acenaphthylene	0.14	0.045	EPA 8270/SIM	6-27-11	6-28-11	
3-Nitroaniline	ND	1.1	EPA 8270	6-27-11	6-29-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR18-0.5					
Laboratory ID:	06-212-29					
2,4-Dinitrophenol	ND	5.6	EPA 8270	6-27-11	6-29-11	
Acenaphthene	0.17	0.045	EPA 8270/SIM	6-27-11	6-28-11	
4-Nitrophenol	ND	1.1	EPA 8270	6-27-11	6-29-11	
2,4-Dinitrotoluene	ND	1.1	EPA 8270	6-27-11	6-29-11	
Dibenzofuran	ND	1.1	EPA 8270	6-27-11	6-29-11	
2,3,5,6-Tetrachlorophenol	ND	1.1	EPA 8270	6-27-11	6-29-11	
2,3,4,6-Tetrachlorophenol	ND	1.1	EPA 8270	6-27-11	6-29-11	
Diethylphthalate	ND	5.6	EPA 8270	6-27-11	6-29-11	
4-Chlorophenyl-phenylether	ND	1.1	EPA 8270	6-27-11	6-29-11	
4-Nitroaniline	ND	1.1	EPA 8270	6-27-11	6-29-11	
Fluorene	0.32	0.045	EPA 8270/SIM	6-27-11	6-28-11	
4,6-Dinitro-2-methylphenol	ND	5.6	EPA 8270	6-27-11	6-29-11	
n-Nitrosodiphenylamine	ND	1.1	EPA 8270	6-27-11	6-29-11	
1,2-Diphenylhydrazine	ND	1.1	EPA 8270	6-27-11	6-29-11	
4-Bromophenyl-phenylether	ND	1.1	EPA 8270	6-27-11	6-29-11	
Hexachlorobenzene	ND	1.1	EPA 8270	6-27-11	6-29-11	
Pentachlorophenol	ND	5.6	EPA 8270	6-27-11	6-29-11	
Phenanthrene	2.0	1.1	EPA 8270	6-27-11	6-29-11	
Anthracene	0.58	0.045	EPA 8270/SIM	6-27-11	6-28-11	
Carbazole	ND	1.1	EPA 8270	6-27-11	6-29-11	
Di-n-butylphthalate	ND	11	EPA 8270	6-27-11	6-29-11	
Fluoranthene	7.3	1.1	EPA 8270	6-27-11	6-29-11	
Benzidine	ND	11	EPA 8270	6-27-11	6-29-11	
Pyrene	6.8	1.1	EPA 8270	6-27-11	6-29-11	
Butylbenzylphthalate	ND	11	EPA 8270	6-27-11	6-29-11	
bis-2-Ethylhexyladipate	ND	1.1	EPA 8270	6-27-11	6-29-11	
3,3'-Dichlorobenzidine	ND	11	EPA 8270	6-27-11	6-29-11	
Benzo[a]anthracene	5.8	1.1	EPA 8270	6-27-11	6-29-11	
Chrysene	7.4	1.1	EPA 8270	6-27-11	6-29-11	
bis(2-Ethylhexyl)phthalate	ND	1.1	EPA 8270	6-27-11	6-29-11	
Di-n-octylphthalate	ND	1.1	EPA 8270	6-27-11	6-29-11	
Benzo[b]fluoranthene	7.5	1.1	EPA 8270	6-27-11	6-29-11	
Benzo(j,k)fluoranthene	7.2	1.1	EPA 8270	6-27-11	6-29-11	
Benzo[a]pyrene	7.1	1.1	EPA 8270	6-27-11	6-29-11	
Indeno[1,2,3-cd]pyrene	5.4	1.1	EPA 8270	6-27-11	6-29-11	
Dibenz[a,h]anthracene	1.9	1.1	EPA 8270	6-27-11	6-29-11	
Benzo[g,h,i]perylene	4.6	1.1	EPA 8270	6-27-11	6-29-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	65	30 - 97				
Phenol-d6	59	40 - 104				
Nitrobenzene-d5	62	35 - 102				
2-Fluorobiphenyl	89	44 - 97				
2,4,6-Tribromophenol	72	41 - 110				
Terphenyl-d14	85	53 - 107				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR19-0.5					
Laboratory ID:	06-212-30					
n-Nitrosodimethylamine	ND	0.98	EPA 8270	6-27-11	6-29-11	
Pyridine	ND	9.8	EPA 8270	6-27-11	6-29-11	
Phenol	ND	0.98	EPA 8270	6-27-11	6-29-11	
Aniline	ND	0.98	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethyl)ether	ND	0.98	EPA 8270	6-27-11	6-29-11	
2-Chlorophenol	ND	0.98	EPA 8270	6-27-11	6-29-11	
1,3-Dichlorobenzene	ND	0.98	EPA 8270	6-27-11	6-29-11	
1,4-Dichlorobenzene	ND	0.98	EPA 8270	6-27-11	6-29-11	
Benzyl alcohol	ND	0.98	EPA 8270	6-27-11	6-29-11	
1,2-Dichlorobenzene	ND	0.98	EPA 8270	6-27-11	6-29-11	
2-Methylphenol (o-Cresol)	ND	0.98	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroisopropyl)ether	ND	0.98	EPA 8270	6-27-11	6-29-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.98	EPA 8270	6-27-11	6-29-11	
n-Nitroso-di-n-propylamine	ND	0.98	EPA 8270	6-27-11	6-29-11	
Hexachloroethane	ND	0.98	EPA 8270	6-27-11	6-29-11	
Nitrobenzene	ND	0.98	EPA 8270	6-27-11	6-29-11	
Isophorone	ND	0.98	EPA 8270	6-27-11	6-29-11	
2-Nitrophenol	ND	0.98	EPA 8270	6-27-11	6-29-11	
2,4-Dimethylphenol	ND	9.8	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethoxy)methane	ND	0.98	EPA 8270	6-27-11	6-29-11	
2,4-Dichlorophenol	ND	0.98	EPA 8270	6-27-11	6-29-11	
1,2,4-Trichlorobenzene	ND	0.98	EPA 8270	6-27-11	6-29-11	
Naphthalene	ND	0.039	EPA 8270/SIM	6-27-11	6-28-11	
4-Chloroaniline	ND	0.98	EPA 8270	6-27-11	6-29-11	
Hexachlorobutadiene	ND	0.98	EPA 8270	6-27-11	6-29-11	
4-Chloro-3-methylphenol	ND	0.98	EPA 8270	6-27-11	6-29-11	
2-Methylnaphthalene	ND	0.039	EPA 8270/SIM	6-27-11	6-28-11	
1-Methylnaphthalene	ND	0.039	EPA 8270/SIM	6-27-11	6-28-11	
Hexachlorocyclopentadiene	ND	0.98	EPA 8270	6-27-11	6-29-11	
2,4,6-Trichlorophenol	ND	0.98	EPA 8270	6-27-11	6-29-11	
2,3-Dichloroaniline	ND	0.98	EPA 8270	6-27-11	6-29-11	
2,4,5-Trichlorophenol	ND	0.98	EPA 8270	6-27-11	6-29-11	
2-Chloronaphthalene	ND	0.98	EPA 8270	6-27-11	6-29-11	
2-Nitroaniline	ND	0.98	EPA 8270	6-27-11	6-29-11	
1,4-Dinitrobenzene	ND	0.98	EPA 8270	6-27-11	6-29-11	
Dimethylphthalate	ND	0.98	EPA 8270	6-27-11	6-29-11	
1,3-Dinitrobenzene	ND	0.98	EPA 8270	6-27-11	6-29-11	
2,6-Dinitrotoluene	ND	0.98	EPA 8270	6-27-11	6-29-11	
1,2-Dinitrobenzene	ND	0.98	EPA 8270	6-27-11	6-29-11	
Acenaphthylene	ND	0.039	EPA 8270/SIM	6-27-11	6-28-11	
3-Nitroaniline	ND	0.98	EPA 8270	6-27-11	6-29-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR19-0.5					
Laboratory ID:	06-212-30					
2,4-Dinitrophenol	ND	4.9	EPA 8270	6-27-11	6-29-11	
Acenaphthene	ND	0.039	EPA 8270/SIM	6-27-11	6-28-11	
4-Nitrophenol	ND	0.98	EPA 8270	6-27-11	6-29-11	
2,4-Dinitrotoluene	ND	0.98	EPA 8270	6-27-11	6-29-11	
Dibenzofuran	ND	0.98	EPA 8270	6-27-11	6-29-11	
2,3,5,6-Tetrachlorophenol	ND	0.98	EPA 8270	6-27-11	6-29-11	
2,3,4,6-Tetrachlorophenol	ND	0.98	EPA 8270	6-27-11	6-29-11	
Diethylphthalate	ND	4.9	EPA 8270	6-27-11	6-29-11	
4-Chlorophenyl-phenylether	ND	0.98	EPA 8270	6-27-11	6-29-11	
4-Nitroaniline	ND	0.98	EPA 8270	6-27-11	6-29-11	
Fluorene	ND	0.039	EPA 8270/SIM	6-27-11	6-28-11	
4,6-Dinitro-2-methylphenol	ND	4.9	EPA 8270	6-27-11	6-29-11	
n-Nitrosodiphenylamine	ND	0.98	EPA 8270	6-27-11	6-29-11	
1,2-Diphenylhydrazine	ND	0.98	EPA 8270	6-27-11	6-29-11	
4-Bromophenyl-phenylether	ND	0.98	EPA 8270	6-27-11	6-29-11	
Hexachlorobenzene	ND	0.98	EPA 8270	6-27-11	6-29-11	
Pentachlorophenol	ND	4.9	EPA 8270	6-27-11	6-29-11	
Phenanthrene	0.26	0.039	EPA 8270/SIM	6-27-11	6-28-11	
Anthracene	0.061	0.039	EPA 8270/SIM	6-27-11	6-28-11	
Carbazole	ND	0.98	EPA 8270	6-27-11	6-29-11	
Di-n-butylphthalate	ND	9.8	EPA 8270	6-27-11	6-29-11	
Fluoranthene	0.60	0.039	EPA 8270/SIM	6-27-11	6-28-11	
Benzidine	ND	9.8	EPA 8270	6-27-11	6-29-11	
Pyrene	0.50	0.039	EPA 8270/SIM	6-27-11	6-28-11	
Butylbenzylphthalate	ND	9.8	EPA 8270	6-27-11	6-29-11	
bis-2-Ethylhexyladipate	ND	0.98	EPA 8270	6-27-11	6-29-11	
3,3'-Dichlorobenzidine	ND	9.8	EPA 8270	6-27-11	6-29-11	
Benzo[a]anthracene	0.53	0.039	EPA 8270/SIM	6-27-11	6-28-11	
Chrysene	0.66	0.039	EPA 8270/SIM	6-27-11	6-28-11	
bis(2-Ethylhexyl)phthalate	ND	0.98	EPA 8270	6-27-11	6-29-11	
Di-n-octylphthalate	ND	0.98	EPA 8270	6-27-11	6-29-11	
Benzo[b]fluoranthene	0.84	0.039	EPA 8270/SIM	6-27-11	6-28-11	
Benzo(j,k)fluoranthene	0.63	0.039	EPA 8270/SIM	6-27-11	6-28-11	
Benzo[a]pyrene	0.81	0.039	EPA 8270/SIM	6-27-11	6-28-11	
Indeno[1,2,3-cd]pyrene	0.53	0.039	EPA 8270/SIM	6-27-11	6-28-11	
Dibenz[a,h]anthracene	0.20	0.039	EPA 8270/SIM	6-27-11	6-28-11	
Benzo[g,h,i]perylene	0.57	0.039	EPA 8270/SIM	6-27-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	50	30 - 97				
Phenol-d6	49	40 - 104				
Nitrobenzene-d5	48	35 - 102				
2-Fluorobiphenyl	68	44 - 97				
2,4,6-Tribromophenol	63	41 - 110				
Terphenyl-d14	74	53 - 107				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR11-2.5					
Laboratory ID:	06-212-35					
n-Nitrosodimethylamine	ND	0.18	EPA 8270	6-27-11	6-29-11	
Pyridine	ND	1.8	EPA 8270	6-27-11	6-29-11	
Phenol	ND	0.18	EPA 8270	6-27-11	6-29-11	
Aniline	ND	0.18	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethyl)ether	ND	0.18	EPA 8270	6-27-11	6-29-11	
2-Chlorophenol	ND	0.18	EPA 8270	6-27-11	6-29-11	
1,3-Dichlorobenzene	ND	0.18	EPA 8270	6-27-11	6-29-11	
1,4-Dichlorobenzene	ND	0.18	EPA 8270	6-27-11	6-29-11	
Benzyl alcohol	ND	0.18	EPA 8270	6-27-11	6-29-11	
1,2-Dichlorobenzene	ND	0.18	EPA 8270	6-27-11	6-29-11	
2-Methylphenol (o-Cresol)	ND	0.18	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroisopropyl)ether	ND	0.18	EPA 8270	6-27-11	6-29-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.18	EPA 8270	6-27-11	6-29-11	
n-Nitroso-di-n-propylamine	ND	0.18	EPA 8270	6-27-11	6-29-11	
Hexachloroethane	ND	0.18	EPA 8270	6-27-11	6-29-11	
Nitrobenzene	ND	0.18	EPA 8270	6-27-11	6-29-11	
Isophorone	ND	0.18	EPA 8270	6-27-11	6-29-11	
2-Nitrophenol	ND	0.18	EPA 8270	6-27-11	6-29-11	
2,4-Dimethylphenol	ND	1.8	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethoxy)methane	ND	0.18	EPA 8270	6-27-11	6-29-11	
2,4-Dichlorophenol	ND	0.18	EPA 8270	6-27-11	6-29-11	
1,2,4-Trichlorobenzene	ND	0.18	EPA 8270	6-27-11	6-29-11	
Naphthalene	0.0094	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
4-Chloroaniline	ND	0.18	EPA 8270	6-27-11	6-29-11	
Hexachlorobutadiene	ND	0.18	EPA 8270	6-27-11	6-29-11	
4-Chloro-3-methylphenol	ND	0.18	EPA 8270	6-27-11	6-29-11	
2-Methylnaphthalene	ND	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
1-Methylnaphthalene	ND	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
Hexachlorocyclopentadiene	ND	0.18	EPA 8270	6-27-11	6-29-11	
2,4,6-Trichlorophenol	ND	0.18	EPA 8270	6-27-11	6-29-11	
2,3-Dichloroaniline	ND	0.18	EPA 8270	6-27-11	6-29-11	
2,4,5-Trichlorophenol	ND	0.18	EPA 8270	6-27-11	6-29-11	
2-Chloronaphthalene	ND	0.18	EPA 8270	6-27-11	6-29-11	
2-Nitroaniline	ND	0.18	EPA 8270	6-27-11	6-29-11	
1,4-Dinitrobenzene	ND	0.18	EPA 8270	6-27-11	6-29-11	
Dimethylphthalate	ND	0.18	EPA 8270	6-27-11	6-29-11	
1,3-Dinitrobenzene	ND	0.18	EPA 8270	6-27-11	6-29-11	
2,6-Dinitrotoluene	ND	0.18	EPA 8270	6-27-11	6-29-11	
1,2-Dinitrobenzene	ND	0.18	EPA 8270	6-27-11	6-29-11	
Acenaphthylene	ND	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
3-Nitroaniline	ND	0.18	EPA 8270	6-27-11	6-29-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR11-2.5					
Laboratory ID:	06-212-35					
2,4-Dinitrophenol	ND	0.91	EPA 8270	6-27-11	6-29-11	
Acenaphthene	ND	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
4-Nitrophenol	ND	0.18	EPA 8270	6-27-11	6-29-11	
2,4-Dinitrotoluene	ND	0.18	EPA 8270	6-27-11	6-29-11	
Dibenzofuran	ND	0.18	EPA 8270	6-27-11	6-29-11	
2,3,5,6-Tetrachlorophenol	ND	0.18	EPA 8270	6-27-11	6-29-11	
2,3,4,6-Tetrachlorophenol	ND	0.18	EPA 8270	6-27-11	6-29-11	
Diethylphthalate	ND	0.91	EPA 8270	6-27-11	6-29-11	
4-Chlorophenyl-phenylether	ND	0.18	EPA 8270	6-27-11	6-29-11	
4-Nitroaniline	ND	0.18	EPA 8270	6-27-11	6-29-11	
Fluorene	ND	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
4,6-Dinitro-2-methylphenol	ND	0.91	EPA 8270	6-27-11	6-29-11	
n-Nitrosodiphenylamine	ND	0.18	EPA 8270	6-27-11	6-29-11	
1,2-Diphenylhydrazine	ND	0.18	EPA 8270	6-27-11	6-29-11	
4-Bromophenyl-phenylether	ND	0.18	EPA 8270	6-27-11	6-29-11	
Hexachlorobenzene	ND	0.18	EPA 8270	6-27-11	6-29-11	
Pentachlorophenol	ND	0.91	EPA 8270	6-27-11	6-29-11	
Phenanthrene	0.018	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
Anthracene	ND	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
Carbazole	ND	0.18	EPA 8270	6-27-11	6-29-11	
Di-n-butylphthalate	ND	1.8	EPA 8270	6-27-11	6-29-11	
Fluoranthene	0.024	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
Benzidine	ND	1.8	EPA 8270	6-27-11	6-29-11	
Pyrene	0.027	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
Butylbenzylphthalate	ND	1.8	EPA 8270	6-27-11	6-29-11	
bis-2-Ethylhexyladipate	ND	0.18	EPA 8270	6-27-11	6-29-11	
3,3'-Dichlorobenzidine	ND	1.8	EPA 8270	6-27-11	6-29-11	
Benzo[a]anthracene	0.011	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
Chrysene	0.023	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270	6-27-11	6-29-11	
Di-n-octylphthalate	ND	0.18	EPA 8270	6-27-11	6-29-11	
Benzo[b]fluoranthene	0.011	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
Benzo(j,k)fluoranthene	0.0092	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
Benzo[a]pyrene	0.011	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
Indeno[1,2,3-cd]pyrene	ND	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
Benzo[g,h,i]perylene	0.014	0.0073	EPA 8270/SIM	6-27-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	58	30 - 97				
Phenol-d6	54	40 - 104				
Nitrobenzene-d5	47	35 - 102				
2-Fluorobiphenyl	100	44 - 97				Q
2,4,6-Tribromophenol	65	41 - 110				
Terphenyl-d14	82	53 - 107				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR23-2.5					
Laboratory ID:	06-212-39					
n-Nitrosodimethylamine	ND	0.035	EPA 8270	6-27-11	6-29-11	
Pyridine	ND	0.35	EPA 8270	6-27-11	6-29-11	
Phenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
Aniline	ND	0.035	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethyl)ether	ND	0.035	EPA 8270	6-27-11	6-29-11	
2-Chlorophenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
1,3-Dichlorobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
1,4-Dichlorobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
Benzyl alcohol	ND	0.035	EPA 8270	6-27-11	6-29-11	
1,2-Dichlorobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
2-Methylphenol (o-Cresol)	ND	0.035	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroisopropyl)ether	ND	0.035	EPA 8270	6-27-11	6-29-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.035	EPA 8270	6-27-11	6-29-11	
n-Nitroso-di-n-propylamine	ND	0.035	EPA 8270	6-27-11	6-29-11	
Hexachloroethane	ND	0.035	EPA 8270	6-27-11	6-29-11	
Nitrobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
Isophorone	ND	0.035	EPA 8270	6-27-11	6-29-11	
2-Nitrophenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,4-Dimethylphenol	ND	0.35	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethoxy)methane	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,4-Dichlorophenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
1,2,4-Trichlorobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
Naphthalene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
4-Chloroaniline	ND	0.035	EPA 8270	6-27-11	6-29-11	
Hexachlorobutadiene	ND	0.035	EPA 8270	6-27-11	6-29-11	
4-Chloro-3-methylphenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
2-Methylnaphthalene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
1-Methylnaphthalene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Hexachlorocyclopentadiene	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,4,6-Trichlorophenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,3-Dichloroaniline	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,4,5-Trichlorophenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
2-Chloronaphthalene	ND	0.035	EPA 8270	6-27-11	6-29-11	
2-Nitroaniline	ND	0.035	EPA 8270	6-27-11	6-29-11	
1,4-Dinitrobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
Dimethylphthalate	ND	0.035	EPA 8270	6-27-11	6-29-11	
1,3-Dinitrobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,6-Dinitrotoluene	ND	0.035	EPA 8270	6-27-11	6-29-11	
1,2-Dinitrobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
Acenaphthylene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
3-Nitroaniline	ND	0.035	EPA 8270	6-27-11	6-29-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR23-2.5					
Laboratory ID:	06-212-39					
2,4-Dinitrophenol	ND	0.18	EPA 8270	6-27-11	6-29-11	
Acenaphthene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
4-Nitrophenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,4-Dinitrotoluene	ND	0.035	EPA 8270	6-27-11	6-29-11	
Dibenzofuran	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,3,5,6-Tetrachlorophenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
2,3,4,6-Tetrachlorophenol	ND	0.035	EPA 8270	6-27-11	6-29-11	
Diethylphthalate	ND	0.18	EPA 8270	6-27-11	6-29-11	
4-Chlorophenyl-phenylether	ND	0.035	EPA 8270	6-27-11	6-29-11	
4-Nitroaniline	ND	0.035	EPA 8270	6-27-11	6-29-11	
Fluorene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270	6-27-11	6-29-11	
n-Nitrosodiphenylamine	ND	0.035	EPA 8270	6-27-11	6-29-11	
1,2-Diphenylhydrazine	ND	0.035	EPA 8270	6-27-11	6-29-11	
4-Bromophenyl-phenylether	ND	0.035	EPA 8270	6-27-11	6-29-11	
Hexachlorobenzene	ND	0.035	EPA 8270	6-27-11	6-29-11	
Pentachlorophenol	ND	0.18	EPA 8270	6-27-11	6-29-11	
Phenanthrene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Anthracene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Carbazole	ND	0.035	EPA 8270	6-27-11	6-29-11	
Di-n-butylphthalate	ND	0.35	EPA 8270	6-27-11	6-29-11	
Fluoranthene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Benzidine	ND	0.35	EPA 8270	6-27-11	6-29-11	
Pyrene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Butylbenzylphthalate	ND	0.35	EPA 8270	6-27-11	6-29-11	
bis-2-Ethylhexyladipate	ND	0.035	EPA 8270	6-27-11	6-29-11	
3,3'-Dichlorobenzidine	ND	0.35	EPA 8270	6-27-11	6-29-11	
Benzo[a]anthracene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Chrysene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
bis(2-Ethylhexyl)phthalate	ND	0.035	EPA 8270	6-27-11	6-29-11	
Di-n-octylphthalate	ND	0.035	EPA 8270	6-27-11	6-29-11	
Benzo[b]fluoranthene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Benzo(j,k)fluoranthene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Benzo[a]pyrene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Indeno[1,2,3-cd]pyrene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Dibenz[a,h]anthracene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
Benzo[g,h,i]perylene	ND	0.0070	EPA 8270/SIM	6-27-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	51	30 - 97				
Phenol-d6	53	40 - 104				
Nitrobenzene-d5	53	35 - 102				
2-Fluorobiphenyl	68	44 - 97				
2,4,6-Tribromophenol	66	41 - 110				
Terphenyl-d14	69	53 - 107				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR22-2.5					
Laboratory ID:	06-212-43					
n-Nitrosodimethylamine	ND	0.042	EPA 8270	6-27-11	6-29-11	
Pyridine	ND	0.42	EPA 8270	6-27-11	6-29-11	
Phenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
Aniline	ND	0.042	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethyl)ether	ND	0.042	EPA 8270	6-27-11	6-29-11	
2-Chlorophenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
1,3-Dichlorobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
1,4-Dichlorobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
Benzyl alcohol	ND	0.042	EPA 8270	6-27-11	6-29-11	
1,2-Dichlorobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
2-Methylphenol (o-Cresol)	ND	0.042	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroisopropyl)ether	ND	0.042	EPA 8270	6-27-11	6-29-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.042	EPA 8270	6-27-11	6-29-11	
n-Nitroso-di-n-propylamine	ND	0.042	EPA 8270	6-27-11	6-29-11	
Hexachloroethane	ND	0.042	EPA 8270	6-27-11	6-29-11	
Nitrobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
Isophorone	ND	0.042	EPA 8270	6-27-11	6-29-11	
2-Nitrophenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,4-Dimethylphenol	ND	0.42	EPA 8270	6-27-11	6-29-11	
bis(2-Chloroethoxy)methane	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,4-Dichlorophenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
1,2,4-Trichlorobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
Naphthalene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
4-Chloroaniline	ND	0.042	EPA 8270	6-27-11	6-29-11	
Hexachlorobutadiene	ND	0.042	EPA 8270	6-27-11	6-29-11	
4-Chloro-3-methylphenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
2-Methylnaphthalene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
1-Methylnaphthalene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Hexachlorocyclopentadiene	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,4,6-Trichlorophenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,3-Dichloroaniline	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,4,5-Trichlorophenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
2-Chloronaphthalene	ND	0.042	EPA 8270	6-27-11	6-29-11	
2-Nitroaniline	ND	0.042	EPA 8270	6-27-11	6-29-11	
1,4-Dinitrobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
Dimethylphthalate	ND	0.042	EPA 8270	6-27-11	6-29-11	
1,3-Dinitrobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,6-Dinitrotoluene	ND	0.042	EPA 8270	6-27-11	6-29-11	
1,2-Dinitrobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
Acenaphthylene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
3-Nitroaniline	ND	0.042	EPA 8270	6-27-11	6-29-11	

Date of Report: July 8, 2011
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR22-2.5					
Laboratory ID:	06-212-43					
2,4-Dinitrophenol	ND	0.21	EPA 8270	6-27-11	6-29-11	
Acenaphthene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
4-Nitrophenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,4-Dinitrotoluene	ND	0.042	EPA 8270	6-27-11	6-29-11	
Dibenzofuran	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,3,5,6-Tetrachlorophenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
2,3,4,6-Tetrachlorophenol	ND	0.042	EPA 8270	6-27-11	6-29-11	
Diethylphthalate	ND	0.21	EPA 8270	6-27-11	6-29-11	
4-Chlorophenyl-phenylether	ND	0.042	EPA 8270	6-27-11	6-29-11	
4-Nitroaniline	ND	0.042	EPA 8270	6-27-11	6-29-11	
Fluorene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
4,6-Dinitro-2-methylphenol	ND	0.21	EPA 8270	6-27-11	6-29-11	
n-Nitrosodiphenylamine	ND	0.042	EPA 8270	6-27-11	6-29-11	
1,2-Diphenylhydrazine	ND	0.042	EPA 8270	6-27-11	6-29-11	
4-Bromophenyl-phenylether	ND	0.042	EPA 8270	6-27-11	6-29-11	
Hexachlorobenzene	ND	0.042	EPA 8270	6-27-11	6-29-11	
Pentachlorophenol	ND	0.21	EPA 8270	6-27-11	6-29-11	
Phenanthrene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Anthracene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Carbazole	ND	0.042	EPA 8270	6-27-11	6-29-11	
Di-n-butylphthalate	ND	0.42	EPA 8270	6-27-11	6-29-11	
Fluoranthene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Benzidine	ND	0.42	EPA 8270	6-27-11	6-29-11	
Pyrene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Butylbenzylphthalate	ND	0.42	EPA 8270	6-27-11	6-29-11	
bis-2-Ethylhexyladipate	ND	0.042	EPA 8270	6-27-11	6-29-11	
3,3'-Dichlorobenzidine	ND	0.42	EPA 8270	6-27-11	6-29-11	
Benzo[a]anthracene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Chrysene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
bis(2-Ethylhexyl)phthalate	ND	0.042	EPA 8270	6-27-11	6-29-11	
Di-n-octylphthalate	ND	0.042	EPA 8270	6-27-11	6-29-11	
Benzo[b]fluoranthene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Benzo(j,k)fluoranthene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Benzo[a]pyrene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Indeno[1,2,3-cd]pyrene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Dibenz[a,h]anthracene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
Benzo[g,h,i]perylene	ND	0.0084	EPA 8270/SIM	6-27-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	46	30 - 97				
Phenol-d6	50	40 - 104				
Nitrobenzene-d5	46	35 - 102				
2-Fluorobiphenyl	62	44 - 97				
2,4,6-Tribromophenol	59	41 - 110				
Terphenyl-d14	61	53 - 107				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0627S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270	6-27-11	6-27-11	
Pyridine	ND	0.33	EPA 8270	6-27-11	6-27-11	
Phenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
Aniline	ND	0.033	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270	6-27-11	6-27-11	
2-Chlorophenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
Benzyl alcohol	ND	0.033	EPA 8270	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270	6-27-11	6-27-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270	6-27-11	6-27-11	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270	6-27-11	6-27-11	
Hexachloroethane	ND	0.033	EPA 8270	6-27-11	6-27-11	
Nitrobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
Isophorone	ND	0.033	EPA 8270	6-27-11	6-27-11	
2-Nitrophenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,4-Dimethylphenol	ND	0.33	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,4-Dichlorophenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
Naphthalene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
4-Chloroaniline	ND	0.033	EPA 8270	6-27-11	6-27-11	
Hexachlorobutadiene	ND	0.033	EPA 8270	6-27-11	6-27-11	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,3-Dichloroaniline	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
2-Chloronaphthalene	ND	0.033	EPA 8270	6-27-11	6-27-11	
2-Nitroaniline	ND	0.033	EPA 8270	6-27-11	6-27-11	
1,4-Dinitrobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
Dimethylphthalate	ND	0.033	EPA 8270	6-27-11	6-27-11	
1,3-Dinitrobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,6-Dinitrotoluene	ND	0.033	EPA 8270	6-27-11	6-27-11	
1,2-Dinitrobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
3-Nitroaniline	ND	0.033	EPA 8270	6-27-11	6-27-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0627S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270	6-27-11	6-27-11	
Acenaphthene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
4-Nitrophenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,4-Dinitrotoluene	ND	0.033	EPA 8270	6-27-11	6-27-11	
Dibenzofuran	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270	6-27-11	6-27-11	
Diethylphthalate	ND	0.17	EPA 8270	6-27-11	6-27-11	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270	6-27-11	6-27-11	
4-Nitroaniline	ND	0.033	EPA 8270	6-27-11	6-27-11	
Fluorene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270	6-27-11	6-27-11	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270	6-27-11	6-27-11	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270	6-27-11	6-27-11	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270	6-27-11	6-27-11	
Hexachlorobenzene	ND	0.033	EPA 8270	6-27-11	6-27-11	
Pentachlorophenol	ND	0.17	EPA 8270	6-27-11	6-27-11	
Phenanthrene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Anthracene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Carbazole	ND	0.033	EPA 8270	6-27-11	6-27-11	
Di-n-butylphthalate	ND	0.33	EPA 8270	6-27-11	6-27-11	
Fluoranthene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Benzidine	ND	0.33	EPA 8270	6-27-11	6-27-11	
Pyrene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Butylbenzylphthalate	ND	0.33	EPA 8270	6-27-11	6-27-11	
bis-2-Ethylhexyladipate	ND	0.033	EPA 8270	6-27-11	6-27-11	
3,3'-Dichlorobenzidine	ND	0.33	EPA 8270	6-27-11	6-27-11	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Chrysene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
bis(2-Ethylhexyl)phthalate	ND	0.033	EPA 8270	6-27-11	6-27-11	
Di-n-octylphthalate	ND	0.033	EPA 8270	6-27-11	6-27-11	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>51</i>	<i>30 - 97</i>				
<i>Phenol-d6</i>	<i>52</i>	<i>40 - 104</i>				
<i>Nitrobenzene-d5</i>	<i>52</i>	<i>35 - 102</i>				
<i>2-Fluorobiphenyl</i>	<i>64</i>	<i>44 - 97</i>				
<i>2,4,6-Tribromophenol</i>	<i>71</i>	<i>41 - 110</i>				
<i>Terphenyl-d14</i>	<i>75</i>	<i>53 - 107</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**SEMIVOLATILES by EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery		RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit			
MATRIX SPIKES												
Laboratory ID:	06-187-05											
	MS	MSD	MS	MSD		MS	MSD					
Phenol	0.764	0.825	1.33	1.33	ND	57	62	41 - 106	8	29		
2-Chlorophenol	0.962	1.06	1.33	1.33	ND	72	80	43 - 104	10	36		
1,4-Dichlorobenzene	0.383	0.443	0.667	0.667	ND	57	66	25 - 94	15	40		
n-Nitroso-di-n-propylamine	0.366	0.388	0.667	0.667	ND	55	58	40 - 100	6	34		
1,2,4-Trichlorobenzene	0.432	0.476	0.667	0.667	ND	65	71	39 - 86	10	34		
4-Chloro-3-methylphenol	1.00	1.02	1.33	1.33	ND	75	77	60 - 102	2	25		
Acenaphthene	0.532	0.567	0.667	0.667	ND	80	85	54 - 94	6	23		
4-Nitrophenol	1.16	1.17	1.33	1.33	ND	87	88	30 - 133	1	25		
2,4-Dinitrotoluene	0.605	0.624	0.667	0.667	ND	91	94	46 - 107	3	26		
Pentachlorophenol	1.30	1.33	1.33	1.33	ND	98	100	54 - 111	2	29		
Pyrene	0.741	0.800	0.667	0.667	0.296	67	76	54 - 108	8	21		
<i>Surrogate:</i>												
2-Fluorophenol						47	51	30 - 97				
Phenol-d6						51	55	40 - 104				
Nitrobenzene-d5						49	51	35 - 102				
2-Fluorobiphenyl						72	73	44 - 97				
2,4,6-Tribromophenol						85	89	41 - 110				
Terphenyl-d14						78	80	53 - 107				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR2-062211-GW					
Laboratory ID:	06-212-09					
n-Nitrosodimethylamine	ND	0.95	EPA 8270	6-27-11	6-27-11	
Pyridine	ND	0.95	EPA 8270	6-27-11	6-27-11	
Phenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
Aniline	ND	4.8	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Chlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Benzyl alcohol	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270	6-27-11	6-27-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270	6-27-11	6-27-11	
n-Nitroso-di-n-propylamine	ND	0.95	EPA 8270	6-27-11	6-27-11	
Hexachloroethane	ND	0.95	EPA 8270	6-27-11	6-27-11	
Nitrobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Isophorone	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Nitrophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,4-Dimethylphenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,4-Dichlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Naphthalene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
4-Chloroaniline	ND	0.95	EPA 8270	6-27-11	6-27-11	
Hexachlorobutadiene	ND	0.95	EPA 8270	6-27-11	6-27-11	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Methylnaphthalene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
1-Methylnaphthalene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,3-Dichloroaniline	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Chloronaphthalene	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Nitroaniline	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,4-Dinitrobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Dimethylphthalate	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,3-Dinitrobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,6-Dinitrotoluene	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,2-Dinitrobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Acenaphthylene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
3-Nitroaniline	ND	0.95	EPA 8270	6-27-11	6-27-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR2-062211-GW					
Laboratory ID:	06-212-09					
2,4-Dinitrophenol	ND	4.8	EPA 8270	6-27-11	6-27-11	
Acenaphthene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
4-Nitrophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,4-Dinitrotoluene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Dibenzofuran	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
Diethylphthalate	ND	0.95	EPA 8270	6-27-11	6-27-11	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270	6-27-11	6-27-11	
4-Nitroaniline	ND	0.95	EPA 8270	6-27-11	6-27-11	
Fluorene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
4,6-Dinitro-2-methylphenol	ND	4.8	EPA 8270	6-27-11	6-27-11	
n-Nitrosodiphenylamine	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270	6-27-11	6-27-11	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270	6-27-11	6-27-11	
Hexachlorobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Pentachlorophenol	ND	4.8	EPA 8270	6-27-11	6-27-11	
Phenanthrene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
Anthracene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
Carbazole	ND	0.95	EPA 8270	6-27-11	6-27-11	
Di-n-butylphthalate	ND	0.95	EPA 8270	6-27-11	6-27-11	
Fluoranthene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
Benzidine	ND	4.8	EPA 8270	6-27-11	6-27-11	
Pyrene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
Butylbenzylphthalate	2.1	0.95	EPA 8270	6-27-11	6-27-11	
bis-2-Ethylhexyladipate	ND	0.95	EPA 8270	6-27-11	6-27-11	
3,3'-Dichlorobenzidine	ND	0.95	EPA 8270	6-27-11	6-27-11	
Benzo[a]anthracene	0.020	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Chrysene	0.025	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
bis(2-Ethylhexyl)phthalate	ND	0.95	EPA 8270	6-27-11	6-27-11	
Di-n-octylphthalate	ND	0.95	EPA 8270	6-27-11	6-27-11	
Benzo[b]fluoranthene	0.022	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Benzo(j,k)fluoranthene	0.016	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[a]pyrene	0.018	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Indeno[1,2,3-cd]pyrene	0.020	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Dibenz[a,h]anthracene	0.010	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[g,h,i]perylene	0.025	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	28	18 - 86				
Phenol-d6	22	10 - 88				
Nitrobenzene-d5	42	37 - 112				
2-Fluorobiphenyl	55	42 - 108				
2,4,6-Tribromophenol	67	39 - 118				
Terphenyl-d14	67	49 - 122				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR17-062311-GW					
Laboratory ID:	06-212-28					
n-Nitrosodimethylamine	ND	0.95	EPA 8270	6-27-11	6-27-11	
Pyridine	ND	0.95	EPA 8270	6-27-11	6-27-11	
Phenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
Aniline	ND	4.7	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Chlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Benzyl alcohol	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270	6-27-11	6-27-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270	6-27-11	6-27-11	
n-Nitroso-di-n-propylamine	ND	0.95	EPA 8270	6-27-11	6-27-11	
Hexachloroethane	ND	0.95	EPA 8270	6-27-11	6-27-11	
Nitrobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Isophorone	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Nitrophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,4-Dimethylphenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,4-Dichlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Naphthalene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
4-Chloroaniline	ND	0.95	EPA 8270	6-27-11	6-27-11	
Hexachlorobutadiene	ND	0.95	EPA 8270	6-27-11	6-27-11	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Methylnaphthalene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
1-Methylnaphthalene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,3-Dichloroaniline	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Chloronaphthalene	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Nitroaniline	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,4-Dinitrobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Dimethylphthalate	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,3-Dinitrobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,6-Dinitrotoluene	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,2-Dinitrobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Acenaphthylene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
3-Nitroaniline	ND	0.95	EPA 8270	6-27-11	6-27-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR17-062311-GW					
Laboratory ID:	06-212-28					
2,4-Dinitrophenol	ND	4.7	EPA 8270	6-27-11	6-27-11	
Acenaphthene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
4-Nitrophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,4-Dinitrotoluene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Dibenzofuran	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
Diethylphthalate	ND	0.95	EPA 8270	6-27-11	6-27-11	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270	6-27-11	6-27-11	
4-Nitroaniline	ND	0.95	EPA 8270	6-27-11	6-27-11	
Fluorene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
4,6-Dinitro-2-methylphenol	ND	4.7	EPA 8270	6-27-11	6-27-11	
n-Nitrosodiphenylamine	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270	6-27-11	6-27-11	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270	6-27-11	6-27-11	
Hexachlorobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Pentachlorophenol	ND	4.7	EPA 8270	6-27-11	6-27-11	
Phenanthrene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
Anthracene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
Carbazole	ND	0.95	EPA 8270	6-27-11	6-27-11	
Di-n-butylphthalate	ND	0.95	EPA 8270	6-27-11	6-27-11	
Fluoranthene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
Benzidine	ND	4.7	EPA 8270	6-27-11	6-27-11	
Pyrene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
Butylbenzylphthalate	1.1	0.95	EPA 8270	6-27-11	6-27-11	
bis-2-Ethylhexyladipate	ND	0.95	EPA 8270	6-27-11	6-27-11	
3,3'-Dichlorobenzidine	ND	0.95	EPA 8270	6-27-11	6-27-11	
Benzo[a]anthracene	ND	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Chrysene	ND	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
bis(2-Ethylhexyl)phthalate	ND	0.95	EPA 8270	6-27-11	6-27-11	
Di-n-octylphthalate	ND	0.95	EPA 8270	6-27-11	6-27-11	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[a]pyrene	ND	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>31</i>	<i>18 - 86</i>				
<i>Phenol-d6</i>	<i>24</i>	<i>10 - 88</i>				
<i>Nitrobenzene-d5</i>	<i>47</i>	<i>37 - 112</i>				
<i>2-Fluorobiphenyl</i>	<i>63</i>	<i>42 - 108</i>				
<i>2,4,6-Tribromophenol</i>	<i>78</i>	<i>39 - 118</i>				
<i>Terphenyl-d14</i>	<i>74</i>	<i>49 - 122</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR22-062411-GW					
Laboratory ID:	06-212-46					
n-Nitrosodimethylamine	ND	0.95	EPA 8270	6-27-11	6-27-11	
Pyridine	ND	0.95	EPA 8270	6-27-11	6-27-11	
Phenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
Aniline	ND	4.7	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Chlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Benzyl alcohol	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270	6-27-11	6-27-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270	6-27-11	6-27-11	
n-Nitroso-di-n-propylamine	ND	0.95	EPA 8270	6-27-11	6-27-11	
Hexachloroethane	ND	0.95	EPA 8270	6-27-11	6-27-11	
Nitrobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Isophorone	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Nitrophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,4-Dimethylphenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,4-Dichlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Naphthalene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
4-Chloroaniline	ND	0.95	EPA 8270	6-27-11	6-27-11	
Hexachlorobutadiene	ND	0.95	EPA 8270	6-27-11	6-27-11	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Methylnaphthalene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
1-Methylnaphthalene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,3-Dichloroaniline	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Chloronaphthalene	ND	0.95	EPA 8270	6-27-11	6-27-11	
2-Nitroaniline	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,4-Dinitrobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Dimethylphthalate	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,3-Dinitrobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,6-Dinitrotoluene	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,2-Dinitrobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Acenaphthylene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
3-Nitroaniline	ND	0.95	EPA 8270	6-27-11	6-27-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR22-062411-GW					
Laboratory ID:	06-212-46					
2,4-Dinitrophenol	ND	4.7	EPA 8270	6-27-11	6-27-11	
Acenaphthene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
4-Nitrophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,4-Dinitrotoluene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Dibenzofuran	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270	6-27-11	6-27-11	
Diethylphthalate	ND	0.95	EPA 8270	6-27-11	6-27-11	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270	6-27-11	6-27-11	
4-Nitroaniline	ND	0.95	EPA 8270	6-27-11	6-27-11	
Fluorene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
4,6-Dinitro-2-methylphenol	ND	4.7	EPA 8270	6-27-11	6-27-11	
n-Nitrosodiphenylamine	ND	0.95	EPA 8270	6-27-11	6-27-11	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270	6-27-11	6-27-11	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270	6-27-11	6-27-11	
Hexachlorobenzene	ND	0.95	EPA 8270	6-27-11	6-27-11	
Pentachlorophenol	ND	4.7	EPA 8270	6-27-11	6-27-11	
Phenanthrene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
Anthracene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
Carbazole	ND	0.95	EPA 8270	6-27-11	6-27-11	
Di-n-butylphthalate	ND	0.95	EPA 8270	6-27-11	6-27-11	
Fluoranthene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
Benzidine	ND	4.7	EPA 8270	6-27-11	6-27-11	
Pyrene	ND	0.095	EPA 8270/SIM	6-27-11	6-27-11	
Butylbenzylphthalate	2.4	0.95	EPA 8270	6-27-11	6-27-11	
bis-2-Ethylhexyladipate	ND	0.95	EPA 8270	6-27-11	6-27-11	
3,3'-Dichlorobenzidine	ND	0.95	EPA 8270	6-27-11	6-27-11	
Benzo[a]anthracene	ND	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Chrysene	ND	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
bis(2-Ethylhexyl)phthalate	ND	0.95	EPA 8270	6-27-11	6-27-11	
Di-n-octylphthalate	ND	0.95	EPA 8270	6-27-11	6-27-11	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[a]pyrene	ND	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270/SIM	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>36</i>	<i>18 - 86</i>				
<i>Phenol-d6</i>	<i>28</i>	<i>10 - 88</i>				
<i>Nitrobenzene-d5</i>	<i>51</i>	<i>37 - 112</i>				
<i>2-Fluorobiphenyl</i>	<i>65</i>	<i>42 - 108</i>				
<i>2,4,6-Tribromophenol</i>	<i>83</i>	<i>39 - 118</i>				
<i>Terphenyl-d14</i>	<i>84</i>	<i>49 - 122</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0627W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270	6-27-11	6-27-11	
Pyridine	ND	1.0	EPA 8270	6-27-11	6-27-11	
Phenol	ND	1.0	EPA 8270	6-27-11	6-27-11	
Aniline	ND	5.0	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	6-27-11	6-27-11	
2-Chlorophenol	ND	1.0	EPA 8270	6-27-11	6-27-11	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	6-27-11	6-27-11	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	6-27-11	6-27-11	
Benzyl alcohol	ND	1.0	EPA 8270	6-27-11	6-27-11	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	6-27-11	6-27-11	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	6-27-11	6-27-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270	6-27-11	6-27-11	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	6-27-11	6-27-11	
Hexachloroethane	ND	1.0	EPA 8270	6-27-11	6-27-11	
Nitrobenzene	ND	1.0	EPA 8270	6-27-11	6-27-11	
Isophorone	ND	1.0	EPA 8270	6-27-11	6-27-11	
2-Nitrophenol	ND	1.0	EPA 8270	6-27-11	6-27-11	
2,4-Dimethylphenol	ND	1.0	EPA 8270	6-27-11	6-27-11	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	6-27-11	6-27-11	
2,4-Dichlorophenol	ND	1.0	EPA 8270	6-27-11	6-27-11	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	6-27-11	6-27-11	
Naphthalene	ND	0.10	EPA 8270/SIM	6-27-11	6-27-11	
4-Chloroaniline	ND	1.0	EPA 8270	6-27-11	6-27-11	
Hexachlorobutadiene	ND	1.0	EPA 8270	6-27-11	6-27-11	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	6-27-11	6-27-11	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	6-27-11	6-27-11	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	6-27-11	6-27-11	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	6-27-11	6-27-11	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	6-27-11	6-27-11	
2,3-Dichloroaniline	ND	1.0	EPA 8270	6-27-11	6-27-11	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	6-27-11	6-27-11	
2-Chloronaphthalene	ND	1.0	EPA 8270	6-27-11	6-27-11	
2-Nitroaniline	ND	1.0	EPA 8270	6-27-11	6-27-11	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	6-27-11	6-27-11	
Dimethylphthalate	ND	1.0	EPA 8270	6-27-11	6-27-11	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	6-27-11	6-27-11	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	6-27-11	6-27-11	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	6-27-11	6-27-11	
Acenaphthylene	ND	0.10	EPA 8270/SIM	6-27-11	6-27-11	
3-Nitroaniline	ND	1.0	EPA 8270	6-27-11	6-27-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0627W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270	6-27-11	6-27-11	
Acenaphthene	ND	0.10	EPA 8270/SIM	6-27-11	6-27-11	
4-Nitrophenol	ND	1.0	EPA 8270	6-27-11	6-27-11	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	6-27-11	6-27-11	
Dibenzofuran	ND	1.0	EPA 8270	6-27-11	6-27-11	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	6-27-11	6-27-11	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	6-27-11	6-27-11	
Diethylphthalate	ND	1.0	EPA 8270	6-27-11	6-27-11	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	6-27-11	6-27-11	
4-Nitroaniline	ND	1.0	EPA 8270	6-27-11	6-27-11	
Fluorene	ND	0.10	EPA 8270/SIM	6-27-11	6-27-11	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	6-27-11	6-27-11	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270	6-27-11	6-27-11	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	6-27-11	6-27-11	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	6-27-11	6-27-11	
Hexachlorobenzene	ND	1.0	EPA 8270	6-27-11	6-27-11	
Pentachlorophenol	ND	5.0	EPA 8270	6-27-11	6-27-11	
Phenanthrene	ND	0.10	EPA 8270/SIM	6-27-11	6-27-11	
Anthracene	ND	0.10	EPA 8270/SIM	6-27-11	6-27-11	
Carbazole	ND	1.0	EPA 8270	6-27-11	6-27-11	
Di-n-butylphthalate	ND	1.0	EPA 8270	6-27-11	6-27-11	
Fluoranthene	ND	0.10	EPA 8270/SIM	6-27-11	6-27-11	
Benzidine	ND	5.0	EPA 8270	6-27-11	6-27-11	
Pyrene	ND	0.10	EPA 8270/SIM	6-27-11	6-27-11	
Butylbenzylphthalate	ND	1.0	EPA 8270	6-27-11	6-27-11	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	6-27-11	6-27-11	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270	6-27-11	6-27-11	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	6-27-11	6-27-11	
Chrysene	ND	0.010	EPA 8270/SIM	6-27-11	6-27-11	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	6-27-11	6-27-11	
Di-n-octylphthalate	ND	1.0	EPA 8270	6-27-11	6-27-11	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	6-27-11	6-27-11	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	6-27-11	6-27-11	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	6-27-11	6-27-11	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	6-27-11	6-27-11	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	6-27-11	6-27-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	18	18 - 86				
Phenol-d6	12	10 - 88				
Nitrobenzene-d5	33	37 - 112				
2-Fluorobiphenyl	42	42 - 108				
2,4,6-Tribromophenol	51	39 - 118				
Terphenyl-d14	91	49 - 122				

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Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**SEMIVOLATILES by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limits	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0627W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	11.5	12.4	40.0	40.0	29	31	26 - 60	8	29	
2-Chlorophenol	23.2	25.2	40.0	40.0	58	63	46 - 104	8	34	
1,4-Dichlorobenzene	9.95	10.7	20.0	20.0	50	54	48 - 92	7	29	
n-Nitroso-di-n-propylamine	9.82	10.8	20.0	20.0	49	54	45 - 102	10	25	
1,2,4-Trichlorobenzene	10.1	10.8	20.0	20.0	51	54	47 - 91	7	25	
4-Chloro-3-methylphenol	28.2	31.3	40.0	40.0	71	78	61 - 104	10	18	
Acenaphthene	14.5	15.2	20.0	20.0	73	76	59 - 95	5	15	
4-Nitrophenol	21.6	23.8	40.0	40.0	54	60	21 - 75	10	33	
2,4-Dinitrotoluene	17.9	19.1	20.0	20.0	90	96	66 - 105	6	20	
Pentachlorophenol	35.0	37.0	40.0	40.0	88	93	48 - 119	6	31	
Pyrene	17.8	21.0	20.0	20.0	89	105	62 - 111	16	19	
<i>Surrogate:</i>										
2-Fluorophenol					31	32	18 - 86			
Phenol-d6					25	27	10 - 88			
Nitrobenzene-d5					44	49	37 - 112			
2-Fluorobiphenyl					62	64	42 - 108			
2,4,6-Tribromophenol					77	85	39 - 118			
Terphenyl-d14					84	94	49 - 122			

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR2-5.5					
Laboratory ID:	06-212-07					
Aroclor 1016	ND	0.053	EPA 8082	6-29-11	6-29-11	
Aroclor 1221	ND	0.053	EPA 8082	6-29-11	6-29-11	
Aroclor 1232	ND	0.053	EPA 8082	6-29-11	6-29-11	
Aroclor 1242	ND	0.053	EPA 8082	6-29-11	6-29-11	
Aroclor 1248	ND	0.053	EPA 8082	6-29-11	6-29-11	
Aroclor 1254	ND	0.053	EPA 8082	6-29-11	6-29-11	
Aroclor 1260	ND	0.053	EPA 8082	6-29-11	6-29-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	89	42-123				
Client ID:	FAR4-4.0					
Laboratory ID:	06-212-17					
Aroclor 1016	ND	0.059	EPA 8082	6-29-11	6-30-11	X
Aroclor 1221	ND	0.059	EPA 8082	6-29-11	6-30-11	X
Aroclor 1232	ND	0.059	EPA 8082	6-29-11	6-30-11	X
Aroclor 1242	ND	0.059	EPA 8082	6-29-11	6-30-11	X
Aroclor 1248	ND	0.059	EPA 8082	6-29-11	6-30-11	X
Aroclor 1254	ND	0.059	EPA 8082	6-29-11	6-30-11	X
Aroclor 1260	0.23	0.059	EPA 8082	6-29-11	6-30-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	102	42-123				
Client ID:	FAR17-2.5					
Laboratory ID:	06-212-25					
Aroclor 1016	ND	0.063	EPA 8082	6-29-11	6-29-11	
Aroclor 1221	ND	0.063	EPA 8082	6-29-11	6-29-11	
Aroclor 1232	ND	0.063	EPA 8082	6-29-11	6-29-11	
Aroclor 1242	ND	0.063	EPA 8082	6-29-11	6-29-11	
Aroclor 1248	ND	0.063	EPA 8082	6-29-11	6-29-11	
Aroclor 1254	ND	0.063	EPA 8082	6-29-11	6-29-11	
Aroclor 1260	ND	0.063	EPA 8082	6-29-11	6-29-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	77	42-123				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR18-0.5					
Laboratory ID:	06-212-29					
Aroclor 1016	ND	0.067	EPA 8082	6-29-11	6-30-11	X
Aroclor 1221	ND	0.067	EPA 8082	6-29-11	6-30-11	X
Aroclor 1232	ND	0.067	EPA 8082	6-29-11	6-30-11	X
Aroclor 1242	ND	0.067	EPA 8082	6-29-11	6-30-11	X
Aroclor 1248	ND	0.067	EPA 8082	6-29-11	6-30-11	X
Aroclor 1254	ND	0.067	EPA 8082	6-29-11	6-30-11	X
Aroclor 1260	0.12	0.067	EPA 8082	6-29-11	6-30-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>109</i>	<i>42-123</i>				
Client ID:	FAR19-0.5					
Laboratory ID:	06-212-30					
Aroclor 1016	ND	0.059	EPA 8082	6-29-11	6-29-11	
Aroclor 1221	ND	0.059	EPA 8082	6-29-11	6-29-11	
Aroclor 1232	ND	0.059	EPA 8082	6-29-11	6-29-11	
Aroclor 1242	ND	0.059	EPA 8082	6-29-11	6-29-11	
Aroclor 1248	ND	0.059	EPA 8082	6-29-11	6-29-11	
Aroclor 1254	ND	0.059	EPA 8082	6-29-11	6-29-11	
Aroclor 1260	ND	0.059	EPA 8082	6-29-11	6-29-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>94</i>	<i>42-123</i>				
Client ID:	FAR11-2.5					
Laboratory ID:	06-212-35					
Aroclor 1016	ND	0.055	EPA 8082	6-29-11	6-29-11	
Aroclor 1221	ND	0.055	EPA 8082	6-29-11	6-29-11	
Aroclor 1232	ND	0.055	EPA 8082	6-29-11	6-29-11	
Aroclor 1242	ND	0.055	EPA 8082	6-29-11	6-29-11	
Aroclor 1248	ND	0.055	EPA 8082	6-29-11	6-29-11	
Aroclor 1254	ND	0.055	EPA 8082	6-29-11	6-29-11	
Aroclor 1260	0.090	0.055	EPA 8082	6-29-11	6-29-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>99</i>	<i>42-123</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

PCBs by EPA 8082

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR23-2.5					
Laboratory ID:	06-212-39					
Aroclor 1016	ND	0.053	EPA 8082	6-29-11	6-29-11	
Aroclor 1221	ND	0.053	EPA 8082	6-29-11	6-29-11	
Aroclor 1232	ND	0.053	EPA 8082	6-29-11	6-29-11	
Aroclor 1242	ND	0.053	EPA 8082	6-29-11	6-29-11	
Aroclor 1248	ND	0.053	EPA 8082	6-29-11	6-29-11	
Aroclor 1254	ND	0.053	EPA 8082	6-29-11	6-29-11	
Aroclor 1260	ND	0.053	EPA 8082	6-29-11	6-29-11	

Surrogate: *Percent Recovery* *Control Limits*
 DCB 95 42-123

Client ID:	FAR22-2.5					
Laboratory ID:	06-212-43					
Aroclor 1016	ND	0.063	EPA 8082	6-29-11	6-29-11	
Aroclor 1221	ND	0.063	EPA 8082	6-29-11	6-29-11	
Aroclor 1232	ND	0.063	EPA 8082	6-29-11	6-29-11	
Aroclor 1242	ND	0.063	EPA 8082	6-29-11	6-29-11	
Aroclor 1248	ND	0.063	EPA 8082	6-29-11	6-29-11	
Aroclor 1254	ND	0.063	EPA 8082	6-29-11	6-29-11	
Aroclor 1260	ND	0.063	EPA 8082	6-29-11	6-29-11	

Surrogate: *Percent Recovery* *Control Limits*
 DCB 75 42-123

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**PCBs by EPA 8082
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0629S1					
Aroclor 1016	ND	0.050	EPA 8082	6-29-11	6-29-11	
Aroclor 1221	ND	0.050	EPA 8082	6-29-11	6-29-11	
Aroclor 1232	ND	0.050	EPA 8082	6-29-11	6-29-11	
Aroclor 1242	ND	0.050	EPA 8082	6-29-11	6-29-11	
Aroclor 1248	ND	0.050	EPA 8082	6-29-11	6-29-11	
Aroclor 1254	ND	0.050	EPA 8082	6-29-11	6-29-11	
Aroclor 1260	ND	0.050	EPA 8082	6-29-11	6-29-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	92	42-123				

Laboratory ID:	MB0629S1					
Aroclor 1016	ND	0.050	EPA 8082	6-29-11	6-30-11	X
Aroclor 1221	ND	0.050	EPA 8082	6-29-11	6-30-11	X
Aroclor 1232	ND	0.050	EPA 8082	6-29-11	6-30-11	X
Aroclor 1242	ND	0.050	EPA 8082	6-29-11	6-30-11	X
Aroclor 1248	ND	0.050	EPA 8082	6-29-11	6-30-11	X
Aroclor 1254	ND	0.050	EPA 8082	6-29-11	6-30-11	X
Aroclor 1260	ND	0.050	EPA 8082	6-29-11	6-30-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	100	42-123				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0629S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.425	0.417	0.500	0.500	N/A	85	83	59-120	2	15	
<i>Surrogate:</i>											
DCB						96	97	42-123			

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**ORGANOCHLORINE
 PESTICIDES by EPA 8081A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR2-5.5					
Laboratory ID:	06-212-07					
alpha-BHC	ND	5.3	EPA 8081	6-28-11	6-28-11	
gamma-BHC	ND	5.3	EPA 8081	6-28-11	6-28-11	
beta-BHC	ND	5.3	EPA 8081	6-28-11	6-28-11	
delta-BHC	ND	5.3	EPA 8081	6-28-11	6-28-11	
Heptachlor	ND	5.3	EPA 8081	6-28-11	6-28-11	
Aldrin	ND	5.3	EPA 8081	6-28-11	6-28-11	
Heptachlor Epoxide	ND	5.3	EPA 8081	6-28-11	6-28-11	
gamma-Chlordane	ND	11	EPA 8081	6-28-11	6-28-11	
alpha-Chlordane	ND	11	EPA 8081	6-28-11	6-28-11	
4,4'-DDE	ND	11	EPA 8081	6-28-11	6-28-11	
Endosulfan I	ND	5.3	EPA 8081	6-28-11	6-28-11	
Dieldrin	ND	11	EPA 8081	6-28-11	6-28-11	
Endrin	ND	11	EPA 8081	6-28-11	6-28-11	
4,4'-DDD	ND	11	EPA 8081	6-28-11	6-28-11	
Endosulfan II	ND	11	EPA 8081	6-28-11	6-28-11	
4,4'-DDT	ND	11	EPA 8081	6-28-11	6-28-11	
Endrin Aldehyde	ND	11	EPA 8081	6-28-11	6-28-11	
Methoxychlor	ND	11	EPA 8081	6-28-11	6-28-11	
Endosulfan Sulfate	ND	11	EPA 8081	6-28-11	6-28-11	
Endrin Ketone	ND	11	EPA 8081	6-28-11	6-28-11	
Toxaphene	ND	53	EPA 8081	6-28-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	74	30-111				
DCB	78	33-119				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**ORGANOCHLORINE
 PESTICIDES by EPA 8081A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR4-4.0					
Laboratory ID:	06-212-17					
alpha-BHC	ND	5.9	EPA 8081	6-28-11	7-5-11	X
gamma-BHC	ND	5.9	EPA 8081	6-28-11	7-5-11	X
beta-BHC	ND	5.9	EPA 8081	6-28-11	7-5-11	X
delta-BHC	ND	5.9	EPA 8081	6-28-11	7-5-11	X
Heptachlor	ND	5.9	EPA 8081	6-28-11	7-5-11	X
Aldrin	ND	5.9	EPA 8081	6-28-11	7-5-11	X
Heptachlor Epoxide	ND	5.9	EPA 8081	6-28-11	7-5-11	X
gamma-Chlordane	ND	12	EPA 8081	6-28-11	7-5-11	X
alpha-Chlordane	ND	12	EPA 8081	6-28-11	7-5-11	X
4,4'-DDE	ND	12	EPA 8081	6-28-11	7-5-11	X
Endosulfan I	ND	5.9	EPA 8081	6-28-11	7-5-11	X
Dieldrin	ND	12	EPA 8081	6-28-11	7-5-11	X
Endrin	ND	12	EPA 8081	6-28-11	7-5-11	X
4,4'-DDD	ND	12	EPA 8081	6-28-11	7-5-11	X
Endosulfan II	ND	12	EPA 8081	6-28-11	7-5-11	X
4,4'-DDT	25	12	EPA 8081	6-28-11	7-5-11	X
Endrin Aldehyde	ND	12	EPA 8081	6-28-11	7-5-11	X
Methoxychlor	ND	12	EPA 8081	6-28-11	7-5-11	X
Endosulfan Sulfate	ND	12	EPA 8081	6-28-11	7-5-11	X
Endrin Ketone	ND	12	EPA 8081	6-28-11	7-5-11	X
Toxaphene	ND	59	EPA 8081	6-28-11	7-5-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>TCMX</i>	<i>75</i>	<i>30-111</i>				
<i>DCB</i>	<i>84</i>	<i>33-119</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**ORGANOCHLORINE
 PESTICIDES by EPA 8081A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR17-2.5					
Laboratory ID:	06-212-25					
alpha-BHC	ND	6.3	EPA 8081	6-28-11	6-28-11	
gamma-BHC	ND	6.3	EPA 8081	6-28-11	6-28-11	
beta-BHC	ND	6.3	EPA 8081	6-28-11	6-28-11	
delta-BHC	ND	6.3	EPA 8081	6-28-11	6-28-11	
Heptachlor	ND	6.3	EPA 8081	6-28-11	6-28-11	
Aldrin	ND	6.3	EPA 8081	6-28-11	6-28-11	
Heptachlor Epoxide	ND	6.3	EPA 8081	6-28-11	6-28-11	
gamma-Chlordane	ND	13	EPA 8081	6-28-11	6-28-11	
alpha-Chlordane	ND	13	EPA 8081	6-28-11	6-28-11	
4,4'-DDE	ND	13	EPA 8081	6-28-11	6-28-11	
Endosulfan I	ND	6.3	EPA 8081	6-28-11	6-28-11	
Dieldrin	ND	13	EPA 8081	6-28-11	6-28-11	
Endrin	ND	13	EPA 8081	6-28-11	6-28-11	
4,4'-DDD	ND	13	EPA 8081	6-28-11	6-28-11	
Endosulfan II	ND	13	EPA 8081	6-28-11	6-28-11	
4,4'-DDT	ND	13	EPA 8081	6-28-11	6-28-11	
Endrin Aldehyde	ND	13	EPA 8081	6-28-11	6-28-11	
Methoxychlor	ND	13	EPA 8081	6-28-11	6-28-11	
Endosulfan Sulfate	ND	13	EPA 8081	6-28-11	6-28-11	
Endrin Ketone	ND	13	EPA 8081	6-28-11	6-28-11	
Toxaphene	ND	63	EPA 8081	6-28-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	72	30-111				
DCB	72	33-119				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**ORGANOCHLORINE
 PESTICIDES by EPA 8081A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR18-0.5					
Laboratory ID:	06-212-29					
alpha-BHC	ND	6.7	EPA 8081	6-28-11	7-5-11	X
gamma-BHC	ND	6.7	EPA 8081	6-28-11	7-5-11	X
beta-BHC	ND	6.7	EPA 8081	6-28-11	7-5-11	X
delta-BHC	ND	6.7	EPA 8081	6-28-11	7-5-11	X
Heptachlor	ND	6.7	EPA 8081	6-28-11	7-5-11	X
Aldrin	ND	6.7	EPA 8081	6-28-11	7-5-11	X
Heptachlor Epoxide	ND	6.7	EPA 8081	6-28-11	7-5-11	X
gamma-Chlordane	ND	13	EPA 8081	6-28-11	7-5-11	X
alpha-Chlordane	ND	13	EPA 8081	6-28-11	7-5-11	X
4,4'-DDE	ND	13	EPA 8081	6-28-11	7-5-11	X
Endosulfan I	ND	6.7	EPA 8081	6-28-11	7-5-11	X
Dieldrin	ND	13	EPA 8081	6-28-11	7-5-11	X
Endrin	ND	13	EPA 8081	6-28-11	7-5-11	X
4,4'-DDD	ND	13	EPA 8081	6-28-11	7-5-11	X
Endosulfan II	ND	13	EPA 8081	6-28-11	7-5-11	X
4,4'-DDT	ND	13	EPA 8081	6-28-11	7-5-11	X
Endrin Aldehyde	ND	13	EPA 8081	6-28-11	7-5-11	X
Methoxychlor	ND	13	EPA 8081	6-28-11	7-5-11	X
Endosulfan Sulfate	ND	13	EPA 8081	6-28-11	7-5-11	X
Endrin Ketone	ND	13	EPA 8081	6-28-11	7-5-11	X
Toxaphene	ND	67	EPA 8081	6-28-11	7-5-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	67	30-111				
DCB	89	33-119				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**ORGANOCHLORINE
 PESTICIDES by EPA 8081A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR19-0.5					
Laboratory ID:	06-212-30					
alpha-BHC	ND	5.9	EPA 8081	6-28-11	7-5-11	X
gamma-BHC	ND	5.9	EPA 8081	6-28-11	7-5-11	X
beta-BHC	ND	5.9	EPA 8081	6-28-11	7-5-11	X
delta-BHC	ND	5.9	EPA 8081	6-28-11	7-5-11	X
Heptachlor	ND	5.9	EPA 8081	6-28-11	7-5-11	X
Aldrin	ND	5.9	EPA 8081	6-28-11	7-5-11	X
Heptachlor Epoxide	ND	5.9	EPA 8081	6-28-11	7-5-11	X
gamma-Chlordane	ND	12	EPA 8081	6-28-11	7-5-11	X
alpha-Chlordane	ND	12	EPA 8081	6-28-11	7-5-11	X
4,4'-DDE	ND	12	EPA 8081	6-28-11	7-5-11	X
Endosulfan I	ND	5.9	EPA 8081	6-28-11	7-5-11	X
Dieldrin	ND	12	EPA 8081	6-28-11	7-5-11	X
Endrin	ND	12	EPA 8081	6-28-11	7-5-11	X
4,4'-DDD	ND	12	EPA 8081	6-28-11	7-5-11	X
Endosulfan II	ND	12	EPA 8081	6-28-11	7-5-11	X
4,4'-DDT	ND	12	EPA 8081	6-28-11	7-5-11	X
Endrin Aldehyde	ND	12	EPA 8081	6-28-11	7-5-11	X
Methoxychlor	ND	12	EPA 8081	6-28-11	7-5-11	X
Endosulfan Sulfate	ND	12	EPA 8081	6-28-11	7-5-11	X
Endrin Ketone	ND	12	EPA 8081	6-28-11	7-5-11	X
Toxaphene	ND	59	EPA 8081	6-28-11	7-5-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	60	30-111				
DCB	70	33-119				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**ORGANOCHLORINE
 PESTICIDES by EPA 8081A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR11-2.5					
Laboratory ID:	06-212-35					
alpha-BHC	ND	5.5	EPA 8081	6-28-11	7-5-11	X
gamma-BHC	ND	5.5	EPA 8081	6-28-11	7-5-11	X
beta-BHC	ND	5.5	EPA 8081	6-28-11	7-5-11	X
delta-BHC	ND	5.5	EPA 8081	6-28-11	7-5-11	X
Heptachlor	ND	5.5	EPA 8081	6-28-11	7-5-11	X
Aldrin	ND	5.5	EPA 8081	6-28-11	7-5-11	X
Heptachlor Epoxide	ND	5.5	EPA 8081	6-28-11	7-5-11	X
gamma-Chlordane	ND	11	EPA 8081	6-28-11	7-5-11	X
alpha-Chlordane	ND	11	EPA 8081	6-28-11	7-5-11	X
4,4'-DDE	ND	11	EPA 8081	6-28-11	7-5-11	X
Endosulfan I	ND	5.5	EPA 8081	6-28-11	7-5-11	X
Dieldrin	ND	11	EPA 8081	6-28-11	7-5-11	X
Endrin	ND	11	EPA 8081	6-28-11	7-5-11	X
4,4'-DDD	ND	11	EPA 8081	6-28-11	7-5-11	X
Endosulfan II	ND	11	EPA 8081	6-28-11	7-5-11	X
4,4'-DDT	ND	11	EPA 8081	6-28-11	7-5-11	X
Endrin Aldehyde	22	11	EPA 8081	6-28-11	7-5-11	X
Methoxychlor	ND	11	EPA 8081	6-28-11	7-5-11	X
Endosulfan Sulfate	ND	11	EPA 8081	6-28-11	7-5-11	X
Endrin Ketone	ND	11	EPA 8081	6-28-11	7-5-11	X
Toxaphene	ND	55	EPA 8081	6-28-11	7-5-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	72	30-111				
DCB	82	33-119				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**ORGANOCHLORINE
 PESTICIDES by EPA 8081A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR23-2.5					
Laboratory ID:	06-212-39					
alpha-BHC	ND	5.3	EPA 8081	6-28-11	6-28-11	
gamma-BHC	ND	5.3	EPA 8081	6-28-11	6-28-11	
beta-BHC	ND	5.3	EPA 8081	6-28-11	6-28-11	
delta-BHC	ND	5.3	EPA 8081	6-28-11	6-28-11	
Heptachlor	ND	5.3	EPA 8081	6-28-11	6-28-11	
Aldrin	ND	5.3	EPA 8081	6-28-11	6-28-11	
Heptachlor Epoxide	ND	5.3	EPA 8081	6-28-11	6-28-11	
gamma-Chlordane	ND	11	EPA 8081	6-28-11	6-28-11	
alpha-Chlordane	ND	11	EPA 8081	6-28-11	6-28-11	
4,4'-DDE	ND	11	EPA 8081	6-28-11	6-28-11	
Endosulfan I	ND	5.3	EPA 8081	6-28-11	6-28-11	
Dieldrin	ND	11	EPA 8081	6-28-11	6-28-11	
Endrin	ND	11	EPA 8081	6-28-11	6-28-11	
4,4'-DDD	ND	11	EPA 8081	6-28-11	6-28-11	
Endosulfan II	ND	11	EPA 8081	6-28-11	6-28-11	
4,4'-DDT	ND	11	EPA 8081	6-28-11	6-28-11	
Endrin Aldehyde	ND	11	EPA 8081	6-28-11	6-28-11	
Methoxychlor	ND	11	EPA 8081	6-28-11	6-28-11	
Endosulfan Sulfate	ND	11	EPA 8081	6-28-11	6-28-11	
Endrin Ketone	ND	11	EPA 8081	6-28-11	6-28-11	
Toxaphene	ND	53	EPA 8081	6-28-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	55	30-111				
DCB	60	33-119				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**ORGANOCHLORINE
 PESTICIDES by EPA 8081A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR22-2.5					
Laboratory ID:	06-212-43					
alpha-BHC	ND	6.3	EPA 8081	6-28-11	6-28-11	
gamma-BHC	ND	6.3	EPA 8081	6-28-11	6-28-11	
beta-BHC	ND	6.3	EPA 8081	6-28-11	6-28-11	
delta-BHC	ND	6.3	EPA 8081	6-28-11	6-28-11	
Heptachlor	ND	6.3	EPA 8081	6-28-11	6-28-11	
Aldrin	ND	6.3	EPA 8081	6-28-11	6-28-11	
Heptachlor Epoxide	ND	6.3	EPA 8081	6-28-11	6-28-11	
gamma-Chlordane	ND	13	EPA 8081	6-28-11	6-28-11	
alpha-Chlordane	ND	13	EPA 8081	6-28-11	6-28-11	
4,4'-DDE	ND	13	EPA 8081	6-28-11	6-28-11	
Endosulfan I	ND	6.3	EPA 8081	6-28-11	6-28-11	
Dieldrin	ND	13	EPA 8081	6-28-11	6-28-11	
Endrin	ND	13	EPA 8081	6-28-11	6-28-11	
4,4'-DDD	ND	13	EPA 8081	6-28-11	6-28-11	
Endosulfan II	ND	13	EPA 8081	6-28-11	6-28-11	
4,4'-DDT	ND	13	EPA 8081	6-28-11	6-28-11	
Endrin Aldehyde	ND	13	EPA 8081	6-28-11	6-28-11	
Methoxychlor	ND	13	EPA 8081	6-28-11	6-28-11	
Endosulfan Sulfate	ND	13	EPA 8081	6-28-11	6-28-11	
Endrin Ketone	ND	13	EPA 8081	6-28-11	6-28-11	
Toxaphene	ND	63	EPA 8081	6-28-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	74	30-111				
DCB	79	33-119				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**ORGANOCHLORINE
 PESTICIDES by EPA 8081A
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0628S1					
alpha-BHC	ND	5.0	EPA 8081	6-28-11	6-28-11	
gamma-BHC	ND	5.0	EPA 8081	6-28-11	6-28-11	
beta-BHC	ND	5.0	EPA 8081	6-28-11	6-28-11	
delta-BHC	ND	5.0	EPA 8081	6-28-11	6-28-11	
Heptachlor	ND	5.0	EPA 8081	6-28-11	6-28-11	
Aldrin	ND	5.0	EPA 8081	6-28-11	6-28-11	
Heptachlor Epoxide	ND	5.0	EPA 8081	6-28-11	6-28-11	
gamma-Chlordane	ND	10	EPA 8081	6-28-11	6-28-11	
alpha-Chlordane	ND	10	EPA 8081	6-28-11	6-28-11	
4,4'-DDE	ND	10	EPA 8081	6-28-11	6-28-11	
Endosulfan I	ND	5.0	EPA 8081	6-28-11	6-28-11	
Dieldrin	ND	10	EPA 8081	6-28-11	6-28-11	
Endrin	ND	10	EPA 8081	6-28-11	6-28-11	
4,4'-DDD	ND	10	EPA 8081	6-28-11	6-28-11	
Endosulfan II	ND	10	EPA 8081	6-28-11	6-28-11	
4,4'-DDT	ND	10	EPA 8081	6-28-11	6-28-11	
Endrin Aldehyde	ND	10	EPA 8081	6-28-11	6-28-11	
Methoxychlor	ND	10	EPA 8081	6-28-11	6-28-11	
Endosulfan Sulfate	ND	10	EPA 8081	6-28-11	6-28-11	
Endrin Ketone	ND	10	EPA 8081	6-28-11	6-28-11	
Toxaphene	ND	50	EPA 8081	6-28-11	6-28-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>TCMX</i>	<i>84</i>	<i>30-111</i>				
<i>DCB</i>	<i>87</i>	<i>33-119</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**ORGANOCHLORINE
 PESTICIDES by EPA 8081A
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0628S1					
alpha-BHC	ND	5.0	EPA 8081	6-28-11	6-30-11	X
gamma-BHC	ND	5.0	EPA 8081	6-28-11	6-30-11	X
beta-BHC	ND	5.0	EPA 8081	6-28-11	6-30-11	X
delta-BHC	ND	5.0	EPA 8081	6-28-11	6-30-11	X
Heptachlor	ND	5.0	EPA 8081	6-28-11	6-30-11	X
Aldrin	ND	5.0	EPA 8081	6-28-11	6-30-11	X
Heptachlor Epoxide	ND	5.0	EPA 8081	6-28-11	6-30-11	X
gamma-Chlordane	ND	10	EPA 8081	6-28-11	6-30-11	X
alpha-Chlordane	ND	10	EPA 8081	6-28-11	6-30-11	X
4,4'-DDE	ND	10	EPA 8081	6-28-11	6-30-11	X
Endosulfan I	ND	5.0	EPA 8081	6-28-11	6-30-11	X
Dieldrin	ND	10	EPA 8081	6-28-11	6-30-11	X
Endrin	ND	10	EPA 8081	6-28-11	6-30-11	X
4,4'-DDD	ND	10	EPA 8081	6-28-11	6-30-11	X
Endosulfan II	ND	10	EPA 8081	6-28-11	6-30-11	X
4,4'-DDT	ND	10	EPA 8081	6-28-11	6-30-11	X
Endrin Aldehyde	ND	10	EPA 8081	6-28-11	6-30-11	X
Methoxychlor	ND	10	EPA 8081	6-28-11	6-30-11	X
Endosulfan Sulfate	ND	10	EPA 8081	6-28-11	6-30-11	X
Endrin Ketone	ND	10	EPA 8081	6-28-11	6-30-11	X
Toxaphene	ND	50	EPA 8081	6-28-11	6-30-11	X
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>TCMX</i>	<i>79</i>	<i>30-111</i>				
<i>DCB</i>	<i>84</i>	<i>33-119</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**ORGANOCHLORINE
 PESTICIDES by EPA 8081A
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result		Spike Level		Source	Percent		Recovery		RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	MS	MSD	Limits	RPD	
MATRIX SPIKES											
Laboratory ID:	06-167-04										
gamma-BHC	36.6	36.3	50.0	50.0	ND	73	73	32-96	1	10	
Heptachlor	39.8	40.3	50.0	50.0	ND	80	81	29-101	1	13	
Aldrin	41.2	41.4	50.0	50.0	ND	82	83	27-99	0	10	
Dieldrin	96.3	91.5	125	125	ND	77	73	33-92	5	10	
Endrin	97.4	92.1	125	125	ND	78	74	29-101	6	11	
4,4'-DDT	89.8	83.8	125	125	ND	72	67	21-114	7	15	
Surrogate:											
TCMX						72	74	30-111			
DCB						70	63	33-119			

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

TOTAL METALS
EPA 6010B7471A

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-212-03					
Client ID:	FAR1-10.0					
Arsenic	ND	12	6010B	7-5-11	7-5-11	
Cadmium	ND	0.60	6010B	7-5-11	7-5-11	
Chromium	36	0.60	6010B	7-5-11	7-5-11	
Lead	6.0	6.0	6010B	7-5-11	7-5-11	
Mercury	ND	0.30	7471A	7-5-11	7-5-11	
Lab ID:	06-212-07					
Client ID:	FAR2-5.5					
Arsenic	ND	11	6010B	7-5-11	7-5-11	
Cadmium	ND	0.53	6010B	7-5-11	7-5-11	
Chromium	28	0.53	6010B	7-5-11	7-5-11	
Lead	ND	5.3	6010B	7-5-11	7-5-11	
Mercury	ND	0.26	7471A	7-5-11	7-5-11	
Lab ID:	06-212-13					
Client ID:	FAR3-12.5					
Arsenic	ND	12	6010B	7-5-11	7-5-11	
Cadmium	ND	0.61	6010B	7-5-11	7-5-11	
Chromium	48	0.61	6010B	7-5-11	7-5-11	
Lead	ND	6.1	6010B	7-5-11	7-5-11	
Mercury	ND	0.31	7471A	7-5-11	7-5-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**TOTAL METALS
 EPA 6010B/7471A**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID:	06-212-17					
Client ID:	FAR4-4.0					
Arsenic	ND	12	6010B	7-5-11	7-5-11	
Cadmium	0.67	0.59	6010B	7-5-11	7-5-11	
Chromium	52	0.59	6010B	7-5-11	7-5-11	
Lead	400	5.9	6010B	7-5-11	7-5-11	
Mercury	ND	0.3	7471A	7-5-11	7-5-11	

Lab ID:	06-212-20					
Client ID:	FAR8-5.0					
Arsenic	ND	12	6010B	7-5-11	7-5-11	
Cadmium	ND	0.58	6010B	7-5-11	7-5-11	
Chromium	35	0.58	6010B	7-5-11	7-5-11	
Lead	40	5.8	6010B	7-5-11	7-5-11	
Mercury	ND	0.29	7471A	7-5-11	7-5-11	

Lab ID:	06-212-22					
Client ID:	FAR14-3.5					
Arsenic	ND	11	6010B	7-5-11	7-5-11	
Cadmium	ND	0.53	6010B	7-5-11	7-5-11	
Chromium	25	0.53	6010B	7-5-11	7-5-11	
Lead	ND	5.3	6010B	7-5-11	7-5-11	
Mercury	ND	0.27	7471A	7-5-11	7-5-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**TOTAL METALS
 EPA 6010B/7471A**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID:	06-212-25					
Client ID:	FAR17-2.5					
Arsenic	ND	13	6010B	7-5-11	7-5-11	
Cadmium	ND	0.63	6010B	7-5-11	7-5-11	
Chromium	56	0.63	6010B	7-5-11	7-5-11	
Lead	ND	6.3	6010B	7-5-11	7-5-11	
Mercury	ND	0.32	7471A	7-5-11	7-5-11	

Lab ID:	06-212-29					
Client ID:	FAR18-0.5					
Arsenic	ND	13	6010B	7-5-11	7-5-11	
Cadmium	ND	0.67	6010B	7-5-11	7-5-11	
Chromium	55	0.67	6010B	7-5-11	7-5-11	
Lead	13	6.7	6010B	7-5-11	7-5-11	
Mercury	ND	0.34	7471A	7-5-11	7-5-11	

Lab ID:	06-212-30					
Client ID:	FAR19-0.5					
Arsenic	ND	12	6010B	7-5-11	7-5-11	
Cadmium	ND	0.59	6010B	7-5-11	7-5-11	
Chromium	55	0.59	6010B	7-5-11	7-5-11	
Lead	10	5.9	6010B	7-5-11	7-5-11	
Mercury	ND	0.29	7471A	7-5-11	7-5-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

TOTAL METALS
EPA 6010B/7471A

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID:	06-212-31					
Client ID:	FAR16-2.5					
Arsenic	ND	11	6010B	7-5-11	7-5-11	
Cadmium	ND	0.54	6010B	7-5-11	7-5-11	
Chromium	41	0.54	6010B	7-5-11	7-5-11	
Lead	7.6	5.4	6010B	7-5-11	7-5-11	
Mercury	ND	0.27	7471A	7-5-11	7-5-11	

Lab ID:	06-212-35					
Client ID:	FAR11-2.5					
Arsenic	ND	11	6010B	7-5-11	7-5-11	
Cadmium	ND	0.55	6010B	7-5-11	7-5-11	
Chromium	35	0.55	6010B	7-5-11	7-5-11	
Lead	150	5.5	6010B	7-5-11	7-5-11	
Mercury	ND	0.27	7471A	7-5-11	7-5-11	

Lab ID:	06-212-39					
Client ID:	FAR23-2.5					
Arsenic	ND	11	6010B	7-5-11	7-5-11	
Cadmium	ND	0.53	6010B	7-5-11	7-5-11	
Chromium	16	0.53	6010B	7-5-11	7-5-11	
Lead	ND	5.3	6010B	7-5-11	7-5-11	
Mercury	ND	0.26	7471A	7-5-11	7-5-11	

Date of Report: July 8, 2011
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 Project: 1005-001

TOTAL METALS
EPA 6010B/7471A

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-212-43					
Client ID:	FAR22-2.5					
Arsenic	ND	13	6010B	7-5-11	7-5-11	
Cadmium	ND	0.63	6010B	7-5-11	7-5-11	
Chromium	60	0.63	6010B	7-5-11	7-5-11	
Lead	ND	6.3	6010B	7-5-11	7-5-11	
Mercury	ND	0.31	7471A	7-5-11	7-5-11	

Date of Report: July 8, 2011
Samples Submitted: June 24, 2011
Laboratory Reference: 1106-212
Project: 1005-001

**TOTAL METALS
EPA 6010B/7471A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 7-5-11
Date Analyzed: 7-5-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0705S1&MB0705S2

Analyte	Method	Result	PQL
Arsenic	6010B	ND	10
Cadmium	6010B	ND	0.50
Chromium	6010B	ND	0.50
Lead	6010B	ND	5.0
Mercury	7471A	ND	0.25

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**TOTAL METALS
 EPA 6010B/7471A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 7-5-11

Date Analyzed: 7-5-11

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-212-07

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Cadmium	ND	ND	NA	0.50	
Chromium	26.3	28.3	7	0.50	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**TOTAL METALS
 EPA 6010B/7471A
 MS/MSD QUALITY CONTROL**

Date Extracted: 7-5-11

Date Analyzed: 7-5-11

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-212-07

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	95.3	95	96.0	96	1	
Cadmium	50	47.6	95	47.7	95	0	
Chromium	100	121	94	131	104	8	
Lead	250	238	95	236	95	1	
Mercury	0.50	0.507	101	0.511	102	1	

Date of Report: July 8, 2011
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 Project: 1005-001

NWTPH-Dx
 (with acid/silica gel clean-up)

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR4-9.0					
Laboratory ID:	06-212-18					
Diesel Range Organics	ND	31	NWTPH-Dx	7-6-11	7-6-11	
Lube Oil Range Organics	ND	63	NWTPH-Dx	7-6-11	7-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				

Client ID:	FAR8-11.0					
Laboratory ID:	06-212-21					
Diesel Range Organics	ND	27	NWTPH-Dx	7-6-11	7-6-11	
Lube Oil	59	54	NWTPH-Dx	7-6-11	7-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	112	50-150				

Client ID:	FAR11-14.5					
Laboratory ID:	06-212-38					
Diesel Range Organics	ND	28	NWTPH-Dx	7-6-11	7-6-11	
Lube Oil Range Organics	ND	56	NWTPH-Dx	7-6-11	7-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	99	50-150				

Date of Report: July 8, 2011
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 Project: 1005-001

**NWTPH-Dx
 QUALITY CONTROL
 (with acid/silica gel clean-up)**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0706S2					
Diesel Range Organics	ND	25	NWTPH-Dx	7-6-11	7-6-11	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-6-11	7-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	101	50-150				

Analyte	Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE						
Laboratory ID:	06-262-02					
	ORIG	DUP				
Diesel Range Organics	ND	ND		NA	NA	
Lube Oil Range Organics	ND	ND		NA	NA	
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			103 116	50-150		

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR1-6.0					
Laboratory ID:	06-212-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	0.0055	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	0.0055	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Acetone	0.040	0.0055	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	0.0055	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.0055	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	0.0055	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	0.0055	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	0.0055	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	0.0055	EPA 8260	7-1-11	7-1-11	
Toluene	ND	0.0055	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	7-1-11	7-1-11	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR1-6.0					
Laboratory ID:	06-212-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	0.0055	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.0022	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.0055	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>89</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>86</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>55-121</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR2-2.5					
Laboratory ID:	06-212-06					
Dichlorodifluoromethane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	0.0062	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	0.0062	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Acetone	0.050	0.0062	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	0.0062	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.0062	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	0.0062	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	0.0062	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	0.0062	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	0.0062	EPA 8260	7-1-11	7-1-11	
Toluene	ND	0.0062	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260	7-1-11	7-1-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR2-2.5					
Laboratory ID:	06-212-06					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	0.0062	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.0025	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.0062	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>77</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>75</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>77</i>	<i>55-121</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR17-8.0					
Laboratory ID:	06-212-26					
Dichlorodifluoromethane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	0.0070	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	0.0070	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Acetone	0.15	0.0070	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	0.0070	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.0070	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	0.0070	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	0.0070	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
2-Butanone	0.022	0.0070	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	0.0070	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	0.0070	EPA 8260	7-1-11	7-1-11	
Toluene	ND	0.0070	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260	7-1-11	7-1-11	

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 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR17-8.0					
Laboratory ID:	06-212-26					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	0.0070	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.0028	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	0.0070	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.0070	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>83</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>78</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>72</i>	<i>55-121</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR11-14.5					
Laboratory ID:	06-212-38					
Dichlorodifluoromethane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	0.0042	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	0.0042	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Acetone	ND	0.0042	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	0.0042	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.0042	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	0.0042	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	0.0042	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	0.0042	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	0.0042	EPA 8260	7-1-11	7-1-11	
Toluene	ND	0.0042	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.00083	EPA 8260	7-1-11	7-1-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
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 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR11-14.5					
Laboratory ID:	06-212-38					
1,1,2-Trichloroethane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	0.0042	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.0017	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.00083	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.0042	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.00083	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>82</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>80</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>83</i>	<i>55-121</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR23-6.0					
Laboratory ID:	06-212-40					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	0.0057	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	0.0057	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Acetone	0.041	0.0057	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	0.0057	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.0057	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	0.0057	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	0.0057	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	0.0057	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	0.0057	EPA 8260	7-1-11	7-1-11	
Toluene	ND	0.0057	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	7-1-11	7-1-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR23-6.0					
Laboratory ID:	06-212-40					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	0.0057	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.0023	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.0057	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>80</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>80</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>78</i>	<i>55-121</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR22-6.0					
Laboratory ID:	06-212-44					
Dichlorodifluoromethane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	0.0065	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	0.0065	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Acetone	0.041	0.0065	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	0.0065	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.0065	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	0.0065	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	0.0065	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	0.0065	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	0.0065	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	0.0065	EPA 8260	7-1-11	7-1-11	
Toluene	ND	0.0065	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260	7-1-11	7-1-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR22-6.0					
Laboratory ID:	06-212-44					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	0.0065	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.0026	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	0.0065	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.0065	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>79</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>77</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>76</i>	<i>55-121</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Acetone	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	0.0050	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	0.0050	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Toluene	ND	0.0050	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	7-1-11	7-1-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.0020	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>79</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>81</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>55-121</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0701S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0542	0.0546	0.0500	0.0500	108	109	70-130	1	19	
Benzene	0.0482	0.0490	0.0500	0.0500	96	98	70-125	2	15	
Trichloroethene	0.0500	0.0495	0.0500	0.0500	100	99	70-122	1	14	
Toluene	0.0482	0.0478	0.0500	0.0500	96	96	73-120	1	16	
Chlorobenzene	0.0505	0.0481	0.0500	0.0500	101	96	74-109	5	12	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					72	74	63-127			
<i>Toluene-d8</i>					75	75	65-129			
<i>4-Bromofluorobenzene</i>					76	79	55-121			

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

VOLATILES by EPA 8260B
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR3-12.5					
Laboratory ID:	06-212-13					
Dichlorodifluoromethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	0.0053	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	0.0053	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Acetone	0.063	0.0053	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	0.0053	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	0.0083	0.0053	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	0.0053	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	0.0053	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	0.0053	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	0.0053	EPA 8260	7-1-11	7-1-11	
Toluene	ND	0.0053	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260	7-1-11	7-1-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

VOLATILES by EPA 8260B
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR3-12.5					
Laboratory ID:	06-212-13					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	0.0053	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.0021	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.0053	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>79</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>78</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>80</i>	<i>55-121</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Acetone	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	0.0050	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	0.0050	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Toluene	ND	0.0050	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260	7-1-11	7-1-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.0020	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.0050	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>79</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>81</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>55-121</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0701S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0542	0.0546	0.0500	0.0500	108	109	70-130	1	19	
Benzene	0.0482	0.0490	0.0500	0.0500	96	98	70-125	2	15	
Trichloroethene	0.0500	0.0495	0.0500	0.0500	100	99	70-122	1	14	
Toluene	0.0482	0.0478	0.0500	0.0500	96	96	73-120	1	16	
Chlorobenzene	0.0505	0.0481	0.0500	0.0500	101	96	74-109	5	12	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					72	74	63-127			
<i>Toluene-d8</i>					75	75	65-129			
<i>4-Bromofluorobenzene</i>					76	79	55-121			

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR1-10.0					
Laboratory ID:	06-212-03					
n-Nitrosodimethylamine	ND	0.040	EPA 8270	7-1-11	7-3-11	
Pyridine	ND	0.40	EPA 8270	7-1-11	7-3-11	
Phenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
Aniline	ND	0.040	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroethyl)ether	ND	0.040	EPA 8270	7-1-11	7-3-11	
2-Chlorophenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
1,3-Dichlorobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
1,4-Dichlorobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
Benzyl alcohol	ND	0.040	EPA 8270	7-1-11	7-3-11	
1,2-Dichlorobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
2-Methylphenol (o-Cresol)	ND	0.040	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroisopropyl)ether	ND	0.040	EPA 8270	7-1-11	7-3-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.040	EPA 8270	7-1-11	7-3-11	
n-Nitroso-di-n-propylamine	ND	0.040	EPA 8270	7-1-11	7-3-11	
Hexachloroethane	ND	0.040	EPA 8270	7-1-11	7-3-11	
Nitrobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
Isophorone	ND	0.040	EPA 8270	7-1-11	7-3-11	
2-Nitrophenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,4-Dimethylphenol	ND	0.40	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroethoxy)methane	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,4-Dichlorophenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
1,2,4-Trichlorobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
Naphthalene	ND	0.0080	EPA 8270/SIM	7-1-11	7-2-11	
4-Chloroaniline	ND	0.040	EPA 8270	7-1-11	7-3-11	
Hexachlorobutadiene	ND	0.040	EPA 8270	7-1-11	7-3-11	
4-Chloro-3-methylphenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
2-Methylnaphthalene	ND	0.0080	EPA 8270/SIM	7-1-11	7-2-11	
1-Methylnaphthalene	ND	0.0080	EPA 8270/SIM	7-1-11	7-2-11	
Hexachlorocyclopentadiene	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,4,6-Trichlorophenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,3-Dichloroaniline	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,4,5-Trichlorophenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
2-Chloronaphthalene	ND	0.040	EPA 8270	7-1-11	7-3-11	
2-Nitroaniline	ND	0.040	EPA 8270	7-1-11	7-3-11	
1,4-Dinitrobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
Dimethylphthalate	ND	0.040	EPA 8270	7-1-11	7-3-11	
1,3-Dinitrobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,6-Dinitrotoluene	ND	0.040	EPA 8270	7-1-11	7-3-11	
1,2-Dinitrobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
Acenaphthylene	ND	0.0080	EPA 8270/SIM	7-1-11	7-2-11	
3-Nitroaniline	ND	0.040	EPA 8270	7-1-11	7-3-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR1-10.0					
Laboratory ID:	06-212-03					
2,4-Dinitrophenol	ND	0.20	EPA 8270	7-1-11	7-3-11	
Acenaphthene	0.031	0.0080	EPA 8270/SIM	7-1-11	7-2-11	
4-Nitrophenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,4-Dinitrotoluene	ND	0.040	EPA 8270	7-1-11	7-3-11	
Dibenzofuran	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,3,5,6-Tetrachlorophenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,3,4,6-Tetrachlorophenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
Diethylphthalate	ND	0.20	EPA 8270	7-1-11	7-3-11	
4-Chlorophenyl-phenylether	ND	0.040	EPA 8270	7-1-11	7-3-11	
4-Nitroaniline	ND	0.040	EPA 8270	7-1-11	7-3-11	
Fluorene	0.028	0.0080	EPA 8270/SIM	7-1-11	7-2-11	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270	7-1-11	7-3-11	
n-Nitrosodiphenylamine	ND	0.040	EPA 8270	7-1-11	7-3-11	
1,2-Diphenylhydrazine	ND	0.040	EPA 8270	7-1-11	7-3-11	
4-Bromophenyl-phenylether	ND	0.040	EPA 8270	7-1-11	7-3-11	
Hexachlorobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
Pentachlorophenol	ND	0.20	EPA 8270	7-1-11	7-3-11	
Phenanthrene	0.40	0.040	EPA 8270	7-1-11	7-3-11	
Anthracene	0.14	0.040	EPA 8270	7-1-11	7-3-11	
Carbazole	ND	0.040	EPA 8270	7-1-11	7-3-11	
Di-n-butylphthalate	ND	0.40	EPA 8270	7-1-11	7-3-11	
Fluoranthene	0.51	0.040	EPA 8270	7-1-11	7-3-11	
Benzidine	ND	0.40	EPA 8270	7-1-11	7-3-11	
Pyrene	0.42	0.040	EPA 8270	7-1-11	7-3-11	
Butylbenzylphthalate	ND	0.40	EPA 8270	7-1-11	7-3-11	
bis-2-Ethylhexyladipate	ND	0.040	EPA 8270	7-1-11	7-3-11	
3,3'-Dichlorobenzidine	ND	0.40	EPA 8270	7-1-11	7-3-11	
Benzo[a]anthracene	0.17	0.040	EPA 8270	7-1-11	7-3-11	
Chrysene	0.19	0.040	EPA 8270	7-1-11	7-3-11	
bis(2-Ethylhexyl)phthalate	ND	0.040	EPA 8270	7-1-11	7-3-11	
Di-n-octylphthalate	ND	0.040	EPA 8270	7-1-11	7-3-11	
Benzo[b]fluoranthene	0.13	0.040	EPA 8270	7-1-11	7-3-11	
Benzo(j,k)fluoranthene	0.16	0.040	EPA 8270	7-1-11	7-3-11	
Benzo[a]pyrene	0.18	0.040	EPA 8270	7-1-11	7-3-11	
Indeno[1,2,3-cd]pyrene	0.12	0.040	EPA 8270	7-1-11	7-3-11	
Dibenz[a,h]anthracene	0.041	0.0080	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[g,h,i]perylene	0.14	0.040	EPA 8270	7-1-11	7-3-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	70	30 - 97				
Phenol-d6	80	40 - 104				
Nitrobenzene-d5	78	35 - 102				
2-Fluorobiphenyl	76	44 - 97				
2,4,6-Tribromophenol	91	41 - 110				
Terphenyl-d14	85	53 - 107				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR3-12.5					
Laboratory ID:	06-212-13					
n-Nitrosodimethylamine	ND	0.041	EPA 8270	7-1-11	7-3-11	
Pyridine	ND	0.41	EPA 8270	7-1-11	7-3-11	
Phenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
Aniline	ND	0.041	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroethyl)ether	ND	0.041	EPA 8270	7-1-11	7-3-11	
2-Chlorophenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
1,3-Dichlorobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
1,4-Dichlorobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
Benzyl alcohol	ND	0.041	EPA 8270	7-1-11	7-3-11	
1,2-Dichlorobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
2-Methylphenol (o-Cresol)	ND	0.041	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroisopropyl)ether	ND	0.041	EPA 8270	7-1-11	7-3-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.041	EPA 8270	7-1-11	7-3-11	
n-Nitroso-di-n-propylamine	ND	0.041	EPA 8270	7-1-11	7-3-11	
Hexachloroethane	ND	0.041	EPA 8270	7-1-11	7-3-11	
Nitrobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
Isophorone	ND	0.041	EPA 8270	7-1-11	7-3-11	
2-Nitrophenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,4-Dimethylphenol	ND	0.41	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroethoxy)methane	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,4-Dichlorophenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
1,2,4-Trichlorobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
Naphthalene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
4-Chloroaniline	ND	0.041	EPA 8270	7-1-11	7-3-11	
Hexachlorobutadiene	ND	0.041	EPA 8270	7-1-11	7-3-11	
4-Chloro-3-methylphenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
2-Methylnaphthalene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
1-Methylnaphthalene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
Hexachlorocyclopentadiene	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,4,6-Trichlorophenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,3-Dichloroaniline	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,4,5-Trichlorophenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
2-Chloronaphthalene	ND	0.041	EPA 8270	7-1-11	7-3-11	
2-Nitroaniline	ND	0.041	EPA 8270	7-1-11	7-3-11	
1,4-Dinitrobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
Dimethylphthalate	ND	0.041	EPA 8270	7-1-11	7-3-11	
1,3-Dinitrobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,6-Dinitrotoluene	ND	0.041	EPA 8270	7-1-11	7-3-11	
1,2-Dinitrobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
Acenaphthylene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
3-Nitroaniline	ND	0.041	EPA 8270	7-1-11	7-3-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR3-12.5					
Laboratory ID:	06-212-13					
2,4-Dinitrophenol	ND	0.20	EPA 8270	7-1-11	7-3-11	
Acenaphthene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
4-Nitrophenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,4-Dinitrotoluene	ND	0.041	EPA 8270	7-1-11	7-3-11	
Dibenzofuran	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,3,5,6-Tetrachlorophenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
2,3,4,6-Tetrachlorophenol	ND	0.041	EPA 8270	7-1-11	7-3-11	
Diethylphthalate	ND	0.20	EPA 8270	7-1-11	7-3-11	
4-Chlorophenyl-phenylether	ND	0.041	EPA 8270	7-1-11	7-3-11	
4-Nitroaniline	ND	0.041	EPA 8270	7-1-11	7-3-11	
Fluorene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270	7-1-11	7-3-11	
n-Nitrosodiphenylamine	ND	0.041	EPA 8270	7-1-11	7-3-11	
1,2-Diphenylhydrazine	ND	0.041	EPA 8270	7-1-11	7-3-11	
4-Bromophenyl-phenylether	ND	0.041	EPA 8270	7-1-11	7-3-11	
Hexachlorobenzene	ND	0.041	EPA 8270	7-1-11	7-3-11	
Pentachlorophenol	ND	0.20	EPA 8270	7-1-11	7-3-11	
Phenanthrene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
Anthracene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
Carbazole	ND	0.041	EPA 8270	7-1-11	7-3-11	
Di-n-butylphthalate	ND	0.41	EPA 8270	7-1-11	7-3-11	
Fluoranthene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
Benzidine	ND	0.41	EPA 8270	7-1-11	7-3-11	
Pyrene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
Butylbenzylphthalate	ND	0.41	EPA 8270	7-1-11	7-3-11	
bis-2-Ethylhexyladipate	ND	0.041	EPA 8270	7-1-11	7-3-11	
3,3'-Dichlorobenzidine	ND	0.41	EPA 8270	7-1-11	7-3-11	
Benzo[a]anthracene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
Chrysene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
bis(2-Ethylhexyl)phthalate	ND	0.041	EPA 8270	7-1-11	7-3-11	
Di-n-octylphthalate	ND	0.041	EPA 8270	7-1-11	7-3-11	
Benzo[b]fluoranthene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
Benzo(j,k)fluoranthene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[a]pyrene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
Indeno[1,2,3-cd]pyrene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
Dibenz[a,h]anthracene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[g,h,i]perylene	ND	0.0082	EPA 8270/SIM	7-1-11	7-2-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	63	30 - 97				
Phenol-d6	73	40 - 104				
Nitrobenzene-d5	71	35 - 102				
2-Fluorobiphenyl	74	44 - 97				
2,4,6-Tribromophenol	88	41 - 110				
Terphenyl-d14	84	53 - 107				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR17-8.0					
Laboratory ID:	06-212-26					
n-Nitrosodimethylamine	ND	0.046	EPA 8270	7-1-11	7-3-11	
Pyridine	ND	0.46	EPA 8270	7-1-11	7-3-11	
Phenol	ND	0.046	EPA 8270	7-1-11	7-3-11	
Aniline	ND	0.046	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroethyl)ether	ND	0.046	EPA 8270	7-1-11	7-3-11	
2-Chlorophenol	ND	0.046	EPA 8270	7-1-11	7-3-11	
1,3-Dichlorobenzene	ND	0.046	EPA 8270	7-1-11	7-3-11	
1,4-Dichlorobenzene	ND	0.046	EPA 8270	7-1-11	7-3-11	
Benzyl alcohol	ND	0.046	EPA 8270	7-1-11	7-3-11	
1,2-Dichlorobenzene	ND	0.046	EPA 8270	7-1-11	7-3-11	
2-Methylphenol (o-Cresol)	ND	0.046	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroisopropyl)ether	ND	0.046	EPA 8270	7-1-11	7-3-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.046	EPA 8270	7-1-11	7-3-11	
n-Nitroso-di-n-propylamine	ND	0.046	EPA 8270	7-1-11	7-3-11	
Hexachloroethane	ND	0.046	EPA 8270	7-1-11	7-3-11	
Nitrobenzene	ND	0.046	EPA 8270	7-1-11	7-3-11	
Isophorone	ND	0.046	EPA 8270	7-1-11	7-3-11	
2-Nitrophenol	ND	0.046	EPA 8270	7-1-11	7-3-11	
2,4-Dimethylphenol	ND	0.46	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroethoxy)methane	ND	0.046	EPA 8270	7-1-11	7-3-11	
2,4-Dichlorophenol	ND	0.046	EPA 8270	7-1-11	7-3-11	
1,2,4-Trichlorobenzene	ND	0.046	EPA 8270	7-1-11	7-3-11	
Naphthalene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
4-Chloroaniline	ND	0.046	EPA 8270	7-1-11	7-3-11	
Hexachlorobutadiene	ND	0.046	EPA 8270	7-1-11	7-3-11	
4-Chloro-3-methylphenol	ND	0.046	EPA 8270	7-1-11	7-3-11	
2-Methylnaphthalene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
1-Methylnaphthalene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
Hexachlorocyclopentadiene	ND	0.046	EPA 8270	7-1-11	7-3-11	
2,4,6-Trichlorophenol	ND	0.046	EPA 8270	7-1-11	7-3-11	
2,3-Dichloroaniline	ND	0.046	EPA 8270	7-1-11	7-3-11	
2,4,5-Trichlorophenol	ND	0.046	EPA 8270	7-1-11	7-3-11	
2-Chloronaphthalene	ND	0.046	EPA 8270	7-1-11	7-3-11	
2-Nitroaniline	ND	0.046	EPA 8270	7-1-11	7-3-11	
1,4-Dinitrobenzene	ND	0.046	EPA 8270	7-1-11	7-3-11	
Dimethylphthalate	ND	0.046	EPA 8270	7-1-11	7-3-11	
1,3-Dinitrobenzene	ND	0.046	EPA 8270	7-1-11	7-3-11	
2,6-Dinitrotoluene	ND	0.046	EPA 8270	7-1-11	7-3-11	
1,2-Dinitrobenzene	ND	0.046	EPA 8270	7-1-11	7-3-11	
Acenaphthylene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
3-Nitroaniline	ND	0.046	EPA 8270	7-1-11	7-3-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR17-8.0					
Laboratory ID:	06-212-26					
2,4-Dinitrophenol	ND	0.23	EPA 8270	7-1-11	7-3-11	
Acenaphthene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
4-Nitrophenol	ND	0.046	EPA 8270	7-1-11	7-3-11	
2,4-Dinitrotoluene	ND	0.046	EPA 8270	7-1-11	7-3-11	
Dibenzofuran	ND	0.046	EPA 8270	7-1-11	7-3-11	
2,3,5,6-Tetrachlorophenol	ND	0.046	EPA 8270	7-1-11	7-3-11	
2,3,4,6-Tetrachlorophenol	ND	0.046	EPA 8270	7-1-11	7-3-11	
Diethylphthalate	ND	0.23	EPA 8270	7-1-11	7-3-11	
4-Chlorophenyl-phenylether	ND	0.046	EPA 8270	7-1-11	7-3-11	
4-Nitroaniline	ND	0.046	EPA 8270	7-1-11	7-3-11	
Fluorene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
4,6-Dinitro-2-methylphenol	ND	0.23	EPA 8270	7-1-11	7-3-11	
n-Nitrosodiphenylamine	ND	0.046	EPA 8270	7-1-11	7-3-11	
1,2-Diphenylhydrazine	ND	0.046	EPA 8270	7-1-11	7-3-11	
4-Bromophenyl-phenylether	ND	0.046	EPA 8270	7-1-11	7-3-11	
Hexachlorobenzene	ND	0.046	EPA 8270	7-1-11	7-3-11	
Pentachlorophenol	ND	0.23	EPA 8270	7-1-11	7-3-11	
Phenanthrene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
Anthracene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
Carbazole	ND	0.046	EPA 8270	7-1-11	7-3-11	
Di-n-butylphthalate	ND	0.46	EPA 8270	7-1-11	7-3-11	
Fluoranthene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
Benzidine	ND	0.46	EPA 8270	7-1-11	7-3-11	
Pyrene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
Butylbenzylphthalate	ND	0.46	EPA 8270	7-1-11	7-3-11	
bis-2-Ethylhexyladipate	ND	0.046	EPA 8270	7-1-11	7-3-11	
3,3'-Dichlorobenzidine	ND	0.46	EPA 8270	7-1-11	7-3-11	
Benzo[a]anthracene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
Chrysene	0.012	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
bis(2-Ethylhexyl)phthalate	ND	0.046	EPA 8270	7-1-11	7-3-11	
Di-n-octylphthalate	ND	0.046	EPA 8270	7-1-11	7-3-11	
Benzo[b]fluoranthene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
Benzo(j,k)fluoranthene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[a]pyrene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
Indeno[1,2,3-cd]pyrene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
Dibenz[a,h]anthracene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[g,h,i]perylene	ND	0.0092	EPA 8270/SIM	7-1-11	7-2-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>80</i>	<i>30 - 97</i>				
<i>Phenol-d6</i>	<i>93</i>	<i>40 - 104</i>				
<i>Nitrobenzene-d5</i>	<i>86</i>	<i>35 - 102</i>				
<i>2-Fluorobiphenyl</i>	<i>79</i>	<i>44 - 97</i>				
<i>2,4,6-Tribromophenol</i>	<i>89</i>	<i>41 - 110</i>				
<i>Terphenyl-d14</i>	<i>91</i>	<i>53 - 107</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR22-10.0					
Laboratory ID:	06-212-45					
n-Nitrosodimethylamine	ND	0.040	EPA 8270	7-1-11	7-3-11	
Pyridine	ND	0.40	EPA 8270	7-1-11	7-3-11	
Phenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
Aniline	ND	0.040	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroethyl)ether	ND	0.040	EPA 8270	7-1-11	7-3-11	
2-Chlorophenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
1,3-Dichlorobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
1,4-Dichlorobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
Benzyl alcohol	ND	0.040	EPA 8270	7-1-11	7-3-11	
1,2-Dichlorobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
2-Methylphenol (o-Cresol)	ND	0.040	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroisopropyl)ether	ND	0.040	EPA 8270	7-1-11	7-3-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.040	EPA 8270	7-1-11	7-3-11	
n-Nitroso-di-n-propylamine	ND	0.040	EPA 8270	7-1-11	7-3-11	
Hexachloroethane	ND	0.040	EPA 8270	7-1-11	7-3-11	
Nitrobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
Isophorone	ND	0.040	EPA 8270	7-1-11	7-3-11	
2-Nitrophenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,4-Dimethylphenol	ND	0.40	EPA 8270	7-1-11	7-3-11	
bis(2-Chloroethoxy)methane	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,4-Dichlorophenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
1,2,4-Trichlorobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
Naphthalene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
4-Chloroaniline	ND	0.040	EPA 8270	7-1-11	7-3-11	
Hexachlorobutadiene	ND	0.040	EPA 8270	7-1-11	7-3-11	
4-Chloro-3-methylphenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
2-Methylnaphthalene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
1-Methylnaphthalene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
Hexachlorocyclopentadiene	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,4,6-Trichlorophenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,3-Dichloroaniline	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,4,5-Trichlorophenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
2-Chloronaphthalene	ND	0.040	EPA 8270	7-1-11	7-3-11	
2-Nitroaniline	ND	0.040	EPA 8270	7-1-11	7-3-11	
1,4-Dinitrobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
Dimethylphthalate	ND	0.040	EPA 8270	7-1-11	7-3-11	
1,3-Dinitrobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,6-Dinitrotoluene	ND	0.040	EPA 8270	7-1-11	7-3-11	
1,2-Dinitrobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
Acenaphthylene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
3-Nitroaniline	ND	0.040	EPA 8270	7-1-11	7-3-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR22-10.0					
Laboratory ID:	06-212-45					
2,4-Dinitrophenol	ND	0.20	EPA 8270	7-1-11	7-3-11	
Acenaphthene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
4-Nitrophenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,4-Dinitrotoluene	ND	0.040	EPA 8270	7-1-11	7-3-11	
Dibenzofuran	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,3,5,6-Tetrachlorophenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
2,3,4,6-Tetrachlorophenol	ND	0.040	EPA 8270	7-1-11	7-3-11	
Diethylphthalate	ND	0.20	EPA 8270	7-1-11	7-3-11	
4-Chlorophenyl-phenylether	ND	0.040	EPA 8270	7-1-11	7-3-11	
4-Nitroaniline	ND	0.040	EPA 8270	7-1-11	7-3-11	
Fluorene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270	7-1-11	7-3-11	
n-Nitrosodiphenylamine	ND	0.040	EPA 8270	7-1-11	7-3-11	
1,2-Diphenylhydrazine	ND	0.040	EPA 8270	7-1-11	7-3-11	
4-Bromophenyl-phenylether	ND	0.040	EPA 8270	7-1-11	7-3-11	
Hexachlorobenzene	ND	0.040	EPA 8270	7-1-11	7-3-11	
Pentachlorophenol	ND	0.20	EPA 8270	7-1-11	7-3-11	
Phenanthrene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
Anthracene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
Carbazole	ND	0.040	EPA 8270	7-1-11	7-3-11	
Di-n-butylphthalate	ND	0.40	EPA 8270	7-1-11	7-3-11	
Fluoranthene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
Benzidine	ND	0.40	EPA 8270	7-1-11	7-3-11	
Pyrene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
Butylbenzylphthalate	ND	0.40	EPA 8270	7-1-11	7-3-11	
bis-2-Ethylhexyladipate	ND	0.040	EPA 8270	7-1-11	7-3-11	
3,3'-Dichlorobenzidine	ND	0.40	EPA 8270	7-1-11	7-3-11	
Benzo[a]anthracene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
Chrysene	0.0083	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
bis(2-Ethylhexyl)phthalate	ND	0.040	EPA 8270	7-1-11	7-3-11	
Di-n-octylphthalate	ND	0.040	EPA 8270	7-1-11	7-3-11	
Benzo[b]fluoranthene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
Benzo(j,k)fluoranthene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[a]pyrene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
Indeno[1,2,3-cd]pyrene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
Dibenz[a,h]anthracene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[g,h,i]perylene	ND	0.0079	EPA 8270/SIM	7-1-11	7-2-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>78</i>	<i>30 - 97</i>				
<i>Phenol-d6</i>	<i>87</i>	<i>40 - 104</i>				
<i>Nitrobenzene-d5</i>	<i>79</i>	<i>35 - 102</i>				
<i>2-Fluorobiphenyl</i>	<i>75</i>	<i>44 - 97</i>				
<i>2,4,6-Tribromophenol</i>	<i>98</i>	<i>41 - 110</i>				
<i>Terphenyl-d14</i>	<i>91</i>	<i>53 - 107</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270	7-1-11	7-2-11	
Pyridine	ND	0.33	EPA 8270	7-1-11	7-2-11	
Phenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
Aniline	ND	0.033	EPA 8270	7-1-11	7-2-11	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270	7-1-11	7-2-11	
2-Chlorophenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
1,3-Dichlorobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
1,4-Dichlorobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
Benzyl alcohol	ND	0.033	EPA 8270	7-1-11	7-2-11	
1,2-Dichlorobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270	7-1-11	7-2-11	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270	7-1-11	7-2-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270	7-1-11	7-2-11	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270	7-1-11	7-2-11	
Hexachloroethane	ND	0.033	EPA 8270	7-1-11	7-2-11	
Nitrobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
Isophorone	ND	0.033	EPA 8270	7-1-11	7-2-11	
2-Nitrophenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,4-Dimethylphenol	ND	0.33	EPA 8270	7-1-11	7-2-11	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,4-Dichlorophenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
Naphthalene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
4-Chloroaniline	ND	0.033	EPA 8270	7-1-11	7-2-11	
Hexachlorobutadiene	ND	0.033	EPA 8270	7-1-11	7-2-11	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,3-Dichloroaniline	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
2-Chloronaphthalene	ND	0.033	EPA 8270	7-1-11	7-2-11	
2-Nitroaniline	ND	0.033	EPA 8270	7-1-11	7-2-11	
1,4-Dinitrobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
Dimethylphthalate	ND	0.033	EPA 8270	7-1-11	7-2-11	
1,3-Dinitrobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,6-Dinitrotoluene	ND	0.033	EPA 8270	7-1-11	7-2-11	
1,2-Dinitrobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
3-Nitroaniline	ND	0.033	EPA 8270	7-1-11	7-2-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270	7-1-11	7-2-11	
Acenaphthene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
4-Nitrophenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,4-Dinitrotoluene	ND	0.033	EPA 8270	7-1-11	7-2-11	
Dibenzofuran	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270	7-1-11	7-2-11	
Diethylphthalate	ND	0.17	EPA 8270	7-1-11	7-2-11	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270	7-1-11	7-2-11	
4-Nitroaniline	ND	0.033	EPA 8270	7-1-11	7-2-11	
Fluorene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270	7-1-11	7-2-11	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270	7-1-11	7-2-11	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270	7-1-11	7-2-11	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270	7-1-11	7-2-11	
Hexachlorobenzene	ND	0.033	EPA 8270	7-1-11	7-2-11	
Pentachlorophenol	ND	0.17	EPA 8270	7-1-11	7-2-11	
Phenanthrene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Anthracene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Carbazole	ND	0.033	EPA 8270	7-1-11	7-2-11	
Di-n-butylphthalate	ND	0.33	EPA 8270	7-1-11	7-2-11	
Fluoranthene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Benzidine	ND	0.33	EPA 8270	7-1-11	7-2-11	
Pyrene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Butylbenzylphthalate	ND	0.33	EPA 8270	7-1-11	7-2-11	
bis-2-Ethylhexyladipate	ND	0.033	EPA 8270	7-1-11	7-2-11	
3,3'-Dichlorobenzidine	ND	0.33	EPA 8270	7-1-11	7-2-11	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Chrysene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
bis(2-Ethylhexyl)phthalate	ND	0.033	EPA 8270	7-1-11	7-2-11	
Di-n-octylphthalate	ND	0.033	EPA 8270	7-1-11	7-2-11	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	7-1-11	7-2-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>72</i>	<i>30 - 97</i>				
<i>Phenol-d6</i>	<i>79</i>	<i>40 - 104</i>				
<i>Nitrobenzene-d5</i>	<i>82</i>	<i>35 - 102</i>				
<i>2-Fluorobiphenyl</i>	<i>84</i>	<i>44 - 97</i>				
<i>2,4,6-Tribromophenol</i>	<i>91</i>	<i>41 - 110</i>				
<i>Terphenyl-d14</i>	<i>97</i>	<i>53 - 107</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**SEMIVOLATILES by EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery		RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit			
MATRIX SPIKES												
Laboratory ID:	06-187-07											
	MS	MSD	MS	MSD		MS	MSD					
Phenol	1.05	1.03	1.33	1.33	ND	79	77	41 - 106	2		29	
2-Chlorophenol	1.05	1.02	1.33	1.33	ND	79	77	43 - 104	3		36	
1,4-Dichlorobenzene	0.441	0.426	0.667	0.667	ND	66	64	25 - 94	3		40	
n-Nitroso-di-n-propylamine	0.478	0.476	0.667	0.667	ND	72	71	40 - 100	0		34	
1,2,4-Trichlorobenzene	0.514	0.509	0.667	0.667	ND	77	76	39 - 86	1		34	
4-Chloro-3-methylphenol	1.14	1.13	1.33	1.33	ND	86	85	60 - 102	1		25	
Acenaphthene	0.527	0.510	0.667	0.667	ND	79	76	54 - 94	3		23	
4-Nitrophenol	1.09	1.08	1.33	1.33	ND	82	81	30 - 133	1		25	
2,4-Dinitrotoluene	0.400	0.343	0.667	0.667	ND	60	51	46 - 107	15		26	
Pentachlorophenol	1.51	1.47	1.33	1.33	0.433	81	78	54 - 111	3		29	
Pyrene	0.738	0.696	0.667	0.667	0.172	85	79	54 - 108	6		21	
<i>Surrogate:</i>												
2-Fluorophenol						70	68	30 - 97				
Phenol-d6						77	77	40 - 104				
Nitrobenzene-d5						77	76	35 - 102				
2-Fluorobiphenyl						81	79	44 - 97				
2,4,6-Tribromophenol						100	99	41 - 110				
Terphenyl-d14						92	92	53 - 107				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR1-062211-GW					
Laboratory ID:	06-212-05					
n-Nitrosodimethylamine	ND	0.96	EPA 8270	7-1-11	7-7-11	
Pyridine	ND	0.96	EPA 8270	7-1-11	7-7-11	
Phenol	ND	0.96	EPA 8270	7-1-11	7-7-11	
Aniline	ND	4.8	EPA 8270	7-1-11	7-7-11	
bis(2-Chloroethyl)ether	ND	0.96	EPA 8270	7-1-11	7-7-11	
2-Chlorophenol	ND	0.96	EPA 8270	7-1-11	7-7-11	
1,3-Dichlorobenzene	ND	0.96	EPA 8270	7-1-11	7-7-11	
1,4-Dichlorobenzene	ND	0.96	EPA 8270	7-1-11	7-7-11	
Benzyl alcohol	ND	0.96	EPA 8270	7-1-11	7-7-11	
1,2-Dichlorobenzene	ND	0.96	EPA 8270	7-1-11	7-7-11	
2-Methylphenol (o-Cresol)	ND	0.96	EPA 8270	7-1-11	7-7-11	
bis(2-Chloroisopropyl)ether	ND	0.96	EPA 8270	7-1-11	7-7-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.96	EPA 8270	7-1-11	7-7-11	
n-Nitroso-di-n-propylamine	ND	0.96	EPA 8270	7-1-11	7-7-11	
Hexachloroethane	ND	0.96	EPA 8270	7-1-11	7-7-11	
Nitrobenzene	ND	0.96	EPA 8270	7-1-11	7-7-11	
Isophorone	ND	0.96	EPA 8270	7-1-11	7-7-11	
2-Nitrophenol	ND	0.96	EPA 8270	7-1-11	7-7-11	
2,4-Dimethylphenol	ND	0.96	EPA 8270	7-1-11	7-7-11	
bis(2-Chloroethoxy)methane	ND	0.96	EPA 8270	7-1-11	7-7-11	
2,4-Dichlorophenol	ND	0.96	EPA 8270	7-1-11	7-7-11	
1,2,4-Trichlorobenzene	ND	0.96	EPA 8270	7-1-11	7-7-11	
Naphthalene	ND	0.096	EPA 8270/SIM	7-1-11	7-6-11	
4-Chloroaniline	ND	0.96	EPA 8270	7-1-11	7-7-11	
Hexachlorobutadiene	ND	0.96	EPA 8270	7-1-11	7-7-11	
4-Chloro-3-methylphenol	ND	0.96	EPA 8270	7-1-11	7-7-11	
2-Methylnaphthalene	ND	0.096	EPA 8270/SIM	7-1-11	7-6-11	
1-Methylnaphthalene	ND	0.096	EPA 8270/SIM	7-1-11	7-6-11	
Hexachlorocyclopentadiene	ND	0.96	EPA 8270	7-1-11	7-7-11	
2,4,6-Trichlorophenol	ND	0.96	EPA 8270	7-1-11	7-7-11	
2,3-Dichloroaniline	ND	0.96	EPA 8270	7-1-11	7-7-11	
2,4,5-Trichlorophenol	ND	0.96	EPA 8270	7-1-11	7-7-11	
2-Chloronaphthalene	ND	0.96	EPA 8270	7-1-11	7-7-11	
2-Nitroaniline	ND	0.96	EPA 8270	7-1-11	7-7-11	
1,4-Dinitrobenzene	ND	0.96	EPA 8270	7-1-11	7-7-11	
Dimethylphthalate	ND	0.96	EPA 8270	7-1-11	7-7-11	
1,3-Dinitrobenzene	ND	0.96	EPA 8270	7-1-11	7-7-11	
2,6-Dinitrotoluene	ND	0.96	EPA 8270	7-1-11	7-7-11	
1,2-Dinitrobenzene	ND	0.96	EPA 8270	7-1-11	7-7-11	
Acenaphthylene	ND	0.096	EPA 8270/SIM	7-1-11	7-6-11	
3-Nitroaniline	ND	0.96	EPA 8270	7-1-11	7-7-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR1-062211-GW					
Laboratory ID:	06-212-05					
2,4-Dinitrophenol	ND	4.8	EPA 8270	7-1-11	7-7-11	
Acenaphthene	ND	0.096	EPA 8270/SIM	7-1-11	7-6-11	
4-Nitrophenol	ND	0.96	EPA 8270	7-1-11	7-7-11	
2,4-Dinitrotoluene	ND	0.96	EPA 8270	7-1-11	7-7-11	
Dibenzofuran	ND	0.96	EPA 8270	7-1-11	7-7-11	
2,3,5,6-Tetrachlorophenol	ND	0.96	EPA 8270	7-1-11	7-7-11	
2,3,4,6-Tetrachlorophenol	ND	0.96	EPA 8270	7-1-11	7-7-11	
Diethylphthalate	ND	0.96	EPA 8270	7-1-11	7-7-11	
4-Chlorophenyl-phenylether	ND	0.96	EPA 8270	7-1-11	7-7-11	
4-Nitroaniline	ND	0.96	EPA 8270	7-1-11	7-7-11	
Fluorene	ND	0.096	EPA 8270/SIM	7-1-11	7-6-11	
4,6-Dinitro-2-methylphenol	ND	4.8	EPA 8270	7-1-11	7-7-11	
n-Nitrosodiphenylamine	ND	0.96	EPA 8270	7-1-11	7-7-11	
1,2-Diphenylhydrazine	ND	0.96	EPA 8270	7-1-11	7-7-11	
4-Bromophenyl-phenylether	ND	0.96	EPA 8270	7-1-11	7-7-11	
Hexachlorobenzene	ND	0.96	EPA 8270	7-1-11	7-7-11	
Pentachlorophenol	ND	4.8	EPA 8270	7-1-11	7-7-11	
Phenanthrene	ND	0.096	EPA 8270/SIM	7-1-11	7-6-11	
Anthracene	ND	0.096	EPA 8270/SIM	7-1-11	7-6-11	
Carbazole	ND	0.96	EPA 8270	7-1-11	7-7-11	
Di-n-butylphthalate	ND	0.96	EPA 8270	7-1-11	7-7-11	
Fluoranthene	ND	0.096	EPA 8270/SIM	7-1-11	7-6-11	
Benzidine	ND	4.8	EPA 8270	7-1-11	7-7-11	
Pyrene	ND	0.096	EPA 8270/SIM	7-1-11	7-6-11	
Butylbenzylphthalate	ND	0.96	EPA 8270	7-1-11	7-7-11	
bis-2-Ethylhexyladipate	ND	0.96	EPA 8270	7-1-11	7-7-11	
3,3'-Dichlorobenzidine	ND	0.96	EPA 8270	7-1-11	7-7-11	
Benzo[a]anthracene	ND	0.0096	EPA 8270/SIM	7-1-11	7-6-11	
Chrysene	ND	0.0096	EPA 8270/SIM	7-1-11	7-6-11	
bis(2-Ethylhexyl)phthalate	ND	0.96	EPA 8270	7-1-11	7-7-11	
Di-n-octylphthalate	ND	0.96	EPA 8270	7-1-11	7-7-11	
Benzo[b]fluoranthene	ND	0.0096	EPA 8270/SIM	7-1-11	7-6-11	
Benzo(j,k)fluoranthene	ND	0.0096	EPA 8270/SIM	7-1-11	7-6-11	
Benzo[a]pyrene	ND	0.0096	EPA 8270/SIM	7-1-11	7-6-11	
Indeno[1,2,3-cd]pyrene	ND	0.0096	EPA 8270/SIM	7-1-11	7-6-11	
Dibenz[a,h]anthracene	ND	0.0096	EPA 8270/SIM	7-1-11	7-6-11	
Benzo[g,h,i]perylene	ND	0.0096	EPA 8270/SIM	7-1-11	7-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	37	18 - 86				
Phenol-d6	29	10 - 88				
Nitrobenzene-d5	53	37 - 112				
2-Fluorobiphenyl	62	42 - 108				
2,4,6-Tribromophenol	72	39 - 118				
Terphenyl-d14	78	49 - 122				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR3-062211-GW					
Laboratory ID:	06-212-15					
n-Nitrosodimethylamine	ND	1.0	EPA 8270	7-1-11	7-8-11	
Pyridine	ND	1.0	EPA 8270	7-1-11	7-8-11	
Phenol	ND	1.0	EPA 8270	7-1-11	7-8-11	
Aniline	ND	5.0	EPA 8270	7-1-11	7-8-11	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	7-1-11	7-8-11	
2-Chlorophenol	ND	1.0	EPA 8270	7-1-11	7-8-11	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	7-1-11	7-8-11	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	7-1-11	7-8-11	
Benzyl alcohol	ND	1.0	EPA 8270	7-1-11	7-8-11	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	7-1-11	7-8-11	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	7-1-11	7-8-11	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	7-1-11	7-8-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270	7-1-11	7-8-11	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	7-1-11	7-8-11	
Hexachloroethane	ND	1.0	EPA 8270	7-1-11	7-8-11	
Nitrobenzene	ND	1.0	EPA 8270	7-1-11	7-8-11	
Isophorone	ND	1.0	EPA 8270	7-1-11	7-8-11	
2-Nitrophenol	ND	1.0	EPA 8270	7-1-11	7-8-11	
2,4-Dimethylphenol	ND	1.0	EPA 8270	7-1-11	7-8-11	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	7-1-11	7-8-11	
2,4-Dichlorophenol	ND	1.0	EPA 8270	7-1-11	7-8-11	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	7-1-11	7-8-11	
Naphthalene	ND	0.10	EPA 8270/SIM	7-1-11	7-6-11	
4-Chloroaniline	ND	1.0	EPA 8270	7-1-11	7-8-11	
Hexachlorobutadiene	ND	1.0	EPA 8270	7-1-11	7-8-11	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	7-1-11	7-8-11	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	7-1-11	7-6-11	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	7-1-11	7-6-11	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	7-1-11	7-8-11	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	7-1-11	7-8-11	
2,3-Dichloroaniline	ND	1.0	EPA 8270	7-1-11	7-8-11	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	7-1-11	7-8-11	
2-Chloronaphthalene	ND	1.0	EPA 8270	7-1-11	7-8-11	
2-Nitroaniline	ND	1.0	EPA 8270	7-1-11	7-8-11	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	7-1-11	7-8-11	
Dimethylphthalate	ND	1.0	EPA 8270	7-1-11	7-8-11	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	7-1-11	7-8-11	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	7-1-11	7-8-11	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	7-1-11	7-8-11	
Acenaphthylene	ND	0.10	EPA 8270/SIM	7-1-11	7-6-11	
3-Nitroaniline	ND	1.0	EPA 8270	7-1-11	7-8-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR3-062211-GW					
Laboratory ID:	06-212-15					
2,4-Dinitrophenol	ND	5.0	EPA 8270	7-1-11	7-8-11	
Acenaphthene	ND	0.10	EPA 8270/SIM	7-1-11	7-6-11	
4-Nitrophenol	ND	1.0	EPA 8270	7-1-11	7-8-11	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	7-1-11	7-8-11	
Dibenzofuran	ND	1.0	EPA 8270	7-1-11	7-8-11	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	7-1-11	7-8-11	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	7-1-11	7-8-11	
Diethylphthalate	ND	1.0	EPA 8270	7-1-11	7-8-11	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	7-1-11	7-8-11	
4-Nitroaniline	ND	1.0	EPA 8270	7-1-11	7-8-11	
Fluorene	ND	0.10	EPA 8270/SIM	7-1-11	7-6-11	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	7-1-11	7-8-11	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270	7-1-11	7-8-11	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	7-1-11	7-8-11	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	7-1-11	7-8-11	
Hexachlorobenzene	ND	1.0	EPA 8270	7-1-11	7-8-11	
Pentachlorophenol	ND	5.0	EPA 8270	7-1-11	7-8-11	
Phenanthrene	ND	0.10	EPA 8270/SIM	7-1-11	7-6-11	
Anthracene	ND	0.10	EPA 8270/SIM	7-1-11	7-6-11	
Carbazole	ND	1.0	EPA 8270	7-1-11	7-8-11	
Di-n-butylphthalate	ND	1.0	EPA 8270	7-1-11	7-8-11	
Fluoranthene	ND	0.10	EPA 8270/SIM	7-1-11	7-6-11	
Benzidine	ND	5.0	EPA 8270	7-1-11	7-8-11	
Pyrene	ND	0.10	EPA 8270/SIM	7-1-11	7-6-11	
Butylbenzylphthalate	ND	1.0	EPA 8270	7-1-11	7-8-11	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	7-1-11	7-8-11	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270	7-1-11	7-8-11	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	7-1-11	7-6-11	
Chrysene	ND	0.010	EPA 8270/SIM	7-1-11	7-6-11	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	7-1-11	7-8-11	
Di-n-octylphthalate	ND	1.0	EPA 8270	7-1-11	7-8-11	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	7-1-11	7-6-11	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270/SIM	7-1-11	7-6-11	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	7-1-11	7-6-11	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	7-1-11	7-6-11	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	7-1-11	7-6-11	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	7-1-11	7-6-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>41</i>	<i>18 - 86</i>				
<i>Phenol-d6</i>	<i>33</i>	<i>10 - 88</i>				
<i>Nitrobenzene-d5</i>	<i>59</i>	<i>37 - 112</i>				
<i>2-Fluorobiphenyl</i>	<i>69</i>	<i>42 - 108</i>				
<i>2,4,6-Tribromophenol</i>	<i>78</i>	<i>39 - 118</i>				
<i>Terphenyl-d14</i>	<i>82</i>	<i>49 - 122</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701W1					
n-Nitrosodimethylamine	ND	0.50	EPA 8270	7-1-11	7-1-11	
Pyridine	ND	0.50	EPA 8270	7-1-11	7-1-11	
Phenol	ND	0.50	EPA 8270	7-1-11	7-1-11	
Aniline	ND	2.5	EPA 8270	7-1-11	7-1-11	
bis(2-Chloroethyl)ether	ND	0.50	EPA 8270	7-1-11	7-1-11	
2-Chlorophenol	ND	0.50	EPA 8270	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.50	EPA 8270	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.50	EPA 8270	7-1-11	7-1-11	
Benzyl alcohol	ND	0.50	EPA 8270	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.50	EPA 8270	7-1-11	7-1-11	
2-Methylphenol (o-Cresol)	ND	0.50	EPA 8270	7-1-11	7-1-11	
bis(2-Chloroisopropyl)ether	ND	0.50	EPA 8270	7-1-11	7-1-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.50	EPA 8270	7-1-11	7-1-11	
n-Nitroso-di-n-propylamine	ND	0.50	EPA 8270	7-1-11	7-1-11	
Hexachloroethane	ND	0.50	EPA 8270	7-1-11	7-1-11	
Nitrobenzene	ND	0.50	EPA 8270	7-1-11	7-1-11	
Isophorone	ND	0.50	EPA 8270	7-1-11	7-1-11	
2-Nitrophenol	ND	0.50	EPA 8270	7-1-11	7-1-11	
2,4-Dimethylphenol	ND	0.50	EPA 8270	7-1-11	7-1-11	
bis(2-Chloroethoxy)methane	ND	0.50	EPA 8270	7-1-11	7-1-11	
2,4-Dichlorophenol	ND	0.50	EPA 8270	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.50	EPA 8270	7-1-11	7-1-11	
Naphthalene	ND	0.050	EPA 8270/SIM	7-1-11	7-2-11	
4-Chloroaniline	ND	0.50	EPA 8270	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.50	EPA 8270	7-1-11	7-1-11	
4-Chloro-3-methylphenol	ND	0.50	EPA 8270	7-1-11	7-1-11	
2-Methylnaphthalene	ND	0.050	EPA 8270/SIM	7-1-11	7-2-11	
1-Methylnaphthalene	ND	0.050	EPA 8270/SIM	7-1-11	7-2-11	
Hexachlorocyclopentadiene	ND	0.50	EPA 8270	7-1-11	7-1-11	
2,4,6-Trichlorophenol	ND	0.50	EPA 8270	7-1-11	7-1-11	
2,3-Dichloroaniline	ND	0.50	EPA 8270	7-1-11	7-1-11	
2,4,5-Trichlorophenol	ND	0.50	EPA 8270	7-1-11	7-1-11	
2-Chloronaphthalene	ND	0.50	EPA 8270	7-1-11	7-1-11	
2-Nitroaniline	ND	0.50	EPA 8270	7-1-11	7-1-11	
1,4-Dinitrobenzene	ND	0.50	EPA 8270	7-1-11	7-1-11	
Dimethylphthalate	ND	0.50	EPA 8270	7-1-11	7-1-11	
1,3-Dinitrobenzene	ND	0.50	EPA 8270	7-1-11	7-1-11	
2,6-Dinitrotoluene	ND	0.50	EPA 8270	7-1-11	7-1-11	
1,2-Dinitrobenzene	ND	0.50	EPA 8270	7-1-11	7-1-11	
Acenaphthylene	ND	0.050	EPA 8270/SIM	7-1-11	7-2-11	
3-Nitroaniline	ND	0.50	EPA 8270	7-1-11	7-1-11	

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701W1					
2,4-Dinitrophenol	ND	2.5	EPA 8270	7-1-11	7-1-11	
Acenaphthene	ND	0.050	EPA 8270/SIM	7-1-11	7-2-11	
4-Nitrophenol	ND	0.50	EPA 8270	7-1-11	7-1-11	
2,4-Dinitrotoluene	ND	0.50	EPA 8270	7-1-11	7-1-11	
Dibenzofuran	ND	0.50	EPA 8270	7-1-11	7-1-11	
2,3,5,6-Tetrachlorophenol	ND	0.50	EPA 8270	7-1-11	7-1-11	
2,3,4,6-Tetrachlorophenol	ND	0.50	EPA 8270	7-1-11	7-1-11	
Diethylphthalate	ND	0.50	EPA 8270	7-1-11	7-1-11	
4-Chlorophenyl-phenylether	ND	0.50	EPA 8270	7-1-11	7-1-11	
4-Nitroaniline	ND	0.50	EPA 8270	7-1-11	7-1-11	
Fluorene	ND	0.050	EPA 8270/SIM	7-1-11	7-2-11	
4,6-Dinitro-2-methylphenol	ND	2.5	EPA 8270	7-1-11	7-1-11	
n-Nitrosodiphenylamine	ND	0.50	EPA 8270	7-1-11	7-1-11	
1,2-Diphenylhydrazine	ND	0.50	EPA 8270	7-1-11	7-1-11	
4-Bromophenyl-phenylether	ND	0.50	EPA 8270	7-1-11	7-1-11	
Hexachlorobenzene	ND	0.50	EPA 8270	7-1-11	7-1-11	
Pentachlorophenol	ND	2.5	EPA 8270	7-1-11	7-1-11	
Phenanthrene	ND	0.050	EPA 8270/SIM	7-1-11	7-2-11	
Anthracene	ND	0.050	EPA 8270/SIM	7-1-11	7-2-11	
Carbazole	ND	0.50	EPA 8270	7-1-11	7-1-11	
Di-n-butylphthalate	ND	0.50	EPA 8270	7-1-11	7-1-11	
Fluoranthene	ND	0.050	EPA 8270/SIM	7-1-11	7-2-11	
Benzidine	ND	2.5	EPA 8270	7-1-11	7-1-11	
Pyrene	ND	0.050	EPA 8270/SIM	7-1-11	7-2-11	
Butylbenzylphthalate	ND	0.50	EPA 8270	7-1-11	7-1-11	
bis-2-Ethylhexyladipate	ND	0.50	EPA 8270	7-1-11	7-1-11	
3,3'-Dichlorobenzidine	ND	0.50	EPA 8270	7-1-11	7-1-11	
Benzo[a]anthracene	ND	0.0050	EPA 8270/SIM	7-1-11	7-2-11	
Chrysene	ND	0.0050	EPA 8270/SIM	7-1-11	7-2-11	
bis(2-Ethylhexyl)phthalate	ND	0.50	EPA 8270	7-1-11	7-1-11	
Di-n-octylphthalate	ND	0.50	EPA 8270	7-1-11	7-1-11	
Benzo[b]fluoranthene	ND	0.0050	EPA 8270/SIM	7-1-11	7-2-11	
Benzo(j,k)fluoranthene	ND	0.0050	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[a]pyrene	ND	0.0050	EPA 8270/SIM	7-1-11	7-2-11	
Indeno[1,2,3-cd]pyrene	ND	0.0050	EPA 8270/SIM	7-1-11	7-2-11	
Dibenz[a,h]anthracene	ND	0.0050	EPA 8270/SIM	7-1-11	7-2-11	
Benzo[g,h,i]perylene	ND	0.0050	EPA 8270/SIM	7-1-11	7-2-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>34</i>	<i>18 - 86</i>				
<i>Phenol-d6</i>	<i>25</i>	<i>10 - 88</i>				
<i>Nitrobenzene-d5</i>	<i>46</i>	<i>37 - 112</i>				
<i>2-Fluorobiphenyl</i>	<i>57</i>	<i>42 - 108</i>				
<i>2,4,6-Tribromophenol</i>	<i>61</i>	<i>39 - 118</i>				
<i>Terphenyl-d14</i>	<i>68</i>	<i>49 - 122</i>				

Date of Report: July 8, 2011
 Samples Submitted: June 24, 2011
 Laboratory Reference: 1106-212
 Project: 1005-001

**SEMIVOLATILES by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limits	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0701W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	10.4	11.4	40.0	40.0	26	29	26 - 60	9	29	
2-Chlorophenol	23.2	24.9	40.0	40.0	58	62	46 - 104	7	34	
1,4-Dichlorobenzene	10.6	11.2	20.0	20.0	53	56	48 - 92	6	29	
n-Nitroso-di-n-propylamine	6.25	7.26	20.0	20.0	31	36	30 - 102	15	25	
1,2,4-Trichlorobenzene	9.95	10.4	20.0	20.0	50	52	47 - 91	4	25	
4-Chloro-3-methylphenol	21.4	22.8	40.0	40.0	54	57	53 - 104	6	18	
Acenaphthene	11.5	12.1	20.0	20.0	58	61	57 - 95	5	15	
4-Nitrophenol	15.6	17.2	40.0	40.0	39	43	21 - 75	10	33	
2,4-Dinitrotoluene	12.5	14.1	20.0	20.0	63	71	60 - 105	12	20	
Pentachlorophenol	24.2	27.0	40.0	40.0	61	68	48 - 119	11	31	
Pyrene	13.6	14.8	20.0	20.0	68	74	62 - 111	8	19	
<i>Surrogate:</i>										
2-Fluorophenol					35	38	18 - 86			
Phenol-d6					26	28	10 - 88			
Nitrobenzene-d5					47	51	37 - 112			
2-Fluorobiphenyl					61	63	42 - 108			
2,4,6-Tribromophenol					58	61	39 - 118			
Terphenyl-d14					68	74	45 - 122			

Date of Report: July 8, 2011
Samples Submitted: June 24, 2011
Laboratory Reference: 1106-212
Project: 1005-001

% MOISTURE

Date Analyzed: 6-27&7-1-11

Client ID	Lab ID	% Moisture
FAR1-6.0	06-212-02	13
FAR1-10.0	06-212-03	17
FAR2-2.5	06-212-06	4
FAR2-5.5	06-212-07	5
FAR3-12.5	06-212-13	18
FAR4-4.0	06-212-17	16
FAR4-9.0	06-212-18	20
FAR8-5.0	06-212-20	14
FAR8-11.0	06-212-21	7
FAR14-3.5	06-212-22	6
FAR17-2.5	06-212-25	21
FAR17-8.0	06-212-26	27
FAR18-0.5	06-212-29	26
FAR19-0.5	06-212-30	15
FAR16-2.5	06-212-31	7
FAR11-2.5	06-212-35	9
FAR11-14.5	06-212-38	10
FAR23-2.5	06-212-39	5
FAR23-6.0	06-212-40	12
FAR22-2.5	06-212-43	20
FAR22-6.0	06-212-44	21
FAR22-10.0	06-212-45	16



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



OnSite Environmental Inc.
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • Fax: (425) 885-4603

Chain of Custody

Turnaround Request
 (in working days)

Laboratory Number:

06-212

(Check One)

Same Day 1 Day

2 Day 3 Day

Standard (7 working days)

(other)

Requested Analysis

NWTPH-HCID
NWTPH-Gx/BTEX
NWTPH-Dx
Volatiles by 8260B
Halogenated Volatiles by 8260B
Semivolatiles by 8270C
PAHs by 8270C / SIM
PCBs by 8082
Pesticides by 8081A
Herbicides by 8151A
Total RCRA Metals (6) Metals include 60103/6020
TCLP Metals
HEM by 1664
VPH
EPH
% Moisture

Company: FARALLON
 Project Number: 1005-001
 Project Name: Former Rayquier MILLS
 Project Manager: TAD CLINE
 Sampled by: Ken Smith

Lat ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (6) Metals include 60103/6020	TCLP Metals	HEM by 1664	VPH	EPH	% Moisture	
1	FAR1-2.5	6/22/11	735	S	4																	
2	FAR1-6.0		740	S	4																	
3	FAR1-10.0		750	S	4																	
4	FAR1-16.0		800	S	4																	
5	FAR1-062211-6W		815	W	9																	
6	FAR2-2.5		920	S	4																	
7	FAR2-5.5		915	S	4																	
8	FAR2-13.0		920	S	4																	
9	FAR2-062211-6W		930	W	8																	
10	FAR3-2.5		1015	S	4																	
Relinquished by		Signature	Company	Date	Time	Comments/Special Instructions:																
Received by			FARALLON	6/24/11	1555	3-DAY TURN ON GXBTEX + PK, STANDARD ON SENSITIVITY SAMPLES, Added 6/30/11. DB (STA) Added 7/1/11. DB (STA)																
Relinquished by			OnSite Env	6/24/11	1555																	
Received by																						
Relinquished by																						
Received by																						
Reviewed by/Date						Chromatograms with final report <input type="checkbox"/>																



M Onsite Environmental Inc.
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Laboratory Number: **06-212**

Turnaround Request
(In working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

(other)

Number of Containers

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx	<input checked="" type="checkbox"/>
Volatiles 8260B	
Halogenated Volatiles 8260B	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082	
Organochlorine Pesticides 8081A	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total BCRA / MTCA Metals (circle one)	6010B / 6020
TCLP Metals	
HEM (oil and grease) 1664	

% Moisture

Company: FARALLON
 Project Number: 1005-001
 Project Name: Former Rayouiser Mill
 Project Manager: TAD CLINE
 Sampled by: Ken Smith, DJ

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Date	Time	Comments/Special Instructions
21	FAR8-11.0	6/23/11	7455	S	4			
22	FAR14-3.5		1540	S	4			
23	FAR14-7.5		1555	S	4			
24	FAR14-062211-GW		1655	W	9			
25	FAR17-2.5	6/23/11	7225	S	4			
26	FAR17-8.0		745	S	4			
27	FAR17-12.0		755	S	4			
28	FAR17-062311-GW		810	W	9			
29	FAR18-0.5		920	S	1			
30	FAR19-0.5		930	S	1			

Relinquished Signature: *Ken Smith* Company: FARALLON
 Received Signature: *Tad Cline* Company: *Redmond, WA*
 Relinquished
 Received
 Reviewed/Date

Reviewed/Date

Chromatograms with final report

See page #1
 Added 6/30/11. DB (STA)
 Added 7/1/11. DB (STA)



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 Phone: (425) 883-3981 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

(other)

Laboratory Number:

06-212

Company: **FARALLON**
 Project Number: **1005-001**
 Project Name: **Former Rayquiter MILL**
 Project Manager: **TAD CLINE**
 Sampled by: **Ken Suss**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total PCBs / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	% Moisture	
41	FAR23-10.0	4/24/11	755	S	4																	
42	FAR23-13.5		815	S	4																	
43	FAR22-2.5		925	S	4		X	XX		X				XXX					X			
44	FAR22-6.0		930	S	4																	
45	FAR22-10.0		945	S	4																	
46	FAR22-062411-600		1010	N	9		X	XX		X												

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	FARALLON	4/24/11	1555	See page #1
<i>[Signature]</i>	ON SITE	4/24/11	1555	Added 6/30/11. DB (STA)
				Added 7/1/11. DB (STA)

Received/Date _____

Relinquished _____

Relinquished _____

Received _____

Relinquished _____

Received _____

Relinquished _____

Reviewed/Date _____

Reviewed/Date _____

Chromatograms with final report



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 6, 2011

Tad Cline
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1005-001
Laboratory Reference No. 1106-251

Dear Tad:

Enclosed are the analytical results and associated quality control data for samples submitted on June 29, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: July 6, 2011
Samples Submitted: June 29, 2011
Laboratory Reference: 1106-251
Project: 1005-001

Case Narrative

Samples were collected on June 28, 2011 and received by the laboratory on June 29, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PA-19-062811-GW					
Laboratory ID:	06-251-01					
Gasoline	ND	100	NWTPH-Gx	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	73-121				
Client ID:	FAR-16-062811-GW					
Laboratory ID:	06-251-02					
Benzene	ND	1.0	EPA 8021	7-1-11	7-1-11	
Toluene	ND	1.0	EPA 8021	7-1-11	7-1-11	
Ethyl Benzene	ND	1.0	EPA 8021	7-1-11	7-1-11	
m,p-Xylene	ND	1.0	EPA 8021	7-1-11	7-1-11	
o-Xylene	ND	1.0	EPA 8021	7-1-11	7-1-11	
Gasoline	ND	100	NWTPH-Gx	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	73-121				
Client ID:	PZ-12-062811-GW					
Laboratory ID:	06-251-03					
Gasoline	ND	100	NWTPH-Gx	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	73-121				

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Benzene	ND	1.0	EPA 8021	7-1-11	7-1-11	
Toluene	ND	1.0	EPA 8021	7-1-11	7-1-11	
Ethyl Benzene	ND	1.0	EPA 8021	7-1-11	7-1-11	
m,p-Xylene	ND	1.0	EPA 8021	7-1-11	7-1-11	
o-Xylene	ND	1.0	EPA 8021	7-1-11	7-1-11	
Gasoline	ND	100	NWTPH-Gx	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	73-121				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-251-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				90	102	73-121		

MATRIX SPIKES

Laboratory ID:	06-251-01									
	MS	MSD	MS	MSD		MS	MSD			
Benzene	50.3	51.2	50.0	50.0	ND	101	102	82-120	2	8
Toluene	52.3	54.2	50.0	50.0	ND	105	108	84-119	4	8
Ethyl Benzene	49.5	53.3	50.0	50.0	ND	99	107	84-122	7	9
m,p-Xylene	49.0	53.0	50.0	50.0	ND	98	106	85-121	8	9
o-Xylene	49.3	52.7	50.0	50.0	ND	99	105	84-121	7	9
<i>Surrogate:</i>										
<i>Fluorobenzene</i>						110	106	73-121		

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR-11-062811-GW					
Laboratory ID:	06-251-04					
Gasoline	ND	100	NWTPH-Gx	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	73-121				

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Gasoline	ND	100	NWTPH-Gx	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	73-121				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-251-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				90	102	73-121		

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

NWTPH-Dx
 (with acid/silica gel clean-up)

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PA-19-062811-GW					
Laboratory ID:	06-251-01					
Diesel Range Organics	ND	0.26	NWTPH-Dx	7-1-11	7-1-11	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	100	50-150				

Client ID:	FAR-16-062811-GW					
Laboratory ID:	06-251-02					
Diesel Range Organics	ND	0.26	NWTPH-Dx	7-1-11	7-1-11	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				

Client ID:	PZ-12-062811-GW					
Laboratory ID:	06-251-03					
Diesel Range Organics	ND	0.26	NWTPH-Dx	7-1-11	7-1-11	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Client ID:	FAR-11-062811-GW					
Laboratory ID:	06-251-04					
Diesel Range Organics	ND	0.26	NWTPH-Dx	7-1-11	7-1-11	
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	100	50-150				

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

**NWTPH-Dx
 QUALITY CONTROL
 (with acid/silica gel clean-up)**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	7-1-11	7-1-11	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	97	50-150				

Analyte	Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE						
Laboratory ID:	06-251-01					
	ORIG	DUP				
Diesel Range Organics	ND	ND		NA	NA	
Lube Oil Range Organics	ND	ND		NA	NA	
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			100 94	50-150		

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

VOLATILES by EPA 8260B
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PA-19-062811-GW					
Laboratory ID:	06-251-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Acetone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	2.0	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Toluene	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

VOLATILES by EPA 8260B
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PA-19-062811-GW					
Laboratory ID:	06-251-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.40	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	1.0	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>68-110</i>				
<i>Toluene-d8</i>	<i>90</i>	<i>73-110</i>				
<i>4-Bromofluorobenzene</i>	<i>80</i>	<i>65-110</i>				

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

VOLATILES by EPA 8260B
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PZ-12-062811-GW					
Laboratory ID:	06-251-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Acetone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	2.0	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Toluene	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	

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 Samples Submitted: June 29, 2011
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PZ-12-062811-GW					
Laboratory ID:	06-251-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.40	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	1.0	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>85</i>	<i>68-110</i>				
<i>Toluene-d8</i>	<i>90</i>	<i>73-110</i>				
<i>4-Bromofluorobenzene</i>	<i>82</i>	<i>65-110</i>				

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Acetone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	2.0	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Toluene	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.40	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	1.0	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>68-110</i>				
<i>Toluene-d8</i>	<i>92</i>	<i>73-110</i>				
<i>4-Bromofluorobenzene</i>	<i>82</i>	<i>65-110</i>				

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

VOLATILES by EPA 8260B
SB/SBD QUALITY CONTROL

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Limit	Flags
					Recovery	Limits	RPD				
SPIKE BLANKS											
Laboratory ID:	SB0701W2										
	SB	SBD	SB	SBD	SB	SBD					
1,1-Dichloroethene	10.9	11.4	10.0	10.0	109	114	70-130	4	11		
Benzene	9.77	10.1	10.0	10.0	98	101	75-123	3	8		
Trichloroethene	10.2	10.0	10.0	10.0	102	100	80-113	2	9		
Toluene	10.1	10.3	10.0	10.0	101	103	80-113	2	8		
Chlorobenzene	10.1	10.2	10.0	10.0	101	102	80-111	1	8		
<i>Surrogate:</i>											
<i>Dibromofluoromethane</i>					82	88	68-110				
<i>Toluene-d8</i>					90	91	73-110				
<i>4-Bromofluorobenzene</i>					82	82	65-110				

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

VOLATILES by EPA 8260B
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR-11-062811-GW					
Laboratory ID:	06-251-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Acetone	13	5.0	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	2.0	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroform	0.53	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Toluene	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR-11-062811-GW					
Laboratory ID:	06-251-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.40	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	1.0	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	0.26	0.20	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>85</i>	<i>68-110</i>				
<i>Toluene-d8</i>	<i>89</i>	<i>73-110</i>				
<i>4-Bromofluorobenzene</i>	<i>79</i>	<i>65-110</i>				

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloromethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Vinyl Chloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Acetone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Iodomethane	ND	1.0	EPA 8260	7-1-11	7-1-11	
Carbon Disulfide	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methylene Chloride	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Vinyl Acetate	ND	2.0	EPA 8260	7-1-11	7-1-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Butanone	ND	5.0	EPA 8260	7-1-11	7-1-11	
Bromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chloroform	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Benzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Trichloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Dibromomethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromodichloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	7-1-11	7-1-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Toluene	ND	1.0	EPA 8260	7-1-11	7-1-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	7-1-11	7-1-11	

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 Samples Submitted: June 29, 2011
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VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0701W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Tetrachloroethene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Hexanone	ND	2.0	EPA 8260	7-1-11	7-1-11	
Dibromochloromethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Chlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
Ethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
m,p-Xylene	ND	0.40	EPA 8260	7-1-11	7-1-11	
o-Xylene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Styrene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromoform	ND	1.0	EPA 8260	7-1-11	7-1-11	
Isopropylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Bromobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Propylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
2-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
4-Chlorotoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
tert-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
sec-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,4-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
n-Butylbenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Hexachlorobutadiene	ND	0.20	EPA 8260	7-1-11	7-1-11	
Naphthalene	ND	1.0	EPA 8260	7-1-11	7-1-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	7-1-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>68-110</i>				
<i>Toluene-d8</i>	<i>92</i>	<i>73-110</i>				
<i>4-Bromofluorobenzene</i>	<i>82</i>	<i>65-110</i>				

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0701W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.9	11.4	10.0	10.0	109	114	70-130	4	11	
Benzene	9.77	10.1	10.0	10.0	98	101	75-123	3	8	
Trichloroethene	10.2	10.0	10.0	10.0	102	100	80-113	2	9	
Toluene	10.1	10.3	10.0	10.0	101	103	80-113	2	8	
Chlorobenzene	10.1	10.2	10.0	10.0	101	102	80-111	1	8	
<i>Surrogate:</i>										
Dibromofluoromethane					82	88	68-110			
Toluene-d8					90	91	73-110			
4-Bromofluorobenzene					82	82	65-110			

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR-11-062811-GW					
Laboratory ID:	06-251-04					
n-Nitrosodimethylamine	ND	0.96	EPA 8270	6-30-11	7-1-11	
Pyridine	ND	0.96	EPA 8270	6-30-11	7-1-11	
Phenol	ND	0.96	EPA 8270	6-30-11	7-1-11	
Aniline	ND	4.8	EPA 8270	6-30-11	7-1-11	
bis(2-Chloroethyl)ether	ND	0.96	EPA 8270	6-30-11	7-1-11	
2-Chlorophenol	ND	0.96	EPA 8270	6-30-11	7-1-11	
1,3-Dichlorobenzene	ND	0.96	EPA 8270	6-30-11	7-1-11	
1,4-Dichlorobenzene	ND	0.96	EPA 8270	6-30-11	7-1-11	
Benzyl alcohol	ND	0.96	EPA 8270	6-30-11	7-1-11	
1,2-Dichlorobenzene	ND	0.96	EPA 8270	6-30-11	7-1-11	
2-Methylphenol (o-Cresol)	ND	0.96	EPA 8270	6-30-11	7-1-11	
bis(2-Chloroisopropyl)ether	ND	0.96	EPA 8270	6-30-11	7-1-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.96	EPA 8270	6-30-11	7-1-11	
n-Nitroso-di-n-propylamine	ND	0.96	EPA 8270	6-30-11	7-1-11	
Hexachloroethane	ND	0.96	EPA 8270	6-30-11	7-1-11	
Nitrobenzene	ND	0.96	EPA 8270	6-30-11	7-1-11	
Isophorone	ND	0.96	EPA 8270	6-30-11	7-1-11	
2-Nitrophenol	ND	0.96	EPA 8270	6-30-11	7-1-11	
2,4-Dimethylphenol	ND	0.96	EPA 8270	6-30-11	7-1-11	
bis(2-Chloroethoxy)methane	ND	0.96	EPA 8270	6-30-11	7-1-11	
2,4-Dichlorophenol	ND	0.96	EPA 8270	6-30-11	7-1-11	
1,2,4-Trichlorobenzene	ND	0.96	EPA 8270	6-30-11	7-1-11	
Naphthalene	ND	0.096	EPA 8270/SIM	6-30-11	7-1-11	
4-Chloroaniline	ND	0.96	EPA 8270	6-30-11	7-1-11	
Hexachlorobutadiene	ND	0.96	EPA 8270	6-30-11	7-1-11	
4-Chloro-3-methylphenol	ND	0.96	EPA 8270	6-30-11	7-1-11	
2-Methylnaphthalene	ND	0.096	EPA 8270/SIM	6-30-11	7-1-11	
1-Methylnaphthalene	ND	0.096	EPA 8270/SIM	6-30-11	7-1-11	
Hexachlorocyclopentadiene	ND	0.96	EPA 8270	6-30-11	7-1-11	
2,4,6-Trichlorophenol	ND	0.96	EPA 8270	6-30-11	7-1-11	
2,3-Dichloroaniline	ND	0.96	EPA 8270	6-30-11	7-1-11	
2,4,5-Trichlorophenol	ND	0.96	EPA 8270	6-30-11	7-1-11	
2-Chloronaphthalene	ND	0.96	EPA 8270	6-30-11	7-1-11	
2-Nitroaniline	ND	0.96	EPA 8270	6-30-11	7-1-11	
1,4-Dinitrobenzene	ND	0.96	EPA 8270	6-30-11	7-1-11	
Dimethylphthalate	ND	0.96	EPA 8270	6-30-11	7-1-11	
1,3-Dinitrobenzene	ND	0.96	EPA 8270	6-30-11	7-1-11	
2,6-Dinitrotoluene	ND	0.96	EPA 8270	6-30-11	7-1-11	
1,2-Dinitrobenzene	ND	0.96	EPA 8270	6-30-11	7-1-11	
Acenaphthylene	ND	0.096	EPA 8270/SIM	6-30-11	7-1-11	
3-Nitroaniline	ND	0.96	EPA 8270	6-30-11	7-1-11	

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FAR-11-062811-GW					
Laboratory ID:	06-251-04					
2,4-Dinitrophenol	ND	4.8	EPA 8270	6-30-11	7-1-11	
Acenaphthene	ND	0.096	EPA 8270/SIM	6-30-11	7-1-11	
4-Nitrophenol	ND	0.96	EPA 8270	6-30-11	7-1-11	
2,4-Dinitrotoluene	ND	0.96	EPA 8270	6-30-11	7-1-11	
Dibenzofuran	ND	0.96	EPA 8270	6-30-11	7-1-11	
2,3,5,6-Tetrachlorophenol	ND	0.96	EPA 8270	6-30-11	7-1-11	
2,3,4,6-Tetrachlorophenol	ND	0.96	EPA 8270	6-30-11	7-1-11	
Diethylphthalate	ND	0.96	EPA 8270	6-30-11	7-1-11	
4-Chlorophenyl-phenylether	ND	0.96	EPA 8270	6-30-11	7-1-11	
4-Nitroaniline	ND	0.96	EPA 8270	6-30-11	7-1-11	
Fluorene	ND	0.096	EPA 8270/SIM	6-30-11	7-1-11	
4,6-Dinitro-2-methylphenol	ND	4.8	EPA 8270	6-30-11	7-1-11	
n-Nitrosodiphenylamine	ND	0.96	EPA 8270	6-30-11	7-1-11	
1,2-Diphenylhydrazine	ND	0.96	EPA 8270	6-30-11	7-1-11	
4-Bromophenyl-phenylether	ND	0.96	EPA 8270	6-30-11	7-1-11	
Hexachlorobenzene	ND	0.96	EPA 8270	6-30-11	7-1-11	
Pentachlorophenol	ND	4.8	EPA 8270	6-30-11	7-1-11	
Phenanthrene	ND	0.096	EPA 8270/SIM	6-30-11	7-1-11	
Anthracene	ND	0.096	EPA 8270/SIM	6-30-11	7-1-11	
Carbazole	ND	0.96	EPA 8270	6-30-11	7-1-11	
Di-n-butylphthalate	ND	0.96	EPA 8270	6-30-11	7-1-11	
Fluoranthene	ND	0.096	EPA 8270/SIM	6-30-11	7-1-11	
Benzidine	ND	4.8	EPA 8270	6-30-11	7-1-11	
Pyrene	ND	0.096	EPA 8270/SIM	6-30-11	7-1-11	
Butylbenzylphthalate	ND	0.96	EPA 8270	6-30-11	7-1-11	
bis-2-Ethylhexyladipate	ND	0.96	EPA 8270	6-30-11	7-1-11	
3,3'-Dichlorobenzidine	ND	0.96	EPA 8270	6-30-11	7-1-11	
Benzo[a]anthracene	ND	0.0096	EPA 8270/SIM	6-30-11	7-1-11	
Chrysene	ND	0.0096	EPA 8270/SIM	6-30-11	7-1-11	
bis(2-Ethylhexyl)phthalate	ND	0.96	EPA 8270	6-30-11	7-1-11	
Di-n-octylphthalate	ND	0.96	EPA 8270	6-30-11	7-1-11	
Benzo[b]fluoranthene	ND	0.0096	EPA 8270/SIM	6-30-11	7-1-11	
Benzo(j,k)fluoranthene	ND	0.0096	EPA 8270/SIM	6-30-11	7-1-11	
Benzo[a]pyrene	ND	0.0096	EPA 8270/SIM	6-30-11	7-1-11	
Indeno[1,2,3-cd]pyrene	ND	0.0096	EPA 8270/SIM	6-30-11	7-1-11	
Dibenz[a,h]anthracene	ND	0.0096	EPA 8270/SIM	6-30-11	7-1-11	
Benzo[g,h,i]perylene	ND	0.0096	EPA 8270/SIM	6-30-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>33</i>	<i>18 - 86</i>				
<i>Phenol-d6</i>	<i>26</i>	<i>10 - 88</i>				
<i>Nitrobenzene-d5</i>	<i>49</i>	<i>37 - 112</i>				
<i>2-Fluorobiphenyl</i>	<i>68</i>	<i>42 - 108</i>				
<i>2,4,6-Tribromophenol</i>	<i>70</i>	<i>39 - 118</i>				
<i>Terphenyl-d14</i>	<i>75</i>	<i>49 - 122</i>				

Date of Report: July 6, 2011
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 Laboratory Reference: 1106-251
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0630W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270	6-30-11	7-1-11	
Pyridine	ND	1.0	EPA 8270	6-30-11	7-1-11	
Phenol	ND	1.0	EPA 8270	6-30-11	7-1-11	
Aniline	ND	5.0	EPA 8270	6-30-11	7-1-11	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270	6-30-11	7-1-11	
2-Chlorophenol	ND	1.0	EPA 8270	6-30-11	7-1-11	
1,3-Dichlorobenzene	ND	1.0	EPA 8270	6-30-11	7-1-11	
1,4-Dichlorobenzene	ND	1.0	EPA 8270	6-30-11	7-1-11	
Benzyl alcohol	ND	1.0	EPA 8270	6-30-11	7-1-11	
1,2-Dichlorobenzene	ND	1.0	EPA 8270	6-30-11	7-1-11	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270	6-30-11	7-1-11	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270	6-30-11	7-1-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270	6-30-11	7-1-11	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270	6-30-11	7-1-11	
Hexachloroethane	ND	1.0	EPA 8270	6-30-11	7-1-11	
Nitrobenzene	ND	1.0	EPA 8270	6-30-11	7-1-11	
Isophorone	ND	1.0	EPA 8270	6-30-11	7-1-11	
2-Nitrophenol	ND	1.0	EPA 8270	6-30-11	7-1-11	
2,4-Dimethylphenol	ND	1.0	EPA 8270	6-30-11	7-1-11	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270	6-30-11	7-1-11	
2,4-Dichlorophenol	ND	1.0	EPA 8270	6-30-11	7-1-11	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270	6-30-11	7-1-11	
Naphthalene	ND	0.10	EPA 8270/SIM	6-30-11	7-1-11	
4-Chloroaniline	ND	1.0	EPA 8270	6-30-11	7-1-11	
Hexachlorobutadiene	ND	1.0	EPA 8270	6-30-11	7-1-11	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270	6-30-11	7-1-11	
2-Methylnaphthalene	ND	0.10	EPA 8270/SIM	6-30-11	7-1-11	
1-Methylnaphthalene	ND	0.10	EPA 8270/SIM	6-30-11	7-1-11	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270	6-30-11	7-1-11	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270	6-30-11	7-1-11	
2,3-Dichloroaniline	ND	1.0	EPA 8270	6-30-11	7-1-11	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270	6-30-11	7-1-11	
2-Chloronaphthalene	ND	1.0	EPA 8270	6-30-11	7-1-11	
2-Nitroaniline	ND	1.0	EPA 8270	6-30-11	7-1-11	
1,4-Dinitrobenzene	ND	1.0	EPA 8270	6-30-11	7-1-11	
Dimethylphthalate	ND	1.0	EPA 8270	6-30-11	7-1-11	
1,3-Dinitrobenzene	ND	1.0	EPA 8270	6-30-11	7-1-11	
2,6-Dinitrotoluene	ND	1.0	EPA 8270	6-30-11	7-1-11	
1,2-Dinitrobenzene	ND	1.0	EPA 8270	6-30-11	7-1-11	
Acenaphthylene	ND	0.10	EPA 8270/SIM	6-30-11	7-1-11	
3-Nitroaniline	ND	1.0	EPA 8270	6-30-11	7-1-11	

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

SEMIVOLATILES by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0630W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270	6-30-11	7-1-11	
Acenaphthene	ND	0.10	EPA 8270/SIM	6-30-11	7-1-11	
4-Nitrophenol	ND	1.0	EPA 8270	6-30-11	7-1-11	
2,4-Dinitrotoluene	ND	1.0	EPA 8270	6-30-11	7-1-11	
Dibenzofuran	ND	1.0	EPA 8270	6-30-11	7-1-11	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270	6-30-11	7-1-11	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270	6-30-11	7-1-11	
Diethylphthalate	ND	1.0	EPA 8270	6-30-11	7-1-11	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270	6-30-11	7-1-11	
4-Nitroaniline	ND	1.0	EPA 8270	6-30-11	7-1-11	
Fluorene	ND	0.10	EPA 8270/SIM	6-30-11	7-1-11	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270	6-30-11	7-1-11	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270	6-30-11	7-1-11	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270	6-30-11	7-1-11	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270	6-30-11	7-1-11	
Hexachlorobenzene	ND	1.0	EPA 8270	6-30-11	7-1-11	
Pentachlorophenol	ND	5.0	EPA 8270	6-30-11	7-1-11	
Phenanthrene	ND	0.10	EPA 8270/SIM	6-30-11	7-1-11	
Anthracene	ND	0.10	EPA 8270/SIM	6-30-11	7-1-11	
Carbazole	ND	1.0	EPA 8270	6-30-11	7-1-11	
Di-n-butylphthalate	ND	1.0	EPA 8270	6-30-11	7-1-11	
Fluoranthene	ND	0.10	EPA 8270/SIM	6-30-11	7-1-11	
Benzidine	ND	5.0	EPA 8270	6-30-11	7-1-11	
Pyrene	ND	0.10	EPA 8270/SIM	6-30-11	7-1-11	
Butylbenzylphthalate	ND	1.0	EPA 8270	6-30-11	7-1-11	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270	6-30-11	7-1-11	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270	6-30-11	7-1-11	
Benzo[a]anthracene	ND	0.010	EPA 8270/SIM	6-30-11	7-1-11	
Chrysene	ND	0.010	EPA 8270/SIM	6-30-11	7-1-11	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270	6-30-11	7-1-11	
Di-n-octylphthalate	ND	1.0	EPA 8270	6-30-11	7-1-11	
Benzo[b]fluoranthene	ND	0.010	EPA 8270/SIM	6-30-11	7-1-11	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270/SIM	6-30-11	7-1-11	
Benzo[a]pyrene	ND	0.010	EPA 8270/SIM	6-30-11	7-1-11	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270/SIM	6-30-11	7-1-11	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270/SIM	6-30-11	7-1-11	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270/SIM	6-30-11	7-1-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>33</i>	<i>18 - 86</i>				
<i>Phenol-d6</i>	<i>24</i>	<i>10 - 88</i>				
<i>Nitrobenzene-d5</i>	<i>45</i>	<i>37 - 112</i>				
<i>2-Fluorobiphenyl</i>	<i>61</i>	<i>42 - 108</i>				
<i>2,4,6-Tribromophenol</i>	<i>62</i>	<i>39 - 118</i>				
<i>Terphenyl-d14</i>	<i>69</i>	<i>49 - 122</i>				

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

**SEMIVOLATILES by EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limits	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0630W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	10.6	10.2	40.0	40.0	27	26	26 - 60	4	29	
2-Chlorophenol	24.4	26.2	40.0	40.0	61	66	46 - 104	7	34	
1,4-Dichlorobenzene	11.1	12.2	20.0	20.0	56	61	48 - 92	9	29	
n-Nitroso-di-n-propylamine	9.38	10.2	20.0	20.0	47	51	30 - 102	8	25	
1,2,4-Trichlorobenzene	10.2	11.5	20.0	20.0	51	58	47 - 91	12	25	
4-Chloro-3-methylphenol	25.0	24.8	40.0	40.0	63	62	53 - 104	1	18	
Acenaphthene	13.2	13.6	20.0	20.0	66	68	57 - 95	3	15	
4-Nitrophenol	18.7	16.2	40.0	40.0	47	41	21 - 75	14	33	
2,4-Dinitrotoluene	15.5	15.5	20.0	20.0	78	78	60 - 105	0	20	
Pentachlorophenol	29.4	29.0	40.0	40.0	74	73	48 - 119	1	31	
Pyrene	15.5	16.6	20.0	20.0	78	83	62 - 111	7	19	
<i>Surrogate:</i>										
2-Fluorophenol					37	36	18 - 86			
Phenol-d6					26	25	10 - 88			
Nitrobenzene-d5					50	54	37 - 112			
2-Fluorobiphenyl					67	70	42 - 108			
2,4,6-Tribromophenol					71	71	39 - 118			
Terphenyl-d14					78	84	49 - 122			

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

DISSOLVED METALS
EPA 6020/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-251-01					
Client ID:	PA-19-062811-GW					
Arsenic	ND	3.0	6020		7-1-11	
Cadmium	ND	4.0	6020		7-1-11	
Chromium	ND	10.0	6020		7-1-11	
Lead	ND	1.0	6020		7-1-11	
Mercury	ND	0.50	7470A		7-1-11	

Lab ID:	06-251-02					
Client ID:	FAR-16-062811-GW					
Arsenic	5.9	3.0	6020		7-1-11	
Cadmium	ND	4.0	6020		7-1-11	
Chromium	ND	10.0	6020		7-1-11	
Lead	ND	1.0	6020		7-1-11	
Mercury	ND	0.50	7470A		7-1-11	

Lab ID:	06-251-03					
Client ID:	PZ-12-062811-GW					
Arsenic	ND	3.0	6020		7-1-11	
Cadmium	ND	4.0	6020		7-1-11	
Chromium	ND	10.0	6020		7-1-11	
Lead	ND	1.0	6020		7-1-11	
Mercury	ND	0.50	7470A		7-1-11	

Date of Report: July 6, 2011
Samples Submitted: June 29, 2011
Laboratory Reference: 1106-251
Project: 1005-001

DISSOLVED METALS
EPA 6020/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-251-04					
Client ID:	FAR-11-062811-GW					
Arsenic	ND	3.0	6020		7-1-11	
Cadmium	ND	4.0	6020		7-1-11	
Chromium	ND	10.0	6020		7-1-11	
Lead	ND	1.0	6020		7-1-11	
Mercury	ND	0.50	7470A		7-1-11	

Date of Report: July 6, 2011
Samples Submitted: June 29, 2011
Laboratory Reference: 1106-251
Project: 1005-001

**DISSOLVED METALS
EPA 6020
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 7-1-11
Matrix: Water
Units: ug/L (ppb)
Lab ID: MB0701D2

Analyte	Method	Result	PQL
Arsenic	6020	ND	3.0
Cadmium	6020	ND	4.0
Chromium	6020	ND	10
Lead	6020	ND	1.0

Date of Report: July 6, 2011
Samples Submitted: June 29, 2011
Laboratory Reference: 1106-251
Project: 1005-001

**DISSOLVED METALS
EPA 7470A
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 7-1-11
Matrix: Water
Units: ug/L (ppb)
Lab ID: MB0624F1

Analyte	Method	Result	PQL
Mercury	7470A	ND	0.50

Date of Report: July 6, 2011
Samples Submitted: June 29, 2011
Laboratory Reference: 1106-251
Project: 1005-001

**DISSOLVED METALS
EPA 6020
DUPLICATE QUALITY CONTROL**

Date Analyzed: 7-1-11

Matrix: Water
Units: ug/L (ppb)

Lab ID: 06-251-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	3.0	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Lead	ND	ND	NA	1.0	

Date of Report: July 6, 2011
Samples Submitted: June 29, 2011
Laboratory Reference: 1106-251
Project: 1005-001

**DISSOLVED METALS
EPA 7470A
DUPLICATE QUALITY CONTROL**

Date Analyzed: 7-1-11
Matrix: Water
Units: ug/L (ppb)
Lab ID: 06-206-09

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.50	

Date of Report: July 6, 2011
 Samples Submitted: June 29, 2011
 Laboratory Reference: 1106-251
 Project: 1005-001

**DISSOLVED METALS
 EPA 6020
 MS/MSD QUALITY CONTROL**

Date Analyzed: 7-1-11

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 06-251-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	200	210	105	213	106	1	
Cadmium	200	202	101	202	101	0	
Chromium	200	198	99	196	98	1	
Lead	200	201	100	201	100	0	

Date of Report: July 6, 2011
Samples Submitted: June 29, 2011
Laboratory Reference: 1106-251
Project: 1005-001

**DISSOLVED METALS
EPA 7470A
MS/MSD QUALITY CONTROL**

Date Analyzed: 7-1-11

Matrix: Water
Units: ug/L (ppb)

Lab ID: 06-206-09

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	12.5	11.3	91	11.2	90	1	



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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Chain of Custody

Laboratory Number: **06-251**

06-251

Turnaround Request
(in working days)
(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

(other)

Company: FARALLON
Project Number: 1005-001
Project Name: Former Bayoulier Mill
Project Manager: TAD CLINE
Sampled by: Ken Smith

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	PA-19-062811-GW	6/29/11	1215	W 10
2	FAR-16-062811-GW		1305	W 10
3	PZ-12-062811-GW		1350	W 10
4	FAR-11-062811-GW		1440	W 12
5	Triplanks			W 2

Number of Containers	
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx	
Volatiles 8260B	
Halogenated Volatiles 8260B	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082	
Organochlorine Pesticides 8081A	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total ROPA / MTCA Metals (circle one)	6010B/6020
TCLP Metals	
HEM (oil and grease) 1664	
% Moisture	

125

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	FARALLON	6/29/11	1845	All metal samples field-filtered, run 3-day turb for TPH on PA-19, PZ-12, & FAR-16. 5 samples turned out other

Relinquished
Received
Relinquished
Received
Relinquished
Received
Reviewed/Date

Reviewed/Date

Chromatograms with final report



APPENDIX H
Assessment of Groundwater-to-Sediment
Exposure Pathway

Appendix H Assessment of Groundwater-to-Sediment Exposure Pathway

An empirical evaluation was conducted to assess the potential for marine sediments offshore of the Rayonier Mill property to become impaired by the discharge of groundwater containing mill-related contaminants from the Upland Study Area to Port Angeles Harbor. The potential groundwater-to-sediment exposure pathway was evaluated by comparing available groundwater analytical data for constituents detected in offshore marine surface sediments at concentrations exceeding Washington State sediment quality standards (SQS) (WAC 173-204-320) to preliminary groundwater screening levels developed by the Washington State Department of Ecology (Ecology) for the protection of marine sediments. Ecology's preliminary groundwater screening levels protective of marine sediments are contained in the spreadsheet file "Draft LDW ARARs CULs v12r5.xls" developed by Ron Timm of Ecology in 2011. The constituents detected in offshore marine surface sediments at concentrations exceeding SQS are identified in the Interim Action Report Volume II: Marine Data Summary Report (Marine Data Summary Report) (Windward Environmental, in preparation). Figure H-1, prepared from marine sediment sampling information to be published in the Marine Data Summary Report, shows the constituents and surface sediment locations exceeding SQS in the area offshore of the mill property.

For each of the defined functional use areas bordering Port Angeles Harbor (Northwest Shoreline Area, West Former Mill Area, North Shoreline Area, Estuary Area, and East Shoreline Area) (see Section 6.4 of the Upland Data Summary report for a discussion of functional use areas), available groundwater analytical data from the recent (2010-2011) and historical sampling of shoreline monitoring wells were screened against Ecology's preliminary groundwater screening levels for the constituents that exceed SQS in marine surface sediments offshore of the area. Groundwater in the shoreline monitoring wells is assumed to be representative of the Upland Study Area groundwater that may mix with seawater in the nearshore environment before discharging to Port Angeles Harbor. Accordingly, if the review of the available groundwater analytical data indicated that a particular constituent exceeding SQS in marine sediments was detected in one or more upgradient shoreline monitoring wells at concentrations above the preliminary screening level protective of sediments, this was taken as possible evidence of a complete groundwater-to-sediment pathway. Potentially complete groundwater-to-sediment pathways identified using this approach were then further assessed to evaluate the relative strength of the evidence for a complete pathway. For example, the number/frequency, spatial distribution/proximity, and magnitude of exceedances in groundwater and sediment were reviewed to assess the likelihood that the exceedances detected in sediment are in fact a direct result of the migration and discharge of contaminated groundwater through the sediment.

Table H-1 presents the Ecology preliminary groundwater screening levels protective of marine sediments for those constituents detected above SQS in marine surface sediments offshore of the mill property. Two sets of preliminary screening levels are shown in Table H-1: screening levels protective of sediments at the level of the SQS chemical criteria (Ecology's most conservative/stringent sediment criteria), and screening levels protective of sediments at the level of Washington State cleanup screening levels (CSL) chemical criteria (WAC 173-204-520). Because the CSL criteria are generally less stringent than the SQS criteria, the preliminary groundwater screening levels protective at the level of the CSL criteria are generally less stringent than the screening levels protective at the level of the SQS criteria. Table H-2 presents a summary of the groundwater screening analysis performed to evaluate the groundwater-to-sediment pathway. The results of the evaluation for each functional use area are presented below. In addition to Tables H-1 and H-2, this appendix includes copies of relevant marine sediment analytical data

tables from previously published reports—these data tables contain analytical results for samples and constituents exceeding SCS criteria in surface sediments offshore of the mill property.

Northwest Shoreline Area

As shown in Figure H-1, the following constituents have been detected in marine surface sediments offshore of the Northwest Shoreline Area at concentrations exceeding SCS: 2-methylphenol, 2,4-dimethylphenol, 4-methylphenol, acenaphthene, bis(2-ethylhexyl)phthalate (BEHP), dibenzofuran, fluoranthene, mercury, phenol, and total polychlorinated biphenyls (PCBs).

BEHP was detected in a groundwater sample obtained from shoreline monitoring well MW-61 in February 2011 at a concentration (1.4 micrograms per liter [ug/L]) that exceeds Ecology's preliminary groundwater screening level protective of sediments (see Table H-2 and Appendix E). Well MW-61 is upgradient of marine remedial investigation (RI) sediment sample LP-03, which is the only sediment sample in the entire offshore area adjacent to the mill property that exceeded the SCS for BEHP (Figures H-1 and H-2). BEHP is a common laboratory contaminant—there are no known mill-related sources of BEHP. Analytical results presented in the Marine RI Report (Malcolm Pirnie, 2007b) indicate that BEHP was detected in one or more laboratory method blanks associated with all of the sediment samples collected during the 2002 Marine RI, including the samples collected offshore of the Northwest Shoreline Area. This indicates that all of the reported BEHP detections in the Marine RI sediment samples are suspect. Furthermore, the concentration of BEHP detected in the February 2011 groundwater sample from well MW-61 (1.4 ug/L) was only slightly greater than the analytical MRL of 1 ug/L, and BEHP was detected in a method blank associated with many of the groundwater samples collected during the February 2011 monitoring event (although not the sample from MW-61—see data validation reports in Appendix F).

The detections of BEHP in laboratory method blanks associated with the Marine RI sediment samples and many of the February 2011 groundwater samples, and the fact that there are no known mill-related sources of BEHP, suggest that the reported BEHP detections in sediment and groundwater are likely the result of laboratory contamination. None of the other constituents detected above SCS in sediments was detected in recent (2010-2011) groundwater samples or historical groundwater samples (where recent data do not exist) at concentrations exceeding Ecology's preliminary screening levels protective of sediment. Consequently, the groundwater-to-sediment pathway does not appear to be a significant pathway of concern in the Northwest Shoreline Area.

West Former Mill Area

The following constituents have been detected in marine surface sediments offshore of the West Former Mill Area at concentrations exceeding SCS: 4-methylphenol, benzo(g,h,i)perylene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenol, total high molecular weight PAHs (HPAHs), and total PCBs (Figure H-1).

Indeno(1,2,3-cd)pyrene was detected in a groundwater sample obtained from shoreline monitoring well MW-54 in August 2010 at a concentration (0.024 ug/L) that exceeds Ecology's preliminary groundwater screening level protective of sediments. In addition, benzo(g,h,i)perylene was detected in two groundwater samples, obtained from well MW-55 in June 2003 and well PCB in August 2001, at concentrations (0.017 and 0.82 ug/L, respectively) that exceed Ecology's preliminary groundwater screening level protective of sediments (see Table H-2 and Appendix E). Wells MW-54, MW-55, and PCB are upgradient of marine sediment sample SD36, which is the only sediment sample in the entire

offshore area adjacent to the mill property that exceeded the SCS for indeno(1,2,3-cd)pyrene and benzo(g,h,i)perylene (Figures H-1 and H-2). Sample SD36 was collected from sediments just off the north end of the mill dock. Numerous sediment samples have been collected between sample SD36 and shoreline wells MW-54, MW-55, and P-3, and none of these other sediment samples exceeded the SCS for indeno(1,2,3-cd)pyrene or benzo(g,h,i)perylene. Furthermore, indeno(1,2,3-cd)pyrene and benzo(g,h,i)perylene were not detected in the majority of the groundwater samples obtained from wells MW-54, MW-55, and P-3. These findings suggest that the indeno(1,2,3-cd)pyrene and benzo(g,h,i)perylene detected in sediment sample SD36 are not directly related to the isolated detections of these constituents in nearshore groundwater in the West Former Mill Area.

None of the other constituents detected above SCS in sediments was detected in recent (2010-2011) groundwater samples or historical groundwater samples (where recent data do not exist) at concentrations exceeding Ecology's preliminary screening levels protective of sediment. Consequently, the groundwater-to-sediment pathway does not appear to be a significant pathway of concern in the West Former Mill Area.

North Shoreline Area

The following constituents have been detected in marine surface sediments offshore of the North Shoreline Area at concentrations exceeding SCS: 4-methylphenol, acenaphthene, benzo(g,h,i)perylene, chrysene, dibenzofuran, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, phenanthrene, phenol, pyrene, total HPAHs, total low molecular weight PAHs (LPAHs), and total PCBs (Figure H-1).

Acenaphthene was detected in five groundwater samples obtained from shoreline monitoring well MW-51 between 1998 and 2003 at concentrations that slightly exceed Ecology's preliminary groundwater screening level protective of sediments (see Table H-2 and Appendix E). Well MW-51 is the nearest monitoring well to marine sediment sample SD82, which is one of only two sediment samples in the entire offshore area adjacent to the mill property that exceeded the SCS for acenaphthene (Figures H-1 and H-2). In addition, phenol was detected in a groundwater sample obtained from shoreline monitoring well MW-56 in August 2001 at a concentration (80 ug/L) that slightly exceeds Ecology's preliminary groundwater screening level protective of sediments (see Table H-2 and Appendix E). Well MW-56 is upgradient of marine sediment sample MD04A, which is one of only two sediment samples in the entire offshore area adjacent to the mill property that exceeded the SCS for phenol (Figures H-1 and H-2). Sample MD04A was collected from sediments off the northwest corner of the mill dock. Numerous sediment samples have been collected between sample MD04A and shoreline well MW-56, and none of these other sediment samples exceeded the SCS for phenol. Three other groundwater samples obtained from well MW-56 between 2001 and 2003 had concentrations of phenol that were below Ecology's preliminary groundwater screening level protective of sediments. These findings suggest that the phenol detected in sediment sample MD04A is not directly related to the detections of phenol in nearshore groundwater in the North Shoreline Area.

None of the other constituents detected above SCS in sediments was detected in recent (2010-2011) groundwater samples or historical groundwater samples (where recent data do not exist) at concentrations exceeding Ecology's preliminary screening levels protective of sediment. The groundwater-to-sediment pathway appears to be a potential pathway of concern for acenaphthene in the North Shoreline Area. The groundwater-to-sediment pathway does not appear to be a significant pathway of concern for other constituents in the North Shoreline Area,

Estuary Area

The only constituent that has been detected in marine surface sediments offshore of the Estuary Area at a concentration exceeding SCS is total PCBs (Figure H-1). PCBs were not detected in shoreline monitoring well MW-62 in the Estuary Area at concentrations exceeding Ecology's preliminary groundwater screening level protective of sediment (see Table H-2 and Appendix E). Consequently, the groundwater-to-sediment pathway does not appear to be a significant pathway of concern in the Estuary Area.

East Shoreline Area

No constituents have been detected in marine surface sediments offshore of the East Shoreline Area at concentrations exceeding SCS (Figure H-1). Consequently, the groundwater-to-sediment pathway does not appear to be a significant pathway of concern in the East Shoreline Area.

Table H-1

Preliminary Groundwater Screening Levels Protective of Marine Sediments

Port Angeles Rayonier Mill Study Area, Upland Data Summary Report

Port Angeles, Washington

Constituents Exceeding SCS in Offshore Surface Sediments	Units	Preliminary Groundwater Screening Levels Protective of Sediments	
		SL Protective of SCS	SL Protective of CSL
2-Methylphenol	ug/L	7.1	7.1
2,4-Dimethylphenol	ug/L	2.0	2.0
4-Methylphenol	ug/L	77	77
Acenaphthene	ug/L	2.6	9.3
BEHP	ug/L	0.28	0.47
Benzo(g,h,i)perylene	ug/L	0.012	0.029
Chrysene	ug/L	0.47	1.9
Dibenzofuran	ug/L	1.3	5.1
Fluoranthene	ug/L	2.3	17
Fluorene	ug/L	2.0	7.0
Indeno(1,2,3-cd)pyrene	ug/L	0.013	0.033
Mercury	mg/L	5.2E-06	7.4E-06
Phenanthrene	ug/L	4.8	23
Phenol	ug/L	78	220
Pyrene	ug/L	14	20
Total HPAHs	ug/L	NE	NE
Total LPAHs	ug/L	NE	NE
Total PCBs	ug/L	0.27	1.5

Notes

NE Not established

BEHP bis(2-Ethylhexyl)phthalate

HPAHs High molecular weight polycyclic aromatic hydrocarbons

LPAHs Low molecular weight polycyclic aromatic hydrocarbons

PCBs Polychlorinated biphenyls

SCS Sediment Quality Standards

CSL Cleanup Screening Levels

SL Screening level

mg/L Milligrams per liter

ug/L Micrograms per liter

Source for preliminary screening levels: spreadsheet file "Draft LDW ARARs CULs v12r5.xls" developed by Ron Timm,

Washington State Department of Ecology, 2011.



Table H-2

Summary of Groundwater Screening Analysis for Groundwater-to-Sediment Exposure Pathway Evaluation
 Port Angeles Rayonier Mill Study Area, Upland Data Summary Report
 Port Angeles, Washington

Functional Use Area	Monitoring Wells in Shoreline Area (Installation Date)	Constituents Exceeding SLs in Offshore Marine Surface Sediments	Does Constituent Exceed CSL	Wells Sampled for Constituent in 2010-2011			Wells Sampled for Constituent Only Prior to 2010		
				Wells Sampled (No. of Samples Analyzed)	Wells with Exceedances of SL Protective of SLs in 2010-2011 (No. of Exceedances)	Wells with Exceedances of CSL Protective of CSL in 2010-2011 (No. of Exceedances)	Well Sampled (No. of Samples Analyzed)	Wells with Exceedances of SL Protective of SLs Prior to 2010 (No. of Exceedances)	Wells with Exceedances of SL Protective of CSL Prior to 2010 (No. of Exceedances)
Northwest Shoreline	MW-28 (6/1991) MW-52 (2/1998) MW-53 (2/2001) MW-61 (10/2010) MW-67 (3/2011) PCE (8/1993)	2-Methylphenol	Yes	None	NA	NA	MW-52 (5) MW-53 (4) PCE (2)	None	None
		2,4-Dimethylphenol	Yes	None	NA	NA	MW-52 (5) MW-53 (4) PCE (2)	None (Note 1)	None (Note 1)
		4-Methylphenol	Yes	None	NA	NA	MW-52 (3) MW-53 (2) PCE (2)	None	None
		Acenaphthene	No	None	NA	NA	MW-52 (5) MW-53 (4) PCE (3)	None	None
		BEHP	No	MW-28 (3) MW-52 (3) MW-53 (2) MW-61 (2) MW-67 (1) PCE (3)	MW-61 (1) (Note 2)	MW-61 (1) (Note 2)	None	NA	NA
		Dibenzofuran	No	None	NA	NA	MW-52 (4) MW-53 (3) PCE (2)	None	None
		Fluoranthene	Yes	None	NA	NA	MW-52 (5) MW-53 (4) PCE (3)	None	None
		Mercury	No	MW-28 (4) MW-52 (3) MW-53 (2) MW-61 (2) MW-67 (2) PCE (2)	None (Note 3)	None (Note 3)	None	NA	NA
		Phenol	No	None	NA	NA	MW-52 (5) MW-53 (4) PCE (2)	None	None
		Total PCBs	No	MW-28 (4) MW-52 (1) MW-53 (2) MW-61 (2) MW-67 (1) PCE (4)	None	None	None	NA	NA
West Former Mill	MW-54 (2/2001) MW-55 (2/2001) PCB (8/1993)	4-Methylphenol	Yes	None	NA	NA	MW-54 (2) MW-55 (2) PCB (3)	None	None
		Benzo(g,h,i)perylene	No	None	NA	NA	MW-54 (4) MW-55 (4) PCB (6)	MW-55 (1) PCB (1) (Note 4)	PCB (1) (Note 4)
		Chrysene	No	MW-54 (4) MW-55 (2) PCB (3)	None	None	None	NA	NA
		Fluoranthene	Yes	None	NA	NA	MW-54 (4) MW-55 (4) PCB (7)	None	None
		Indeno(1,2,3-cd)pyrene	No	MW-54 (4) MW-55 (2) PCB (3)	MW-54 (1)	None	None	NA	NA
		Phenol	No	None	NA	NA	MW-54 (4) MW-55 (4) PCB (6)	None	None
		Total HPAHs	No	None	NA	NA	None	NA	NA
Total PCBs	No	MW-54 (2) MW-55 (2) PCB (2)	None	None	None	NA	NA		



Functional Use Area	Monitoring Wells in Shoreline Area (Installation Date)	Constituents Exceeding SCS in Offshore Marine Surface Sediments	Does Constituent Exceed CSL	Wells Sampled for Constituent in 2010-2011			Wells Sampled for Constituent Only Prior to 2010		
				Wells Sampled (No. of Samples Analyzed)	Wells with Exceedances of SL Protective of SCS in 2010-2011 (No. of Exceedances)	Wells with Exceedances of SL Protective of CSL in 2010-2011 (No. of Exceedances)	Well Sampled (No. of Samples Analyzed)	Wells with Exceedances of SL Protective of SCS Prior to 2010 (No. of Exceedances)	Wells with Exceedances of SL Protective of CSL Prior to 2010 (No. of Exceedances)
North Shoreline	MW-51 (2/1998)	4-Methylphenol	CS	None	NA	NA	MW-51 (3) MW-56 (2)	None	None
	MW-56 (2/2001)	Acenaphthene	CS	None	NA	NA	MW-51 (5) MW-56 (4)	MW-51 (5)	None
		Benzo(g,h,i)perylene	No	None	NA	NA	MW-51 (5) MW-56 (4)	None (Note 5)	None (Note 5)
		Chrysene	No	MW-51 (4) MW-56 (2)	None	None	None	NA	NA
		Dibenzofuran	CS	None	NA	NA	MW-51 (4) MW-56 (3)	None	None
		Fluoranthene	CS	None	NA	NA	MW-51 (5) MW-56 (4)	None	None
		Fluorene	CS	None	NA	NA	MW-51 (5) MW-56 (4)	None	None
		Indeno(1,2,3-cd)pyrene	No	MW-51 (4) MW-56 (2)	None	None	None	NA	NA
		Phenanthrene	CS	None	NA	NA	MW-51 (5) MW-56 (4)	None	None
		Phenol	No	None	NA	NA	MW-51 (5) MW-56 (4)	MW-56 (1)	None
		Pyrene	CS	MW-51 (3) MW-56 (2)	None	None	None	NA	NA
		Total HPAHs	CS	None	NA	NA	None	NA	NA
		Total LPAHs	CS	None	NA	NA	None	NA	NA
		Total PCBs	No	MW-51 (2) MW-56 (3)	None	None	None	NA	NA
Estuary	MW-62 (10/2010)	Total PCBs	No	MW-62 (2)	None	None	None	NA	NA
East Shoreline	MW-59 (11/2002)	None	NA	NA	NA	NA	NA	NA	NA
	P29 (8/1993)								
	PA-24 (8/2009)								

Notes

NA Not applicable

BEHP bis(2-Ethylhexyl)phthalate

HPAHs High molecular weight polycyclic aromatic hydrocarbons

LPAHs Low molecular weight polycyclic aromatic hydrocarbons

PCBs Polychlorinated biphenyls

SCS Sediment Quality Standards

CSL Cleanup Screening Levels

SL Screening level

Note 1: The laboratory MRL for most samples was 3 ug/L or 3.3 ug/L; most MRLs exceeded the SLs protective of both SCS and CSL.

Note 2: The laboratory MRL for all samples was 1 ug/L; MRLs exceeded the SLs protective of both SCS and CSL.

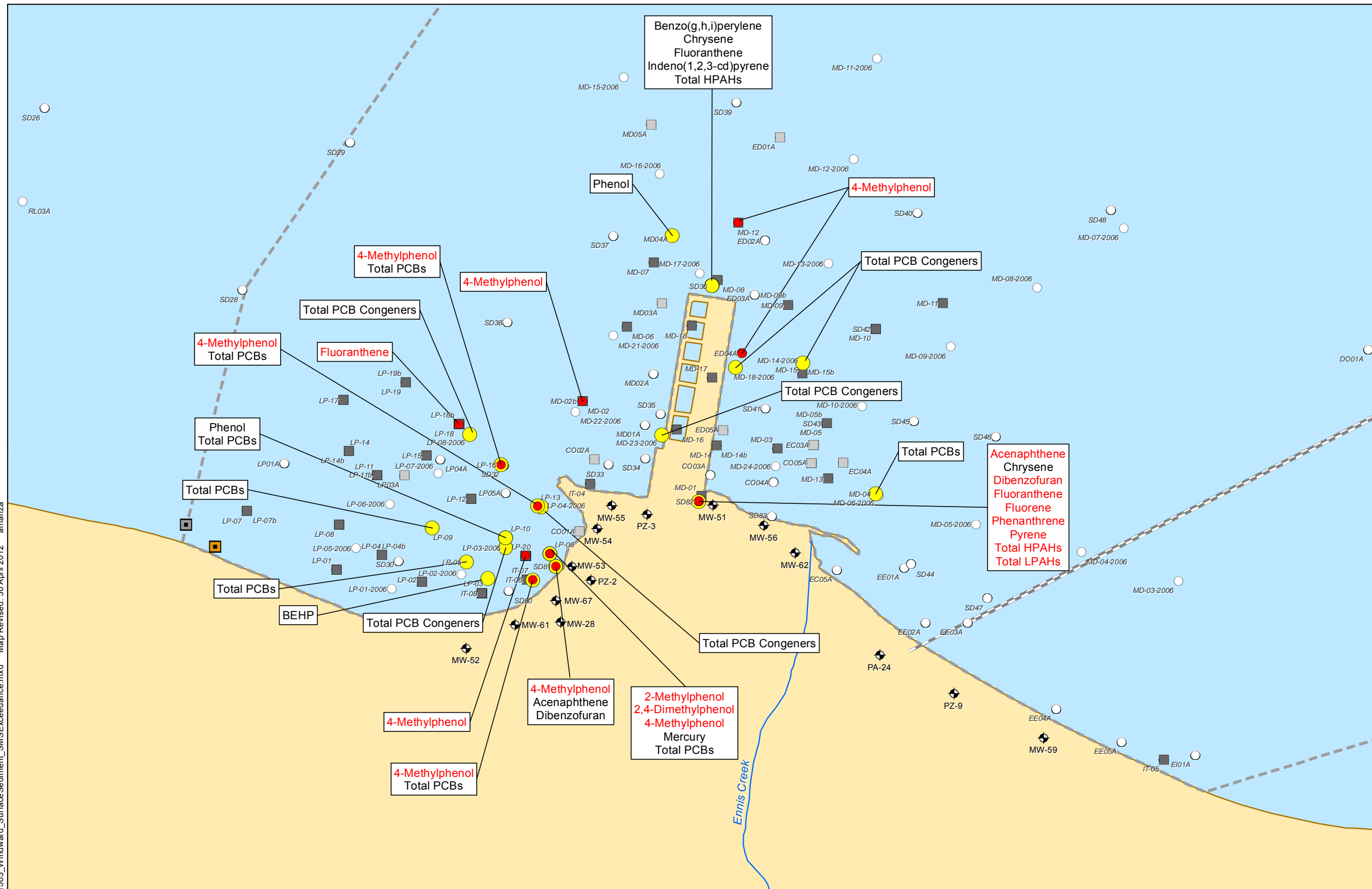
Note 3: The laboratory MRL for all samples was 2E-05 mg/L; MRLs exceeded the SLs protective of both SCS and CSL. For samples with both total (unfiltered) and dissolved (filtered) metals results, only the dissolved results were used in the evaluation.

Note 4: The laboratory MRL for all samples ranged from 0.1 ug/L to 1 ug/L; MRLs exceeded the SLs protective of both SCS and CSL.

Note 5: The laboratory MRL for all samples ranged from 0.02 ug/L to 1 ug/L; most MRLs exceeded the SLs protective of both SCS and CSL.

Grey-shaded cells highlight constituents with at least one exceedance of Ecology's preliminary groundwater SLs protective of marine sediments (see Table H-1) and the shoreline monitoring wells in which the exceedances were detected.

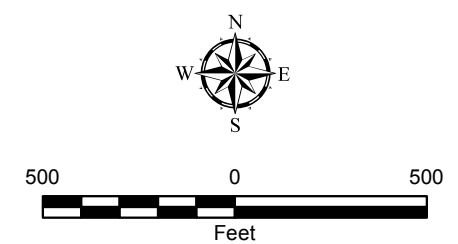
Path: \\sea\Projects\00137015\GIS\013701503_Windward_SurfaceSediment_SMSExceedance.mxd Map Revised: 30 April 2012 amanza



Legend

- Monitoring Well
- Chemistry SMS exceedance
 - Detected Result, > CSL
 - Detected Result, > SQS and ≤ CSL
 - Non-detected Result, > CSL
 - Non-detected Result, > SQS and ≤ CSL
 - Detect and/or Non-detect Result, ≤ SQS
- Inactive CSO
- Active CSO
- Rayonier Deepwater Outfall 001
- Marine Study Area Boundary

BEHP - bis(2-Ethylhexyl)phthalate
 CSL - Cleanup Screening Levels
 SQS - Sediment Quality Standards



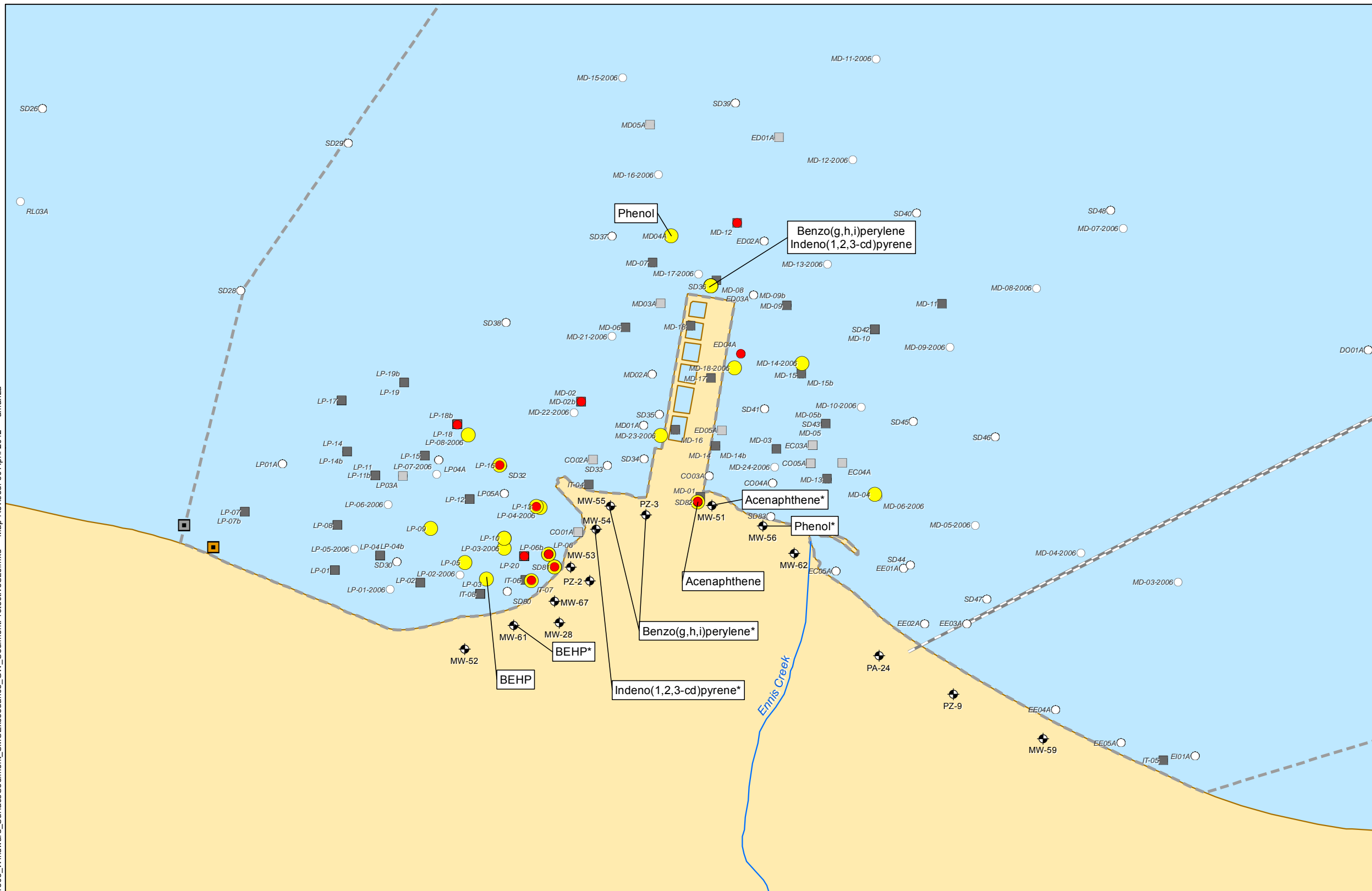
Data Source: Data obtained from Windward Environmental
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet
 Notes:
 1. The locations of all features shown are approximate.
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document.
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Locations Where Surface Sediment Samples Exceed SMS Criteria

Upland Data Summary Report
 Port Angeles Rayonier Mill Study Area
 Port Angeles, Washington

GEOENGINEERS **Figure H-1**

Path: \\sea\Projects\00137015\GIS\013701503_Windward_SurfaceSediment_SMSExceedance_GW_SedimentProtectiveSLs.mxd Map Revised: 30 April 2012 amanza

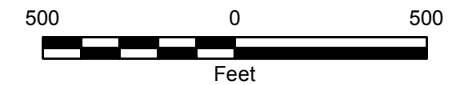


Legend

- Monitoring Well
- Chemistry SMS exceedance
 - Detected Result, > CSL
 - Detected Result, > SQS and ≤ CSL
 - Non-detected Result, > CSL
 - Non-detected Result, > SQS and ≤ CSL
 - Detect and/or Non-detect Result, ≤ SQS
- Inactive CSO
- Active CSO
- Rayonier Deepwater Outfall 001
- Marine Study Area Boundary

* Constituent detected in shoreline monitoring well(s) at concentration exceeding preliminary screening levels protective of sediment.

BEHP - bis(2-Ethylhexyl)phthalate
 CSL - Cleanup Screening Levels
 SQS - Sediment Quality Standards



Data Source: Data obtained from Windward Environmental
 Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet
 Notes:
 1. The locations of all features shown are approximate.
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document.
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COPCs That Exceed Screening Levels Protective of Sediment in Both Marine Surface Sediments and Upgradient Nearshore Groundwater

Upland Data Summary Report
 Port Angeles Rayonier Mill Study Area
 Port Angeles, Washington



Figure H-2

Table 6-10

Marine Sediments Sample
Analytical Results Summary
Rayonier Pulp Mill ESI
Port Angeles, Washington

Sample Location	Background																							
E&E Sample Number	SD84	SD85	SD86	SD01	SD02	SD03	SD04	SD05	SD06	SD07	SD09	SD10	SD11	SD12	SD13	SD14	SD15	SD16	SD17	SD18	SD19	SD20	SD21	SD22
CLP Sample Number	MJQ082	MJQ083	MJQ084	MJQ022	MJQ023	MJQ024	MJQ025	MJQ026	MJQ027	MJQ028	MJQ030	MJQ031	MJQ015	MJQ014	MJQ013	MJQ017	MJQ016	MJQ012	MJQ032	MJQ033	MJQ039	MJQ034	MJQ088	MJQ087
EPA Sample Number	97504802	97504803	97504804	97494615	97494616	97494617	97494618	97494619	97494620	97494621	97494623	97494624	97494605	97494604	97494603	97494607	97494606	97494602	97494627	97494628	97504807	97494629	97504809	97504808
Grain Size/Type	A	B	C	A	A	A	A	A	A	A	A	A	A	A	A	B	A	A	B	A	A	B	A	A
Metals (in mg/kg)																								
Aluminum	22400	12600	12600	15800	17600	17800	18100	20200	17100	10400	17300	12700	15200	15400	16500	15500	13400	10700	19900	14700	14800	14800	16700	13300
Antimony	1.3 UJL	0.80 UJL	0.83 UJL	2.2 UJL	2.1 U	2.3 UJL	9.9 JQ	2.2 UJL	2.0 UJL	1.2 UJL	1.8 UJL	1.1 UJL	1.1 U	1.4 U	1.6 U	1.2 U	1.0 U	1.0 U	1.3 U	1.1 U	1.2 UJL	1.2 U	0.98 UJL	0.98 UJL
Arsenic	7	2.6 JQ (2.7 *)	3.1	13.1	9.5	11.5	65.9	13.7	11.2	6.2	7.7	6.1	7.3	8.3	6.6	8	5.7	4.7	7.6	6.3	6.6	8.5	5.1	5.4
Barium	45.6 JQ	23 JQ	20.7 JQ	39.7 JQ	44.5 JQ	44.1 JQ	51.1 JQ	49.9 JQ	39.9 JQ	21.8 JQ	39.8 JQ	25.2 JQ	36.1 JQ	34.9 JQ	39.3 JQ	33.1 JQ	26.4 JQ	27.6 JQ	41.1 JQ	32.3 JQ	31.7 JQ	32.7 JQ	33.8 JQ	27.1 JQ
Beryllium	0.46 JQ	0.27 U	0.28 U	0.73 U	0.70 U	0.77 U	1.5 JQ	0.74 U	0.68 U	0.40 U	0.60 U	0.36 U	0.37 U	0.45 U	0.54 U	0.39 U	0.33 U	0.33 U	0.45 U	0.38 U	0.40 U	0.40 U	0.33 JQ	0.33 U
Cadmium	2.1 JQ (2.1 *)	1.0 JQ (1.3 *)	1.1 JQ (1.4 *)	5.8	3.7	3.9	5.3	5	3.9	2.1	2.6 JQ	1.6 JQ	1.9	2.7	1.8 JQ	2.1	1.6 JQ	1.5 JQ	2.1 JQ	1.6 JQ	1.5 JQ	1.8 JQ	1.5 JQ	1.3 JQ
Calcium	53100	8740	4600	5580	8950	7890	45600	6730	5510	4750	5610	4850	4140	4010	5260	4550	3870	3340	6060 JK	7470 JK	4990	6220 JK	5520	4660
Chromium	47.5	29.2	29.2	33.6	34.4	37.1	40.4	44.4	37.1	23.8	35.3	26.5	29.9 JH	29.9 JH	32.1 JH	33.1 JH	26.7 JH	21 JH	41.1	32.2	31.6	32.1	33.2	28.6
Cobalt	11.5 JQ	6.7 JQ (13.3 *)	7.1 JQ	6.7 JQ	6.9 JQ	7.2 JQ	16 JQ	8.5 JQ	6.9 JQ	4.4 JQ	6.9 JQ	6.5 JQ	6.5 JQ	6.7 JQ	7.8 JQ	7.6 JQ	6.4 JQ	4.8 JQ	8.8 JQ	6.8 JQ	7.5 JQ	7.3 JQ	7.6 JQ	6.8 JQ
Copper	36	10.2	16.1	56.4	38.8	42.6	419	62.2	50.5	26.1	39.2	27.4	27.7	34.3	24.1	33.9	24.5	20.2	40.8	30.2	29.1	31.7	23.2	22.6
Iron	33300	18900	20200	26000	27600	31000	29200	31800	27300	15400	28700	21400	24500	24900	27900	26600	23900	17900	29900	22000	23900	23300	27100	21800
Lead	7.6	1.3	3.8	35.1	20.4	20.4	27.1	39	30.3	15.4	17.8	13.1	13.3 JK	17.3 JK	10.8 JK (7.5 AC)	15.8 JK	8.1 JK	7.7 JK (5.3 AC)	17.3	17.2	16.9	21.7	12.4	12.2
Magnesium	13300	7690	8490	11400	11100	12100	17900	13300	11100	6360	10500	7820	8380	8600	9990	9000	7650	6430	10800 JK	8290 JK	9000	8690 JK	9150	8160
Manganese	284	262	198	202	218	232	238	254	215	149	212	183	204 JH	197 JH	240 JH	209 JH	204 JH	144 JH	236	179	203	182	242	199
Mercury	0.11 U	0.09 JQ (0.27 *)	0.13	1.4	0.27 JQ	0.26 JQ	0.16 U	0.64	0.51	0.18 JQ	0.15 U	0.09 U	0.43	0.8	0.22 JQ	0.31	0.19	0.19	0.11 U	0.14 JQ	0.2	0.16 JQ	0.17	0.16
Nickel	42.2	35.5	31.1	26.8 JQ	26.5 JQ	28.6 JQ	30.3	32.9	27.5	19.4	26.8	24	23.7	23.9	26.4	28.2	22.2	17.2	32.6	25.5	27.4	26.8	27	27.2
Potassium	3730 JK	936 JQ	1520	3700	3630	3710 JQ	3720	4330	3410	1560 JQ	3620	2040	2400	2700	2770	2440	1870	2030	3030	2300	2400	2300	2290	1950
Selenium	1.3 U	0.80 U	0.83 U	2.4 JQ	2.1 U	3.4 JQ	3.6	2.9 JQ	2.0 U	1.2 U	2.2 JQ	1.1 U	1.1 U	1.4 U	1.6 U	1.2 U	1.0 U	1.0 U	2.1 U	1.2 U	1.5 JQ	2.2 U	1 JQ	0.98 U
Silver	0.43 JQ	0.27 U	0.28 U	0.73 U	0.70 U	0.77 U	1.2 JQ	0.74 U	0.68 U	0.40 U	0.60 U	0.36 U	0.37 U	0.48 JQ	0.54 U	0.39 U	0.33 U	0.33 U	0.45 U	0.38 U	0.40 U	0.40 U	0.33 U	0.33 U
Sodium	17900	4520	6950 JK	32500	28000	31100	25100	33700	26300	10500	23200	12600	10600	13500	17100	11200	7890	11800	14800 JK	12000	11800 JK	11700 JK	8390 JK	8370 JK
Thallium	1.3 U	0.80 U	0.83 U	2.2 U	2.1 U	2.3 U	3.4 JQ	2.2 U	2.0 U	1.2 U	2.0 JQ	1.1 U	1.6 JQ	2.1 JQ	1.6 U	1.8 JQ	1.4 JQ	1.4 JQ	1.3 U	1.1 U	1.2 U	1.2 U	0.98 U	0.98 U
Vanadium	67.9	50.6	38.7	56.1	58.4	64.5	63.6	67.3	57.7	37.3	58.1	46.5	48.6 JK	49.9 JK	53.7 JK	56 JK	43.2 JK	36.4 JK	69.4	53.2	51.7	54.9	53.8	47.1
Zinc	88.7	32.4	43.7	669	279	225	137	329	231	104	142	63.6	97 JK	194 JK	87 JK	92.8 JK	70.9 JK	68.6 JK	87.7 JK	71.5 JK	74.9	76.8 JK	73.8	64
Volatile Organic Compounds (in µg/kg)																								
2-Butanone	15.1 UJL	9.0 UJL	9.1 UJL	19.3 UJL	17.6 UJL	20.0 UJL	19.2 UJL	18.5 UJL	19.1 UJL	9.6 UJL	19.5 UJL	8.7 UJL	11.9 UJL	12.7 UJL	15.0 UJL	10.0 UJL	9.5 UJL	10.5 UJL	13.0 UJL	11.7 UJL	11.2 UJL	12.1 UJL	11.9 UJL	9.4 UJL
2-Propanone	15.1 UJL	9.0 UJL	9.1 UJL	19.3 UJL	23.0 UJL	20.0 UJL	19.2 UJL	109 JL	19.1 UJL	9.6 UJL	41.8 UJL	8.7 UJL	11.9 UJL	12.7 UJL	107 JL	10.0 UJL	23.4 JL	10.5 UJL	17.4 JL	11.7 UJL	11.2 UJL	12.1 UJL	11.9 UJL	9.4 UJL
Carbon disulfide	15.1 UJL	9.0 UJL	9.1 UJL	19.3 UJL	17.6 UJL	20.0 UJL	19.2 UJL	18.5 UJL	19.1 UJL	9.6 UJL	19.5 UJL	8.7 UJL	11.9 UJL	12.7 UJL	15.0 UJL	10.0 UJL	9.5 UJL	10.5 UJL	13.0 UJL	11.7 UJL	11.2 UJL	12.1 UJL	11.9 UJL	9.4 UJL
Methane, dichloro	15.1 UJL	9.0 UJL	9.1 UJL	19.3 UJL	17.6 UJL	20.0 UJL	19.2 UJL	18.5 UJL	19.1 UJL	9.6 UJL	19.5 UJL	8.7 UJL	11.9 UJL	12.7 UJL	15.0 UJL	10.0 UJL	9.5 UJL	10.5 UJL	13.0 UJL	11.7 UJL	11.2 UJL	12.1 UJL	11.9 UJL	9.4 UJL
Toluene	15.1 UJL	9.0 UJL	9.1 UJL	19.3 UJL	17.6 UJL	20.0 UJL	19.2 UJL	18.5 UJL	19.1 UJL	9.6 UJL	19.5 UJL	8.7 UJL	11.9 UJL	12.7 UJL	15.0 UJL	10.0 UJL	9.5 UJL	10.5 UJL	13.0 UJL	11.7 UJL	11.2 UJL	12.1 UJL	11.9 UJL	9.4 UJL

Table 6-10

Marine Sediments Sample
Analytical Results Summary
Rayonier Pulp Mill ESI
Port Angeles, Washington

Sample Location	Background																							
E&E Sample Number	SD84	SD85	SD86	SD01	SD02	SD03	SD04	SD05	SD06	SD07	SD09	SD10	SD11	SD12	SD13	SD14	SD15	SD16	SD17	SD18	SD19	SD20	SD21	SD22
CLP Sample Number	MJQ082	MJQ083	MJQ084	MJQ022	MJQ023	MJQ024	MJQ025	MJQ026	MJQ027	MJQ028	MJQ030	MJQ031	MJQ015	MJQ014	MJQ013	MJQ017	MJQ016	MJQ012	MJQ032	MJQ033	MJQ039	MJQ034	MJQ088	MJQ087
EPA Sample Number	97504802	97504803	97504804	97494615	97494616	97494617	97494618	97494619	97494620	97494621	97494623	97494624	97494605	97494604	97494603	97494607	97494606	97494602	97494627	97494628	97504807	97494629	97504809	97504808
Grain Size/Type	A	B	C	A	A	A	A	A	A	A	A	A	A	A	A	B	A	A	B	A	A	B	A	A
Semi-Volatile Organic Compounds (in µg/kg)																								
2,4,6-Trichlorophenol	214 U	132 U	160 U	593 U	532 U	566 U	489 U	572 U	524 U	312 U	507 U	232 U	265 U	322 U	325 U	290 U	216 U	238 U	262 U	233 U	212 U	260 U	171 U	170 U
4-Methylphenol	107 U	66.0 U	80.0 U	285 JQ	266 U	283 U	244 U	340	379	226	254 U	116 U	132 U	161 U	162 U	145 U	108 U	119 U	131 U	194	106 U	280	85.6 U	79.3 JQ
9H-Carbazole	21.4 U	13.2 U	16.0 U	59.3 U	53.2 U	56.6 U	48.9 U	57.2 U	52.4 U	31.2 U	190 JQ	23.2 U	132 U	32.2 U	32.5 U	29.0 U	21.6 U	23.8 U	131 U	121	21.2 U	130 U	17.1 U	17.0 U
9H-Fluorene	21.4 U	13.2 U	16.0 U	99.8	69.9	52.8 JQ	48.9 U	64.7	56.4	66.9	254 U	33.3	125 JQ	55.4	32.5 U	77.1	24.2	28.8	131 U	171	56.5	129 JQ	25.8	49.8
Acenaphthene	21.4 U	13.2 U	16.0 U	61.3	53.2 U	56.6 U	48.9 U	57.2 U	52.4 U	42.8	254 U	23.3	129 JQ	46.7	32.5 U	77.3	20.1 JQ	23.6 JQ	131 U	128	48.2	116 JQ	18.8	38.2
Acenaphthylene	21.4 U	13.2 U	16.0 U	59.3 U	53.2 U	56.6 U	48.9 U	57.2 U	52.4 U	31.2 U	254 U	22.8 JQ	177	109	32.5 U	120	55.7	79.4	131 U	119	62.8	130 U	43.8	49.9
Anthracene	21.4 U	13.2 U	16.0 U	192	268	79.9	48.9 U	114	99.7	127	865	63.2	186	87.9	28.2 JQ	164	44.2	47.7	166	447	127	247	50.0	104
Benzo(a)anthracene	21.4 U	13.2 U	16.0 U	302	573	169	54.2	149	191	194	804	104	278	78.6	41.7	166	48.1	40.9	131 U	508	140	297	55.4	101
Benzo(a)pyrene	21.4 U	13.2 U	16.0 U	188	246	101	48.9 U	106	179	129	416	58.2	161	63.4	33.6	111	40.4	34.7	133	371	75.7	203	39.4	53.4
Benzo(ghi)perylene	21.4 U	13.2 U	16.0 U	105	101	59.7	48.9 U	84.7	131	67.7	254 U	35.8	132 U	65.3	32.5 U	73.4	41.0	36.5	131 U	203	57.1	130 U	38.6	42.0
Benzo(b)fluoranthene	21.4 U	13.2 U	16.0 U	323	390	172	69.0	207	255	241	781	121	264	107	54.6	197	66.1	44.6	233	709	167	381	70.0	111
Benzo(k)fluoranthene	21.4 U	13.2 U	16.0 U	148	169	74.7	48.9 U	92.1	75.4	99.9	358	42.9	107 JQ	38.3	32.5 U	75.6	28.8	23.5 JQ	99.0 JQ	280	48.7	138	30.2	38.9
Benzoic acid	214 U	132 U	160 U	593 U	532 U	566 U	489 U	572 U	524 U	312 U	507 U	232 U	265 U	322 U	325 U	290 U	216 U	238 U	262 U	233 U	212 U	260 U	171 U	170 U
Chrysene	21.4 U	13.2 U	16.0 U	415	761	241	85.4	312	341	329	1220	157	431	112	75.6	236	80.2	61.0	267	869	219	503	109	125
Dibenzo(a,h)anthracene	21.4 U	13.2 U	16.0 U	59.3 U	53.2 U	56.6 U	48.9 U	57.2 U	52.4 U	31.2 U	254 U	23.2 U	132 U	32.2 U	32.5 U	29.0 U	21.6 U	23.8 U	131 U	116 U	21.2 U	130 U	17.1 U	17.0 U
Dibenzofuran	21.4 U	13.2 U	16.0 U	97.9	53.2 U	56.6 U	48.9 U	76.8	61.5	59.7	254 U	34.1	171	89.5	32.5 U	100	42.3	45.5	131 U	178	76.9	138	40.8	65.7
Fluoranthene	21.5	13.2 U	21.1	768	703	557	203	634	403	498	875	269	1100	370	188	487	202	226	559	1260	548	1140	291	453
Indeno(1,2,3-cd)pyrene	21.4 U	13.2 U	16.0 U	76.8	89.1	56.6 U	48.9 U	70.7	61.8	58.5	254 U	31.6	132 U	46.7	32.5 U	63.5	27.5	23.8 U	131 U	174	39.6	130 U	26.5	29.5
Naphthalene	21.4 U	13.2 U	16.0 U	315	78.4	128	43.7 JQ	367	301	158	254 U	135	903	726	50.3	490	254	340	245	518	409	374	248	312
Naphthalene, 1-methyl-	21.4 U	13.2 U	16.0 U	57.5 JQ	53.2 U	56.6 U	48.9 U	57.2 U	52.4 U	31.2 U	254 U	23.2 U	79.3 JQ	60.2	32.5 U	43.1	28.8	34.9	131 U	116 U	30.2	130 U	24.1	25.9
Naphthalene, 2-methyl-	21.4 U	13.2 U	16.0 U	109	58.2	83.5	43.8 JQ	77.1	76.2	39.6	254 U	22.6 JQ	128 JQ	99.4	44.8	69.2	43.3	52.9	131 U	119	51.9	130 U	37.1	48.7
Phenanthrene	24.7	13.2 U	15.1 JQ (16 *)	413	321	339	113	386	253	240	510	155	680	405	104	424	174	233	363	751	368	591	225	315
Phenol	107 U	66.0 U	80.0 U	297 U	266 U	283 U	244 U	286 U	262 U	156 U	254 U	116 U	132 U	161 U	162 U	145 U	108 U	119 U	131 U	116 U	106 U	130 U	85.6 U	78.7 JQ
Pyrene	21.5	13.2 U	19.2	967	828	544	200	747	596	755	1790	341	958	438	179	726	228	288	756	1860	657	1380	319	476
Retene	107 U	66.0 U	80.0 U	819	325	242 JQ	244 U	1380	1760	717	202 JQ	108 JQ	303	247	162 U	129 JQ	106 JQ	124	218	373	258	666	117	253
Pesticide/PCBs (in ug/kg)																								
P,P'-DDD	2.7 U	1.6 U	2.0 U	7.4 U	6.7 U	7.1 U	6.1 U	7.2 U	6.5 U	3.9 U	6.3 U	2.9 U	3.3 U	4.0 U	4.1 U	7.3	2.7 U	3.0 U	3.9 U	8.4	3.1	9.9	2.1 U	2.4
PCB 1242	27 U	16 U	20 U	74 U	67 U	71 U	61 U	96 JK	65 U	39 U	63 U	29 U	33 U	40 U	41 U	36 U	27 U	30 U	33 U	29 U	27 U	32 U	21 U	21 U
PCB 1254	27 U	16 U	20 U	74 U	67 U	71 U	61 U	140	99	64 JK	63 U	29 U	33 U	40 U	41 U	36 U	27 U	30 U	33 U	29 U	27 U	32 U	21 U	21 U
PCB 1260	27 U	16 U	20 U	74 U	67 U	71 U	61 U	72 U	170	39 U	63 U	29 U	33 U	40 U	41 U	69	27 U	30 U	39	29 U	27 U	32 U	21 U	21 U

Key at end of Table

Table 6-10

Marine Sediments Sample
Analytical Results Summary
Rayonier Pulp Mill ESI
Port Angeles, Washington

Sample Location	Background																								
E&E Sample Number	SD84	SD85	SD86	SD01	SD02	SD03	SD04	SD05	SD06	SD07	SD09	SD10	SD11	SD12	SD13	SD14	SD15	SD16	SD17	SD18	SD19	SD20	SD21	SD22	
CLP Sample Number	MJQ082	MJQ083	MJQ084	MJQ022	MJQ023	MJQ024	MJQ025	MJQ026	MJQ027	MJQ028	MJQ030	MJQ031	MJQ015	MJQ014	MJQ013	MJQ017	MJQ016	MJQ012	MJQ032	MJQ033	MJQ039	MJQ034	MJQ088	MJQ087	
EPA Sample Number	97504802	97504803	97504804	97494615	97494616	97494617	97494618	97494619	97494620	97494621	97494623	97494624	97494605	97494604	97494603	97494607	97494606	97494602	97494627	97494628	97504807	97494629	97504809	97504808	
Grain Size/Type	A	B	C	A	A	A	A	A	A	A	A	A	A	A	A	B	A	A	B	A	A	B	A	A	A
Dioxins/Furans (in ng/kg)																									
TCDFs (total)	1.1	0.51	0.47 U	N/A	10	12	N/A	N/A	N/A	18	N/A	N/A	N/A	N/A	N/A	46	34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,3,7,8-TCDF	0.82 U	0.34 U	0.47 U	N/A	2.3	1.2	N/A	N/A	N/A	2.7	N/A	N/A	N/A	N/A	N/A	4	3.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PeCDFs (total)	0.60 U	0.25 U	0.48 U	N/A	3.5 U	6.5	N/A	N/A	N/A	14	N/A	N/A	N/A	N/A	N/A	18	9.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HxCDFs (total)	0.80 U	0.44 U	0.53 U	N/A	28	18	N/A	N/A	N/A	36	N/A	N/A	N/A	N/A	N/A	22	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HpCDFs (total)	2.3 U	0.17 U	1.0 U	N/A	130	62	N/A	N/A	N/A	150	N/A	N/A	N/A	N/A	N/A	55	24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,3,4,6,7,8-HpCDF	1.3 U	0.13 U	0.67 U	N/A	34	17	N/A	N/A	N/A	38	N/A	N/A	N/A	N/A	N/A	12	5.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OCDF	3.6 U	0.31 U	1.2 U	N/A	110	45	N/A	N/A	N/A	97	N/A	N/A	N/A	N/A	N/A	38	13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TCDDs (total)	0.83 U	0.24 U	0.59 U	N/A	22	28	N/A	N/A	N/A	21	N/A	N/A	N/A	N/A	N/A	95	80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,3,7,8-TCDD	0.28 U	0.24 U	0.59 U	N/A	0.62 U	0.29 U	N/A	N/A	N/A	0.68 U	N/A	N/A	N/A	N/A	N/A	1.4	0.87 JQ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PeCDDs (total)	2.4 U	1.3 U	2.2 U	N/A	5.7	3.8	N/A	N/A	N/A	5.8	N/A	N/A	N/A	N/A	N/A	33	54	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,3,7,8-PeCDD	0.50 U	0.56 U	0.53 U	N/A	1.8 U	0.83 U	N/A	N/A	N/A	1.2 U	N/A	N/A	N/A	N/A	N/A	1.5 U	1.9 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HxCDDs (total)	4.3 U	1.4 U	1.8 U	N/A	45	54	N/A	N/A	N/A	60	N/A	N/A	N/A	N/A	N/A	94	16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,3,4,7,8-HxCDD	0.77 U	1.4 U	0.70 U	N/A	1.1 U	1.1 U	N/A	N/A	N/A	1.1 U	N/A	N/A	N/A	N/A	N/A	2.0 U	1.7 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,3,6,7,8-HxCDD	1.3 U	1.4 U	0.60 U	N/A	7.3 JQ	6.8	N/A	N/A	N/A	10	N/A	N/A	N/A	N/A	N/A	8	3.3 JQ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,3,7,8,9-HxCDD	0.68 U	1.4 U	0.62 U	N/A	2.4 U	3.0 JQ	N/A	N/A	N/A	4.2 JQ	N/A	N/A	N/A	N/A	N/A	5.2 JH	3.2 JQ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HpCDDs (total)	16	0.34 U	3.1 U	N/A	300 JH	170	N/A	N/A	N/A	340	N/A	N/A	N/A	N/A	N/A	170	39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,3,4,6,7,8-HpCDD	7.8 JQ (14.4 *)	0.34 U	3.1 U	N/A	130 JH	78	N/A	N/A	N/A	140	N/A	N/A	N/A	N/A	N/A	64	27 UJH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OCDD	40 U	2.6 U	19 U	N/A	1100	620	N/A	N/A	N/A	1100	N/A	N/A	N/A	N/A	N/A	450	150	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TEQ	0.12	0	0.02	N/A	3.83	2.73	N/A	N/A	N/A	4.67	N/A	N/A	N/A	N/A	N/A	4.35	2.35	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Key at end of Table

Table 6-10

MARINE SEDIMENTS SAMPLE
ANALYTICAL RESULTS SUMMARY
RAYONIER PULP MILL ESI
PORT ANGELES, WASHINGTON

Sample Location	Background																			
E&E Sample Number	SD84	SD85	SD86	SD23	SD24	SD25	SD26	SD28	SD29	SD30	SD32	SD33	SD34	SD35	SD36	SD37	SD38	SD39	SD40	SD41
CLP Sample Number	MJQ082	MJQ083	MJQ084	MJQ035	MJQ036	MJQ037	MJQ038	MJQ042	MJQ043	MJQ075	MJQ074	MJQ049	MJQ050	MJQ051	MJQ073	MJQ045	MJQ044	MJQ052	MJQ053	MJQ072
EPA Sample Number	97504802	97504803	97504804	97494630	97494631	97494632	97494633	97494637	97494638	97494153	97494151	97494645	97494646	97494647	97494150	97494640	97494639	97494648	97494649	97494669
Grain Size/Type	A	B	C	A	B	B	A	A	A	B	C	B	A	A	B	B	B	A	B	A
Metals (in mg/kg)																				
Aluminum	22400	12600	12600	10800	7790	5950	10700	8810	10900	8540	18100	10100	17400	13600	8790	8000	6980	14400	14500	13400
Antimony	1.3 UJL	0.80 UJL	0.83 UJL	0.96 U	0.86 U	0.74 U	0.85 U	0.85 U	0.90 U	0.94 UJL	2.4 UJL	0.89 UJL	1.3 UJL	0.93 UJL	0.77 UJL	0.81 U	0.74 U	0.99 UJL	1.2 JQ	0.83 UJL
Arsenic	7	2.6 JQ (2.7 *)	3.1	5	4	3.1	3.5	5.1	3.8	6.5	20.2	4.5 U	6.3 U	4.9 U	4.2	5.5	4.3	5.0 U	4.8 U	4.2
Barium	45.6 JQ	23 JQ	20.7 JQ	25.6 JQ	17.7 JQ	15.1 JQ	23.6 JQ	19.8 JQ	22.6 JQ	14.8 JQ	41 JQ	16.5 JQ	29.4 JQ	26.5 JQ	21.4 JQ	17.6 JQ	22 JQ	32 JQ	32.2 JQ	22.6 JQ
Beryllium	0.46 JQ	0.27 U	0.28 U	0.32 U	0.29 U	0.25 U	0.28 U	0.28 U	0.30 U	0.31 U	0.81 U	0.30 U	0.42 U	0.31 U	0.26 U	0.27 U	0.25 U	0.33 U	0.34 U	0.28 U
Cadmium	2.1 JQ (2.1 *)	1.0 JQ (1.3 *)	1.1 JQ (1.4 *)	1.3 JQ	1.1 JQ	0.67 JQ	0.99 JQ	1.0 JQ	1.0 JQ	1.3 JQ	4.2	1.1 JQ	1.6 JQ	1.1 JQ	1.2 JQ	1.0 JQ	0.77 JQ	1.2 JQ	1.2 JQ	1.4
Calcium	53100	8740	4600	4600 JK	4100 JK	4290 JK	4330 JK	5760 JK	4630 JK	7010	12300	24200	11500	11100	7080	4520 JK	4310 JK	7230	6450	5400
Chromium	47.5	29.2	29.2	22	15.5	15.1	21.3	16.4	22.8	19	47.1	20.9	33.6	21.5	18	16.6	13.1	29.6	26.9	28
Cobalt	11.5 JQ	6.7 JQ (13.3 *)	7.1 JQ	4.8 JQ	3.8 JQ	2.8 JQ	5.0 JQ	4.5 JQ	5.2 JQ	5.1 JQ	9.9 JQ	5.7 JQ	8.5 JQ	5.9 JQ	5.3 JQ	4.9 JQ	4.3 JQ	6.4 JQ	6.7 JQ	7.5 JQ
Copper	36	10.2	16.1	14.5	12.9	4.7 JQ	15.5	10.4	15.5	15.3	64.8	14.6	22.1	16	15.5	13.7	13.1	14.8	14.4	25.1
Iron	33300	18900	20200	15700	13700	10100	16400	13500	16100	14500	31900	15800	23100	17000	14500	12800	10900	20000	21000	20000
Lead	7.6	1.3	3.8	9.1	6.1	3.4	7.9	4.5	7.7	12.7	53.8	4.5	6.2	5.8	5.9	7.1	3.8	5.9	5.8	7.3
Magnesium	13300	7690	8490	6040 JK	4340 JK	3440 JK	6060 JK	5510 JK	6360 JK	6830	15500	6510	9720	7080	5700	5640 JK	4660 JK	7600	8270	8000
Manganese	284	262	198	152	119	112	162	154	154	181	263	156	263	207	158	156	128	220	223	195
Mercury	0.11 U	0.09 JQ (0.27 *)	0.13	0.09 JQ	0.06 U	0.13	0.06 U	0.07 U	0.11 JQ	0.10 JQ	0.29 JQ	0.010 JQ	0.13 JQ	0.08 JQ	0.07 U	0.07 U	0.06 U	0.2	0.15 JQ	0.22
Nickel	42.2	35.5	31.1	19.1	15.3	12.7	19.4	18.7	19.8	24.4	42	21.2	31.6	21.6	21.9	21.1	16.4	24.3	25.9	28.8
Potassium	3730 JK	936 JQ	1520	1530 JQ	959 JQ	679 JQ	1390 JQ	1100 JQ	1490 JQ	1130 JQ	3850 JQ	1520 JK	2220 JK	1640 JK	1070 JQ	914 JQ	832 JQ	1950 JK	1930 JK	1530
Selenium	1.3 U	0.80 U	0.83 U	1.2 U	0.86 U	0.81 U	1.1 U	0.85 U	1.6 U	0.94 U	2.4 U	0.89 U	1.3 U	0.93 U	0.77 U	0.81 U	0.74 U	0.99 U	1.0 U	0.83 U
Silver	0.43 JQ	0.27 U	0.28 U	0.32 U	0.29 U	0.25 U	0.28 U	0.28 U	0.30 U	0.31 U	0.81 U	0.30 U	0.42 U	0.31 U	0.26 U	0.27 U	0.25 U	0.33 U	0.34 U	0.28 U
Sodium	17900	4520	6950 JK	7190 JK	5080 JK	4020 JK	6620 JK	5220 JK	7490 JK	8810	33500	8190	11000	7630	5310	5160	4360 JK	9360	9470	6650
Thallium	1.3 U	0.80 U	0.83 U	1.1 JQ	0.86 U	0.74 U	0.85 U	0.85 U	0.90 U	0.94 U	2.4 U	0.99 JQ	1.4 JQ	0.93 U	0.77 U	0.81 U	0.77 JQ	0.99 U	1.3 JQ	0.83 U
Vanadium	67.9	50.6	38.7	37.6	30.5	32.3	37.7	33.1	38.4	36.9	83.5	39.7	62.3	45.2	33.2	30	25.6	54.3	52.3	50.3
Zinc	88.7	32.4	43.7	46.7 JK	35.4 JK	20.7 JK	40.9 JK	34.3 JK	39.2 JK	42.7	148	37.2	54.2	39.1	56.8	31.3 JK	24.4 JK	45.4	48.4	43.8
Volatile Organic Compounds (in µg/kg)																				
2-Butanone	15.1 UJL	9.0 UJL	9.1 UJL	7.6 UJL	7.6 UJL	6.5 UJL	7.9 UJL	8.0 UJL	8.0 UJL	9.7 UJL	33.6 UJL	8.3 UJL	21.1 JL	7.8 UJL	8.8 UJL	6.2 UJL	5.7 UJL	6.8 UJL	6.6 UJL	9.6 UJL
2-Propanone	15.1 UJL	9.0 UJL	9.1 UJL	7.6 UJL	7.6 UJL	6.5 UJL	7.9 UJL	8.0 UJL	8.0 UJL	9.7 UJL	33.6 UJL	8.3 UJL	11.4 UJL	7.8 UJL	8.8 UJL	6.2 UJL	5.7 UJL	6.8 UJL	6.6 UJL	9.6 UJL
Carbon disulfide	15.1 UJL	9.0 UJL	9.1 UJL	7.6 UJL	7.6 UJL	6.5 UJL	7.9 UJL	8.0 UJL	8.0 UJL	9.7 UJL	33.6 UJL	8.3 UJL	38.4 JL	7.8 UJL	8.8 UJL	6.2 UJL	5.7 UJL	6.8 UJL	6.6 UJL	9.6 UJL
Methane, dichloro	15.1 UJL	9.0 UJL	9.1 UJL	7.6 UJL	7.6 UJL	6.5 UJL	7.9 UJL	8.0 UJL	8.0 UJL	9.7 UJL	33.6 UJL	8.3 UJL	11.4 UJL	7.8 UJL	8.8 UJL	6.2 UJL	5.7 UJL	6.8 UJL	6.6 UJL	9.6 UJL
Toluene	15.1 UJL	9.0 UJL	9.1 UJL	7.6 UJL	7.6 UJL	6.5 UJL	7.9 UJL	8.0 UJL	8.0 UJL	9.7 UJL	33.6 UJL	8.3 UJL	18.0 JL	7.8 UJL	8.8 UJL	6.2 UJL	5.7 UJL	6.8 UJL	6.6 UJL	9.6 UJL

Key at end of Table

Table 6-10

MARINE SEDIMENTS SAMPLE
ANALYTICAL RESULTS SUMMARY
RAYONIER PULP MILL ESI
PORT ANGELES, WASHINGTON

Sample Location	Background																			
E&E Sample Number	SD84	SD85	SD86	SD23	SD24	SD25	SD26	SD28	SD29	SD30	SD32	SD33	SD34	SD35	SD36	SD37	SD38	SD39	SD40	SD41
CLP Sample Number	MJQ082	MJQ083	MJQ084	MJQ035	MJQ036	MJQ037	MJQ038	MJQ042	MJQ043	MJQ075	MJQ074	MJQ049	MJQ050	MJQ051	MJQ073	MJQ045	MJQ044	MJQ052	MJQ053	MJQ072
EPA Sample Number	97504802	97504803	97504804	97494630	97494631	97494632	97494633	97494637	97494638	97494153	97494151	97494645	97494646	97494647	97494150	97494640	97494639	97494648	97494649	97494669
Grain Size/Type	A	B	C	A	B	B	A	A	A	B	C	B	A	A	B	B	B	A	B	A
Semi-Volatile Organic Compounds (in µg/kg)																				
2,4,6-Trichlorophenol	214 U	132 U	160 U	178 U	178 U	167 U	170 U	175 U	192 U	186 U	N/A	166 U	179 U	152 U	172 U	184 U	152 U	152 U	167 U	201 U
4-Methylphenol	107 U	66.0 U	80.0 U	89.1 U	<u>211</u>	83.4 U	85.0 U	<u>99.9</u>	<u>105</u>	<u>230</u>	N/A	<u>95.4</u>	<u>316</u>	<u>394</u>	<u>379</u>	<u>384</u>	<u>91.3</u>	75.8 U	83.4 U	<u>502</u>
9H-Carbazole	21.4 U	13.2 U	16.0 U	17.8 U	17.8 U	16.7 U	85.0 U	17.5 U	96.0 U	<u>31.2</u>	N/A	16.6 U	89.7 U	75.8 U	<u>162</u>	92.2 U	15.2 U	15.2 U	16.7 U	<u>18.0 JQ</u>
9H-Fluorene	21.4 U	13.2 U	16.0 U	<u>31.8</u>	<u>34.1</u>	16.7 U	<u>40.1</u>	<u>33.3</u>	<u>37.1</u>	<u>147</u>	N/A	<u>33.4</u>	<u>135</u>	<u>148</u>	<u>164</u>	<u>95.6</u>	<u>34.4</u>	<u>15.5</u>	<u>24.3</u>	<u>86.6</u>
Acenaphthene	21.4 U	13.2 U	16.0 U	<u>28.9</u>	<u>25.3</u>	16.7 U	<u>37.1</u>	<u>28.1</u>	<u>31.9</u>	<u>125</u>	N/A	16.6 U	<u>109</u>	<u>137</u>	<u>105</u>	<u>76.1</u>	<u>22.5</u>	15.2 U	<u>25.8</u>	<u>60.3</u>
Acenaphthylene	21.4 U	13.2 U	16.0 U	<u>41.4</u>	17.8 U	16.7 U	<u>67</u>	17.5 U	<u>24.8</u>	18.6 U	N/A	16.6 U	89.7 U	75.8 U	<u>169</u>	<u>22.3</u>	15.2 U	<u>14.3 JQ</u>	<u>22.9</u>	<u>30.8</u>
Anthracene	21.4 U	13.2 U	16.0 U	<u>91.6</u>	<u>47.7</u>	16.7 U	<u>65.5</u>	<u>50.0</u>	<u>53.2</u>	<u>133</u>	N/A	<u>57.1</u>	<u>150</u>	<u>193</u>	<u>728</u>	<u>112</u>	<u>81.4</u>	<u>25.3</u>	<u>31.2</u>	<u>137</u>
Benzo(a)anthracene	21.4 U	13.2 U	16.0 U	<u>44.4</u>	<u>52.5</u>	16.7 U	<u>55</u>	<u>49.0</u>	<u>45.5</u>	<u>126</u>	N/A	<u>92.6</u>	<u>170</u>	<u>223</u>	<u>1390</u>	<u>64.0</u>	<u>48.4</u>	<u>27.2</u>	<u>26.8</u>	<u>118</u>
Benzo(a)pyrene	21.4 U	13.2 U	16.0 U	<u>28.1</u>	<u>39.5</u>	16.7 U	<u>38.7</u>	<u>28.2</u>	<u>29.2</u>	<u>50.9</u>	N/A	<u>49.1</u>	<u>94.6</u>	<u>112</u>	<u>1140</u>	<u>32.3</u>	<u>29.9</u>	<u>20.2</u>	<u>17.5</u>	<u>57.2</u>
Benzo(ghi)perylene	21.4 U	13.2 U	16.0 U	<u>22.3</u>	<u>21.4</u>	16.7 U	<u>33.9</u>	<u>23.7</u>	<u>21.5</u>	<u>26.4</u>	N/A	<u>32.3</u>	89.7 U	75.8 U	<u>506</u>	<u>19.8</u>	<u>22.8</u>	<u>16.2</u>	16.7 U	<u>42.5</u>
Benzo(b)fluoranthene	21.4 U	13.2 U	16.0 U	<u>49.0</u>	<u>80.4</u>	16.7 U	<u>67.9</u>	<u>55.6</u>	<u>46.2</u>	<u>110</u>	N/A	<u>72.6</u>	<u>143</u>	<u>205</u>	<u>1880</u>	<u>54.5</u>	<u>53.7</u>	<u>29.4</u>	<u>29.9</u>	<u>107</u>
Benzo(k)fluoranthene	21.4 U	13.2 U	16.0 U	17.8 U	<u>27.2</u>	16.7 U	<u>26.2</u>	<u>23.6</u>	<u>22.5</u>	<u>49.1</u>	N/A	<u>33.7</u>	<u>89.7</u>	<u>77.3</u>	<u>754</u>	<u>27.9</u>	<u>27.0</u>	<u>14.2 JQ</u>	16.7 U	<u>30.4</u>
Benzoic acid	214 U	132 U	160 U	178 U	178 U	<u>154 JQ</u>	170 U	175 U	192 U	186 U	N/A	166 U	179 U	152 U	172 U	184 U	152 U	152 U	167 U	201 U
Chrysene	21.4 U	13.2 U	16.0 U	<u>115</u>	<u>100</u>	16.7 U	<u>91.2</u>	<u>89.1</u>	<u>71.2</u>	<u>192</u>	N/A	<u>128</u>	<u>226</u>	<u>328</u>	<u>2210</u>	<u>95.8</u>	<u>101</u>	<u>43.2</u>	<u>40.9</u>	<u>170</u>
Dibenzo(a,h)anthracene	21.4 U	13.2 U	16.0 U	17.8 U	17.8 U	16.7 U	17.0 U	17.5 U	19.2 U	18.6 U	N/A	16.6 U	89.7 U	75.8 U	<u>142</u>	18.4 U	15.2 U	15.2 U	16.7 U	20.1 U
Dibenzofuran	21.4 U	13.2 U	16.0 U	<u>39.3</u>	<u>33.2</u>	16.7 U	<u>56.7</u>	<u>38.1</u>	<u>41.0</u>	<u>119</u>	N/A	<u>27.3</u>	<u>104</u>	75.8 U	86.0 U	<u>99.7</u>	<u>34.5</u>	<u>19.7</u>	30.4	<u>72.4</u>
Fluoranthene	<u>21.5</u>	13.2 U	<u>21.1</u>	<u>416</u>	<u>188</u>	<u>28.0</u>	<u>328</u>	<u>265</u>	<u>269</u>	<u>703</u>	N/A	<u>237</u>	<u>560</u>	<u>794</u>	<u>3270</u>	<u>422</u>	<u>198</u>	<u>167</u>	<u>194</u>	<u>490</u>
Indeno(1,2,3-cd)pyrene	21.4 U	13.2 U	16.0 U	17.8 U	17.8 U	16.7 U	<u>21.5</u>	<u>17.1 JQ</u>	19.2 U	<u>22.8</u>	N/A	<u>25.0</u>	89.7 U	75.8 U	<u>499</u>	18.4 U	<u>17.4</u>	15.2 U	16.7 U	<u>27.8</u>
Naphthalene	21.4 U	13.2 U	16.0 U	<u>397</u>	<u>133</u>	16.7 U	<u>376</u>	<u>191</u>	<u>268</u>	<u>276</u>	N/A	<u>103</u>	<u>317</u>	<u>459</u>	<u>226</u>	<u>513</u>	<u>154</u>	<u>154</u>	<u>251</u>	<u>391</u>
Naphthalene, 1-methyl-	21.4 U	13.2 U	16.0 U	17.8 U	17.8 U	16.7 U	<u>25.2</u>	17.5 U	<u>19.6</u>	<u>41.2</u>	N/A	<u>15.3 JQ</u>	<u>254</u>	75.8 U	86.0 U	<u>38.0</u>	15.2 U	15.2 U	16.7 U	<u>120</u>
Naphthalene, 2-methyl-	21.4 U	13.2 U	16.0 U	<u>24.8</u>	<u>21.1</u>	16.7 U	<u>44.4</u>	<u>28.7</u>	<u>33.4</u>	<u>79.0</u>	N/A	<u>34.4</u>	<u>430</u>	<u>109</u>	<u>97.7</u>	<u>94.4</u>	<u>26.1</u>	<u>16.5</u>	<u>21.4</u>	<u>238</u>
Phenanthrene	<u>24.7</u>	13.2 U	<u>15.1 JQ</u> (16 *)	<u>296</u>	<u>133</u>	<u>15.2 JQ</u>	<u>270</u>	<u>167</u>	<u>226</u>	<u>335</u>	N/A	<u>172</u>	<u>506</u>	<u>539</u>	<u>673</u>	<u>399</u>	<u>159</u>	<u>155</u>	<u>184</u>	<u>464</u>
Phenol	107 U	66.0 U	80.0 U	89.1 U	88.8 U	83.4 U	85.0 U	87.7 U	96.0 U	93.2 U	N/A	83.0 U	<u>131</u>	75.8 U	<u>133</u>	92.2 U	76.1 U	75.8 U	83.4 U	101 U
Pyrene	<u>21.5</u>	13.2 U	<u>19.2</u>	<u>493</u>	<u>239</u>	<u>29.7</u>	<u>370</u>	<u>271</u>	<u>303</u>	<u>588</u>	N/A	<u>271</u>	<u>571</u>	<u>889</u>	<u>3000</u>	<u>477</u>	<u>219</u>	<u>184</u>	<u>206</u>	<u>600</u>
Retene	107 U	66.0 U	80.0 U	<u>163</u>	<u>302</u>	83.4 U	<u>207</u>	<u>486</u>	<u>349</u>	<u>394</u>	N/A	<u>401</u>	<u>653</u>	<u>1020</u>	<u>360</u>	<u>2660</u>	<u>304</u>	<u>121</u>	<u>131</u>	<u>809</u>
Pesticide/PCBs (in ug/kg)																				
P,P'-DDD	2.7 U	1.6 U	2.0 U	<u>7.8 JK</u>	<u>3.1 JK</u>	2.1 U	<u>2.8</u>	2.2 U	2.4 U	2.3 U	N/A	2.1 U	2.2 U	1.9 U	2.1 U	2.3 U	1.9 U	1.9 U	2.1 U	2.5 U
PCB 1242	27 U	16 U	20 U	<u>71 JK</u>	22 U	21 U	21 U	22 U	24 U	23 U	N/A	21 U	22 U	19 U	21 U	23 U	19 U	19 U	21 U	25 U
PCB 1254	27 U	16 U	20 U	<u>58</u>	22 U	21 U	21 U	22 U	24 U	23 U	N/A	21 U	22 U	19 U	21 U	23 U	19 U	19 U	21 U	25 U
PCB 1260	27 U	16 U	20 U	<u>27</u>	22 U	21 U	21 U	22 U	<u>26</u>	23 U	N/A	21 U	22 U	<u>20</u>	<u>80</u>	<u>32</u>	19 U	19 U	21 U	<u>35</u>

Table 6-10

MARINE SEDIMENTS SAMPLE
ANALYTICAL RESULTS SUMMARY
RAYONIER PULP MILL ESI
PORT ANGELES, WASHINGTON

Sample Location	Background																			
E&E Sample Number	SD84	SD85	SD86	SD23	SD24	SD25	SD26	SD28	SD29	SD30	SD32	SD33	SD34	SD35	SD36	SD37	SD38	SD39	SD40	SD41
CLP Sample Number	MJQ082	MJQ083	MJQ084	MJQ035	MJQ036	MJQ037	MJQ038	MJQ042	MJQ043	MJQ075	MJQ074	MJQ049	MJQ050	MJQ051	MJQ073	MJQ045	MJQ044	MJQ052	MJQ053	MJQ072
EPA Sample Number	97504802	97504803	97504804	97494630	97494631	97494632	97494633	97494637	97494638	97494153	97494151	97494645	97494646	97494647	97494150	97494640	97494639	97494648	97494649	97494669
Grain Size/Type	A	B	C	A	B	B	A	A	A	B	C	B	A	A	B	B	B	A	B	A
Dioxins/Furans (in ng/kg)																				
TCDFs (total)	1.1	0.51	0.47 U	N/A	N/A	N/A	N/A	<u>29</u>	N/A	<u>32</u>	<u>54</u>	N/A	<u>9.7</u>	<u>41</u>	<u>19 JH</u> (1.9 AC)	N/A	N/A	N/A	N/A	<u>51</u>
2,3,7,8-TCDF	0.82 U	0.34 U	0.47 U	N/A	N/A	N/A	N/A	<u>2.3</u>	N/A	<u>3</u>	<u>3.6</u>	N/A	<u>1.2</u>	<u>2.3</u>	<u>1.4</u>	N/A	N/A	N/A	N/A	<u>4</u>
PeCDFs (total)	0.60 U	0.25 U	0.48 U	N/A	N/A	N/A	N/A	<u>7.4</u>	N/A	<u>7.5</u>	<u>8.7</u>	N/A	1.9 U	<u>9.5</u>	<u>3</u>	N/A	N/A	N/A	N/A	<u>6.8</u>
HxCDFs (total)	0.80 U	0.44 U	0.53 U	N/A	N/A	N/A	N/A	<u>5.3</u>	N/A	3.5 U	<u>7</u>	N/A	1.9 U	<u>8.8</u>	<u>6.5</u>	N/A	N/A	N/A	N/A	3.7 U
HpCDFs (total)	2.3 U	0.17 U	1.0 U	N/A	N/A	N/A	N/A	<u>18</u>	N/A	<u>20</u>	<u>54</u>	N/A	<u>9.7</u>	<u>81</u>	<u>25</u>	N/A	N/A	N/A	N/A	<u>12</u>
1,2,3,4,6,7,8-HpCDF	1.3 U	0.13 U	0.67 U	N/A	N/A	N/A	N/A	<u>4.6 JQ</u>	N/A	<u>6.1 JQ</u>	<u>13</u>	N/A	<u>3.2 JQ</u>	<u>12</u>	<u>5.5</u>	N/A	N/A	N/A	N/A	<u>5.2 JQ</u>
OCDF	3.6 U	0.31 U	1.2 U	N/A	N/A	N/A	N/A	<u>22</u>	N/A	<u>21</u>	<u>120</u>	N/A	<u>9.6 JQ</u>	<u>210</u>	<u>29</u>	N/A	N/A	N/A	N/A	9.5 U
TCDDs (total)	0.83 U	0.24 U	0.59 U	N/A	N/A	N/A	N/A	<u>93</u>	N/A	<u>81</u>	<u>230</u>	N/A	<u>25</u>	<u>110</u>	<u>47</u>	N/A	N/A	N/A	N/A	<u>160</u>
2,3,7,8-TCDD	0.28 U	0.24 U	0.59 U	N/A	N/A	N/A	N/A	0.41 U	N/A	0.48 U	<u>1.2</u>	N/A	0.33 U	<u>0.71 JQ</u>	0.39 U	N/A	N/A	N/A	N/A	0.63 U
PeCDDs (total)	2.4 U	1.3 U	2.2 U	N/A	N/A	N/A	N/A	<u>67</u>	N/A	<u>43</u>	<u>190</u>	N/A	<u>16 JH</u>	<u>64 JQ</u>	<u>15</u>	N/A	N/A	N/A	N/A	<u>86</u>
1,2,3,7,8-PeCDD	0.50 U	0.56 U	0.53 U	N/A	N/A	N/A	N/A	1.3 U	N/A	1.6 U	3.3 U	N/A	0.72 U	0.96 U	1.3 U	N/A	N/A	N/A	N/A	1.9 U
HxCDDs (total)	4.3 U	1.4 U	1.8 U	N/A	N/A	N/A	N/A	45 U	N/A	<u>59</u>	<u>270</u>	N/A	<u>37</u>	<u>78 JH</u> (7.8 AC)	<u>61</u>	N/A	N/A	N/A	N/A	<u>110</u>
1,2,3,4,7,8-HxCDD	0.77 U	1.4 U	0.70 U	N/A	N/A	N/A	N/A	0.91 U	N/A	1.6 U	4.7 U	N/A	0.80 U	1.2 U	2.3 U	N/A	N/A	N/A	N/A	2.0 U
1,2,3,6,7,8-HxCDD	1.3 U	1.4 U	0.60 U	N/A	N/A	N/A	N/A	<u>2.6 JQ</u>	N/A	4.0 U	<u>11</u>	N/A	2.0 U	<u>3.0 JQ</u>	<u>3.1 JQ</u>	N/A	N/A	N/A	N/A	3.3 U
1,2,3,7,8,9-HxCDD	0.68 U	1.4 U	0.62 U	N/A	N/A	N/A	N/A	<u>2.8 JQ</u>	N/A	3.1 U	<u>10</u>	N/A	1.6 U	<u>2.5 JQ</u>	<u>2.6 JQ</u>	N/A	N/A	N/A	N/A	3.3 U
HpCDDs (total)	<u>16</u>	0.34 U	3.1 U	N/A	N/A	N/A	N/A	<u>72 JH</u>	N/A	<u>100</u>	<u>290</u>	N/A	<u>96 JH</u>	<u>340 JH</u>	<u>330 JH</u>	N/A	N/A	N/A	N/A	<u>75</u>
1,2,3,4,6,7,8-HpCDD	<u>7.8 JQ</u> (14.4 *)	0.34 U	3.1 U	N/A	N/A	N/A	N/A	<u>28 JH</u>	N/A	<u>46</u>	<u>110</u>	N/A	<u>25 JH</u>	<u>100 JH</u>	<u>69 JH</u>	N/A	N/A	N/A	N/A	<u>27</u>
OCDD	40 U	2.6 U	19 U	N/A	N/A	N/A	N/A	<u>300</u>	N/A	<u>340</u>	<u>1100</u>	N/A	<u>210</u>	<u>1500</u>	<u>770</u>	N/A	N/A	N/A	N/A	<u>170</u>
TEQ	<u>0.12</u>	<u>0</u>	<u>0.02</u>	N/A	N/A	N/A	N/A	<u>1.41</u>	N/A	<u>1.18</u>	<u>6.06</u>	N/A	<u>0.63</u>	<u>4.31</u>	<u>2.26</u>	N/A	N/A	N/A	N/A	<u>0.9</u>

Table 6-10

MARINE SEDIMENTS SAMPLE
ANALYTICAL RESULTS SUMMARY
RAYONIER PULP MILL ESI
PORT ANGELES, WASHINGTON

Sample Location	Background																	
E&E Sample Number	SD84	SD85	SD86	SD42	SD43	SD44	SD45	SD46	SD47	SD48	SD50	SD54	SD55	SD56	SD57	SD58	SD59	SD60
CLP Sample Number	MJQ082	MJQ083	MJQ084	MJQ054	MJQ056	MJQ057	MJQ055	MJQ071	MJQ058	MJQ059	MJQ060	MJQ065	MJQ067	MJQ079	MJQ080	MJQ078	MJQ048	MJQ066
EPA Sample Number	97504802	97504803	97504804	97494650	97494652	97494653	97494651	97494668	97494654	97494655	97494656	97494662	97494664	97494158	97494159	97494157	97494644	97494663
Grain Size/Type	A	B	C	A	A	B	A	A	B	A	B	A	B	A	A	B	A	C
Metals (in mg/kg)																		
Aluminum	22400	12600	12600	24100	17100	19100	20900	14700	11000	5720	10200	13400	14000	23500	17300	17200	19200	14700
Antimony	1.3 UJL	0.80 UJL	0.83 UJL	1.2 UJL	0.88 UJL	0.85 UJL	1.1 UJL	0.92 UJL	0.86 UJL	0.85 UJL	<u>0.90 JL</u>	0.75 UJL	0.78 UJL	1.0 UJL	0.86 UJL	0.90 UJL	0.96 UJL	0.79 UJL
Arsenic	7	2.6 JQ (2.7 *)	3.1	9.7	4.9 U	3.1 U	5.7 U	5.1	3.1 U	1.4 JQ	<u>3.1</u>	3.1	<u>3.7</u>	5.5	4.6	<u>6.4</u>	4.2 U	3.3
Barium	45.6 JQ	23 JQ	20.7 JQ	45.5 JQ	24.9 JQ	34.6 JQ	41.1 JQ	26.9 JQ	19.5 JQ	10.1 JQ	17.5 JQ	16.9 JQ	21.8 JQ	46.8 JQ	34.7 JQ	29.4 JQ	40.1 JQ	20.7 JQ
Beryllium	<u>0.46 JQ</u>	0.27 U	0.28 U	<u>0.42 JQ</u>	0.29 U	0.28 U	0.36 U	0.31 U	0.29 U	0.28 U	0.29 U	0.25 U	0.26 U	<u>0.40 JQ</u>	<u>0.30 JQ</u>	<u>0.31 JQ</u>	0.32 U	0.26 U
Cadmium	2.1 JQ (2.1 *)	1.0 JQ (1.3 *)	1.1 JQ (1.4 *)	<u>2.4</u>	1.5	1.4	1.7 JQ	1.6	1.1 JQ	0.54 JQ	1.0 JQ	1.5 UJH	1.5 UJH	2.1 JH	1.7 JH	<u>1.8 JH</u> (1.3 AC)	2.0 JH	1.6 UJH
Calcium	53100	8740	4600	8310	5350	8120	7290	4960	4450	2530	3900	5310	6320	8240	6500	6050	6250	4980
Chromium	47.5	29.2	29.2	54.1	35.3	39.9	43.3	32.8	24.6	11.2	19.2	24.3	25.1	39.4	29.3	30.2	33.5	25.7
Cobalt	11.5 JQ	6.7 JQ (13.3 *)	7.1 JQ	11.4 JQ	9.6 JQ	10 JQ	9.8 JQ	8.0 JQ	6.6 JQ	3.6 JQ	5.5 JQ	7.3 JQ	7.0 JQ	9.9 JQ	7.7 JQ	8.4 JQ	9.1 JQ	7.1 JQ
Copper	36	10.2	16.1	41.8	30	28.4	26.8	25	19.2	5.6 JQ	9.9	10.5	12.3	18.5	19.3	24	17.2	12.7
Iron	33300	18900	20200	34200	23600	26500	27200	22600	18000	9580	18600	25800	26100	39500	29400	31900	35300	27700
Lead	7.6	1.3	3.8	19.1	<u>27.7</u>	<u>6.7</u>	7.8	8.7	<u>6.8</u>	2.5	3.5	4.1	<u>5.1</u>	6.4	4.9	<u>5.2</u>	5.9	4.6
Magnesium	13300	7690	8490	13500	10500	10700	11100	8700	7280	4530	6570	8010	8110	12500	9440	10100	11100	8470
Manganese	284	262	198	293	211	265	251	193	176	106	208	276	265	397	301	339	351	278
Mercury	0.11 U	0.09 JQ (0.27 *)	0.13	0.17 JQ	<u>0.16</u>	0.07 U	0.16 JQ	0.07 U	0.11 JQ	<u>0.2</u>	0.11 JQ	0.05 U	0.06 U	<u>0.16</u>	0.08 JQ	0.08 JQ	0.08 U	0.06 U
Nickel	42.2	35.5	31.1	44.9	36.5	37.5	37.4	30.8	27.4	13.5	19.1	22.5	22.8	33	23.9	26.5	29.4	23
Potassium	3730 JK	936 JQ	1520	3420 JK	1900 JK	2130 JK	2910 JK	1890	1380 JQ	910 JQ	1280 JQ	1080 JQ	1280 JQ	2670 JK	1910 JK	1740 JK	1990 JK	1320
Selenium	1.3 U	0.80 U	0.83 U	1.2 U	0.88 U	0.85 U	1.1 U	0.92 U	0.86 U	0.85 U	0.88 U	0.75 U	0.78 U	1.0 UJL	0.86 UJL	0.90 U	0.96 UJL	0.79 U
Silver	<u>0.43 JQ</u>	0.27 U	0.28 U	0.41 U	0.29 U	0.28 U	0.36 U	0.31 U	0.29 U	0.28 U	0.29 U	0.25 U	0.26 U	0.34 U	0.29 U	0.30 U	0.32 U	0.26 U
Sodium	17900	4520	6950 JK	16000	9440	7820	13400	8250	7540	7840 JK	7340 JK	3720	4660	8970	6620	7240	8300	4860
Thallium	1.3 U	0.80 U	0.83 U	1.2 U	0.88 U	<u>1.2 JQ</u>	<u>1.2 JQ</u>	0.92 U	0.86 U	0.85 U	0.88 U	<u>1.5 JQ</u>	<u>1.3 JQ</u>	<u>1.6 JQ</u>	<u>1.0 JQ</u>	<u>1 JQ</u>	<u>1.3 JQ</u>	<u>1.7 JQ</u>
Vanadium	67.9	50.6	38.7	87.5	59.4	74.3	73.5	53.6	44.3	20.6	31.7	41.3	40	70.3	51.3	51.4	57.1	42.2
Zinc	88.7	32.4	43.7	92.9	52.7	63.6	65.5	55.1	41.9	23.8	42.3	51.8	54.8	81.3	64.8	67.7	77.1	56.1
Volatile Organic Compounds (in µg/kg)																		
2-Butanone	15.1 UJL	9.0 UJL	9.1 UJL	9.4 UJL	8.4 UJL	6.8 UJL	7.1 UJL	10.2 UJL	6.9 UJL	6.4 UJL	6.6 UJL	8.3 UJL	8.6 UJL	8.4 UJL	7.0 UJL	8.7 UJL	9.9 UJL	7.3 UJL
2-Propanone	15.1 UJL	9.0 UJL	9.1 UJL	9.4 UJL	8.4 UJL	6.8 UJL	7.1 UJL	10.2 UJL	6.9 UJL	6.4 UJL	6.6 UJL	8.3 UJL	8.6 UJL	8.4 UJL	7.0 UJL	8.7 UJL	9.9 UJL	7.3 UJL
Carbon disulfide	15.1 UJL	9.0 UJL	9.1 UJL	9.4 UJL	8.4 UJL	6.8 UJL	7.1 UJL	10.2 UJL	6.9 UJL	6.4 UJL	6.6 UJL	8.3 UJL	8.6 UJL	8.4 UJL	7.0 UJL	8.7 UJL	9.9 UJL	7.3 UJL
Methane, dichloro	15.1 UJL	9.0 UJL	9.1 UJL	9.4 UJL	8.4 UJL	6.8 UJL	7.1 UJL	10.2 UJL	6.9 UJL	6.4 UJL	6.6 UJL	8.3 UJL	8.6 UJL	8.4 UJL	7.0 UJL	8.7 UJL	9.9 UJL	7.3 UJL
Toluene	15.1 UJL	9.0 UJL	9.1 UJL	9.4 UJL	8.4 UJL	6.8 UJL	7.1 UJL	10.2 UJL	6.9 UJL	6.4 UJL	6.6 UJL	8.3 UJL	8.6 UJL	8.4 UJL	7.0 UJL	8.7 UJL	9.9 UJL	7.3 UJL

Table 6-10

MARINE SEDIMENTS SAMPLE
ANALYTICAL RESULTS SUMMARY
RAYONIER PULP MILL ESI
PORT ANGELES, WASHINGTON

Sample Location	Background																	
E&E Sample Number	SD84	SD85	SD86	SD42	SD43	SD44	SD45	SD46	SD47	SD48	SD50	SD54	SD55	SD56	SD57	SD58	SD59	SD60
CLP Sample Number	MJQ082	MJQ083	MJQ084	MJQ054	MJQ056	MJQ057	MJQ055	MJQ071	MJQ058	MJQ059	MJQ060	MJQ065	MJQ067	MJQ079	MJQ080	MJQ078	MJQ048	MJQ066
EPA Sample Number	97504802	97504803	97504804	97494650	97494652	97494653	97494651	97494668	97494654	97494655	97494656	97494662	97494664	97494158	97494159	97494157	97494644	97494663
Grain Size/Type	A	B	C	A	A	B	A	A	B	A	B	A	B	A	A	B	A	C
Semi-Volatile Organic Compounds (in µg/kg)																		
2,4,6-Trichlorophenol	214 U	132 U	160 U	199 U	199 U	159 U	193 U	181 U	147 U	153 U	153 U	161 U	165 U	160 U	160 U	154 U	69.3 JQ	161 U
4-Methylphenol	107 U	66.0 U	80.0 U	1010	1250	177	228	294	85.1	66.6 JQ	76.3 U	80.5 U	206	345	176	146	754	321
9H-Carbazole	21.4 U	13.2 U	16.0 U	99.7 U	19.9 U	15.9 U	19.3 U	18.1 U	14.7 U	15.3 U	15.3 U	16.1 U	16.5 U	16.0 U	16.0 U	15.4 U	16.2 U	16.1 U
9H-Fluorene	21.4 U	13.2 U	16.0 U	160	110	16.0	39.0	49.3	14.7 U	15.3 U	15.3 U	16.1 U	16.5 U	16.0 U	16.0 U	15.4 U	16.2 U	16.1 U
Acenaphthene	21.4 U	13.2 U	16.0 U	131	64.1	15.9 U	26.6	34.1	14.7 U	15.3 U	15.3 U	16.1 U	16.5 U	16.0 U	16.0 U	15.4 U	16.2 U	16.1 U
Acenaphthylene	21.4 U	13.2 U	16.0 U	101	36.2	15.9 U	18.3 JQ	26.1	14.7 U	14.6 JQ	15.3 U	16.1 U	16.5 U	16.0 U	16.0 U	15.4 U	16.2 U	16.1 U
Anthracene	21.4 U	13.2 U	16.0 U	217	134	22.3	68.8	67.1	19.5	16.4	15.3 U	16.1 U	16.5 U	16.0 U	16.0 U	15.4 U	16.2 U	16.1 U
Benzo(a)anthracene	21.4 U	13.2 U	16.0 U	267	119	32.6	97.0	65.4	23.8	15.3 U	15.3 U	16.1 U	16.5 U	16.0 U	16.0 U	15.4 U	16.2 U	16.1 U
Benzo(a)pyrene	21.4 U	13.2 U	16.0 U	135	53.0	24.1	52.4	41.8	15.4	15.3 U	15.3 U	16.1 U	16.5 U	16.0 U	16.0 U	15.4 U	16.2 U	16.1 U
Benzo(ghi)perylene	21.4 U	13.2 U	16.0 U	99.7 U	38.7	18.1	37.5	32.1	13.6 JQ	15.3 U	15.3 U	16.1 U	16.5 U	16.0 U	16.0 U	15.4 U	16.2 U	16.1 U
Benzo(b)fluoranthene	21.4 U	13.2 U	16.0 U	263	102	38.4	113	102	31.5	16.8	15.3 U	16.1 U	16.5 U	16.0 U	16.0 U	15.4 U	16.2 U	16.1 U
Benzo(k)fluoranthene	21.4 U	13.2 U	16.0 U	96.8 JQ	31.6	17.1	37.2	34.8	14.7 U	15.3 U	15.3 U	16.1 U	16.5 U	16.0 U	16.0 U	15.4 U	16.2 U	16.1 U
Benzoic acid	214 U	132 U	160 U	199 U	199 U	159 U	193 U	181 U	147 U	153 U	153 U	161 U	165 U	160 U	160 U	154 U	162 U	161 U
Chrysene	21.4 U	13.2 U	16.0 U	315	138	53.5	158	118	32.7	20.8 U	15.3 U	16.1 U	16.5 U	16.0 U	16.0 U	15.4 U	16.2 U	16.1 U
Dibenzo(a,h)anthracene	21.4 U	13.2 U	16.0 U	99.7 U	19.9 U	15.9 U	19.3 U	18.1 U	14.7 U	15.3 U	15.3 U	16.1 U	16.5 U	16.0 U	16.0 U	15.4 U	16.2 U	16.1 U
Dibenzofuran	21.4 U	13.2 U	16.0 U	171	87.7	17.0	44.8	54.7	13.9 JQ	15.7	15.3 U	16.1 U	16.5 U	16.0 U	16.0 U	15.4 U	16.2 U	16.1 U
Fluoranthene	21.5	13.2 U	21.1	966	593	107	337	426	99.3	96.4	15.2 JQ	16.1 U	20.4	18.6	26.7	22.1	25.2	22.8
Indeno(1,2,3-cd)pyrene	21.4 U	13.2 U	16.0 U	99.7 U	24.2	15.9 U	28.5	21.7	14.7 U	15.3 U	15.3 U	16.1 U	16.5 U	16.0 U	16.0 U	15.4 U	16.2 U	16.1 U
Naphthalene	21.4 U	13.2 U	16.0 U	1000	616	73.1	233	329	68.3	140	15.3 U	16.1 U	17.7	19.4	21.3	19.1	35.8	22.0
Naphthalene, 1-methyl-	21.4 U	13.2 U	16.0 U	99.7 U	36.2	15.9 U	19.3 U	25.5	14.7 U	15.3 U	15.3 U	16.1 U	14.7 JQ	14.4 JQ	16.0 U	15.4	26.7	16.2
Naphthalene, 2-methyl-	21.4 U	13.2 U	16.0 U	144	69.2	16.6	29.0	44.5	14.7 U	18.4	15.3 U	16.1 U	27.8	27.0	24.1	30.1	49.0	31.2
Phenanthrene	24.7	13.2 U	15.1 JQ (16 *)	730	625	74.7	238	293	75.6	98.6	18.0	16.1 U	27.7	28.1	39.2	30.2	42.3	33.3
Phenol	107 U	66.0 U	80.0 U	99.7 U	99.7 U	79.6 U	96.6 U	88.9 JQ	73.7 U	76.7 U	76.3 U	80.5 U	82.6 U	80.2 U	79.8 U	76.9 U	94.0	130
Pyrene	21.5	13.2 U	19.2	1150	689	131	419	444	119	104	17.4	16.1 U	22.2	21.1	25.7	24.8 U	27.2	26.3
Retene	107 U	66.0 U	80.0 U	600	808	79.7	324	223	73.7 U	65.3 JQ	76.3 U	80.5 U	82.6 U	80.2 U	79.8 U	76.9 U	81.2 U	80.5 U
Pesticide/PCBs (in ug/kg)																		
P,P'-DDD	2.7 U	1.6 U	2.0 U	2.5 U	2.5 U	2.0 U	2.4 U	2.3 U	1.8 U	1.9 U	1.9 U	2.0 U	2.1 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U
PCB 1242	27 U	16 U	20 U	25 U	25 U	20 U	24 U	23 U	18 U	19 U	19 U	20 U	21 U	20 U	20 U	19 U	20 U	20 U
PCB 1254	27 U	16 U	20 U	25 U	25 U	20 U	24 U	23 U	18 U	19 U	19 U	20 U	21 U	20 U	20 U	19 U	20 U	20 U
PCB 1260	27 U	16 U	20 U	99	110	22	37 JK	66	20	28 U	19 U	20 U	21 U	20 U	20 U	19 U	20 U	20 U

Table 6-10

MARINE SEDIMENTS SAMPLE
ANALYTICAL RESULTS SUMMARY
RAYONIER PULP MILL ESI
PORT ANGELES, WASHINGTON

Sample Location	Background																	
E&E Sample Number	SD84	SD85	SD86	SD42	SD43	SD44	SD45	SD46	SD47	SD48	SD50	SD54	SD55	SD56	SD57	SD58	SD59	SD60
CLP Sample Number	MJQ082	MJQ083	MJQ084	MJQ054	MJQ056	MJQ057	MJQ055	MJQ071	MJQ058	MJQ059	MJQ060	MJQ065	MJQ067	MJQ079	MJQ080	MJQ078	MJQ048	MJQ066
EPA Sample Number	97504802	97504803	97504804	97494650	97494652	97494653	97494651	97494668	97494654	97494655	97494656	97494662	97494664	97494158	97494159	97494157	97494644	97494663
Grain Size/Type	A	B	C	A	A	B	A	A	B	A	B	A	B	A	A	B	A	C
Dioxins/Furans (in ng/kg)																		
TCDFs (total)	1.1	0.51	0.47 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.4	N/A	N/A	N/A	N/A
2,3,7,8-TCDF	0.82 U	0.34 U	0.47 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.87 U	N/A	N/A	N/A	N/A
PeCDFs (total)	0.60 U	0.25 U	0.48 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	N/A	N/A	N/A	N/A
HxCDFs (total)	0.80 U	0.44 U	0.53 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0 U	N/A	N/A	N/A	N/A
HpCDFs (total)	2.3 U	0.17 U	1.0 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	N/A	N/A	N/A	N/A
1,2,3,4,6,7,8-HpCDF	1.3 U	0.13 U	0.67 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.2 U	N/A	N/A	N/A	N/A
OCDF	3.6 U	0.31 U	1.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.4 U	N/A	N/A	N/A	N/A
TCDDs (total)	0.83 U	0.24 U	0.59 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.9	N/A	N/A	N/A	N/A
2,3,7,8-TCDD	0.28 U	0.24 U	0.59 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.67 U	N/A	N/A	N/A	N/A
PeCDDs (total)	2.4 U	1.3 U	2.2 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.1 U	N/A	N/A	N/A	N/A
1,2,3,7,8-PeCDD	0.50 U	0.56 U	0.53 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1 U	N/A	N/A	N/A	N/A
HxCDDs (total)	4.3 U	1.4 U	1.8 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.9	N/A	N/A	N/A	N/A
1,2,3,4,7,8-HxCDD	0.77 U	1.4 U	0.70 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.62 U	N/A	N/A	N/A	N/A
1,2,3,6,7,8-HxCDD	1.3 U	1.4 U	0.60 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.0 U	N/A	N/A	N/A	N/A
1,2,3,7,8,9-HxCDD	0.68 U	1.4 U	0.62 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.4 U	N/A	N/A	N/A	N/A
HpCDDs (total)	16	0.34 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	N/A	N/A	N/A	N/A
1,2,3,4,6,7,8-HpCDD	7.8 JQ (14.4 *)	0.34 U	3.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.6 JQ	N/A	N/A	N/A	N/A
OCDD	40 U	2.6 U	19 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54 U	N/A	N/A	N/A	N/A
TEQ	0.12	0	0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 6-10

MARINE SEDIMENTS SAMPLE
ANALYTICAL RESULTS SUMMARY
RAYONIER PULP MILL ESI
PORT ANGELES, WASHINGTON

Sample Location	Background																		
E&E Sample Number	SD84	SD85	SD86	SD61	SD62	SD63	SD64	SD65	SD66	SD67	SD68	SD69	SD70	SD71	SD72	SD80	SD81	SD82	SD83
CLP Sample Number	MJQ082	MJQ083	MJQ084	MJQ047	MJQ089	MJQ063	MJQ062	MJQ061	MJQ068	MJQ070	MJQ010	MJQ091	MJQ011	MJQ085	MJQ086	MJQ018	MJQ019	MJQ020	MJQ021
EPA Sample Number	97504802	97504803	97504804	97494643	97504811	97494659	97494658	97494657	97494665	97494667	97494600	97504813	97494601	97504805	97504806	97494611	97494612	97494613	97494614
Grain Size/Type	A	B	C	B	A	A	A	B	A	A	A	A	A	C	C	B	B	B	B
Metals (in mg/kg)																			
Aluminum	22400	12600	12600	15900	13500	10200	12400	13800	15100	15700	11900	12800	12900	N/A	21500	7330	7950	15600	18600
Antimony	1.3 UJL	0.80 UJL	0.83 UJL	0.89 UJL	<u>1.9 JL</u>	0.93 UJL	0.93 UJL	0.85 UJL	0.79 UJL	0.78 UJL	0.84 U	0.99 UJL	0.88 U	N/A	1.4 UJL	0.91 U	1.1 U	0.73 U	0.64 U
Arsenic	7	2.6 JQ (2.7 *)	3.1	<u>3.9</u>	9.3	1.6 JQ	3.8	<u>3</u>	3.7	3	2.6 JQ	4.3	4.9	N/A	8.8	1.7 JQ	2.5 JQ	0.73 U	2.4
Barium	45.6 JQ	23 JQ	20.7 JQ	24.8 JQ	19.5 JQ	15.6 JQ	19.3 JQ	20.3 JQ	23.5 JQ	25.1 JQ	19.8 JQ	30.2 JQ	20.5 JQ	N/A	52.7 JQ	15.7 JQ	18.7 JQ	6.9 JQ	24.4 JQ
Beryllium	<u>0.46 JQ</u>	0.27 U	0.28 U	0.30 U	0.27 U	0.31 U	0.31 U	0.28 U	0.26 U	0.26 U	0.28 U	0.33 U	0.29 U	N/A	<u>0.50 JQ</u>	0.26 U	0.37 U	<u>0.39 JQ</u>	<u>0.25 JQ</u>
Cadmium	2.1 JQ (2.1 *)	1.0 JQ (1.3 *)	1.1 JQ (1.4 *)	1.6 JH	1.5 JH	1.0 JQ	1.2 JQ	1.4 JQ	1.6 UJH	1.6 UJH	1.2 JQ	1.3 JQ	1.5	N/A	<u>2.6</u>	0.97 JQ	1.2 JQ	<u>1.9 JH</u> (1.3 AC)	1.7 JH
Calcium	53100	8740	4600	5230	10200	4040	5040	4480	4510	6140	3540	4500	3510	N/A	6870	4250	6720	17300	5250
Chromium	47.5	29.2	29.2	27.2	26.6	18.2	22.2	23.5	26.3	27.8	20.9 JH	26.8	24.8 JH	N/A	40	16.4 JH	21.3 JH	31.5 JH	41.1 JH
Cobalt	11.5 JQ	6.7 JQ (13.3 *)	7.1 JQ	7.8 JQ	9.3 JQ	5.1 JQ	6.3 JQ	6.7 JQ	7.4 JQ	7.3 JQ	5.9 JQ	7.2 JQ	7.2 JQ	N/A	9.6 JQ	4.7 JQ	4.7 JQ	9.9 JQ	<u>13.8</u>
Copper	36	10.2	16.1	13.2	15.7	8.2	11.5	12.7	12.8	12.5	11.1	20.9	14.7	N/A	33.1	11.6	28.9	<u>35.3</u>	<u>33.9</u>
Iron	33300	18900	20200	30000	28200	19700	24100	25700	28200	27500	22500	22500	24500	N/A	34100	13500	13700	34700	32700
Lead	7.6	1.3	3.8	<u>4.6</u>	7.3	3.3	4.4	<u>4.8</u>	4.7	5.3	4.2 JK	10.3	5.4 JK	N/A	<u>13.6</u>	<u>20.3 JK</u> (14 AC)	<u>22.9 JK</u> (15.9 AC)	2.2 JK	3.5 JK
Magnesium	13300	7690	8490	9660	8550	6900	7850	8210	8680	8820	6990	8070	7710	N/A	11800	5080	6230	11000	12700
Manganese	284	262	198	308	298	214	258	265	291	278	223 JH	204	227 JH	N/A	280	167 JH	177 JH	339 JH	420 JH
Mercury	0.11 U	0.09 JQ (0.27 *)	0.13	0.09 JQ	0.09 JQ	0.08 JQ	0.08 JQ	0.07 JQ	0.06 U	0.06 U	0.11 JQ	0.08 U	<u>0.15</u>	N/A	<u>0.25</u>	0.09 JQ	0.12 JQ	0.06 JQ	0.07 JQ
Nickel	42.2	35.5	31.1	24.9	25.9	16.8	19.8	21.1	23.4	24.3	18.9	24.4	22.4	N/A	32.4	20.3	21.2	43.9	45.3
Potassium	3730 JK	936 JQ	1520	1560 JK	1760	1210 JQ	1400 JQ	1460	1390	1510	1180 JQ	1790	1500	N/A	3620	714 JQ	1320 JQ	1500	1320
Selenium	1.3 U	0.80 U	0.83 U	0.89 UJL	0.80 UJK	0.93 U	0.93 U	0.85 U	0.79 U	<u>0.93 JQ</u>	0.84 U	0.99 U	0.88 U	N/A	1.4 U	0.78 U	1.1 U	0.73 U	0.64 U
Silver	<u>0.43 JQ</u>	0.27 U	0.28 U	0.30 U	0.27 U	0.31 U	0.31 U	0.28 U	0.26 U	0.26 U	0.28 U	0.33 U	0.29 U	N/A	0.47 U	0.26 U	0.37 U	0.24 U	0.21 U
Sodium	17900	4520	6950 JK	7580	4260 JK	9040 JK	7910 JK	6660 JK	5300	5530	5440	8180 JK	6330	N/A	16500 JK	4350	11000	4350	3820
Thallium	1.3 U	0.80 U	0.83 U	<u>1.6 JQ</u>	0.80 U	0.93 U	0.93 U	0.85 U	<u>0.98 JQ</u>	<u>1.2 JQ</u>	<u>1.4 JQ</u>	0.99 U	<u>1.4 JQ</u>	N/A	1.4 U	<u>0.94 JQ</u>	1.1 U	<u>1.4 JQ</u>	<u>1.6 JQ</u>
Vanadium	67.9	50.6	38.7	46	49	29.9	35.5	39.5	42.8	45.7	34.9 JK	42.5	39.2 JK	N/A	71.4	37.3 JK	34.5 JK	51.4 JK	77.9 JK
Zinc	88.7	32.4	43.7	62.1	62.7	42.2	50.5	56.3	57.5	57.6	63.9 JK	57.7	59.6 JK	N/A	109	55.8 JK	69.7 JK	65.6 JK	54 JK
Volatile Organic Compounds (in µg/kg)																			
2-Butanone	15.1 UJL	9.0 UJL	9.1 UJL	8.9 UJL	6.9 UJL	R	7.7 UJL	6.6 UJL	9.7 UJL	7.6 UJL	9.1 UJL	13.0 UJL	9.1 UJL	10.5 UJL	16.7 UJL	7.6 UJL	8.2 UJL	7.2 UJL	6.5 UJL
2-Propanone	15.1 UJL	9.0 UJL	9.1 UJL	8.9 UJL	6.9 UJL	R	7.7 UJL	6.6 UJL	9.7 UJL	7.6 UJL	9.1 UJL	13.0 UJL	9.1 UJL	10.5 UJL	16.7 UJL	<u>41.2 JL</u>	8.2 UJL	7.2 UJL	6.5 UJL
Carbon disulfide	15.1 UJL	9.0 UJL	9.1 UJL	8.9 UJL	6.9 UJL	R	7.7 UJL	6.6 UJL	9.7 UJL	7.6 UJL	9.1 UJL	13.0 UJL	9.1 UJL	10.5 UJL	16.7 UJL	7.6 UJL	8.2 UJL	7.2 UJL	6.5 UJL
Methane, dichloro	15.1 UJL	9.0 UJL	9.1 UJL	8.9 UJL	6.9 UJL	R	7.7 UJL	6.6 UJL	9.7 UJL	7.6 UJL	9.1 UJL	13.0 UJL	9.1 UJL	10.5 UJL	16.7 UJL	7.6 UJL	8.2 UJL	7.2 UJL	6.5 UJL
Toluene	15.1 UJL	9.0 UJL	9.1 UJL	8.9 UJL	6.9 UJL	R	7.7 UJL	6.6 UJL	9.7 UJL	7.6 UJL	9.1 UJL	13.0 UJL	9.1 UJL	10.5 UJL	16.7 UJL	7.6 UJL	8.2 UJL	7.2 UJL	6.5 UJL

Table 6-10

MARINE SEDIMENTS SAMPLE
ANALYTICAL RESULTS SUMMARY
RAYONIER PULP MILL ESI
PORT ANGELES, WASHINGTON

Sample Location	Background																		
E&E Sample Number	SD84	SD85	SD86	SD61	SD62	SD63	SD64	SD65	SD66	SD67	SD68	SD69	SD70	SD71	SD72	SD80	SD81	SD82	SD83
CLP Sample Number	MJQ082	MJQ083	MJQ084	MJQ047	MJQ089	MJQ063	MJQ062	MJQ061	MJQ068	MJQ070	MJQ010	MJQ091	MJQ011	MJQ085	MJQ086	MJQ018	MJQ019	MJQ020	MJQ021
EPA Sample Number	97504802	97504803	97504804	97494643	97504811	97494659	97494658	97494657	97494665	97494667	97494600	97504813	97494601	97504805	97504806	97494611	97494612	97494613	97494614
Grain Size/Type	A	B	C	B	A	A	A	B	A	A	A	A	A	C	C	B	B	B	B
Semi-Volatile Organic Compounds (in µg/kg)																			
2,4,6-Trichlorophenol	214 U	132 U	160 U	175 U	142 U	174 U	162 U	170 U	172 U	152 U	210 U	172 U	208 U	N/A	266 U	190 U	214 U	154 U	180 U
4-Methylphenol	107 U	66.0 U	80.0 U	87.5 U	70.8 U	86.8 U	81.1 U	85.2 U	114	76.0 U	105 U	104	104 U	N/A	133 U	158	688	77.0 U	90.0 U
9H-Carbazole	21.4 U	13.2 U	16.0 U	17.5 U	14.2 U	17.4 U	16.2 U	17.0 U	17.2 U	15.2 U	21.0 U	17.2 U	20.8 U	N/A	26.6 U	32.2	185	628	18.0 U
9H-Fluorene	21.4 U	13.2 U	16.0 U	17.5 U	14.2 U	17.4 U	16.2 U	17.0 U	17.2 U	15.2 U	21.0 U	52.5	20.8 U	N/A	26.4 JQ	104	255	1180	18.0 U
Acenaphthene	21.4 U	13.2 U	16.0 U	17.5 U	14.2 U	17.4 U	16.2 U	17.0 U	17.2 U	15.2 U	21.0 U	43.4	20.8 U	N/A	26.6 U	73.7	273	755	18.0 U
Acenaphthylene	21.4 U	13.2 U	16.0 U	17.5 U	14.2 U	17.4 U	16.2 U	17.0 U	17.2 U	15.2 U	21.0 U	143	22.8	N/A	26.6 U	19.0 U	107 U	157	18.0 U
Anthracene	21.4 U	13.2 U	16.0 U	17.5 U	14.2 U	17.4 U	16.2 U	17.0 U	17.2 U	14.4 JQ	21.0 U	103	27.0 JQ	N/A	24.5 JQ	166	194	642	18.0 U
Benzo(a)anthracene	21.4 U	13.2 U	16.0 U	17.5 U	14.2 U	17.4 U	16.2 U	17.0 U	17.2 U	15.2 U	21.0 U	57.3	20.3 JQ	N/A	28.8	59.3	219	829	18.0 U
Benzo(a)pyrene	21.4 U	13.2 U	16.0 U	17.5 U	14.2 U	17.4 U	16.2 U	17.0 U	17.2 U	15.2 U	26.5	38.5	20.8 U	N/A	26.6 U	36.1	117	299	18.0 U
Benzo(ghi)perylene	21.4 U	13.2 U	16.0 U	17.5 U	14.2 U	17.4 U	16.2 U	17.0 U	17.2 U	15.2 U	21.0 U	35.4	20.8 U	N/A	26.6 U	17.9 JQ	107 U	127	18.0 U
Benzo(b)fluoranthene	21.4 U	13.2 U	16.0 U	17.5 U	14.2 U	17.4 U	16.2 U	17.0 U	17.2 U	14.2 JQ	39.3	56.2	24.6	N/A	36.4	61.0	216	986	18.0 U
Benzo(k)fluoranthene	21.4 U	13.2 U	16.0 U	17.5 U	14.2 U	17.4 U	16.2 U	17.0 U	17.2 U	15.2 U	21.0 U	28.2	20.8 U	N/A	26.6 U	27.5	87.1 JQ	471	18.0 U
Benzoic acid	214 U	132 U	160 U	175 U	142 U	174 U	162 U	170 U	172 U	152 U	210 U	172 U	208 U	N/A	266 U	190 U	214 U	154 U	180 U
Chrysene	21.4 U	13.2 U	16.0 U	17.5 U	14.2 U	17.4 U	16.2 U	17.0 U	17.2 U	85.9 U	19.6	30.1	96.8	31.1	N/A	47.1	111	341	2050
Dibenzo(a,h)anthracene	21.4 U	13.2 U	16.0 U	17.5 U	14.2 U	17.4 U	16.2 U	17.0 U	17.2 U	15.2 U	21.0 U	17.2 U	20.8 U	N/A	26.6 U	19.0 U	107 U	58.0 JQ	18.0 U
Dibenzofuran	21.4 U	13.2 U	16.0 U	17.5 U	14.2 U	17.4 U	16.2 U	17.0 U	17.2 U	15.2 U	21.0 U	97.1	20.8 U	N/A	26.6 U	86.8	201	667	18.0 U
Fluoranthene	21.5	13.2 U	21.1	16.8 JQ	14.2 U	17.4 U	27.7	39.1	19.8	76.5	36.1	569	106	N/A	148	464	1170	15000	25
Indeno(1,2,3-cd)pyrene	21.4 U	13.2 U	16.0 U	17.5 U	14.2 U	17.4 U	16.2 U	17.0 U	17.2 U	15.2 U	21.0 U	19.2	20.8 U	N/A	26.6 U	18.3 JQ	107 U	151	18.0 U
Naphthalene	21.4 U	13.2 U	16.0 U	17.5 U	14.2 U	17.4 U	24.2	34.5	21.6	81.2	31.8	1240	146 U	N/A	57.0	133	375	61.5 JQ	18.0 U
Naphthalene, 1-methyl-	21.4 U	13.2 U	16.0 U	17.5 U	14.2 U	17.4 U	16.2 U	17.0 U	17.2 U	15.2 U	21.0 U	48.6	20.8 U	N/A	29.6	21.5	88.9 JQ	94.8	18.0 U
Naphthalene, 2-methyl-	21.4 U	13.2 U	16.0 U	17.5 U	13.1 JQ	17.4 U	16.5	18.0	23.8	19.0	21.0 U	89.1	26.5	N/A	48.7	41.3	149	136	18.0 U
Phenanthrene	24.7	13.2 U	15.1 JQ (16 *)	19.9	14.2 U	15.5 JQ	35.5	40.3	25.6	64.9	39.3	642	112	N/A	135	227	708	11800	22.6
Phenol	107 U	66.0 U	80.0 U	87.5 U	70.8 U	86.8 U	81.1 U	85.2 U	85.9 U	76.0 U	105 U	116	104 U	N/A	133 U	95.0 U	182	77.0 U	90.0 U
Pyrene	21.5	13.2 U	19.2	17.4 JQ	14.2 U	17.4 U	25.1	40.3	23.6	62.2	37.6	637	129	N/A	150	351	988	8390	21.6
Retene	107 U	66.0 U	80.0 U	87.5 U	70.8 U	86.8 U	81.1 U	85.2 U	85.9 U	73.2 JQ	105 U	393	104 U	N/A	191	148	650	77.0 U	90.0 U
Pesticide/PCBs (in ug/kg)																			
P,P'-DDD	2.7 U	1.6 U	2.0 U	2.2 U	1.8 U	2.2 U	2.0 U	2.1 U	2.1 U	1.9 U	2.6 U	2.2 U	2.6 U	3.3 U	N/A	2.4 U	2.7 U	1.9 U	2.2 U
PCB 1242	27 U	16 U	20 U	22 U	18 U	22 U	20 U	21 U	21 U	19 U	26 U	22 U	26 U	33 U	N/A	24 U	27 U	19 U	22 U
PCB 1254	27 U	16 U	20 U	22 U	18 U	22 U	20 U	21 U	21 U	19 U	26 U	22 U	26 U	33 U	N/A	24 U	88	19 U	22 U
PCB 1260	27 U	16 U	20 U	22 U	18 U	22 U	20 U	21 U	21 U	19 U	26 U	32	26 U	33 U	N/A	24 U	34	19 U	22 U

Table 6-10

MARINE SEDIMENTS SAMPLE
ANALYTICAL RESULTS SUMMARY
RAYONIER PULP MILL ESI
PORT ANGELES, WASHINGTON

Sample Location	Background																		
E&E Sample Number	SD84	SD85	SD86	SD61	SD62	SD63	SD64	SD65	SD66	SD67	SD68	SD69	SD70	SD71	SD72	SD80	SD81	SD82	SD83
CLP Sample Number	MJQ082	MJQ083	MJQ084	MJQ047	MJQ089	MJQ063	MJQ062	MJQ061	MJQ068	MJQ070	MJQ010	MJQ091	MJQ011	MJQ085	MJQ086	MJQ018	MJQ019	MJQ020	MJQ021
EPA Sample Number	97504802	97504803	97504804	97494643	97504811	97494659	97494658	97494657	97494665	97494667	97494600	97504813	97494601	97504805	97504806	97494611	97494612	97494613	97494614
Grain Size/Type	A	B	C	B	A	A	A	B	A	A	A	A	A	C	C	B	B	B	B
Dioxins/Furans (in ng/kg)																			
TCDFs (total)	1.1	0.51	0.47 U	N/A	0.82	N/A	N/A	N/A	N/A	N/A	0.79	68	N/A	6.6	N/A	N/A	24	0.21 U	0.42 U
2,3,7,8-TCDF	0.82 U	0.34 U	0.47 U	N/A	0.67 JQ	N/A	N/A	N/A	N/A	N/A	0.79 JQ	4.4	N/A	0.86 JQ	N/A	N/A	2.5	0.21 U	0.42 U
PeCDFs (total)	0.60 U	0.25 U	0.48 U	N/A	0.50 U	N/A	N/A	N/A	N/A	N/A	2.5	7.2	N/A	1.0 U	N/A	N/A	11	2.6	1.6 U
HxCDFs (total)	0.80 U	0.44 U	0.53 U	N/A	0.60 U	N/A	N/A	N/A	N/A	N/A	1.6 U	9.6	N/A	1.1 U	N/A	N/A	3.7	2.9	0.82 U
HpCDFs (total)	2.3 U	0.17 U	1.0 U	N/A	1.1 U	N/A	N/A	N/A	N/A	N/A	6.7	20	N/A	6.9	N/A	N/A	13	4.2	1.1 U
1,2,3,4,6,7,8-HpCDF	1.3 U	0.13 U	0.67 U	N/A	0.79 U	N/A	N/A	N/A	N/A	N/A	2.6 JQ	5.1	N/A	2.1 U	N/A	N/A	5.2	2.0 U	0.80 U
OCDF	3.6 U	0.31 U	1.2 U	N/A	1.4 U	N/A	N/A	N/A	N/A	N/A	4.2 U	13	N/A	19	N/A	N/A	12	3.0 U	1.4 U
TCDDs (total)	0.83 U	0.24 U	0.59 U	N/A	2.3	N/A	N/A	N/A	N/A	N/A	5.3	150	N/A	21	N/A	N/A	130	0.19 U	0.75 U
2,3,7,8-TCDD	0.28 U	0.24 U	0.59 U	N/A	0.16 U	N/A	N/A	N/A	N/A	N/A	0.15 U	0.83 JQ	N/A	0.28 U	N/A	N/A	0.89 JQ	0.17 U	0.75 U
PeCDDs (total)	2.4 U	1.3 U	2.2 U	N/A	2.6 U	N/A	N/A	N/A	N/A	N/A	1.3 U	120	N/A	4.0 JH	N/A	N/A	58	0.3.0 U	2.1 U
1,2,3,7,8-PeCDD	0.50 U	0.56 U	0.53 U	N/A	0.49 U	N/A	N/A	N/A	N/A	N/A	0.37 U	2.1 U	N/A	0.57 U	N/A	N/A	3.0 JQ	0.16 U	2.1 U
HxCDDs (total)	4.3 U	1.4 U	1.8 U	N/A	6.3	N/A	N/A	N/A	N/A	N/A	9.4	150	N/A	14	N/A	N/A	150	2.3 U	1.5 U
1,2,3,4,7,8-HxCDD	0.77 U	1.4 U	0.70 U	N/A	1.3 U	N/A	N/A	N/A	N/A	N/A	0.55 U	2.1 U	N/A	1.8 U	N/A	N/A	5	0.21 U	1.5 U
1,2,3,6,7,8-HxCDD	1.3 U	1.4 U	0.60 U	N/A	1.3 U	N/A	N/A	N/A	N/A	N/A	1.6 U	5.8	N/A	1.7 U	N/A	N/A	8.4	1.1 U	1.4 U
1,2,3,7,8,9-HxCDD	0.68 U	1.4 U	0.62 U	N/A	1.3 U	N/A	N/A	N/A	N/A	N/A	1.2 U	4.7 JQ	N/A	1.7 U	N/A	N/A	9.3 JH (0.93 AC)	0.36 U	1.4 U
HpCDDs (total)	16	0.34 U	3.1 U	N/A	8.6	N/A	N/A	N/A	N/A	N/A	23	90 JH	N/A	51 JH (5.1 AC)	N/A	N/A	110	55	3
1,2,3,4,6,7,8-HpCDD	7.8 JQ (14.4 *)	0.34 U	3.1 U	N/A	4.0 JQ	N/A	N/A	N/A	N/A	N/A	12	38 JH	N/A	21 JH	N/A	N/A	48	20	2.0 U
OCDD	40 U	2.6 U	19 U	N/A	20	N/A	N/A	N/A	N/A	N/A	82	140	N/A	310	N/A	N/A	280	220	25
TEQ	0.12	0	0.02	N/A	0.13	N/A	N/A	N/A	N/A	N/A	0.3	2.91	N/A	0.63	N/A	N/A	5.74	0.42	0.02

6-10 key

Table 6-10

NOTE: **Bold type** indicates concentrations above sample quantitation limit.

Underlined type indicates result is elevated as defined in Section 5.

Key:

J - The analyte was positively identified. The associated numerical value is an estimate

JQ - The result is estimated because the value is less than the Contract Required Detection Limit.

K - Unknown bias.

L - Low bias.

U - The analyte was not detected at or above the reported result.

UJ - The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.

* - Value is equal to the CRDL/CRQL as appropriate

Source: Remedial Investigation For The Marine Environment Near The Former Rayonier Mill Site, Port Angeles, Washington (Public Review Draft). Prepared by Malcolm Pirnie for Rayonier. February 2007.

Table 6-4. Comparison of Sediment Concentrations to SMS Organic Carbon Normalized Numeric Standards (ppm oc).

	TOC (%)	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Fluorene	Naphthalene	Phenanthrene	Total LPAH	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Pyrene	Total Benzo(a)fluoranthenes	Total HPAH
SQS Criteria ¹	--	38	16	66	220	23	99	100	370	110	99	31	110	12	160	34	1,000	230	960
CSL Criteria ²	--	64	57	66	1,200	79	170	480	780	270	210	78	460	33	1,200	88	1,400	450	5,300
Harbor Sample																			
HS-01-SS	0.96	0.51 T	2.292	0.469 T	5.104 T	3.333	0.875 T	26.042	38.115	15.625	15.625	12.5	19.792	3.021	38.542	13.542	39.583	29.375	187.6041
HS-02-SS	2.82	0.887	1.206	0.957	3.901	1.809	3.546	8.865	20.284	6.738	5.674	4.255	8.865	1.099	15.248	4.255	18.794	12.4113	77.3404
HS-03-SS	3.19	1.442	1.536	2.163	4.389	2.163	8.777	10.972	30.000	5.643	4.702	3.448	7.837	0.752	18.182	3.448	20.376	10.3134	74.7021
HS-04-SS	3.24	1.235	1.296	1.944	5.247	2.068	6.79	9.877	27.222	5.864	4.321	3.086	7.716	0.71	14.506	3.025	18.827	9.5987	67.6543
HS-05-SS	0.54	0.648 T	0.704 T	0.63 T	2.037 T	1.074 T	3.704	5.741	13.889	3.704	3.148	2.407 T	4.259	0.611 T	9.444	2.407 T	10.741	6.3518	43.074
HS-06-SS	1.22	0.902 T	1.148	0.82 T	2.705	1.475	4.262	6.803	17.213	3.852	3.033	2.295	4.918	0.5 T	13.115	2.295	13.115	6.4754	49.5983
HS-07-SS	1.51	1.126 g	1.06 g	2.318 g	2.715 g	1.391 g	9.934 g	9.272 g	26.689	2.914 g	2.583 g	2.45 g	3.51 g	0.344 tg	12.583 g	1.921 g	13.245 g	5.0331	44.5827
HS-08-SS	1.80	1.111	0.944	1.778	2.444	1.389	6.111	8.333	21.000	3.111	2.889	2.444	4.167	0.417 T	10	2.056	12.222	5.5	42.8055
Intertidal Sample																			
IT-04-SS	0.24	1.458 T	1.625 T	0.271 T	1.458 T	1.25 T	1.333 T	10.833	16.771	2 T	1.375 T	1.458 T	4.167	0.283 tb	16.667	1 T	13.75	4.625	45.325
IT-05-SS	0.46	0.163 T	0.115 T	0.157 T	0.37 T	0.239 T	0.478 T	1.261	2.620	0.609 T	0.522 T	0.543 T	0.804 T	0.135 tb	2.174	0.478 T	2.13	1.2173	8.613
IT-06-SS	13.70	0.175	0.248	0.046 T	0.314	0.285	0.693	1.314	2.900	0.431	0.307	0.19	0.708	0.037 T	2.993	0.19	2.117	0.8248	7.7963
IT-07-SS	24.60	0.264 TD	0.407 TD	0.171 TD	0.569 TD	0.488 TD	1.22 D	1.22 D	4.073	1.057 D	0.569 TD	0.317 TD	1.545 D	0.175 U	4.065 D	0.325 TD	3.415 D	1.7479	13.0406
IT-08-SS	19.50	0.231 TD	0.385 TD	0.133 TD	0.615 TD	0.426 TD	0.872 TD	1.641 D	4.072	0.615 TD	0.441 TD	0.21 U	1.179 D	0.2 U	3.282 D	0.185 TD	2.718 D	1.0769	9.4974
Log Pond Sample																			
LP-01-SS	0.58	0.328 T	0.31 T	0.31 U	0.897 T	0.466 T	0.948 T	2.241 T	4.862	1.397 T	1.466 T	1.603 T	2.069 T	0.5 U	4.31	0.966 T	3.966	2.7931	18.5689
LP-02-SS	6.84	0.57	0.775	0.336	1.096	0.877	2.339	2.924	8.348	1.608	1.418	0.848	2.924	0.048 U	4.532	0.863	4.532	2.8508	19.576
LP-03-SS	4.02	0.672	0.597	0.249 T	1.045	0.846	2.164	2.338	7.239	1.468	0.995	0.672	4.229	0.184 T	4.229	0.647	3.483	2.4875	18.393
LP-04-SS	1.17	0.624 T	0.718 T	0.239 T	1.026 T	0.94 T	2.906	2.479	8.308	1.197	0.855 T	0.624 T	1.453	0.239 U	4.444	0.667 T	4.103	2.1709	15.5128
LP-05-SS	11.3	0.434 TD	0.664 TD	0.168 TD	0.735 D	0.699 TD	1.239 D	3.186 D	6.690	1.062 D	0.743 D	0.416 TD	1.416 D	0.177 TD	5.398 D	0.345 TD	4.956 D	1.6902	16.2035
LP-06-SS	18.5	1.459 TD	1.568 D	0.649 TD	1.405 TD	2.054 D	5.946 D	5.946 D	17.568	1.459 TD	0.865 TD	0.649 TD	1.946 D	0.335 U	5.405 D	0.449 TD	4.973 D	1.4594	17.2054
LP-07-SS	0.42	0.357 U	0.24 U	0.429 U	0.81 T	0.5 U	1.071 tb	2.619 T	4.500	1.857 T	1.714 T	1.5 T	2.619 T	0.643 U	5.238	1.548 T	5	4.0952	23.5714
LP-08-SS	1.29	0.295 T	0.349 T	0.233 T	0.853 T	0.558 T	1.318	2.093	5.403	1.705	1.085	0.752 T	2.481	0.209 U	5.116	0.775 T	4.806	2.8682	19.5891
LP-09-SS	20.6	0.252 TD	0.534 TD	0.345 TD	0.485 TD	0.631 D	0.825 D	5.825 D	8.646	0.777 D	0.451 TD	0.243 TD	1.456 D	0.126 U	6.796 D	0.301 TD	4.612 D	1.4077	16.0436
LP-09B-CS-0.2-2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-10-SS	9.96	0.532 TD	0.663 TD	0.392 TD	1.104 TD	0.823 TD	1.606 TD	3.313 D	7.902	1.707 TD	1.104 TD	0.723 TD	3.313 D	0.402 U	6.426 D	0.914 TD	5.422 D	3.4136	23.022
LP-11-SS	1.01	0.446 T	0.545 T	0.446 T	2.178	1.089 T	2.079 b	3.762	10.099	4.356	3.069	1.584	6.04	0.455 T	8.02	1.782	7.921	6.7326	39.9603
LP-12-SS	21.2	0.259	0.288	0.137	0.472	0.439	0.896	1.085	3.316	0.755	0.415	0.269	1.274	0.028 U	1.887	0.274	2.311	1.0141	8.1981
LP_12A-CS-0.3-1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-13-SS	14.4	1.111 TD	1.25 TD	0.438 TD	1.875 D	1.597 D	3.194 D	4.306 D	12.660	2.014	1.181 TD	0.764 TD	3.194 D	0.278 U	6.944 D	0.764 TD	6.181 D	3.2638	24.3055
LP-13A-CS-0.3-1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-13D-CS-0-0.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-13D-CS-0.9-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-14-SS	8.1	0.395	0.741	0.198	1.728	0.938	1.728	5.556	10.889	3.086	2.593	1.605	3.086	0.407	8.395	1.728	6.543	4.3703	31.8148
LP-15-SS	10.9	0.284	0.385	0.202	0.651	0.45	1.009	2.752	5.450	1.009	0.468	0.239	2.202	0.058 T	5.046	0.266	5.138	1.5779	16.0027
LP-16-SS	16.5	0.4 TD	0.667 TD	0.194 TD	1.152 D	0.667 TD	1.818 D	2.061 D	6.558	1.515 D	0.667 TD	0.333 TD	2.485 D	0.164 U	6.667 D	0.376 TD	6.061 D	2.1818	20.2848
LP-17-SS	1.17	0.231 TD	0.282 T	0.231 T	0.667 T	0.41 T	1.111	1.966	4.667	1.197	0.94 T	0.684 T	1.538	0.222 U	3.162	0.684 T	3.162	2.0085	13.376
LP-18-SS	23.3	0.335 TD	0.773 TD	0.326 TD	1.116 D	0.687 TD	1.373 D	5.579 D	9.854	1.674 D	0.73 TD	0.369 TD	2.747 D	0.215 U	13.305 D	0.416 TD	9.442 D	2.3605	31.0429
LP-18A-CS-0-1.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-18A-CS-1.3-1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-19-SS	1.9	0.395 T	0.326 T	0.579 T	1.263	0.468 T	3.211	4.684	10.532	2.947	1.211	0.579 T	4.895	0.153 T	23.158	0.684 T	15.263	3.5789	52.4684
LP-20-SS	13.5	0.622 U	0.519 U	0.726 U	1.111 TD	0.889 U	1.111 TD	2.222 TD	4.444	1.556 TD	1.407 TD	1.185 U	2.815 TD	1.185 U	4.074 TD	1.111 TD	3.778 TD	3.1851	17.9259
LP-20A-CS-0.3-1.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-20A-CS-1.85-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 6-4. Comparison of Sediment Concentrations to SMS Organic Carbon Normalized Numeric Standards (ppm oc).

	TOC (%)	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Fluorene	Naphthalene	Phenanthrene	Total LPAH	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Pyrene	Total Benzo(a)fluoranthenes	Total HPAH
SQS Criteria ¹	-	38	16	66	220	23	99	100	370	110	99	31	110	12	160	34	1,000	230	960
CSL Criteria ²	-	64	57	66	1,200	79	170	480	780	270	210	78	460	33	1,200	88	1,400	450	5,300
Mill Dock Sample																			
MD-01-SS	0.29	1.379 T	2.862 T	0.586 U	1.621 T	1.31 T	3.241 T	3.793 T	12.828	1.724 T	0.655 U	0.966 U	1.828 T	0.897 U	13.103	0.793 U	10	1.1379	27.7931
MD-02-SS	15	0.733 TD	0.867 TD	0.42 TD	1.933 D	1.133 TD	3.067 D	3.933 D	11.353	3 D	2.067 D	1 TD	4.467 D	0.327 U	7.333 D	1.133 TD	6.4 D	4.6	30
MD-03-SS	2.16	0.509 T	0.648 T	0.509 T	1.574	0.926	1.62	4.398	9.676	2.13	1.713	1.157	2.963	0.361 T	6.481	1.157	6.944	3.5648	26.4722
MD-04-SS	1.08	0.556 T	0.481 T	0.769 T	1.852	0.713 T	1.296 T	3.796	8.907	1.852	2.778	1.574	2.963	0.472 T	5.093	1.852	4.537	6.2962	27.4166
MD-05-SS	2.21	0.86	0.95	0.814	2.172	1.493	5.43	7.24	18.100	2.624	2.036	1.312	4.027	0.281 T	8.145	1.312	9.05	4.1628	32.9502
MD-06-SS	1.12	1.518	1.339	1.339	4.821	2.054	8.036	12.5	30.089	5.982	5.179	3.036	8.571	0.813 T	17.857	3.125	17.857	11.1607	73.5803
MD-07-SS	1.59	0.881 T	0.755 T	0.755 T	2.39	1.069	3.145	6.289	14.403	3.333	2.704	1.824	5.786	0.478 T	13.208	1.824	11.95	6.9811	48.088
MD-08-SS	2.38	1.471	1.513	3.908	19.328	2.941	3.95	11.765	43.403	34.454 D	24.37	10.084	54.622 D	3.782	67.227 D	12.185	71.429 D	57.9831	336.1344
MD-09-SS	1.82	0.879	0.934	0.934	3.242	1.319	3.242	6.044	15.714	3.626	2.857	1.868	6.593	0.549 T	9.89	1.868	10.989	6.8131	45.0549
MD-10-SS	3.87	0.853 TD	0.724 TD	1.008 TD	2.558 D	1.163 TD	3.876 D	6.202 D	15.530	3.359 D	2.842 D	1.525 TD	5.426 D	0.491 U	8.527 D	1.628 TD	8.786 D	6.2532	38.3462
MD-11-SS	1.5	1.333	0.8 T	1.2	2.2	1.2	10	8	23.400	2.2	1.867	1.4	2.733	0.273 T	8.667	1.267	10	3.7333	32.14
MD-12-SS	1.94	1.186	0.979	1.134	3.041	1.392	4.742	11.34	22.629	3.454	2.732	1.649	8.763	0.438 T	14.433	1.649	14.948	7.4226	55.4896
MD-13-SS	0.31	0.484 T	0.355 U	0.516 U	0.516 U	0.613 U	0.613 T	1.355 T	1.968	0.903 T	0.581 U	0.806 U	1.29 T	0.774 U	5.161	0.677 U	2.29 T	1.258	10.9032
MD-14-SS	0.48	1.438 T	2.042 T	1.188 T	5.417	3.125	3.958	11.042	26.771	8.542	5.417	2.708	13.958	0.875 T	17.708	3.125	22.917	13.125	88.375
MD-15-SS	2.31	0.866	0.736 T	0.649 T	2.294	1.082	3.81	5.195	13.766	3.03	2.208	1.515	4.762	0.398 T	10.39	1.472	10.823	5.6277	40.2251
MD-16-SS	4.19	2.291	2.625	0.979	3.819	4.296	5.728	13.365	30.811	6.921	5.251	3.103	9.547	0.859	21.002	3.341	20.764	12.4105	83.198
MD-17-SS	2.45	3.469	4.898	4	25.306	7.755	6.122	28.571	76.653	27.755	18.776	8.571	44.898 D	3.306	44.898 D	10.612	44.898 D	47.7551	251.4693
MD-18-SS	1.69	3.55	3.846	4.201	13.018	4.911	8.284	94.675 D	128.935	23.669	20.71	9.467	46.154	3.609	130.178 D	11.243	130.178 D	53.2544	428.4615
Outfall Sample																			
OF-01-SS	0.64	1.563 T	0.234 U	0.328 U	0.453 T	0.547 T	1.203 T	2.188 T	4.391	1.047 T	0.688 T	0.531 U	2.188 T	0.516 U	1.875 T	0.516 T	2.031 T	1.2343	9.5781
OF-02-SS	0.72	1.667 T	0.389 T	0.278 U	0.653 T	0.708 T	1.222 T	3.75	6.722	1.389 T	1.528 T	1.319 T	1.667 T	0.444 U	3.472	1.222 T	3.333	2.5138	16.4444
OF-03-SS	0.63	2.857	0.222 U	0.302 U	0.302 U	0.667 T	1.444 T	2.222	4.333	0.444 T	0.397 T	0.508 U	0.651 T	0.476 U	0.905 T	0.413 U	1.127 T	0.619	4.1428
OF-04-SS	0.64	1.875 T	0.219 U	0.313 U	0.313 U	0.563 T	1.391 T	2.031 T	3.984	0.391 T	0.531 T	0.5 U	0.625 T	0.469 U	0.875 T	0.406 U	1.188 T	0.625	4.2343
OF-05-SS	0.47	1.426 T	0.298 U	0.404 U	0.404 U	0.532 T	1.043 T	1.787 T	3.362	0.404 U	0.511 T	0.638 U	0.596 T	0.617 U	0.894 T	0.532 U	1.043 T	0.7021 U	3.0425
OF-06-SS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OF-07-SS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OF-08-SS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sequim Bay Sample																			
SB-01-SS	0.53	0.302 T	0.264 U	0.358 U	0.358 U	0.434 U	0.321 U	0.528 T	0.528	0.358 U	0.396 U	0.566 U	0.377 T	0.547 U	0.623 T	0.472 U	0.547 T	0.6226 U	1.5471
SB-02-SS	1.54	0.266 T	0.13 U	0.182 U	0.182 U	0.221 U	0.214 tb	0.519 T	0.734	0.234 T	0.253 T	0.299 U	0.325 T	0.286 U	0.571 T	0.247 U	0.552 T	0.435	2.3701
SB-03-SS	2.82	0.266 tg	0.156 Ug	0.216 Ug	0.216 Ug	0.262 Ug	0.202 Ug	0.567 tg	0.567	0.323 tg	0.312 tg	0.355 Ug	0.532 tg	0.337 Ug	0.745 tg	0.291 Ug	0.638 tg	0.4609	3.0106

Notes:
¹ SQS = sediment quality standard
² CSL = cleanup screening level

Value > SQS = Brown
 Value > CSL = Red

Data Qualifiers:

B and b = Analyte detected in sample and in associated method blank

D = The reported result is from a dilution

g = Estimate is greater than value shown

T and t = Detected below quantification limit shown

U = Compound not detected at or above the MRL/MDL

Table 6-4. Comparison of Sediment Concentrations to SMS Organic Carbon Normalized Numeric Standards (ppm oc).

	PCBs, Total	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene	Hexachlorobutadiene	N-Nitrosodiphenylamine	Dibenzofuran	Bis(2-ethylhexyl) Phthalate	Butyl Benzyl Phthalate	Diethyl Phthalate	Dimethyl Phthalate	Di-n-butyl Phthalate	Di-n-octyl Phthalate
SQS Criteria ¹	12	0.8	2.3	3.1	0.38	3.9	11	15	47	4.9	61	53	220	58
CSL Criteria ²	65	1.8	2.3	9	2.3	6.2	11	58	78	64	110	53	1,700	4,500
Harbor Sample														
HS-01-SS	1.25 U	0.24 U	0.208 U	0.292 U	0.323 U	0.219 U	0.344 U	1.771	12.5 tb	0.24 U	0.542 U	0.281 U	0.406 U	0.188 U
HS-02-SS	0.461 T	0.089 U	0.078 U	1.064	0.124 U	0.082 U	0.128 U	1.454	11.348 tb	0.089 U	0.202 U	0.106 U	0.266 T	0.071 U
HS-03-SS	0.878 T	0.094 U	0.082 U	0.784	0.132 U	0.088 U	0.138 U	2.257	2.821 tb	0.094 U	0.219 U	0.113 U	0.163 U	0.075 U
HS-04-SS	0.802 T	0.093 U	0.08 U	0.34 T	0.127 U	0.086 U	0.133 U	2.037	1.883 tb	0.093 U	0.213 U	0.111 U	0.157 U	0.074 U
HS-05-SS	1.833 U	0.37 U	0.315 U	0.463 U	0.5 U	0.333 U	0.537 U	0.907 T	2.037 tb	0.37 U	0.833 U	0.444 U	0.63 U	0.296 U
HS-06-SS	0.811 U	0.164 U	0.139 U	0.205 U	0.23 U	0.156 U	0.238 U	1.475	3.279 tb	0.164 U	0.377 U	0.197 U	0.279 U	0.131 U
HS-07-SS	1.457 T	0.139 Ug	0.119 Ug	0.185 tg	0.192 Ug	0.126 Ug	0.199 Ug	1.589 g	1.987 tgb	0.139 Ug	0.318 Ug	0.166 Ug	0.45 tgb	0.113 Ug
HS-08-SS	0.722 T	0.133 U	0.117 U	0.167 U	0.183 U	0.122 U	0.361 T	1.556	2.889 tb	0.133 U	0.306 U	0.161 U	0.228 U	0.106 U
Intertidal Sample														
IT-04-SS	3.417 U	0.708 U	0.625 U	0.875 U	1 U	0.667 U	1.042 U	1.875 T	5.417 tb	0.708 U	1.625 U	0.833 U	1.208 U	0.583 U
IT-05-SS	1.717 U	0.348 U	0.304 U	0.457 U	0.5 U	0.326 U	0.522 U	0.304 U	3.261 tb	0.348 U	0.826 U	0.435 U	0.609 U	0.283 U
IT-06-SS	0.949	0.015 U	0.012 U	0.018 U	0.02 U	0.014 U	0.021 U	0.299	0.504 tb	0.015 U	0.034 U	0.018 U	0.025 U	0.012 U
IT-07-SS	0.935	0.118 U	0.106 U	0.15 U	0.167 U	0.114 U	0.175 U	0.398 TD	0.447 Dtb	0.118 U	0.276 U	0.142 U	0.207 U	0.098 U
IT-08-SS	0.564 T	0.138 U	0.118 U	0.174 U	0.195 U	0.128 U	0.2 U	0.328 TD	0.426 Dtb	0.138 U	0.318 U	0.164 U	0.236 U	0.113 U
Log Pond Sample														
LP-01-SS	1.707 U	0.345 U	0.293 U	0.431 U	0.466 U	0.31 U	0.5 U	0.483 T	5.172 tb	0.345 U	0.776 U	0.397 U	0.586 U	0.276 U
LP-02-SS	0.497 T	0.034 U	0.029 U	0.05 T	0.047 U	0.031 U	0.048 U	0.775	0.57 tb	0.034 U	0.077 U	0.039 U	0.058 T	0.026 U
LP-03-SS	1.443 T	0.06 U	0.052 U	0.075 U	0.085 U	0.057 U	0.087 U	0.647	67.164 TD	0.06 U	0.139 U	0.072 U	0.102 U	0.047 U
LP-04-SS	0.846 U	0.162 U	0.145 U	0.205 U	0.231 U	0.154 U	0.239 U	0.94 T	1.111 tb	0.162 U	0.376 U	0.197 U	0.282 U	0.128 U
LP-05-SS	5.664	0.106 U	0.097 U	0.142 U	0.15 U	0.106 U	0.159 U	0.646 TD	0.54 Dtb	0.106 U	0.248 U	0.133 U	0.186 U	0.085 U
LP-06-SS	1.73	0.227 U	0.2 U	0.292 U	0.319 U	0.216 U	0.335 U	1.568 D	1.081 Dtb	0.227 U	0.53 U	0.276 U	0.395 U	0.184 U
LP-07-SS	2.357 U	0.452 U	0.381 U	0.571 U	0.619 U	0.429 U	0.643 U	0.381 U	33.333 tb	0.452 U	1.024 U	0.548 U	0.762 U	0.357 U
LP-08-SS	0.767 U	0.14 U	0.124 U	0.178 U	0.202 U	0.132 U	0.209 U	0.496 T	3.411 tb	0.14 U	0.326 U	0.171 U	0.24 U	0.116 U
LP-09-SS	0.874 T	0.087 U	0.078 U	0.112 U	0.121 U	0.083 U	0.126 U	0.447 TD	0.379 Dtb	0.087 U	0.199 U	0.102 U	0.15 U	0.068 U
LP-09B-CS-0.2-2.5	0.49 J	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-10-SS	3.614 T	0.281 U	0.241 U	0.351 U	0.392 U	0.261 U	0.402 U	0.633 TD	1.104 Dtb	0.281 U	0.643 U	0.331 U	0.482 U	0.221 U
LP-11-SS	0.98 U	0.188 U	0.158 U	0.238 U	0.257 U	0.178 U	0.267 U	0.921 T	1.683 tb	0.188 U	0.426 U	0.228 U	0.317 U	0.149 U
LP-12-SS	0.321 T	0.019 U	0.017 U	0.024 U	0.026 U	0.017 U	0.028 U	0.358	0.519 tb	0.019 U	0.044 U	0.052 T	0.033 U	0.015 U
LP_12A-CS-0.3-1.5	0.24 J	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-13-SS	1.111 T	0.188 U	0.167 U	0.236 U	0.264 U	0.174 U	0.278 U	1.319 D	1.042 Dtb	0.188 U	0.438 U	0.229 U	0.326 U	0.153 U
LP-13A-CS-0.3-1.5	1.06 J	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-13D-CS-0-0.9	11 J	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-13D-CS-0.9-2.0	6.59 J	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-14-SS	0.247 T	0.028 U	0.025 U	0.036 U	0.04 U	0.026 U	0.041 U	0.642	1.148 tb	0.028 U	0.064 U	0.033 U	0.333	0.022 U
LP-15-SS	0.688 T	0.022 U	0.028 T	0.028 U	0.03 U	0.02 U	0.032 U	0.376	0.422 Jb	0.022 U	0.05 U	0.193	0.038 U	0.017 U
LP-16-SS	1.152 T	0.109 U	0.097 U	0.139 U	0.152 U	0.103 U	0.164 U	0.6 TD	0.558 Dtb	0.109 U	0.255 U	0.133 U	0.188 U	0.091 U
LP-17-SS	9.402 T	0.154 U	0.137 U	0.197 U	0.214 U	0.145 U	0.222 U	0.359 T	11.111 tb	0.154 U	0.35 U	0.179 U	0.299 tb	0.12 U
LP-18-SS	0.352 T	0.146 U	0.129 U	0.185 U	0.202 U	0.137 U	0.215 U	0.558 TD	0.339 Dtb	0.146 U	0.339 U	0.176 U	0.687 TD	0.116 U
LP-18A-CS-0-1.3	0.82	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-18A-CS-1.3-1.5	4.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-19-SS	0.521 U	0.1 U	0.089 U	0.126 U	0.142 U	0.095 U	0.147 U	0.526 T	0.684 tb	0.1 U	0.237 U	0.121 U	0.505 T	0.084 U
LP-20-SS	0.593 T	0.815 U	0.674 U	1.037 U	1.111 U	0.726 U	1.185 U	0.674 U	1.63 Dtb	0.815 U	1.852 U	0.963 U	1.407 U	0.622 U
LP-20A-CS-0.3-1.85	1.51	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-20A-CS-1.85-3.0	5.7 J	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 6-4. Comparison of Sediment Concentrations to SMS Organic Carbon Normalized Numeric Standards (ppm oc).

	PCBs, Total	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene	Hexachlorobutadiene	N-Nitrosodiphenylamine	Dibenzofuran	Bis(2-ethylhexyl) Phthalate	Butyl Benzyl Phthalate	Diethyl Phthalate	Dimethyl Phthalate	Di-n-butyl Phthalate	Di-n-octyl Phthalate
SQS Criteria ¹	12	0.8	2.3	3.1	0.38	3.9	11	15	47	4.9	61	53	220	58
CSL Criteria ²	65	1.8	2.3	9	2.3	6.2	11	58	78	64	110	53	1,700	4,500
Mill Dock Sample														
MD-01-SS	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-02-SS	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-03-SS	3.102 T	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-04-SS	17.593	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-05-SS	4.299 T	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-06-SS	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-07-SS	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-08-SS	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-09-SS	1.648 T	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-10-SS	3.876 T	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-11-SS	2.667 T	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-12-SS	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-13-SS	3.194 U	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-14-SS	2.063 U	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-15-SS	3.16 T	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-16-SS	2.029 T	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-17-SS	11.837	--	--	--	--	--	--	--	--	--	--	--	--	--
MD-18-SS	7.692	--	--	--	--	--	--	--	--	--	--	--	--	--
Outfall Sample														
OF-01-SS	1.344 U	--	--	--	--	--	--	--	--	--	--	--	--	--
OF-02-SS	1.528 U	--	--	--	--	--	--	--	--	--	--	--	--	--
OF-03-SS	1.746 U	--	--	--	--	--	--	--	--	--	--	--	--	--
OF-04-SS	1.719 U	--	--	--	--	--	--	--	--	--	--	--	--	--
OF-05-SS	2.106 U	--	--	--	--	--	--	--	--	--	--	--	--	--
OF-06-SS	2.475 U	--	--	--	--	--	--	--	--	--	--	--	--	--
OF-07-SS	1.737 U	--	--	--	--	--	--	--	--	--	--	--	--	--
OF-08-SS	1.311 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Sequim Bay Sample														
SB-01-SS	1.868 U	0.377 U	0.321 U	0.472 U	0.528 U	0.358 U	0.547 U	0.321 U	8.868 tb	0.377 U	0.868 U	0.453 U	0.642 U	0.302 U
SB-02-SS	0.974 U	0.195 U	0.169 U	0.247 U	0.273 U	0.182 U	0.286 U	0.169 U	0.714 tb	0.195 U	0.448 U	0.234 U	0.331 U	0.156 U
SB-03-SS	1.135 U	0.23 Ug	0.202 Ug	0.291 Ug	0.323 Ug	0.216 Ug	0.337 Ug	0.202 Ug	5.674 tgb	0.23 Ug	0.567 Ug	0.277 Ug	0.426 Ug	0.184 Ug

Notes:
¹ SQS = sediment quality standard
² CSL = cleanup screening level

Value > SQS = Brown
 Value > CSL = Red

Data Qualifiers:

B and b = Analyte detected in sample and in associated method blank

D = The reported result is from a dilution

g = Estimate is greater than value shown

T and t = Detected below quantification limit shown

U = Compound not detected at or above the MRL/MDL

Table C-9. Concentrations of Phenol and Phthalate Compounds in Surface Sediments

Station	% TOC	4-Methylphenol		Phenol		2,4-Dimethylphenol		2-Methylphenol		Pentachlorophenol		Bis(2-Ethylhexyl) phthalate			Butyl benzyl phthalate		
		Result (µg/kg dw)	Qualifier	Result (µg/kg dw)	Qualifier	Result (µg/kg dw)	Qualifier	Result (µg/kg dw)	Qualifier	Result (µg/kg dw)	Qualifier	Result (µg/kg dw)	Result (mg/kg TOC)	Qualifier	Result (µg/kg dw)	Result (mg/kg TOC)	Qualifier
BL01A	5.03	13	□	14	□	15	□	14	□	47	□	140	2.78		11	0.22	□
BL02A	2.72	12	□	13	□	14	□	14	□	46	□	69	2.54		11	0.40	□
BL03A	2.51	13	□T	95	□	15	□	14	□	47	□	35	1.39		11	0.44	□
BL04A	0.64	12	□	22	□	14	□	14	□	46	□	13	2.03	□T	11	1.72	□
BL06A	1.89	13	□	47	□	15	□	14	□	47	□	28	1.48		11	0.58	□
BL08A	1.46	80		40		15	□	14	□	47	□	23	1.58		11	0.75	□
CO01A	0.588	13	□	13	□	14	□	14	□	47	□	14	2.38	□T	11	1.87	□
CO02A	2	120		72		15	□	14	□	47	□	26	1.30		21	1.05	
CO03A	0.314	12	□	13	□	14	□	14	□	46	□	11	3.50	□	11	3.50	□
CO04A	0.182	12	□	13	□	14	□	14	□	46	□	11	6.04	□	11	6.04	□
CO05A	0.885	13	□	14	□	15	□	14	□	47	□	11	1.24	□	11	1.24	□
DO01A	0.423	13	□T	24		15	□	14	□	47	□	11	2.60	□	11	2.60	□
DO02A	0.681	46		36		14	□	14	□	47	□	20	2.94		11	1.62	□
DO03A	0.542	13	□	21		14	□	14	□	47	□	11	2.03	□	11	2.03	□
DO04A	0.438	26		76		15	□	14	□	47	□	11	2.51	□	11	2.51	□
DO05A	0.495	95		110		15	□	14	□	47	□	11	2.22	□	11	2.22	□
EC01A	0.469	12	□	13	□	14	□	14	□	46	□	18	3.84	□T	11	2.35	□
EC02A	0.239	13	□	13	□	15	□	14	□	47	□	11	4.60	□	11	4.60	□
EC03A	1.06	72		13	□	15	□	14	□	47	□	70	6.60		11	1.04	□
EC04A	1.35	12	□	13	□	14	□	14	□	46	□	11	0.81	□	11	0.81	□
EC05A	0.216	13	□	14	□	15	□	14	□	47	□	130	60.19		11	5.09	□
ED01A	1.59	37		42		15	□	14	□	47	□	11	0.69	□	11	0.69	□
ED02A	2.22	110		22		15	□	14	□	47	□	45	2.03		11	0.50	□
ED03A	4.23	400		14	□	15	□	14	□	47	□	47	1.11		11	0.26	□L
ED04A	5.13	41000		230		15	□	14	□	47	□	270	5.26	□L	11	0.21	□L
ED05A	1.32	33		19	□T	14	□	14	□	46	□	11	0.83	□	11	0.83	□
EE01A	0.232	13	□	14	□	15	□	14	□	47	□	11	4.74	□	11	4.74	□
EE02A	0.311	12	□	13	□	14	□	14	□	46	□	11	3.54	□	11	3.54	□
EE03A	0.176	12	□	13	□	14	□	14	□	46	□	11	6.25	□	11	6.25	□
EE04A	0.197	12	□	13	□	14	□	14	□	46	□	11	5.58	□	11	5.58	□
EE05A	0.222	12	□	43		14	□	14	□	46	□	11	4.95	□	11	4.95	□
EI01A	0.198	13	□	13	□	14	□	14	□	47	□	11	5.56	□	11	5.56	□
EI02A	0.182	13	□	14	□	15	□	14	□	47	□	11	6.04	□	11	6.04	□
EI03A	0.459	12	□	13	□	14	□	14	□	46	□	11	2.40	□	11	2.40	□
EI04A	0.172	13	□	13	□	14	□	14	□	47	□	11	6.40	□	11	6.40	□
EI06A	0.162	13	□	14	□	15	□	14	□	47	□	11	6.79	□	11	6.79	□
EI07A	0.628	32		56		15	□	14	□	47	□	11	1.75	□	11	1.75	□
FT01A	2.44	15	□T	14		15	□	14	□	47	□	130	5.33		11	0.45	□
FT02A	2.61	29		14	□T	15	□	14	□	47	□	200	7.66		38	1.46	
FT04A	1.12	22		13	□	14	□	14	□	47	□	380	33.93		11	0.98	□
FT05A	1.85	13	□	130		15	□	14	□	47	□	73	3.95		11	0.59	□
FT06A	1.47	13	□	190		14	□	14	□	47	□	25	1.70		11	0.75	□
FT10A	1.38	32		110		14	□	14	□	46	□	19	1.38		11	0.80	□
FT11A	2.4	12	□	23		14	□	14	□	46	□	11	0.46	□	11	0.46	□
FT13A	0.879	13	□	20	□T	15	□	14	□	47	□	11	1.25	□	11	1.25	□
IE03A	6.48	13	□	68		15	□	14	□	47	□	24	0.37		11	0.17	□
IE04A	4.81	13	□	14	□	15	□	14	□	47	□	11	0.23	□	11	0.23	□
IE05A	5.93	13	□	24		15	□	14	□	47	□	24	0.40		11	0.19	□
IE06A	33.2	13	□	23		15	□	14	□	47	□	23	0.07		52	0.16	
IE07A	15.4	18	□T	210		15	□	14	□	47	□	11	0.07	□	11	0.07	□
IE09A	3.33	23		16	□T	15	□	14	□	48	□	22	0.66		11	0.33	□
IE13A	8.29	38		66		15	□	14	□	47	□	11	0.13	□	11	0.13	□
IE14A	2.79	13	□	14	□	15	□	14	□	47	□	11	0.39	□	11	0.39	□
IE15A	2.48	13	□	62		15	□	14	□	47	□	11	0.44	□	11	0.44	□
IE16A	4.9	31		14	□	15	□	14	□	47	□	11	0.22	□	11	0.22	□
IH01A	17.2	77	□T	54		58	□	55	□	190	□	43	0.25	□	44	0.26	□
IH02A	25	67		51		15	□	14	□	47	□	11	0.04	□	11	0.04	□
IH03A	11.7	31	□K	34		14	□	40	□K	47	□	26	0.22	□L	31	0.26	

SQS exceedances are shaded in gray. SQS and CSL criteria for phenolic compounds are expressed in µg/kg dry weight while phthalate compounds are expressed as mg/kg TOC normalized.

Table C-9. Concentrations of Phenol and Phthalate Compounds in Surface Sediments

Station	% TOC	4-Methylphenol		Phenol		2,4-Dimethylphenol		2-Methylphenol		Pentachlorophenol		Bis(2-Ethylhexyl) phthalate			Butyl benzyl phthalate		
		Result (µg/kg dw)	Qualifier	Result (µg/kg dw)	Qualifier	Result (µg/kg dw)	Qualifier	Result (µg/kg dw)	Qualifier	Result (µg/kg dw)	Qualifier	Result (µg/kg dw)	Result (mg/kg TOC)	Qualifier	Result (µg/kg dw)	Result (mg/kg TOC)	Qualifier
IH04A	2.91	28		71		15	□	14	□	47	□	11	0.38	□	11	0.38	□
IH05A	1.8	26		88		14	□	14	□	46	□	21	1.17	□	11	0.61	□
IH06A	2.09	30		86		14	□	14	□	47	□	37	1.77	□	12	0.57	□
KP01A	4.21	33		44		15	□	14	□	47	□	48	1.14	□	11	0.26	□
KP02A	5.31	20	□T	20		15	□	14	□	47	□	45	0.85	□	11	0.21	□
KP03A	1.8	13	□	14	□	15	□	14	□	47	□	33	1.83	□	11	0.61	□
KP04A	1.65	32		130		15	□	14	□	47	□	29	1.76	□	11	0.67	□
KP05A	1.09	13	□	36		15	□	14	□	47	□	48	4.40	□	11	1.01	□
KP07A	1.65	18	□T	15	□T	14	□	14	□	47	□	11	0.67	□T	11	0.67	□
KP08A	2.37	28		57		15	□	14	□	47	□	27	1.14	□	11	0.46	□
LA01A	11.7	23		31		15	□	14	□	47	□	11	0.09	□	11	0.09	□
LA02A	10.3	150		41		15	□	14	□	47	□	39	0.38	□	11	0.11	□
LA03A	9.17	25		28	□	15	□	14	□	47	□	41	0.45		73	0.80	
LP01A	3.6	26		70		14	□	14	□	46	□	20	0.56	□	11	0.31	□
LP03A	1.55	12	□	15	□T	14	□	14	□	46	□	14	0.90	□T	11	0.71	□
LP04A	3.79	68		13	□	14	□	14	□	47	□	25	0.66	□	27	0.71	N□
LP05A	3.6	280		100		15	□	14	□	47	□	75	2.08	□	11	0.31	□
MA01A	1.13	12	□	14	□T	14	□	14	□	46	□	560	49.56		11	0.97	□
MA02A	4.02	76	□	81	□□L	87	□□L	84	□□L	280	□	65	1.62	□□□	66	1.64	□
MA03A	2.38	67		610		15	□	14	□	47	□	41	1.72	□	11	0.46	□
MA04A	8.49	50		740		15	□	14	□□L	47	□	44	0.52	□	670	7.89	
MA05A	2.46	16	□T	22		15	□	14	□	47	□	20	0.81	□	11	0.45	□
MD01A	2.36	52		13	□	14	□	14	□	46	□	25	1.06	□	11	0.47	□
MD02A	3.62	93		14	□	15	□	14	□	47	□	52	1.44	□	22	0.61	N□
MD03A	1.24	71		14	□	15	□	14	□	47	□	28	2.26	□	11	0.89	□
MD04A	2.16	220		760		15	□	14	□	47	□	20	0.93	□	11	0.51	□
MD05A	1.45	13	□	17	□T	15	□	14	□	48	□	11	0.76	□	11	0.76	□
OH01A-R	0.431	13	□	27		15	□	14	□	47	□	11	2.55	□	11	2.55	□
OH02A	0.679	20		18	□T	15	□	14	□	47	□	11	1.62	□	11	1.62	□
OH03A	0.728	13	□	19	□T	15	□	14	□	47	□	11	1.51	□	11	1.51	□
RF01A	0.213	32	□	34	□	37	□	36	□	120	□	28	13.15	□	28	13.15	□
RF02A	0.403	49		120		14	□	14	□	46	□	11	2.73	□	11	2.73	□
RF03A	1.42	13	□	21		15	□	14	□	47	□	11	0.77	□	11	0.77	□
RL01A	0.414	12	□	13	□	14	□	14	□	46	□	17	4.11	□T	11	2.66	□
SQS		670		420		29		63		360		47			4.9		
CSL		670		1200		29		63		690		78			64		
LAET		670		420		29		63		360		1300			63		

Exceeds SQS/LAET criteria

Exceeds CSL/2LAET criteria

KE□:

Bold = Analyte was detected.

dw = dry weight

µg/kg = micrograms per kilogram

□T = The associated estimated positive result is less than the

□K = The associated estimated positive result has a likely unknown bias.

□L = The associated estimated positive result has a likely high bias.

□□□ = The associated estimated sample quantitation limit has a likely low bias.

□□L = The associated estimated sample quantitation limit has a likely high bias.

□ = Analyte was not detected at or above the reported result.

N□ = The associated estimated positive result is tentatively identified.

SQS exceedances are shaded in gray. SQS and CSL criteria for phenolic compounds are expressed in µg/kg dry weight while phthalate compounds are expressed as mg/kg TOC normalized.

Table C-9. Concentrations of Phenol and Phthalate Compounds in Surface Sediments

Station	% TOC	Diethyl phthalate			Di-N-butyl phthalate			Dimethyl phthalate			Di-n-Octyl phthalate		
		Result (µg/kg dw)	Result (mg/kg TOC)	Qualifier	Result (µg/kg dw)	Result (mg/kg TOC)	Qualifier	Result (µg/kg dw)	Result (mg/kg TOC)	Qualifier	Result (µg/kg dw)	Result (mg/kg TOC)	Qualifier
BL01A	5.03	16	0.32	□	12	0.24	□	7.7	0.15	□	8.3	0.17	□
BL02A	2.72	16	0.59	□	12	0.44	□	7.6	0.28	□	8.1	0.30	□
BL03A	2.51	16	0.64	□	12	0.48	□	7.6	0.30	□	8.2	0.33	□
BL04A	0.64	16	2.50	□	12	1.88	□	7.5	1.17	□	8.1	1.27	□
BL06A	1.89	16	0.85	□	12	0.63	□	7.6	0.40	□	8.2	0.43	□
BL08A	1.46	16	1.10	□	12	0.82	□	7.6	0.52	□	8.2	0.56	□
CO01A	0.588	16	2.72	□	12	2.04	□	7.6	1.29	□	8.2	1.39	□
CO02A	2	16	0.80	□	24	1.20	□	7.6	0.38	□	8.2	0.41	□
CO03A	0.314	16	5.10	□	12	3.82	□	7.5	2.39	□	8.1	2.58	□
CO04A	0.182	16	8.79	□	12	6.59	□	7.6	4.18	□	8.1	4.45	□
CO05A	0.885	16	1.81	□	12	1.36	□	7.7	0.87	□	8.2	0.93	□
DO01A	0.423	16	3.78	□	12	2.84	□	7.6	1.80	□	8.2	1.94	□
DO02A	0.681	16	2.35	□	12	1.76	□	7.6	1.12	□	8.2	1.20	□
DO03A	0.542	16	2.95	□	12	2.21	□	7.6	1.40	□	8.2	1.51	□
DO04A	0.438	16	3.65	□	12	2.74	□	7.7	1.76	□	8.3	1.89	□
DO05A	0.495	16	3.23	□	12	2.42	□	7.7	1.56	□	8.3	1.68	□
EC01A	0.469	16	3.41	□	12	2.56	□	7.6	1.62	□	8.1	1.73	□
EC02A	0.239	16	6.69	□	12	5.02	□	7.6	3.18	□	8.2	3.43	□
EC03A	1.06	16	1.51	□	12	1.13	□	26	2.45	□	8.2	0.77	□
EC04A	1.35	16	1.19	□	12	0.89	□	7.5	0.56	□	8.1	0.60	□
EC05A	0.216	16	7.41	□	12	5.56	□	7.7	3.56	□	8.3	3.84	□
ED01A	1.59	16	1.01	□	12	0.75	□	7.7	0.48	□	8.3	0.52	□
ED02A	2.22	16	0.72	□	12	0.54	□	7.7	0.35	□	8.3	0.37	□
ED03A	4.23	16	0.38	□	12	0.28	□	7.7	0.18	□	8.3	0.20	□
ED04A	5.13	16	0.31	□	12	0.23	□	7.7	0.15	□	88	1.72	□L
ED05A	1.32	16	1.21	□	12	0.91	□	7.5	0.57	□	8.1	0.61	□
EE01A	0.232	16	6.90	□	12	5.17	□	7.7	3.32	□	8.2	3.53	□
EE02A	0.311	16	5.14	□	12	3.86	□	7.5	2.41	□	8.1	2.60	□
EE03A	0.176	16	9.09	□	12	6.82	□	7.5	4.26	□	8.1	4.60	□
EE04A	0.197	16	8.12	□	12	6.09	□	7.5	3.81	□	8.1	4.11	□
EE05A	0.222	16	7.21	□	12	5.41	□	7.6	3.42	□	8.1	3.65	□
EI01A	0.198	16	8.08	□	12	6.06	□	7.6	3.84	□	8.2	4.14	□
EI02A	0.182	16	8.79	□	12	6.59	□	7.6	4.18	□	8.2	4.51	□
EI03A	0.459	16	3.49	□	12	2.61	□	7.5	1.63	□	8.1	1.76	□
EI04A	0.172	16	9.30	□	12	6.98	□	7.6	4.42	□	8.2	4.77	□
EI06A	0.162	16	9.88	□	12	7.41	□	7.7	4.75	□	8.3	5.12	□
EI07A	0.628	16	2.55	□	12	1.91	□	7.6	1.21	□	8.2	1.31	□
FT01A	2.44	16	0.66	□	17	0.70	□T	7.7	0.32	□	8.2	0.34	□
FT02A	2.61	16	0.61	□	12	0.46	□	7.7	0.30	□	28	1.07	□
FT04A	1.12	16	1.43	□	15	1.34	□T	7.6	0.68	□	8.2	0.73	□
FT05A	1.85	16	0.86	□	12	0.65	□	7.7	0.42	□	8.2	0.44	□
FT06A	1.47	16	1.09	□	12	0.82	□	7.6	0.52	□	8.2	0.56	□
FT10A	1.38	16	1.16	□	12	0.87	□	7.5	0.54	□	8.1	0.59	□
FT11A	2.4	16	0.67	□	12	0.50	□	7.5	0.31	□	8	0.33	□
FT13A	0.879	16	1.82	□	12	1.37	□	7.7	0.88	□	8.3	0.94	□
IE03A	6.48	16	0.25	□	12	0.19	□	7.7	0.12	□	8.3	0.13	□
IE04A	4.81	16	0.33	□	12	0.25	□	7.6	0.16	□	8.2	0.17	□
IE05A	5.93	20	0.34	□	12	0.20	□	7.7	0.13	□	8.3	0.14	□
IE06A	33.2	16	0.05	□	12	0.04	□	7.7	0.02	□	8.3	0.03	□
IE07A	15.4	16	0.10	□	12	0.08	□	7.6	0.05	□	8.2	0.05	□
IE09A	3.33	16	0.48	□	12	0.36	□	7.8	0.23	□	8.3	0.25	□
IE13A	8.29	16	0.19	□	12	0.14	□	7.7	0.09	□	8.3	0.10	□
IE14A	2.79	16	0.57	□	12	0.43	□	7.7	0.28	□	8.2	0.29	□
IE15A	2.48	28	1.13	□	12	0.48	□	7.6	0.31	□	8.2	0.33	□
IE16A	4.9	16	0.33	□	12	0.24	□	7.7	0.16	□	8.3	0.17	□
IH01A	17.2	93	0.54	□	48	0.28	□	30	0.17	□	33	0.19	□
IH02A	25	16	0.06	□	12	0.05	□	7.7	0.03	□	8.2	0.03	□
IH03A	11.7	16	0.14	□	12	0.10	□	7.6	0.06	□	8.2	0.07	□

SQS exceedances are shaded in gray. SQS and CSL criteria for phenolic compounds are expressed in µg/kg dry weight while phthalate compounds are expressed as mg/kg TOC normalized.

Table C-9. Concentrations of Phenol and Phthalate Compounds in Surface Sediments

Station	% TOC	Diethyl phthalate			Di-N-butyl phthalate			Dimethyl phthalate			Di-n-Octyl phthalate		
		Result (µg/kg dw)	Result (mg/kg TOC)	Qualifier	Result (µg/kg dw)	Result (mg/kg TOC)	Qualifier	Result (µg/kg dw)	Result (mg/kg TOC)	Qualifier	Result (µg/kg dw)	Result (mg/kg TOC)	Qualifier
IH04A	2.91	31	1.07		12	0.41	□	7.7	0.26	□	8.3	0.29	□
IH05A	1.8	19	1.06	□T	12	0.67	□	7.4	0.41	□	8	0.44	□
IH06A	2.09	21	1.00		16	0.77	□T	7.6	0.36	□	8.1	0.39	□
KP01A	4.21	19	0.45	□T	12	0.29	□	7.7	0.18	□	8.2	0.19	□
KP02A	5.31	16	0.30	□	12	0.23	□	7.7	0.15	□	8.3	0.16	□
KP03A	1.8	16	0.89	□	12	0.67	□	7.7	0.43	□	8.2	0.46	□
KP04A	1.65	16	0.97	□	12	0.73	□	7.7	0.47	□	8.2	0.50	□
KP05A	1.09	20	1.83		12	1.10	□	7.7	0.71	□	8.2	0.75	□
KP07A	1.65	16	0.97	□	12	0.73	□	7.6	0.46	□	8.2	0.50	□
KP08A	2.37	16	0.68	□	12	0.51	□	7.6	0.32	□	8.2	0.35	□
LA01A	11.7	16	0.14	□	12	0.10	□	7.7	0.07	□	8.3	0.07	□
LA02A	10.3	16	0.16	□	12	0.12	□	7.7	0.07	□	8.3	0.08	□
LA03A	9.17	19	0.21	□T	12	0.13	□	7.7	0.08	□	8.3	0.09	□
LP01A	3.6	20	0.56		13	0.36	□T	7.6	0.21	□	9.7	0.27	□T
LP03A	1.55	16	1.03	□	12	0.77	□	7.5	0.48	□	8.1	0.52	□
LP04A	3.79	16	0.42	□	40	1.06	N□	7.6	0.20	□	8.2	0.22	□
LP05A	3.6	16	0.44	□	12	0.33	□	7.7	0.21	□	8.3	0.23	□
MA01A	1.13	16	1.42	□	12	1.06	□	7.4	0.65	□	8	0.71	□
MA02A	4.02	97	2.41	□	73	1.82	□□L	46	1.14	□	49	1.22	□□□
MA03A	2.38	20	0.84		12	0.50	□	7.6	0.32	□	8.2	0.34	□
MA04A	8.49	16	0.19	□	12	0.14	□	7.7	0.09	□	8.3	0.10	□
MA05A	2.46	16	0.65	□	12	0.49	□	7.6	0.31	□	8.2	0.33	□
MD01A	2.36	16	0.68	□	12	0.51	□	7.6	0.32	□	8.1	0.34	□
MD02A	3.62	16	0.44	□	24	0.66		7.7	0.21	□	8.2	0.23	□
MD03A	1.24	16	1.29	□	27	2.18	N□	7.7	0.62	□	8.3	0.67	□
MD04A	2.16	16	0.74	□	21	0.97	N□	7.7	0.36	□	8.3	0.38	□
MD05A	1.45	16	1.10	□	12	0.83	□	7.7	0.53	□	8.3	0.57	□
OH01A-R	0.431	16	3.71	□	12	2.78	□	7.7	1.79	□	8.2	1.90	□
OH02A	0.679	16	2.36	□	12	1.77	□	7.6	1.12	□	8.2	1.21	□
OH03A	0.728	16	2.20	□	12	1.65	□	7.7	1.06	□	8.3	1.14	□
RF01A	0.213	41	19.25	□	31	14.55	□	19	8.92	□	21	9.86	□
RF02A	0.403	16	3.97	□	12	2.98	□	7.5	1.86	□	8.1	2.01	□
RF03A	1.42	16	1.13	□	12	0.85	□	7.7	0.54	□	8.3	0.58	□
RL01A	0.414	16	3.86	□	12	2.90	□	7.6	1.84	□	8.1	1.96	□
SQS		61			220			53			58		
CSL		110			1700			53			4500		
LAET		200			1400			71			6200		

SQS exceedances are shaded in gray. SQS and CSL criteria for phenolic compounds are expressed in µg/kg dry weight while phthalate compounds are expressed as mg/kg TOC normalized.

Table 5. Surface Sediment Metals that Exceed SMS Criteria and Associated Bioassay Results

Region	Location	Study	Arsenic	Cadmium	Mercury	Zinc	Bioassay Result		
			SQS = 57 CSL = 93	SQS = 5.1 CSL = 6.7	SQS = 0.41 CSL = 0.59	SQS = 410 CSL = 960	Larval Development	Amphipod Mortality	Polychaete Growth
			(mg/Kg)						
Lagoon	LA01A	E & E 2012	-	5.90	0.45	-	na	na	na
	LA02A	E & E 2012	-	-	0.59	-	Fail	Pass	Pass
	LA03A	E & E 2012	-	-	0.59	-	na	na	na
	LA01A-01	Exponent 2008	-	6.4	0.57	-	na	na	na
	LA02A-01	Exponent 2008	-	7.6	0.59	-	na	na	na
	LA03A-01	Exponent 2008	-	5.7	0.59	-	na	na	na
	NPI-L1-01	Exponent 2008	-	6.0	0.61	411	na	na	na
Inner Harbor	IH01A	E & E 2012	-	7.4	3.50	1600	Pass	Pass	Pass
	IH02A	E & E 2012	69.0	-	1.30	460	Fail	Pass	Pass
	IE09A	E & E 2012	-	-	1.20	860	Fail	Pass	Pass
	IE13A	E & E 2012	-	-	1.90	610	na	na	na
	IE16A	E & E 2012	-	-	1.30	-	na	na	na
	NPI-PA1-01	Exponent 2008	-	-	0.54	-	na	na	na
	NPI-PA2-01	Exponent 2008	-	-	0.43	-	na	na	na
	NPI-PA3-01	Exponent 2008	-	8.1	1.49	1660	na	na	na
	NPI-PA4-01	Exponent 2008	-	6.9	2.65	1330	na	na	na
	NPI-PA6-01	Exponent 2008	-	-	1.26	-	na	na	na
	NPI-PA8-01	Exponent 2008	-	-	0.67	-	na	na	na
	NPI-PA9-01	Exponent 2008	-	-	1.10	-	na	na	na
NPI-PA10-01	Exponent 2008	-	-	0.66	-	na	na	na	
Rayonier	R05LP-06	Malcolm Pirnie 2007a	-	-	0.43	-	Pass	Pass	Pass

Key:

Exceeds SQS criteria
Exceeds CSL criteria

- = concentration below SMS criteria

Key:

Passed SMS criteria
Failed SQS criteria
Failed CSL criteria

na = not analyzed

Table 6. Surface Sediment Organic COPCs that Exceed SMS or LAET Criteria and Associated Bioassay Results

Region	Location	Study	TOC	SMS Exceedances							LAET Exceedances			Bioassay Results		
				Bis(2-ethylhexyl) phthalate	PCBs, Sum of Aroclors	PCBs, Sum of Congeners	2,4-Dimethyl phenol	2-Methyl phenol	4-Methyl phenol	Phenol	PCBs, Sum of Congeners	Butyl benzyl phthalate	Fluoranthene	Larval Development	Amphipod Mortality	Polychaete Growth
				SQS = 47 CSL = 78	SQS = 12 CSL = 65	SQS = 12 CSL = 65	SQS = 29 CSL = 29	SQS = 63 CSL = 63	SQS = 670 CSL = 670	SQS = 420 CSL = 1200	LAET = 130 2LAET = 1000	LAET = 63 2LAET = 900	LAET = 1700 2LAET = 2500			
wt%	mg/Kg OC			µg/Kg				µg/Kg								
Lagoon	LA03A	E & E 2012	9.2	-	-	-	-	-	-	-	-	73	-	na	na	na
Inner Harbor	MA01A	E & E 2012	1.1	49.6	-	-	-	-	-	-	-	-	-	Fail	Pass	Pass
	MA03A	E & E 2012	4.0	-	-	-	-	-	-	610	-	-	-	na	na	na
	MA04A	E & E 2012	8.5	-	-	-	-	-	-	740	-	670	-	na	na	na
	WP-01-SS	Malcolm Pirnie 2007b	4.7	-	-	-	-	-	-	-	-	372	-	na	na	na
	WP-02-SS	Malcolm Pirnie 2007b	10.0	-	-	-	-	-	-	-	-	219	-	na	na	na
	WP-03-SS	Malcolm Pirnie 2007b	3.7	-	-	-	-	-	-	-	-	173	-	na	na	na
	WP-04-SS	Malcolm Pirnie 2007b	5.6	-	-	-	-	-	-	-	-	148	-	na	na	na
Rayonier	WP-11-SS	Malcolm Pirnie 2007b	6.8	-	-	-	-	-	-	-	-	2930	-	na	na	na
	R05IT-07	Malcolm Pirnie 2007a	24.6	-	-	-	-	-	-	1700	-	-	-	na	na	na
	R05LP-03	Malcolm Pirnie 2007a	4.0	67.2	-	-	-	-	-	-	-	-	-	Pass	Pass	Pass
	R05LP-06	Malcolm Pirnie 2007a	18.5	-	-	-	54	200	1300	-	-	-	-	Pass	Pass	Pass
	R05LP-10	Malcolm Pirnie 2007a	10.0	-	-	-	-	-	-	480	-	-	-	Fail	Fail	Fail
	R05LP-13	Malcolm Pirnie 2007a	14.4	-	-	-	-	-	-	820	-	-	-	Fail	Fail	Pass
	R05LP-16	Malcolm Pirnie 2007a	16.5	-	-	-	-	-	-	840	-	-	-	Fail	Pass	Pass
	R05LP-18	Malcolm Pirnie 2007a	23.3	-	-	-	-	-	-	-	-	-	3100	Fail	Pass	Fail
	R05LP-20	Malcolm Pirnie 2007a	13.5	-	-	-	-	-	-	11000	-	-	-	Pass	Pass	Pass
	R05MD-02	Malcolm Pirnie 2007a	15.0	-	-	-	-	-	-	690	-	-	-	Pass	Pass	Pass
	R05MD-04	Malcolm Pirnie 2007a	1.1	-	17.6	-	-	-	-	-	-	-	-	Pass	Pass	Pass
	R05MD-12	Malcolm Pirnie 2007a	1.9	-	-	-	-	-	-	1400	-	-	-	Pass	Pass	Pass
	MD-14-SS	Malcolm Pirnie 2007b	1.3	-	-	16.9	-	-	-	-	-	-	-	na	na	na
	MD-18-SS	Malcolm Pirnie 2007b	4.1	-	-	-	-	-	-	-	-	352	-	na	na	na
	MD-23-SS	Malcolm Pirnie 2007b	0.8	-	-	19.7	-	-	-	-	-	-	-	na	na	na
	LP-03-SS	Malcolm Pirnie 2007b	11.9	-	-	-	-	-	-	-	-	152	-	na	na	na
	LP-04-SS	Malcolm Pirnie 2007b	8.3	-	-	-	-	-	-	-	-	155	-	na	na	na
LP-08-SS	Malcolm Pirnie 2007b	21.2	-	-	-	-	-	-	-	-	200	-	na	na	na	
ED04A	E & E 2012	5.1	-	-	-	-	-	-	41000	-	-	-	Fail	Fail	Pass	
MD04A	E & E 2012	2.2	-	-	-	-	-	-	-	760	-	-	na	na	na	

Key:

> 3.5% TOC
Exceeds SQS/LAET criteria
Exceeds CSL/2LAET criteria

- = concentration below SMS criteria

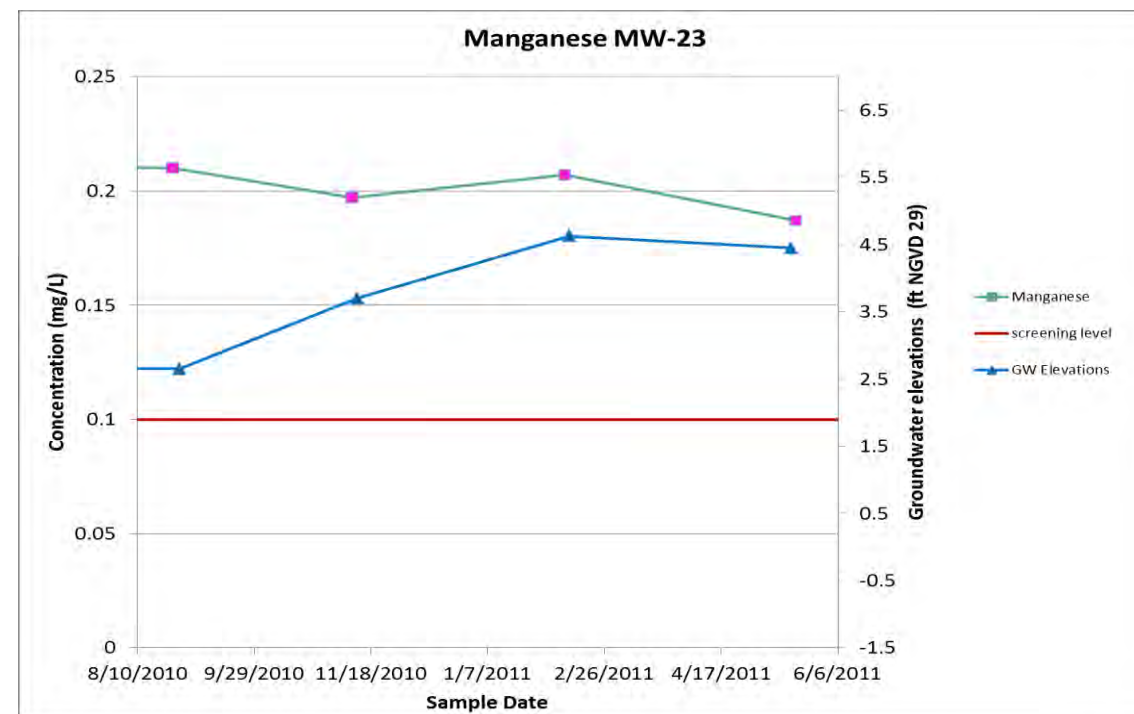
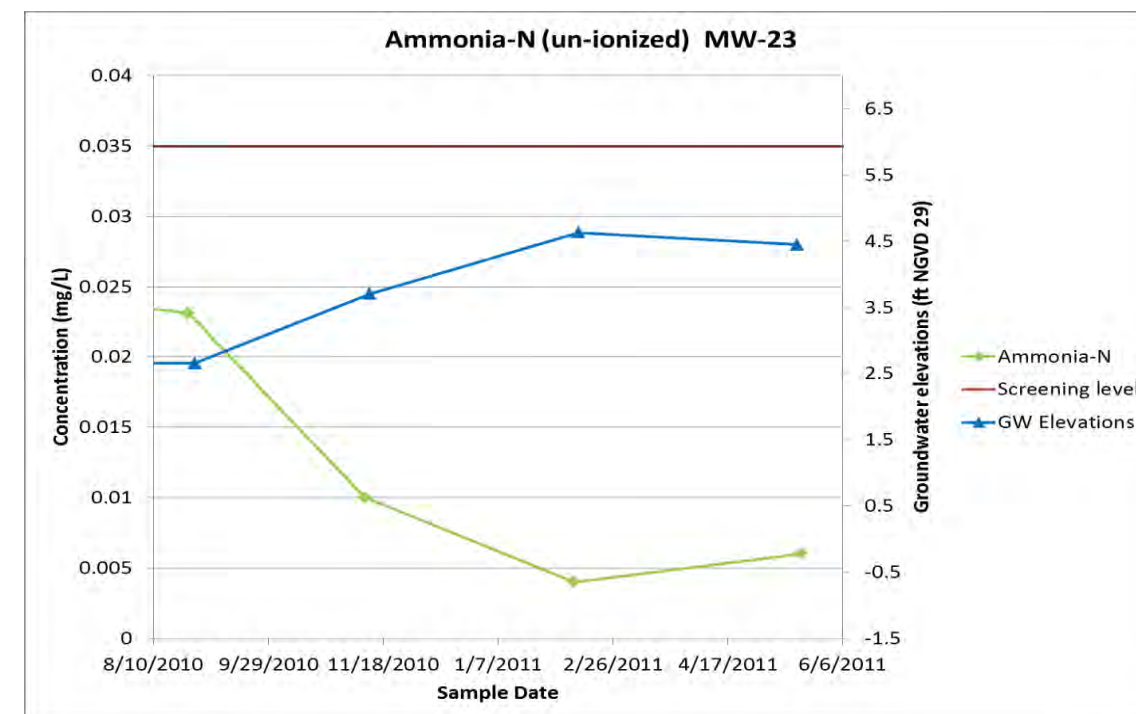
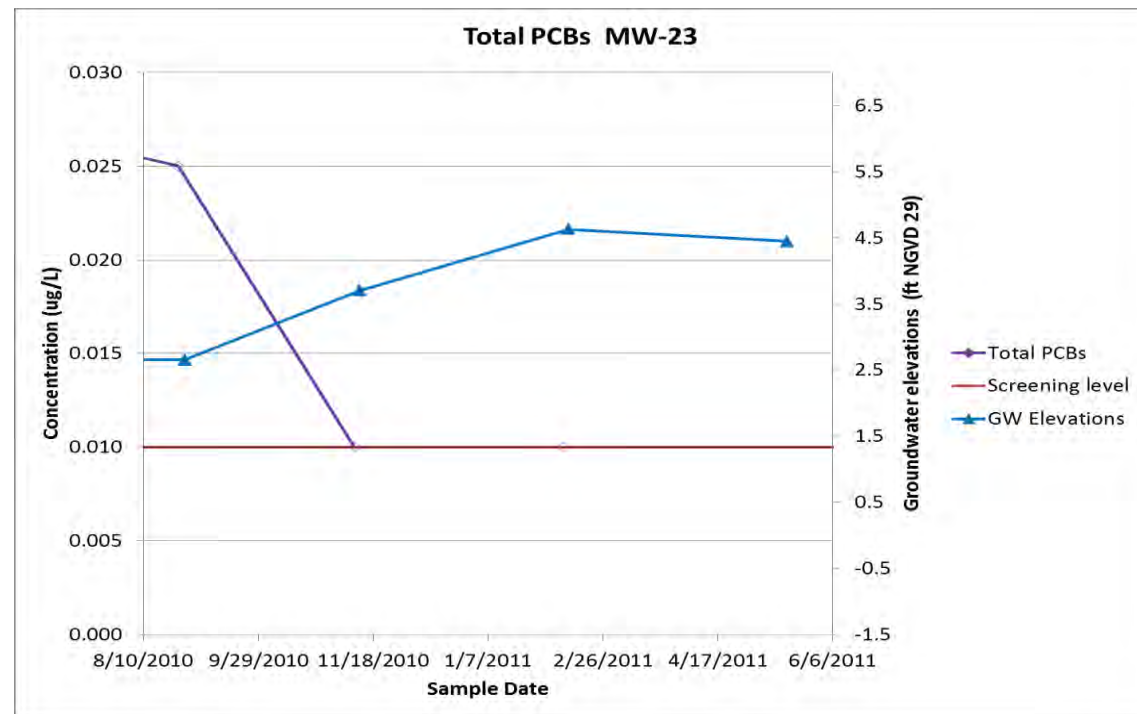
Key:

Passed SMS criteria
Failed SQS criteria
Failed CSL criteria

na = not analyzed

The background of the page features a complex contour plot. It consists of numerous irregular, nested lines in shades of blue and grey, representing different levels or values. A prominent dashed blue line is overlaid on the plot, tracing a path that generally moves from the upper left towards the lower right, with several loops and turns. The overall appearance is that of a technical or scientific visualization, possibly related to environmental data or geology.

APPENDIX I
COPC Trend Plots



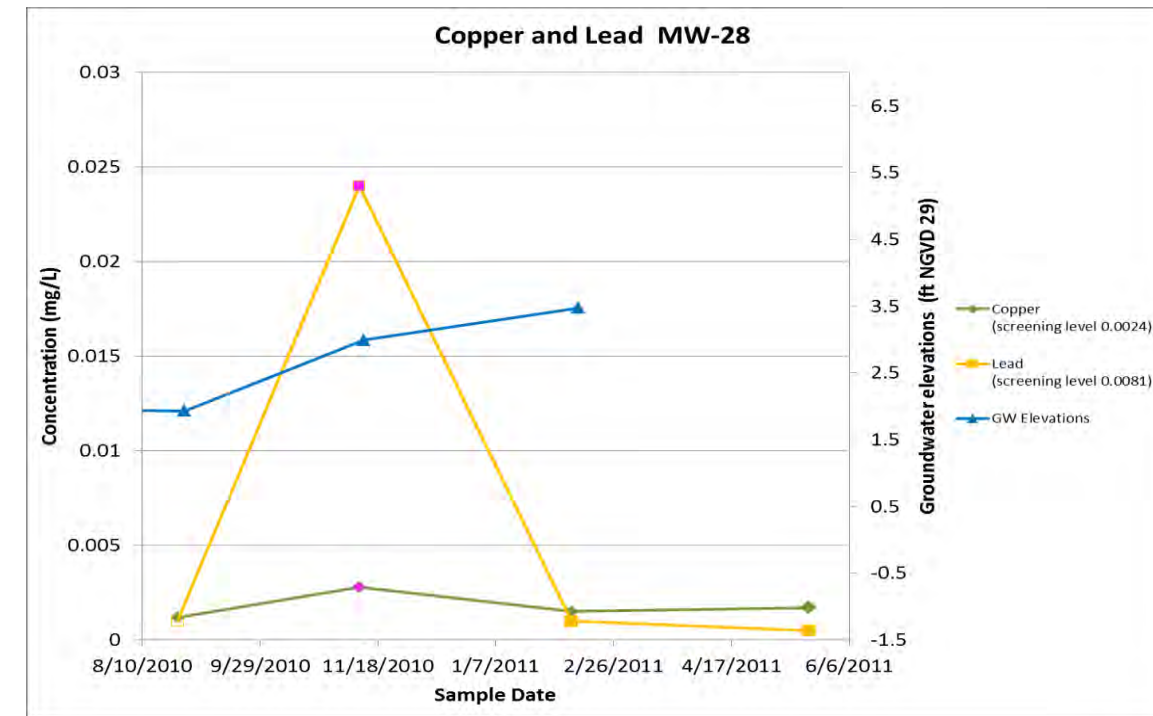
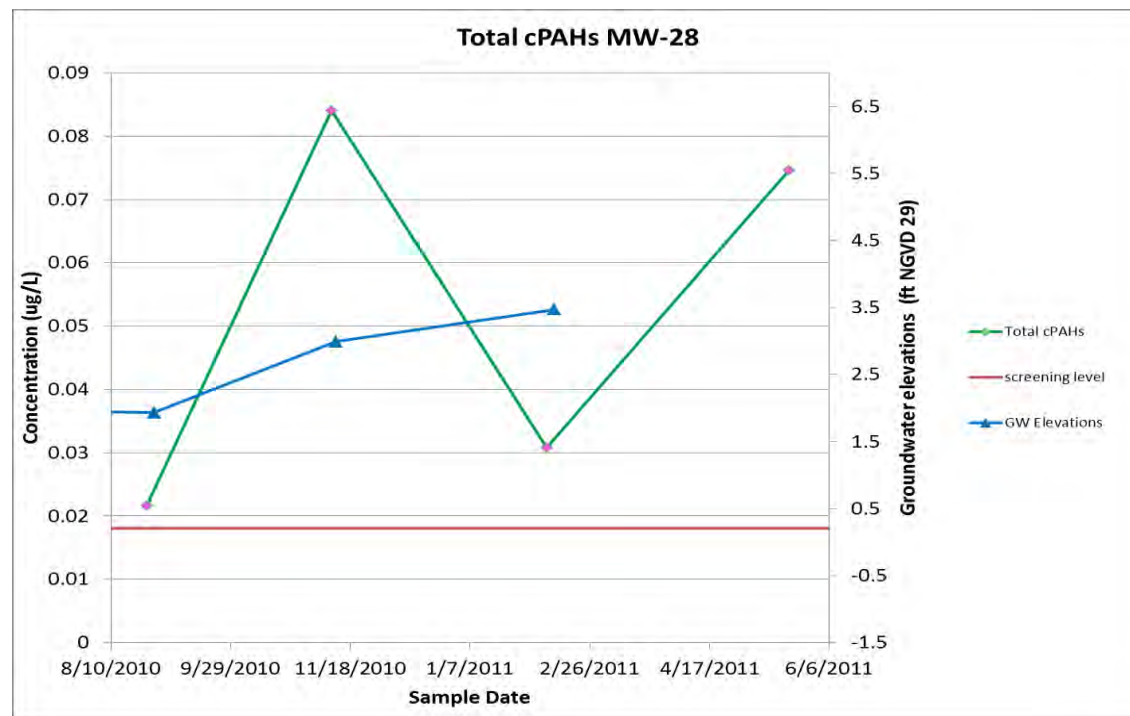
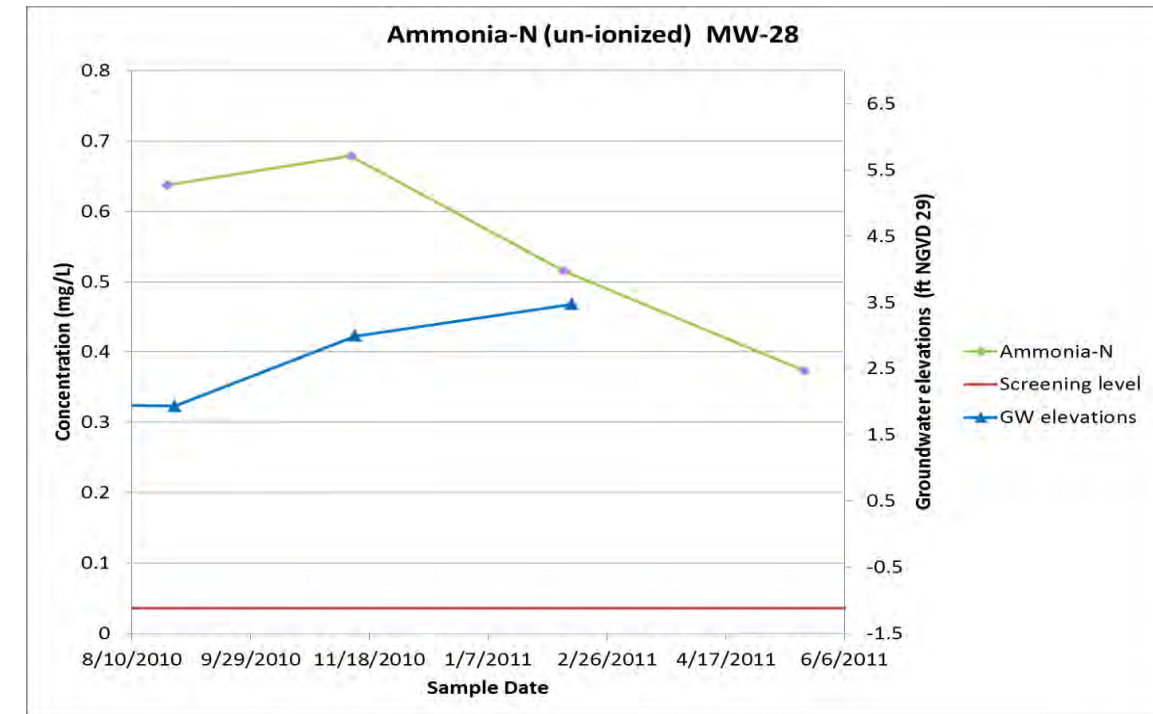
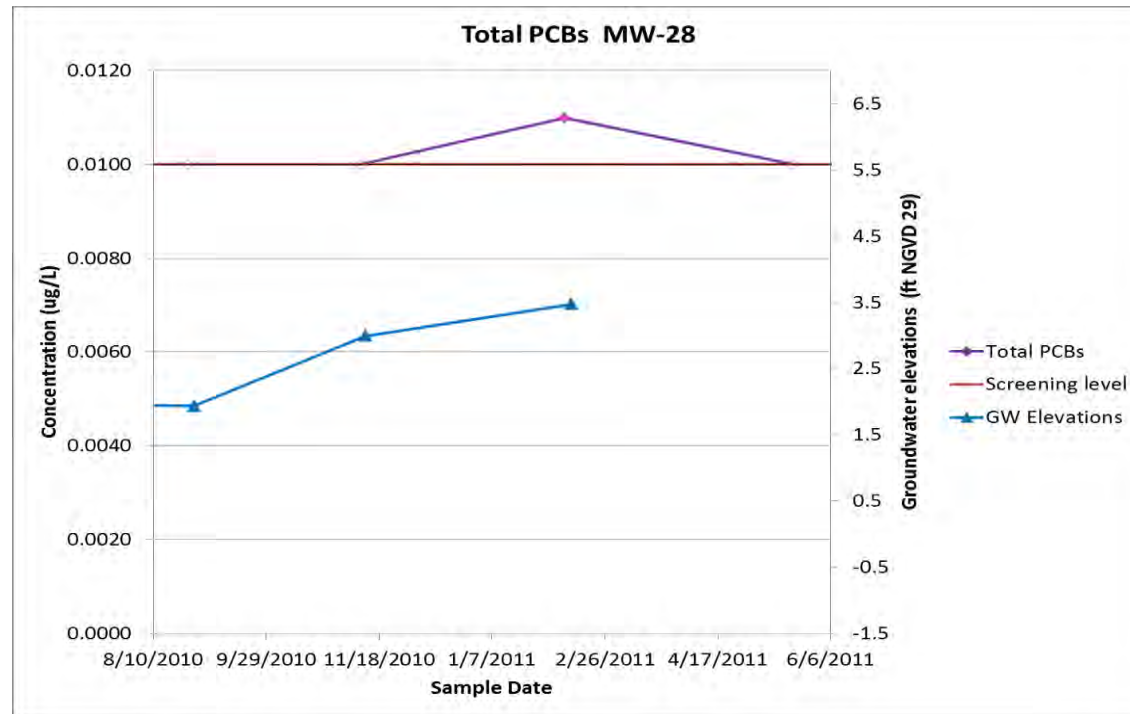
Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
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Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (MW 23)	
Port Angeles Rayonier Mill Port Angeles, Washington	
	Figure I - 1



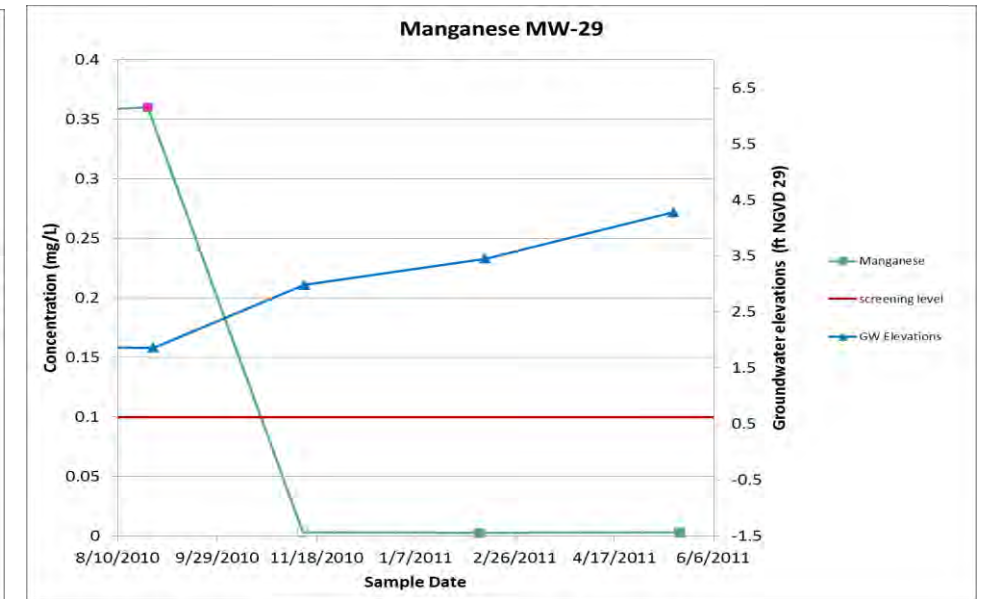
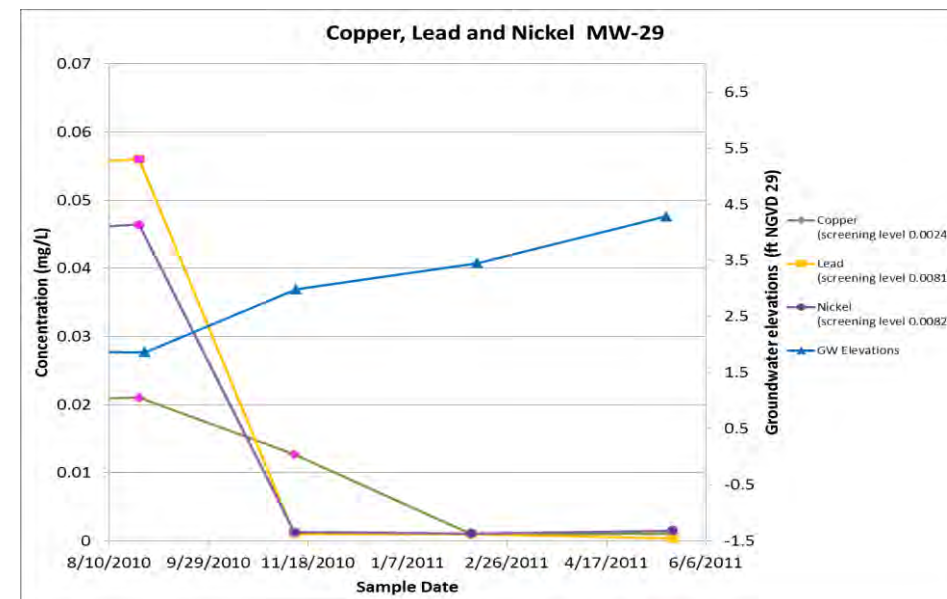
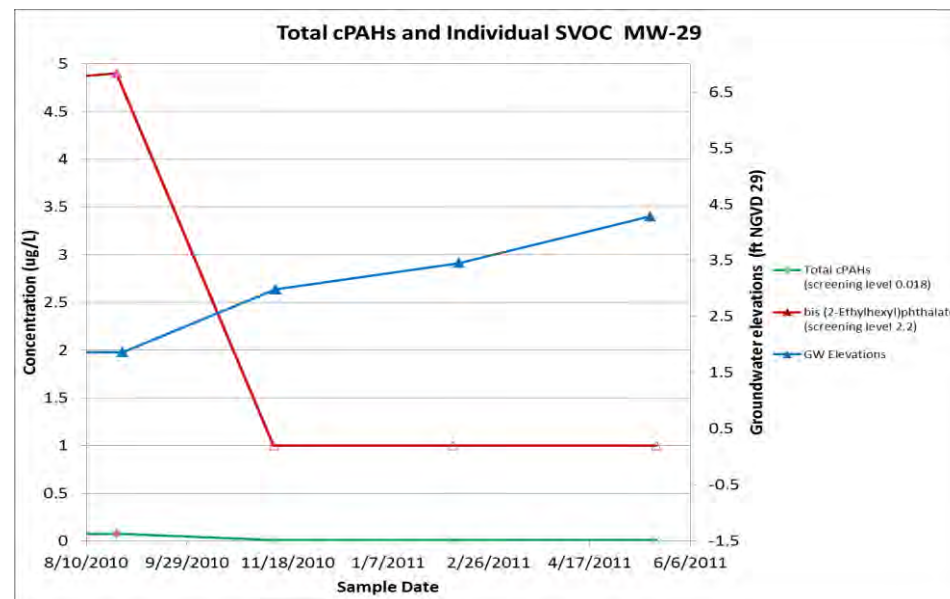
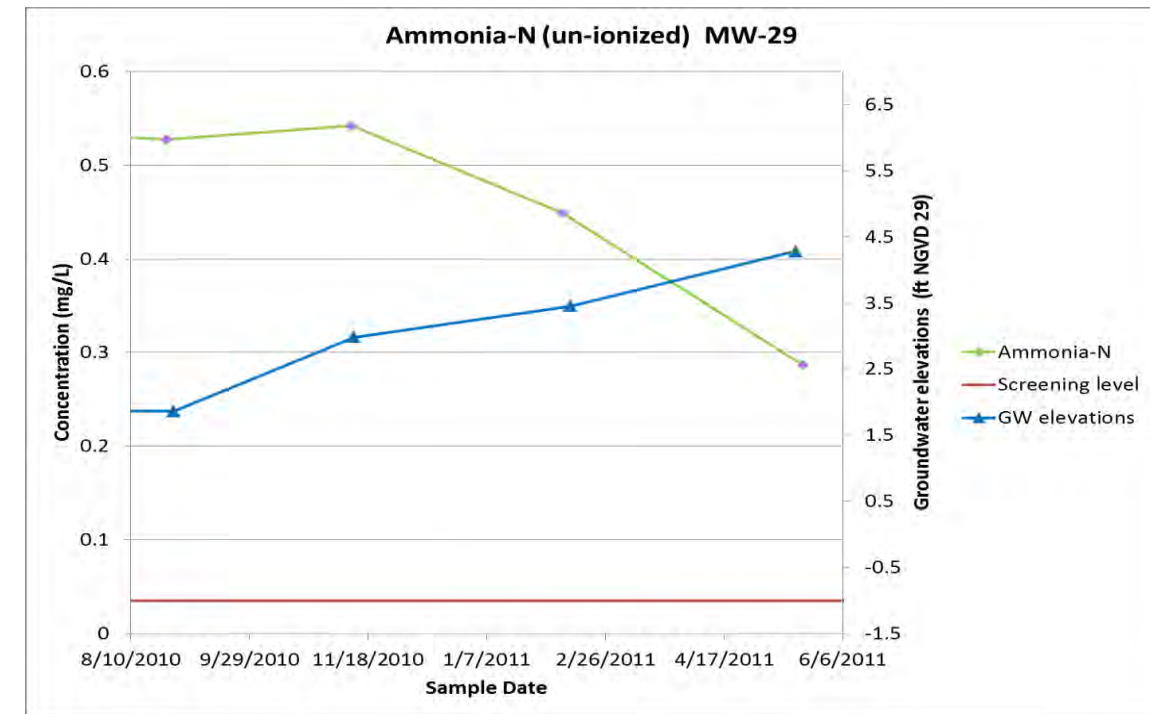
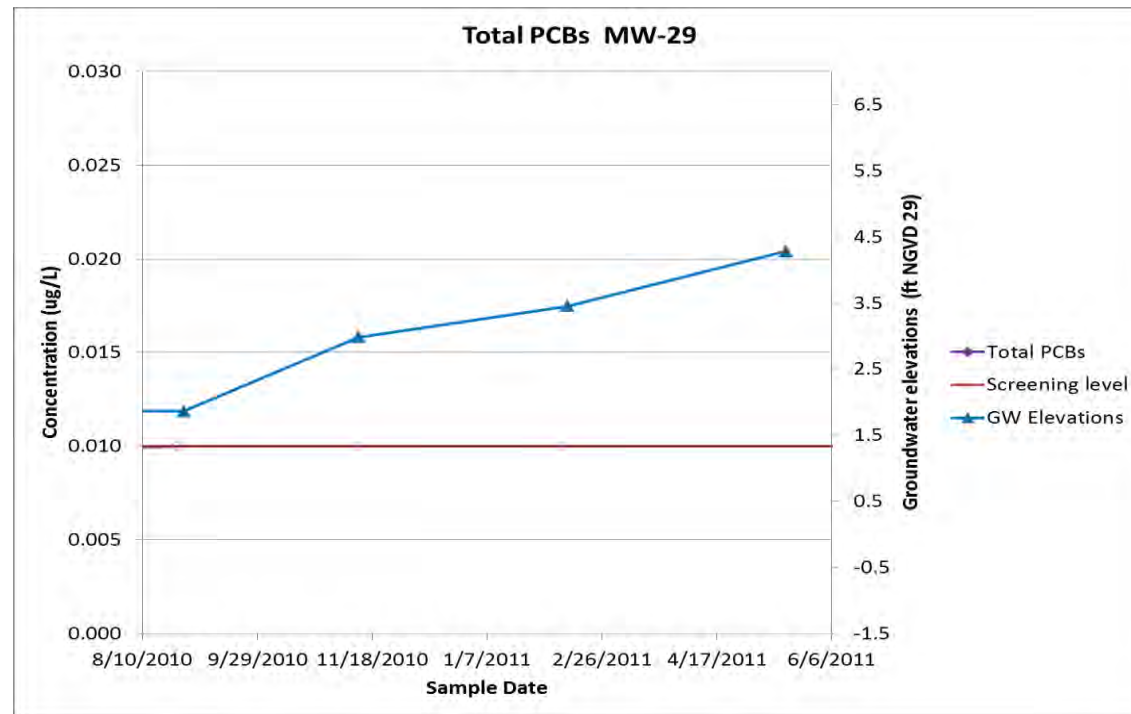
Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
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Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (MW 28)	
Port Angeles Rayonier Mill Port Angeles, Washington	
	Figure I - 2



Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

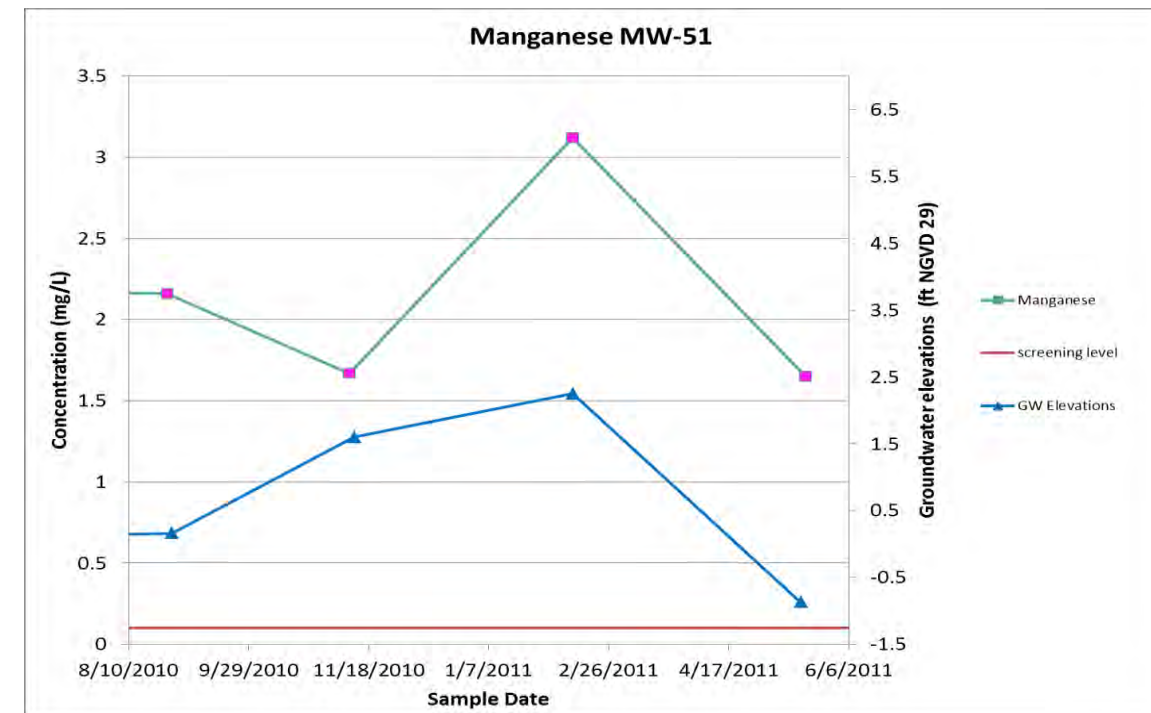
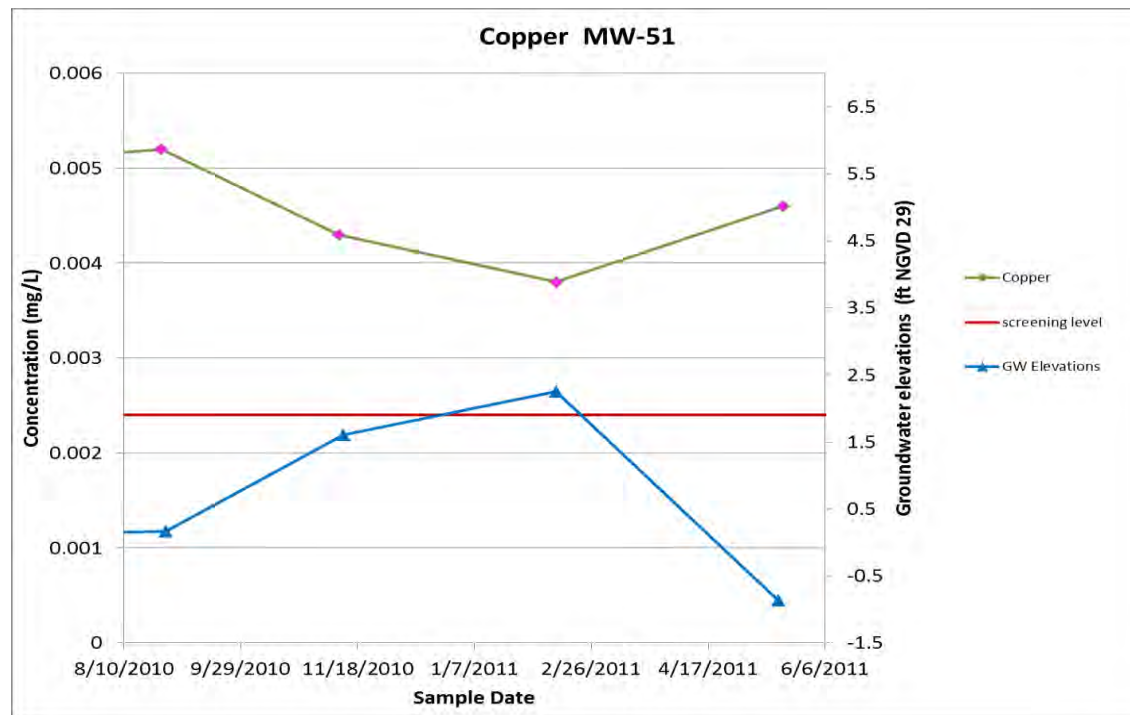
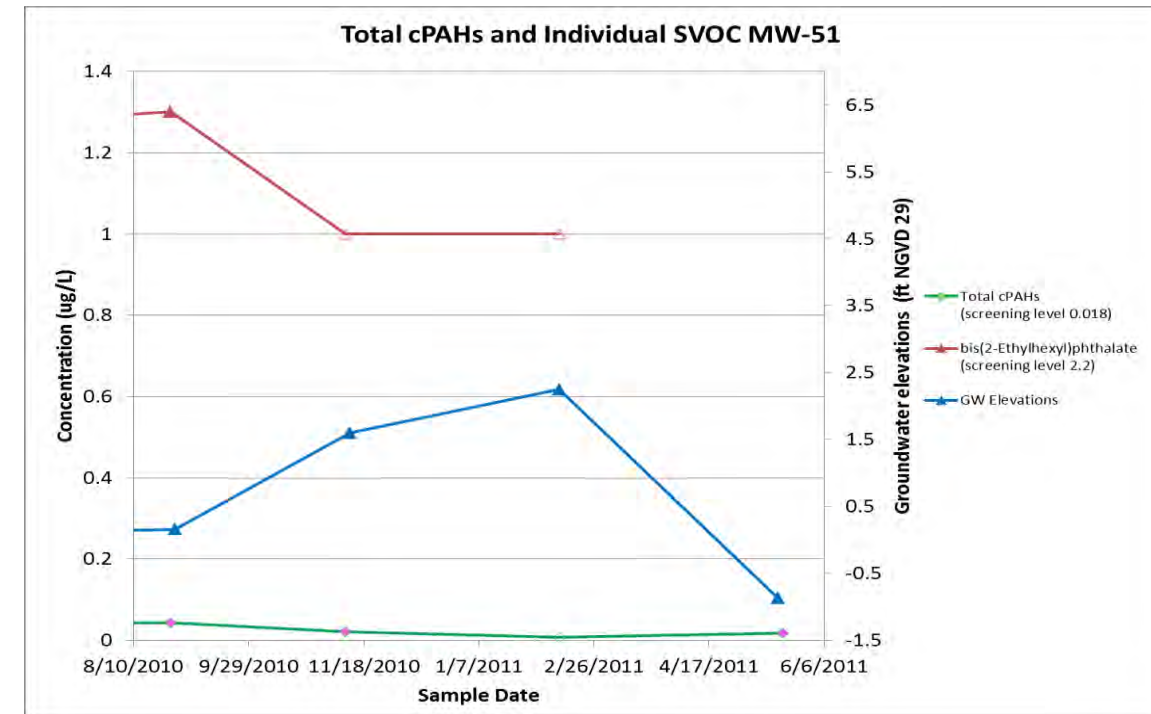
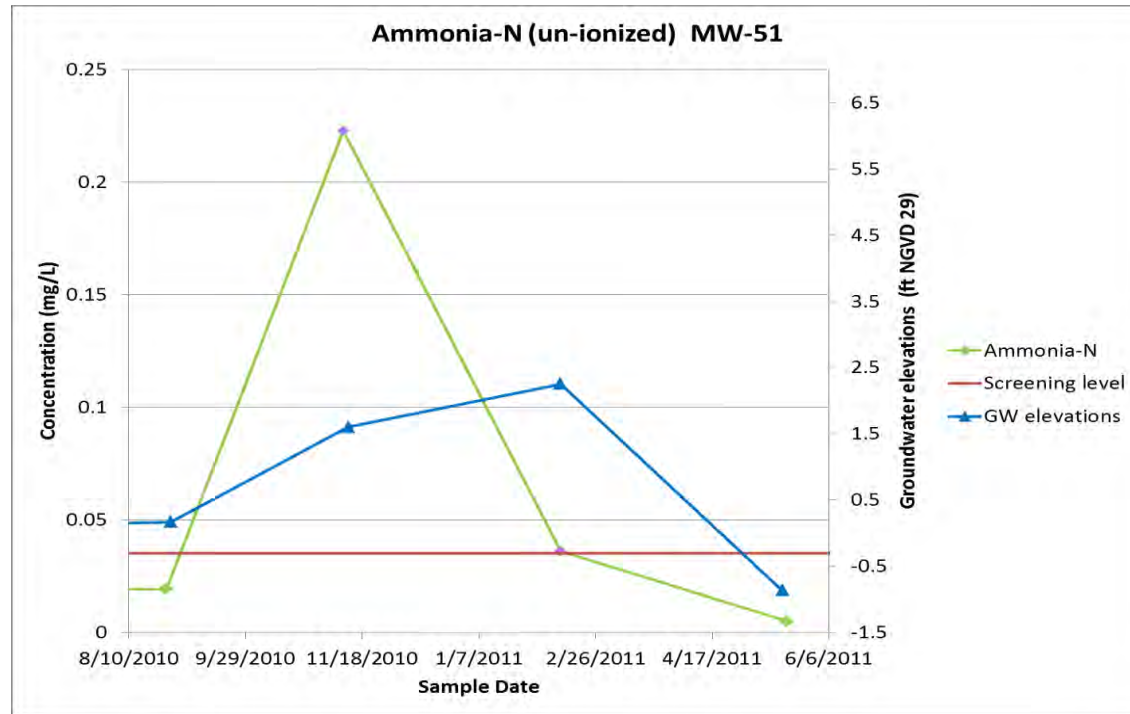
Notes:

- For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
- Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
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Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (MW 29)

Port Angeles Rayonier Mill
Port Angeles, Washington

GEOENGINEERS **Figure I - 3**



Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

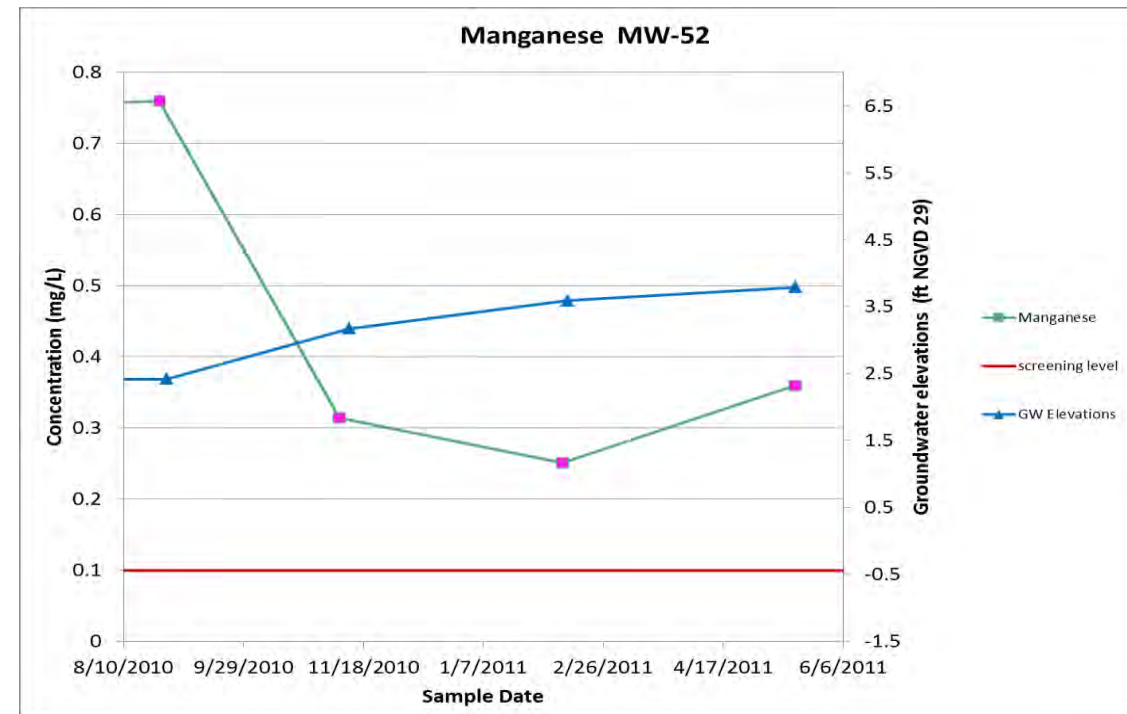
1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
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Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (MW 51)

Port Angeles Rayonier Mill
Port Angeles, Washington



Figure I - 4



Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

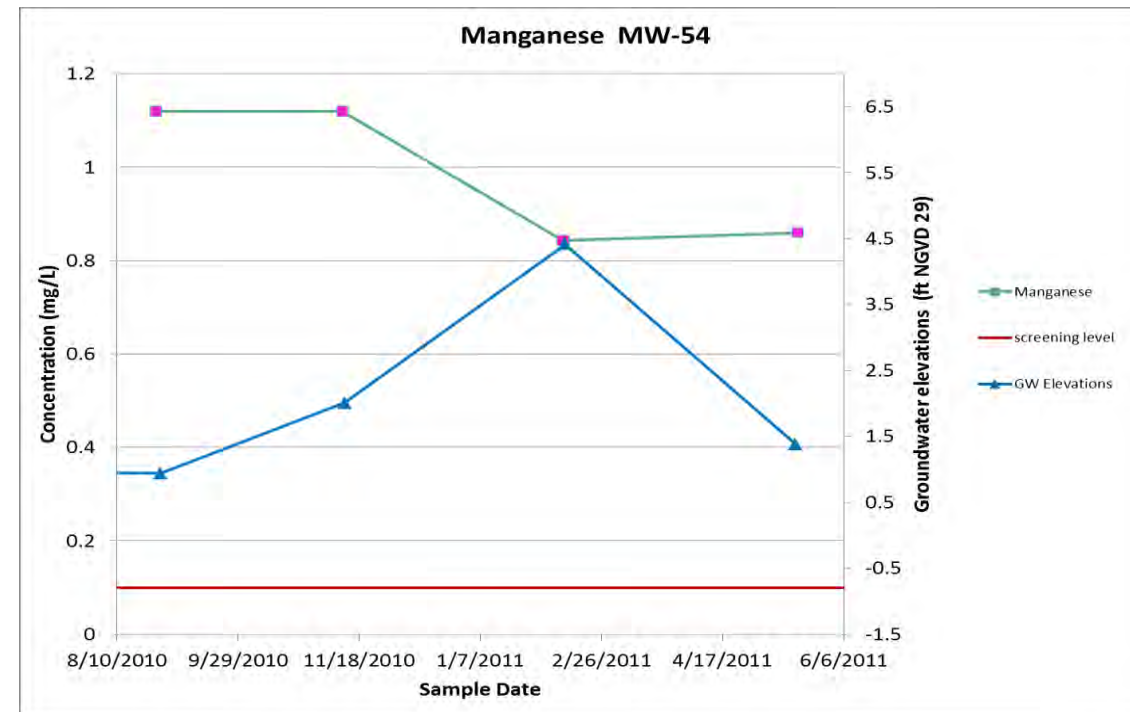
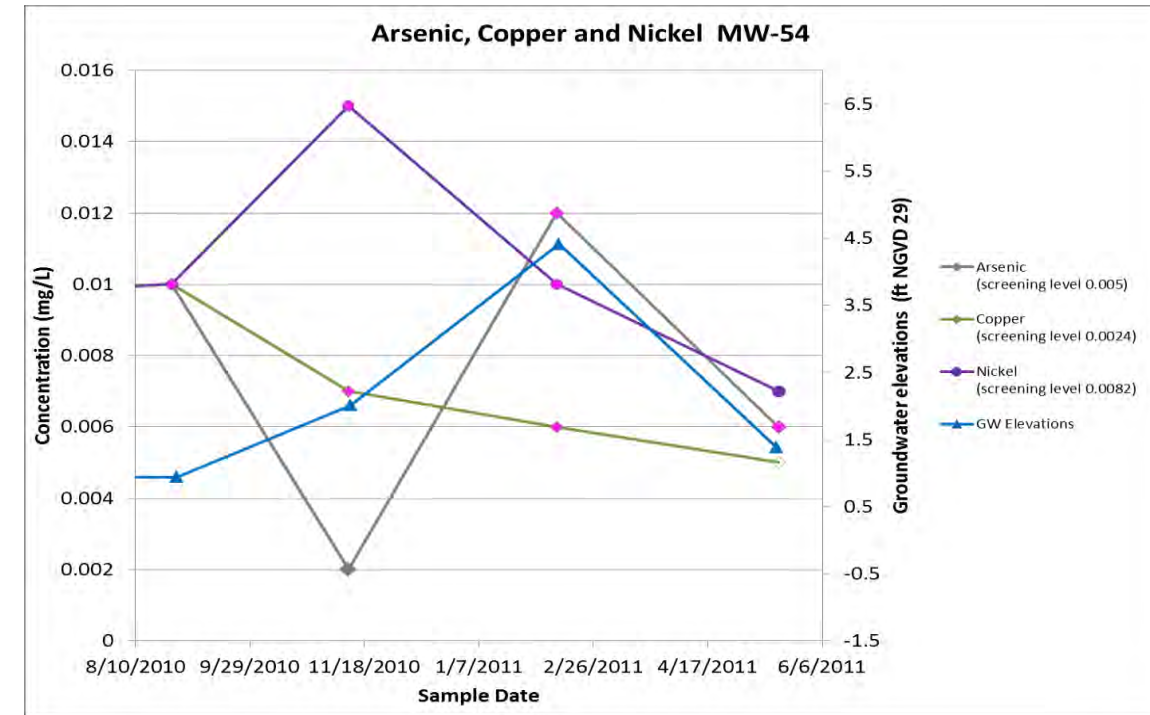
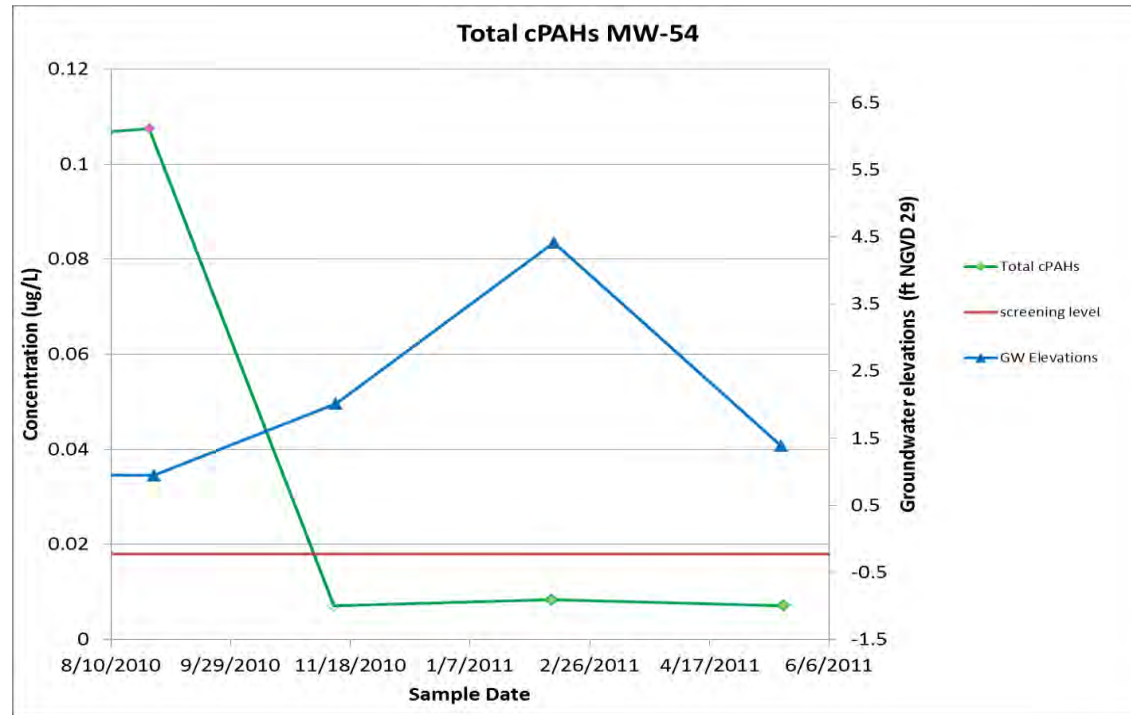
1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
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**Contaminants of Concern and
Hydrograph, Aug 2010 to May 2011
(MW 52)**

Port Angeles Rayonier Mill
Port Angeles, Washington

GEOENGINEERS 

Figure I - 5



Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

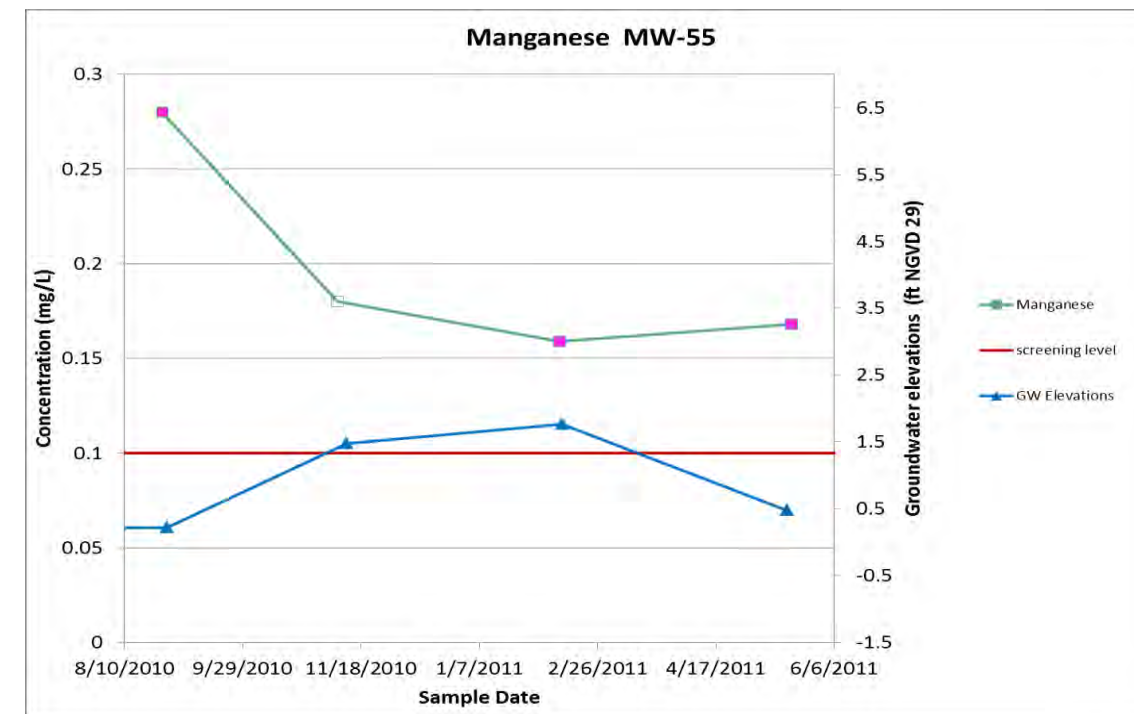
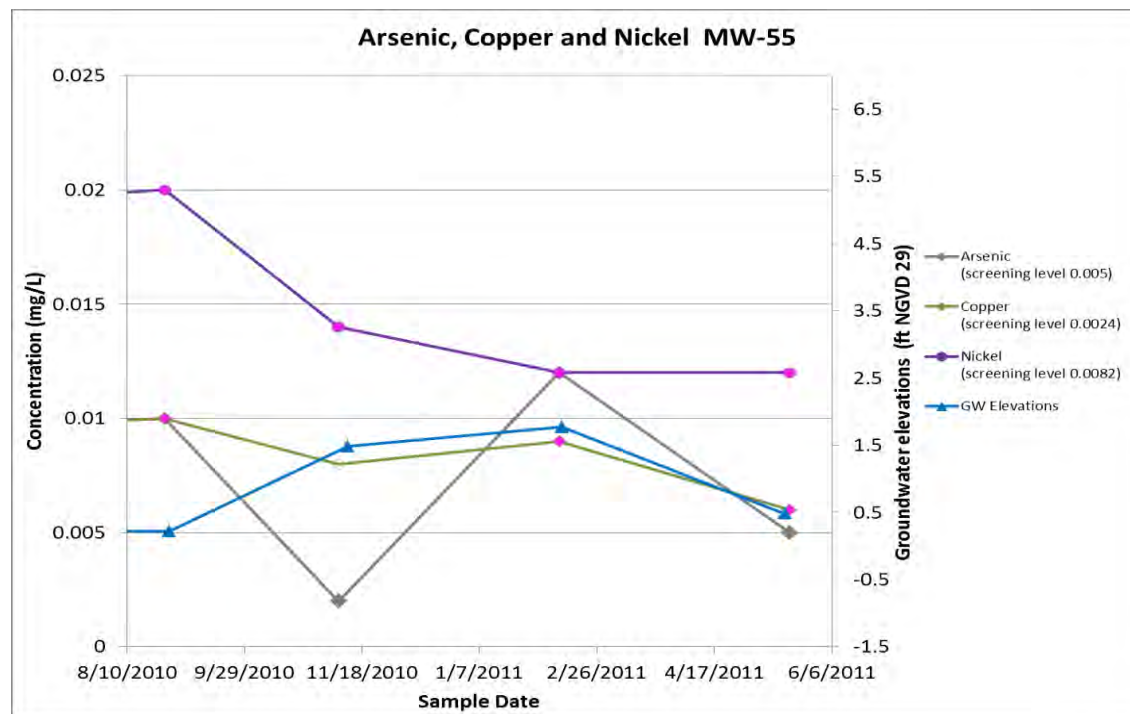
1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
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Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (MW 54)

Port Angeles Rayonier Mill
Port Angeles, Washington



Figure I - 6



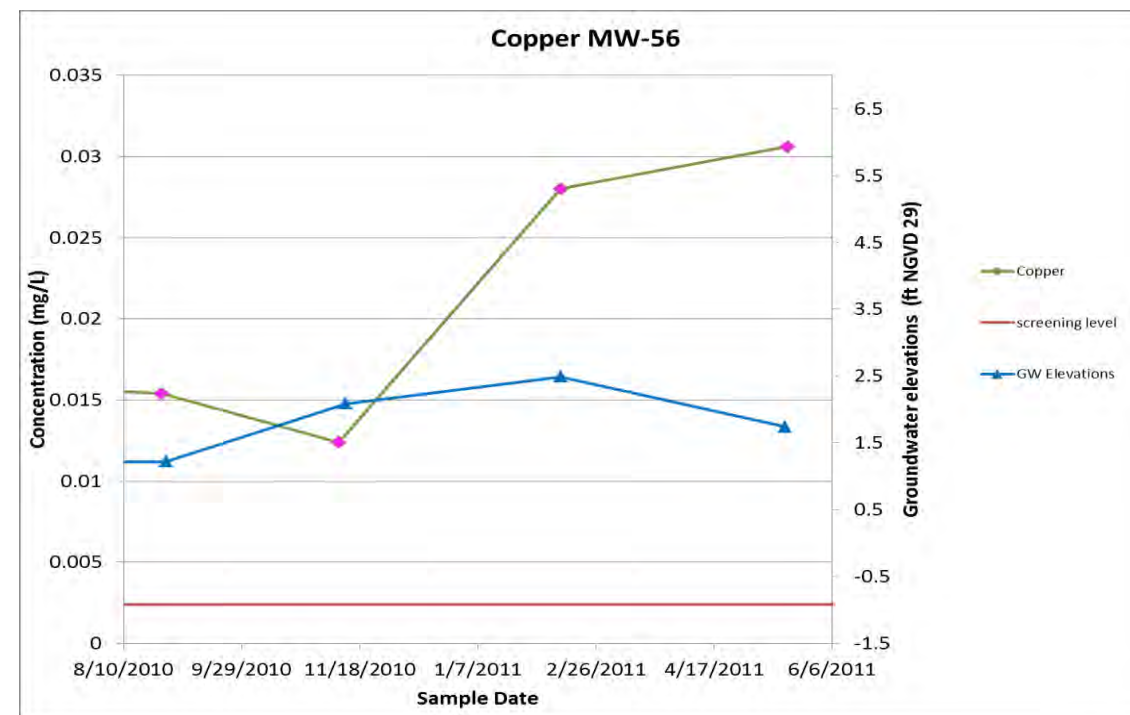
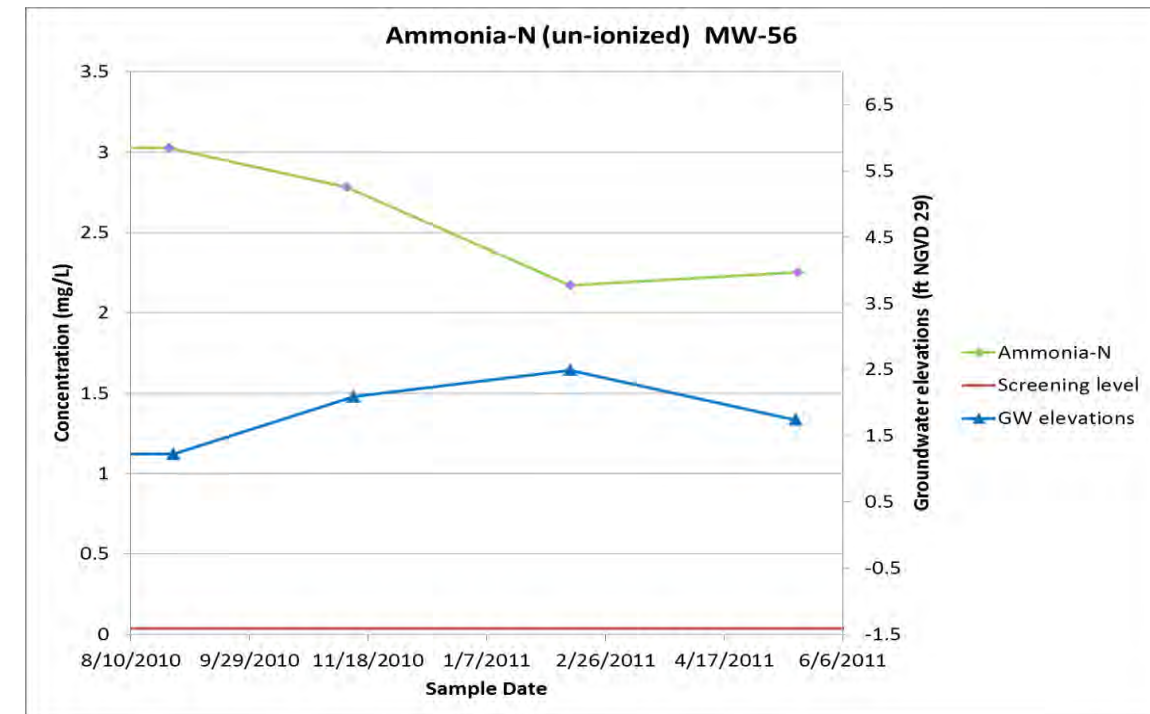
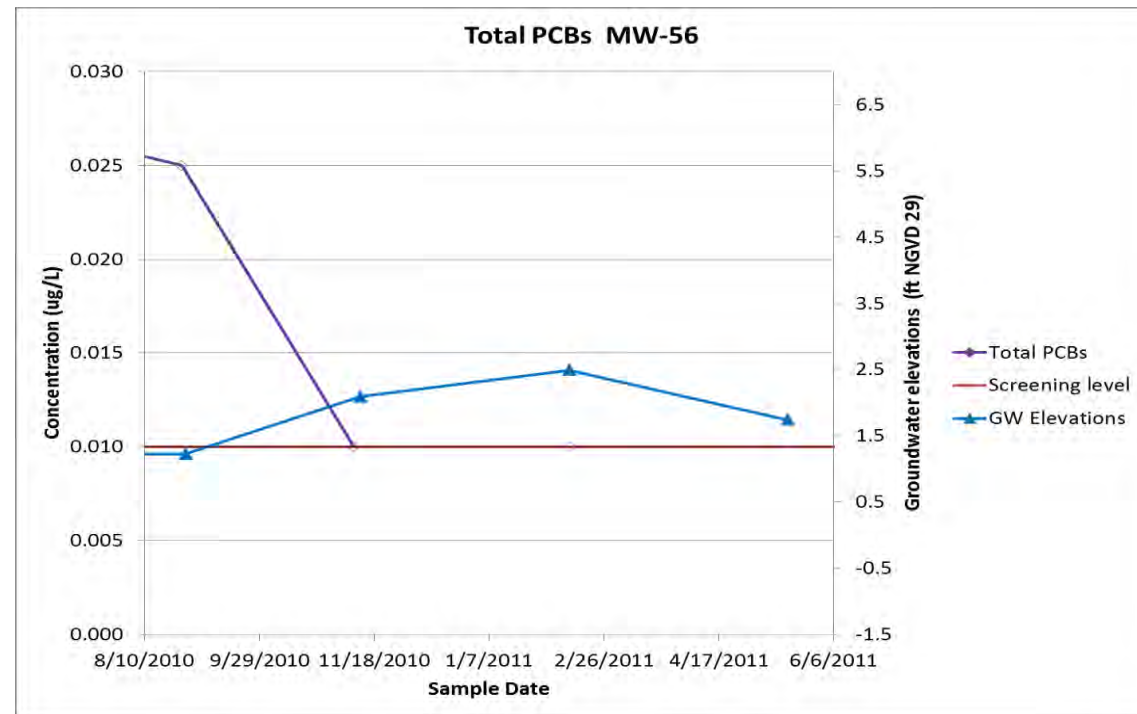
Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
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Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (MW 55)	
Port Angeles Rayonier Mill Port Angeles, Washington	
	Figure I - 7



Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

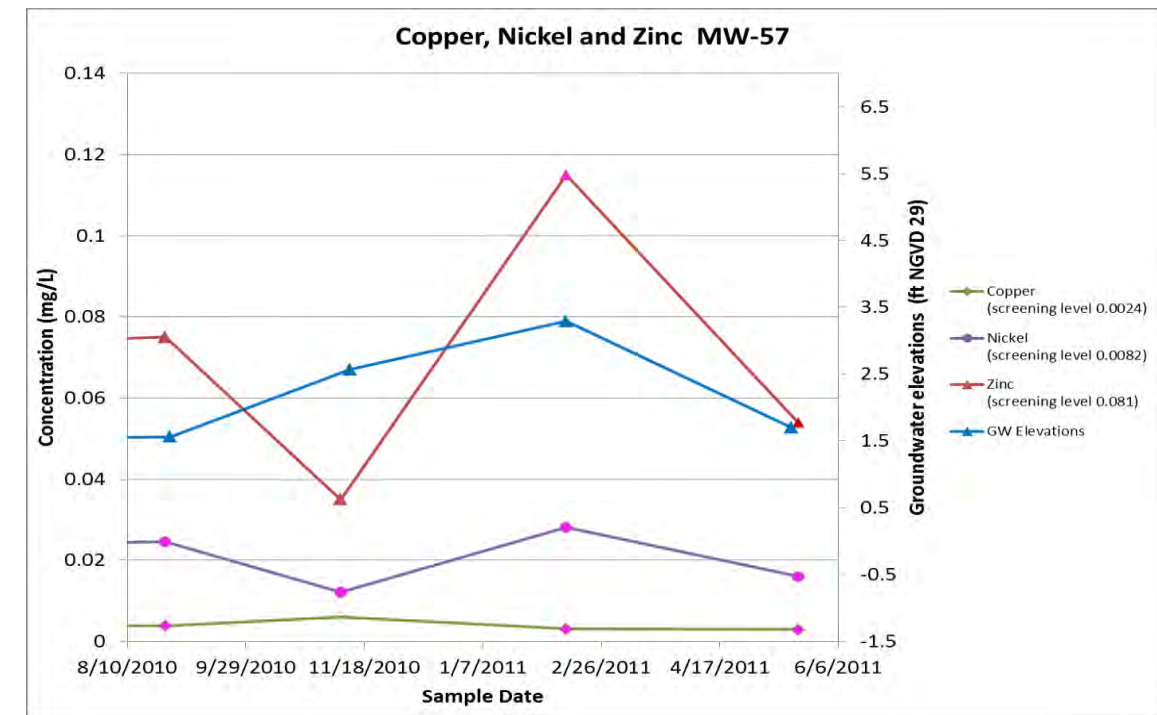
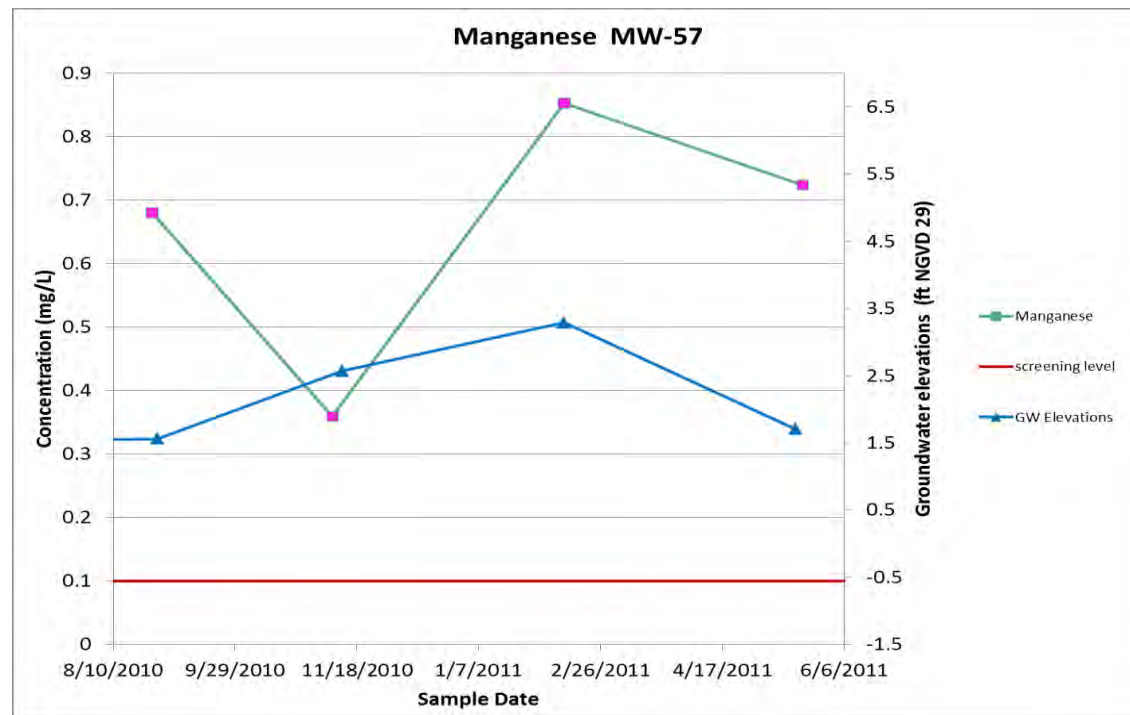
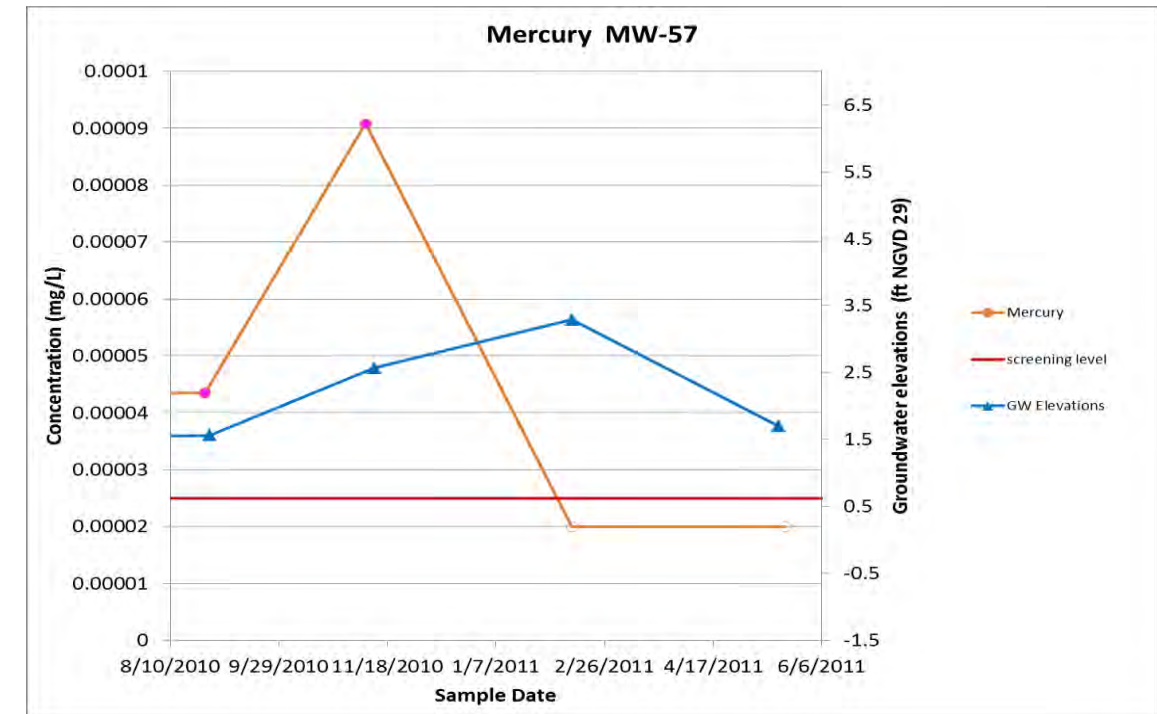
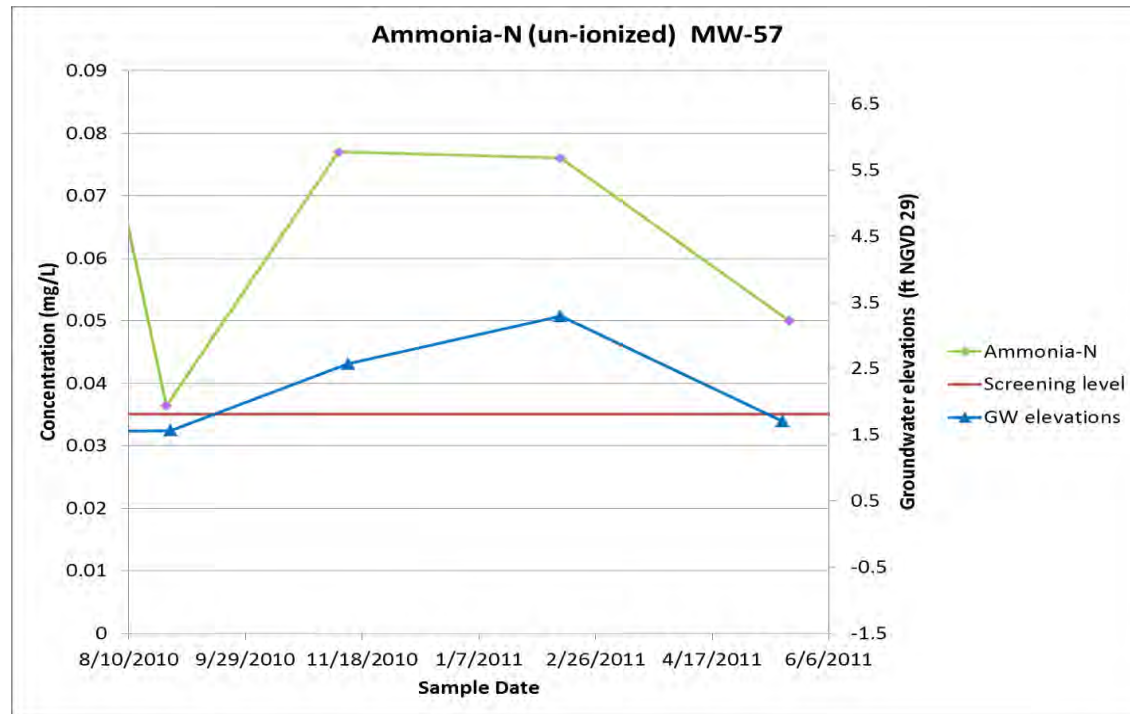
1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
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Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (MW 56)

Port Angeles Rayonier Mill
Port Angeles, Washington



Figure I - 8



Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

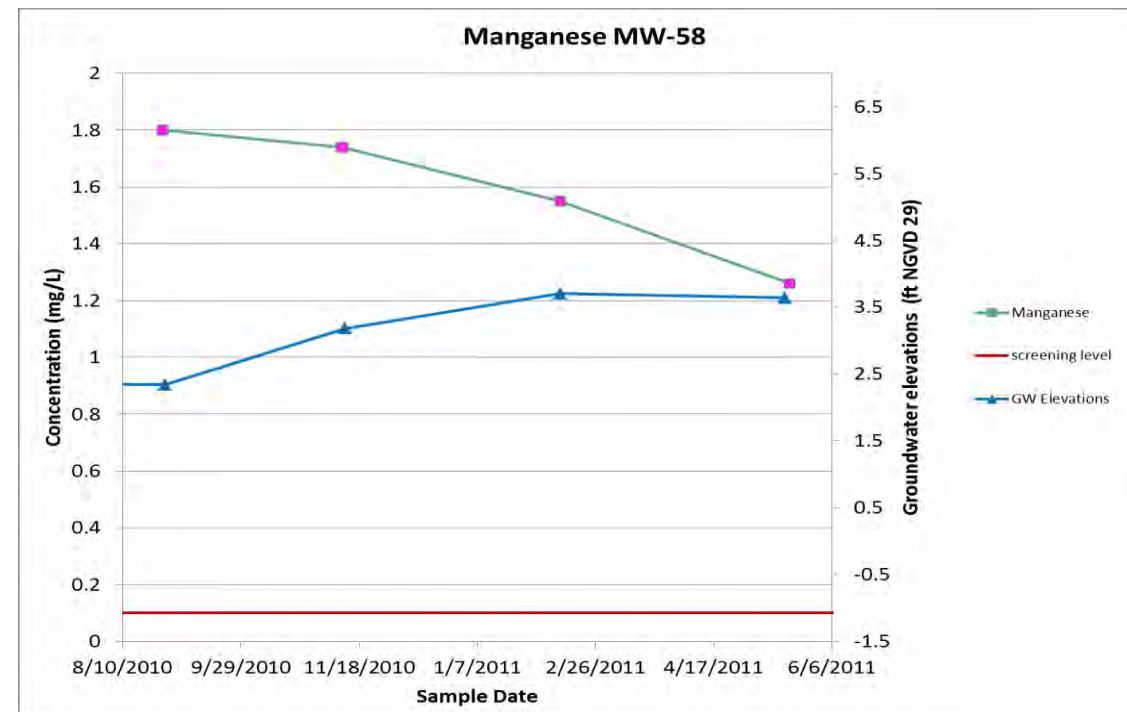
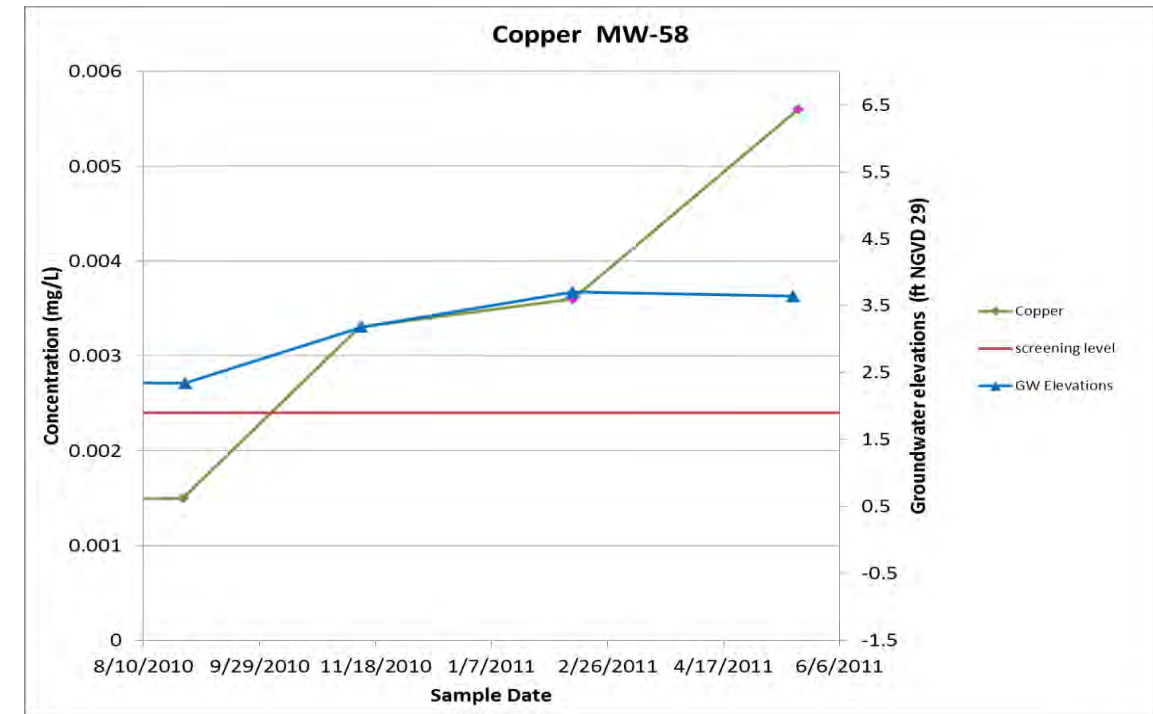
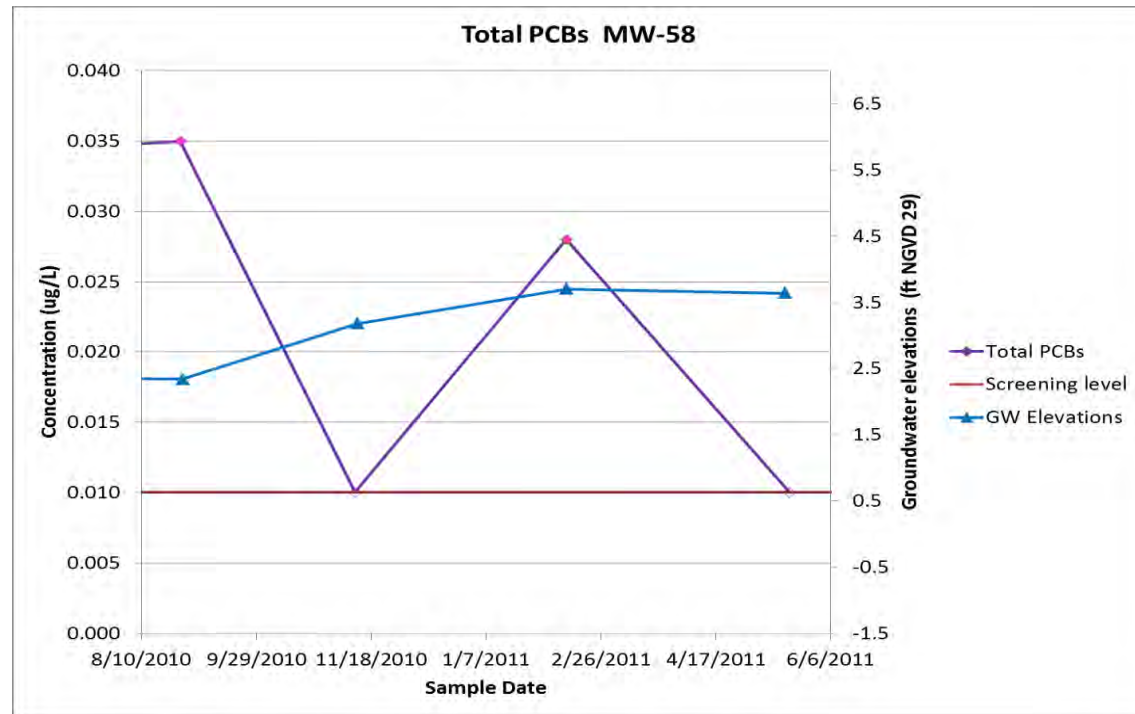
1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
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Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (MW 57)

Port Angeles Rayonier Mill
Port Angeles, Washington



Figure I - 9



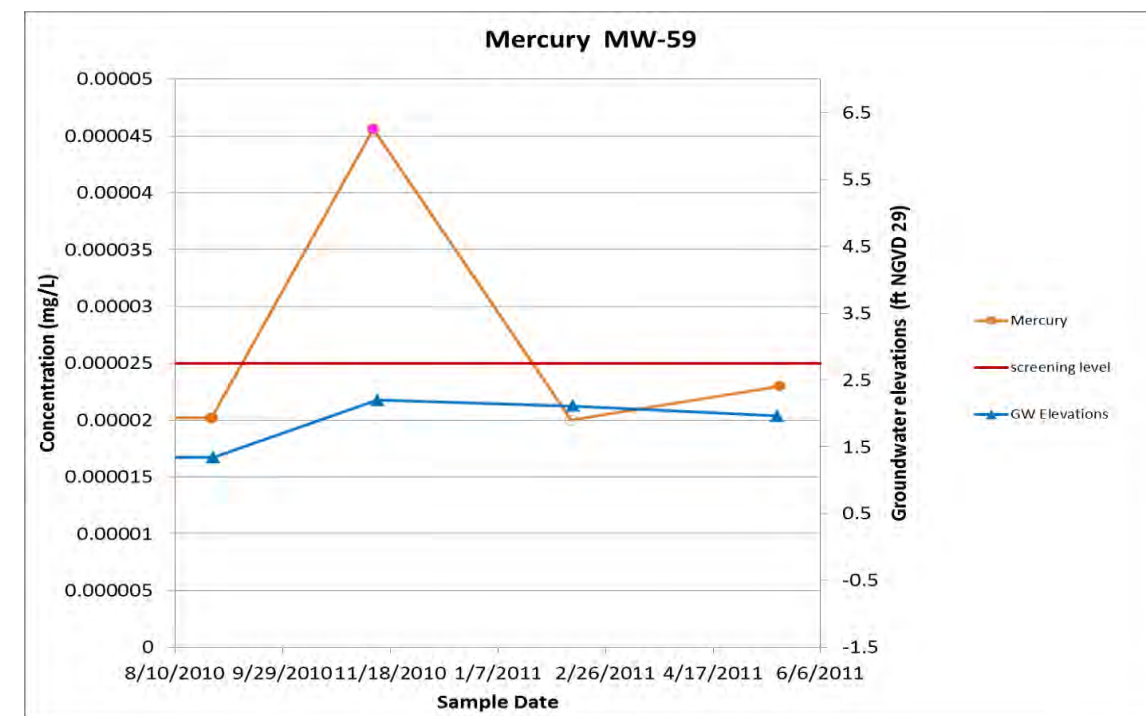
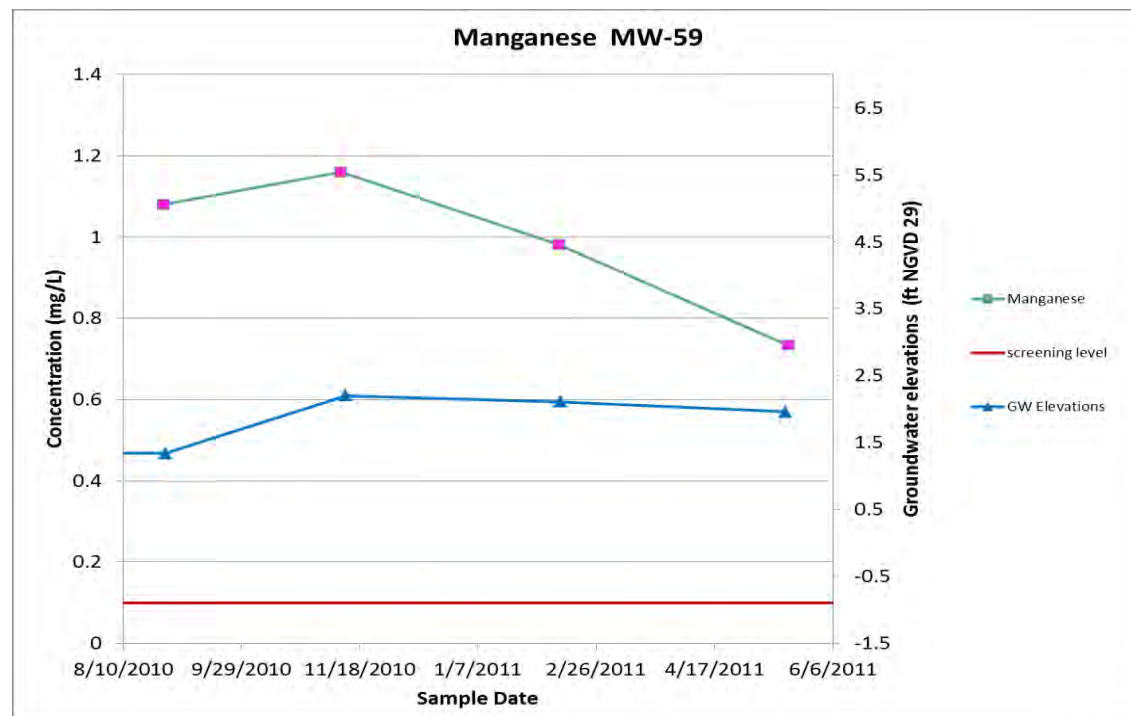
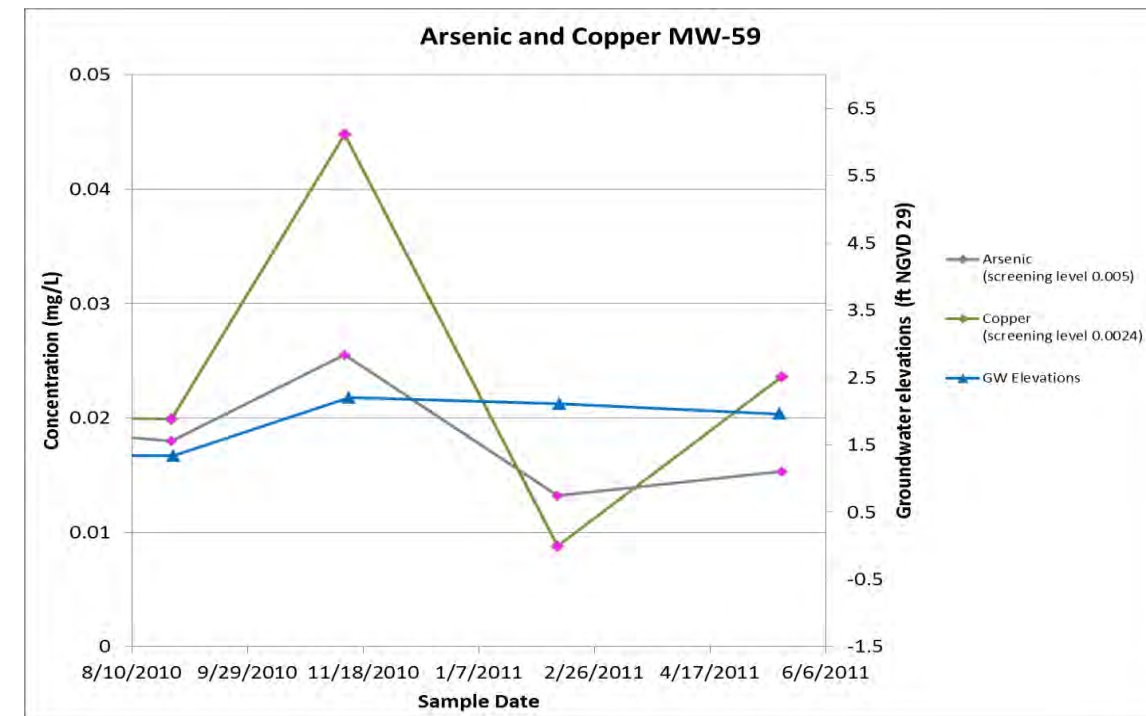
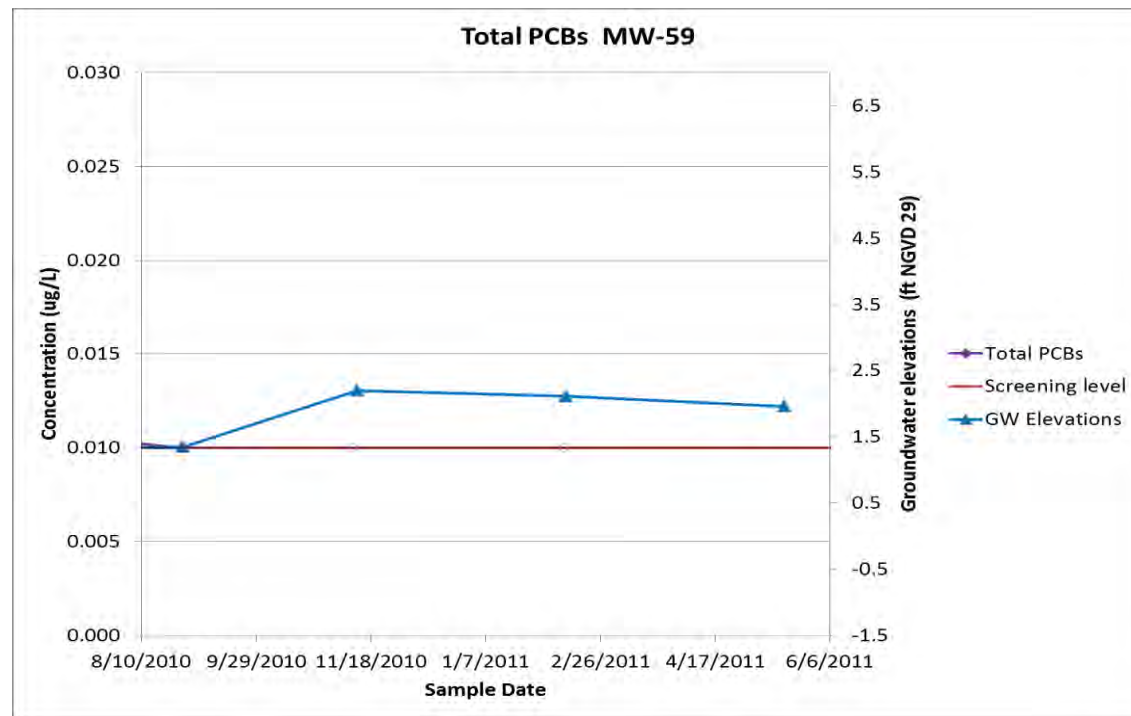
Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
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Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (MW 58)	
Port Angeles Rayonier Mill Port Angeles, Washington	
	Figure I - 10



Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

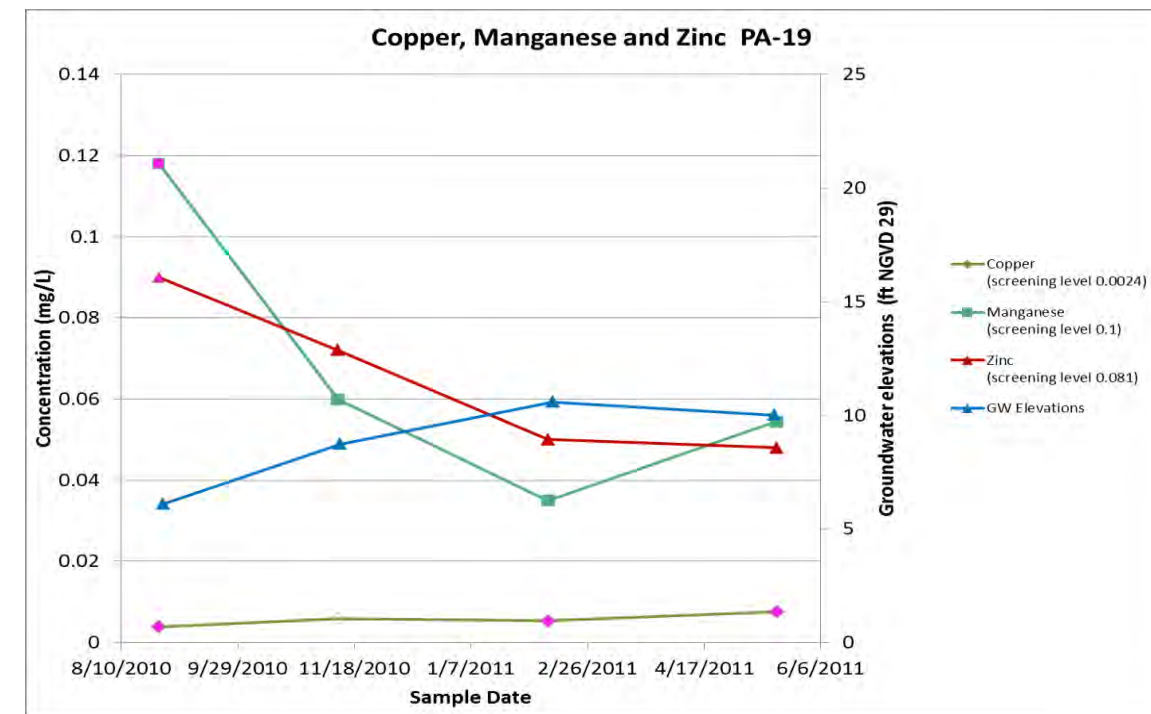
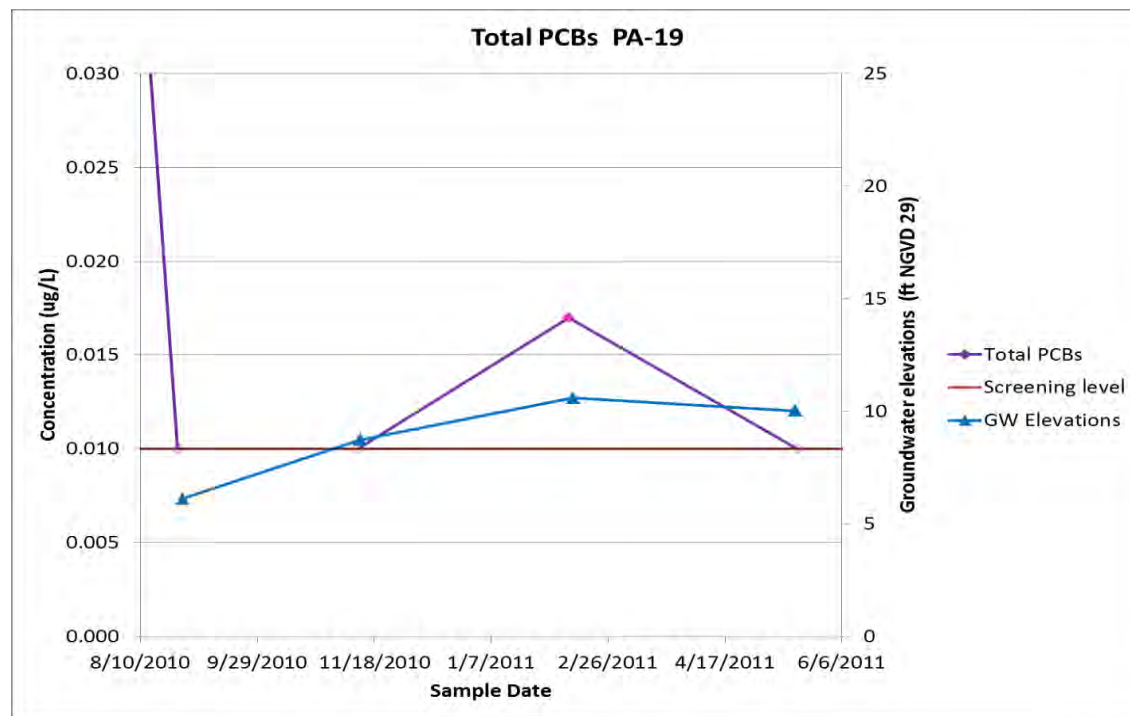
1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
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Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (MW 59)

Port Angeles Rayonier Mill
Port Angeles, Washington



Figure I - 11



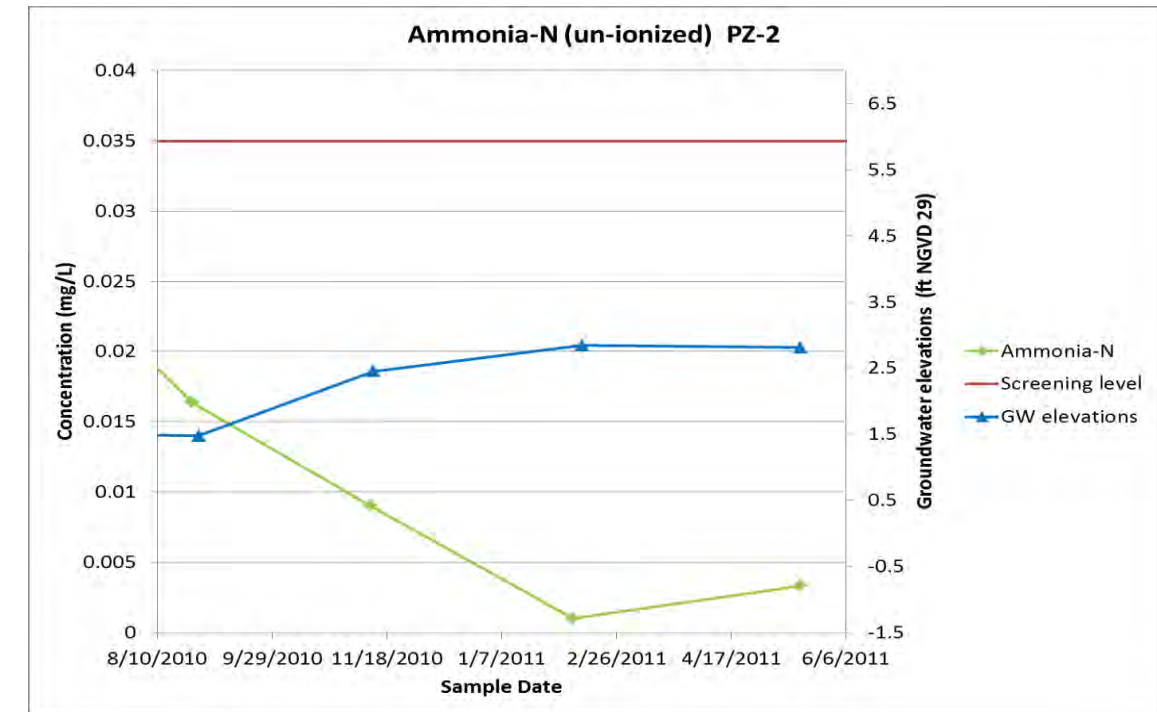
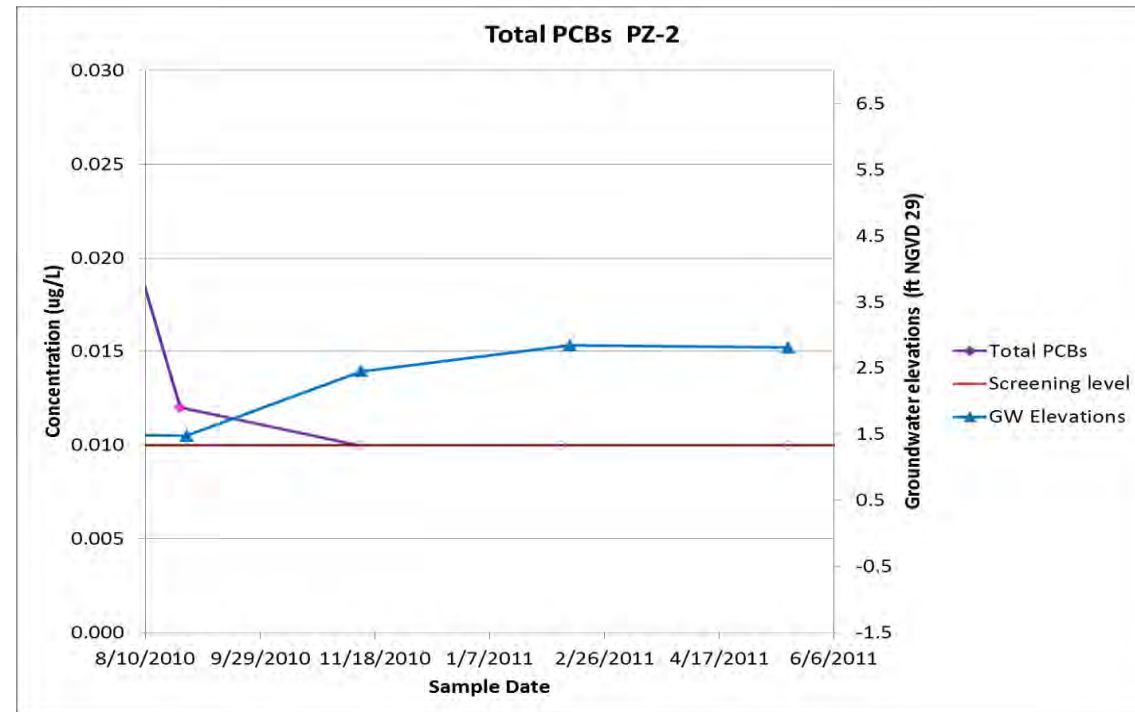
Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
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Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (PA 19)	
Port Angeles Rayonier Mill Port Angeles, Washington	
	Figure I - 12



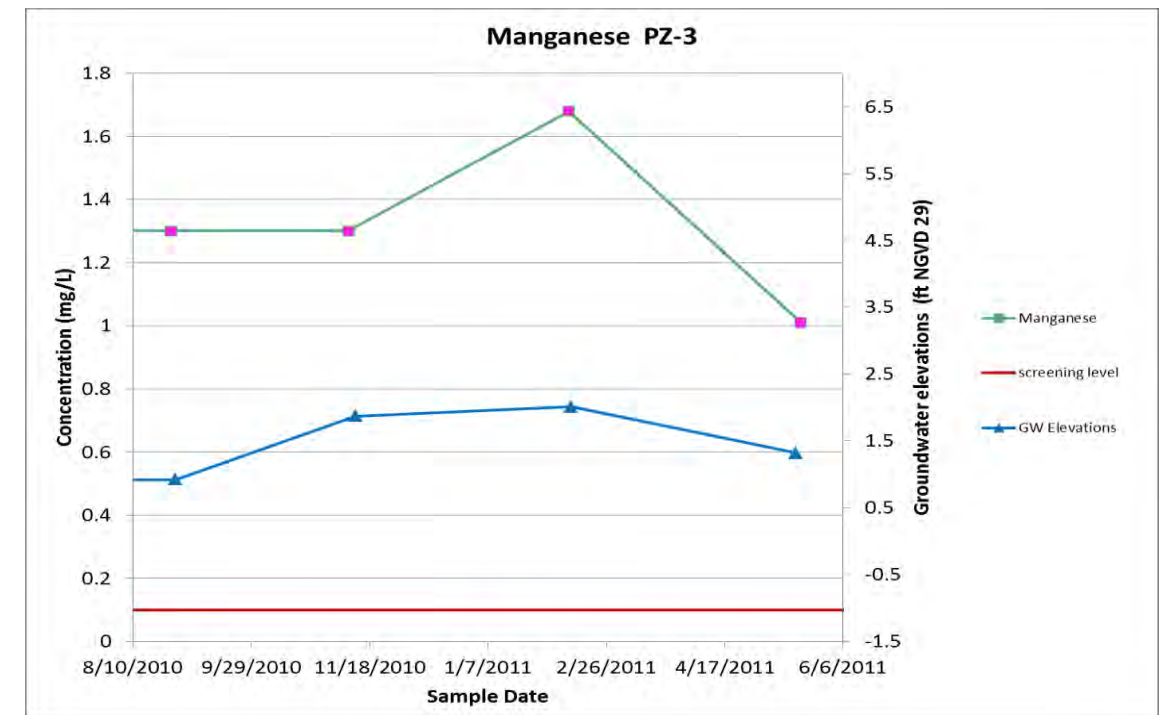
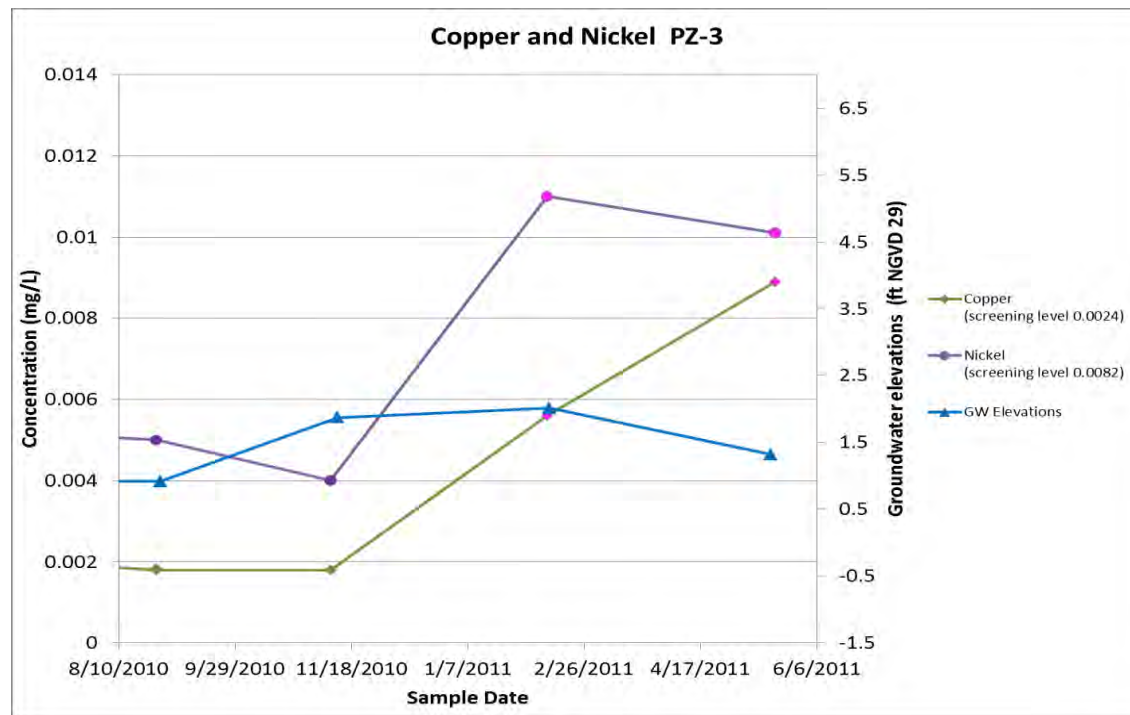
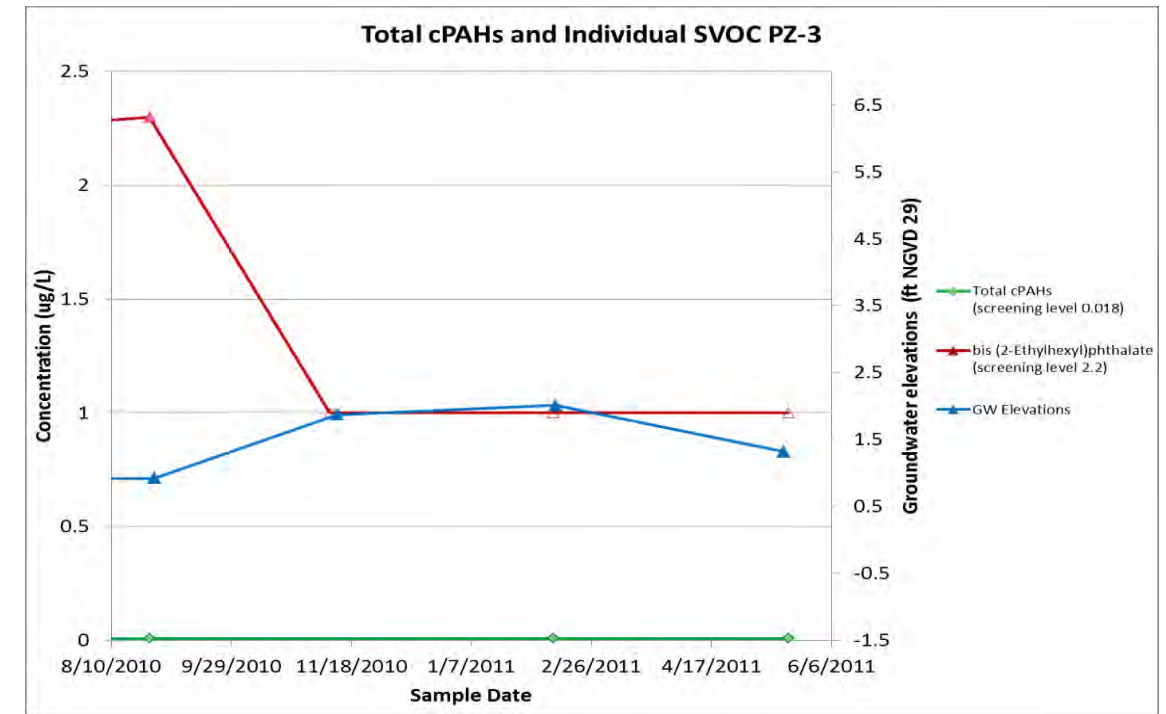
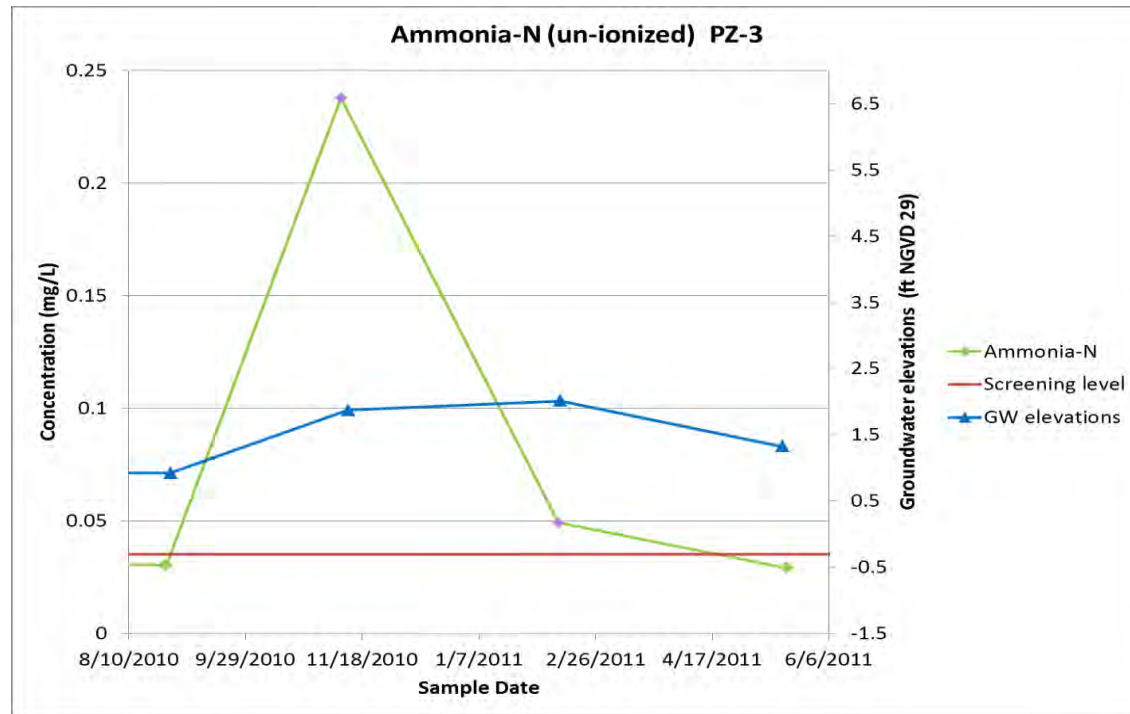
Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
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Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (PZ 2)	
Port Angeles Rayonier Mill Port Angeles, Washington	
	Figure I - 13



Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

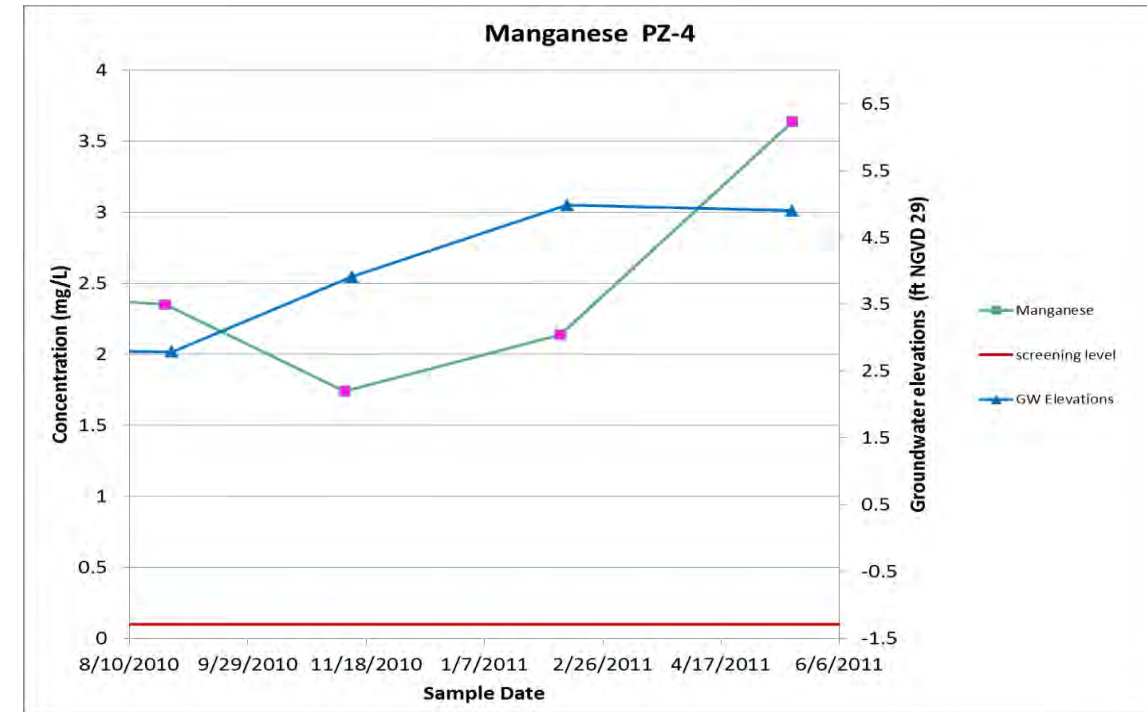
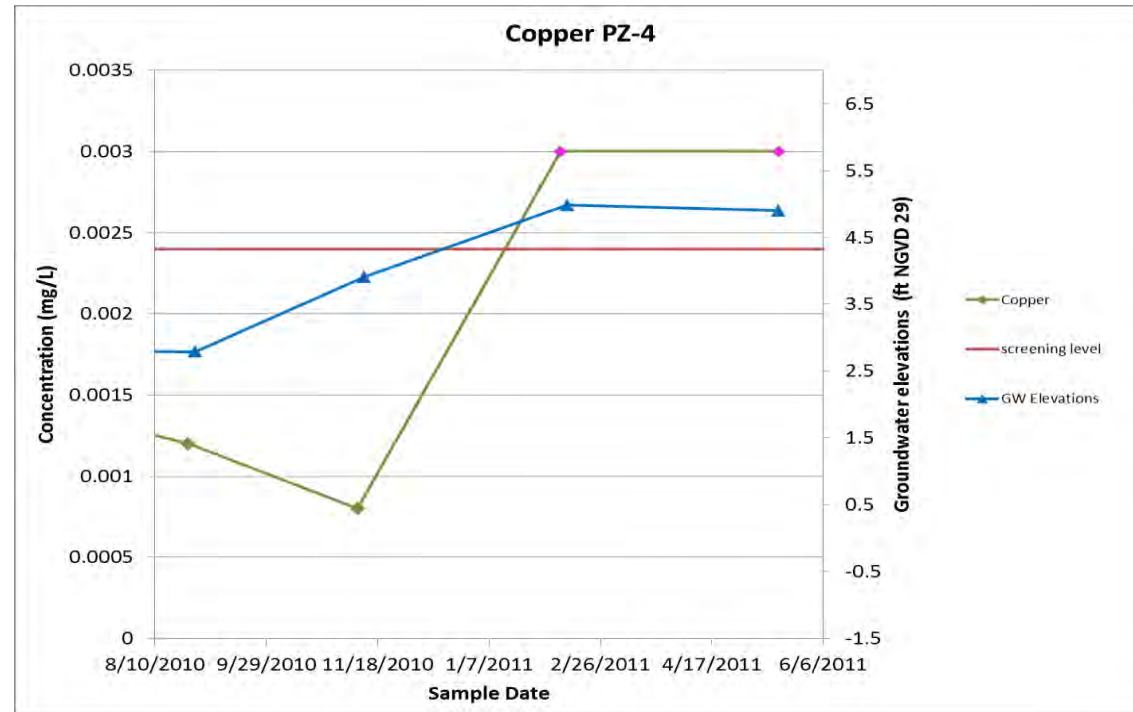
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (PZ 3)

Port Angeles Rayonier Mill
Port Angeles, Washington





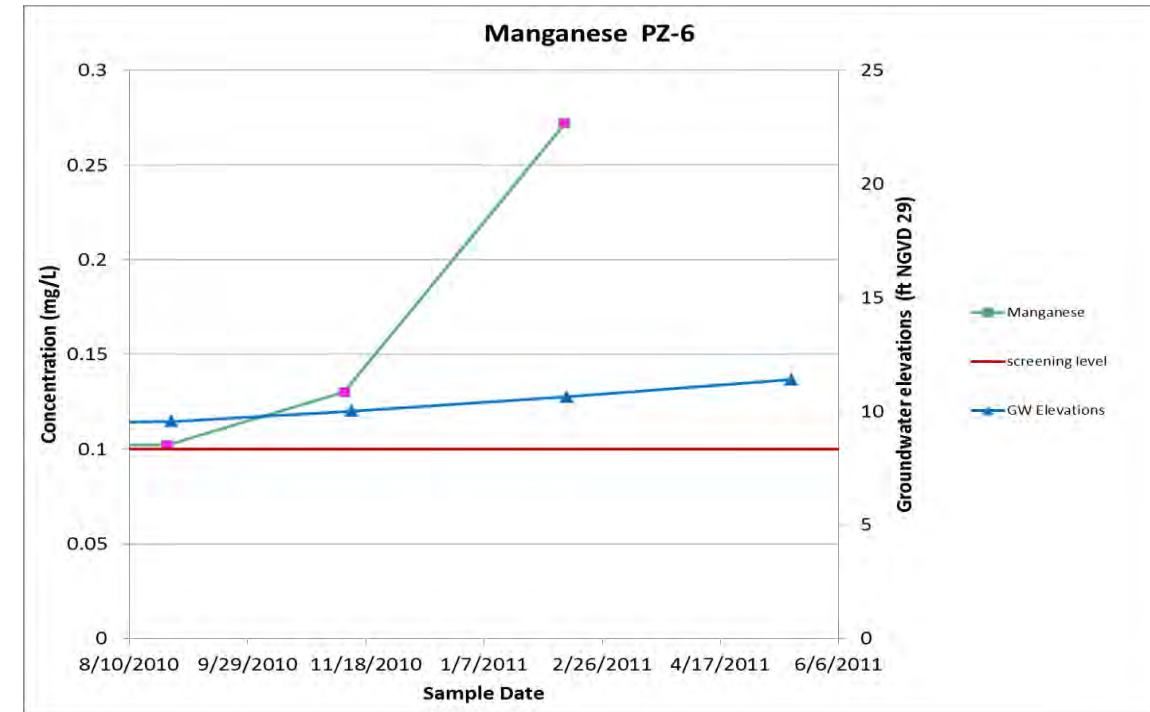
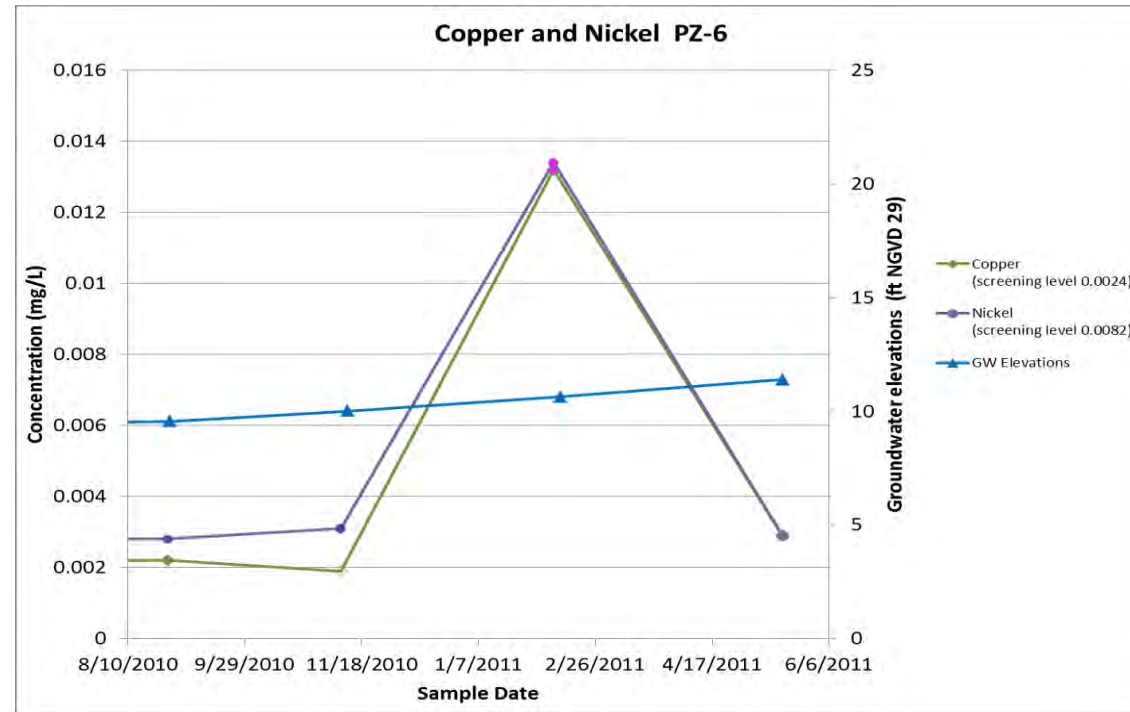
Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
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Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (PZ 4)	
Port Angeles Rayonier Mill Port Angeles, Washington	
	Figure I - 15



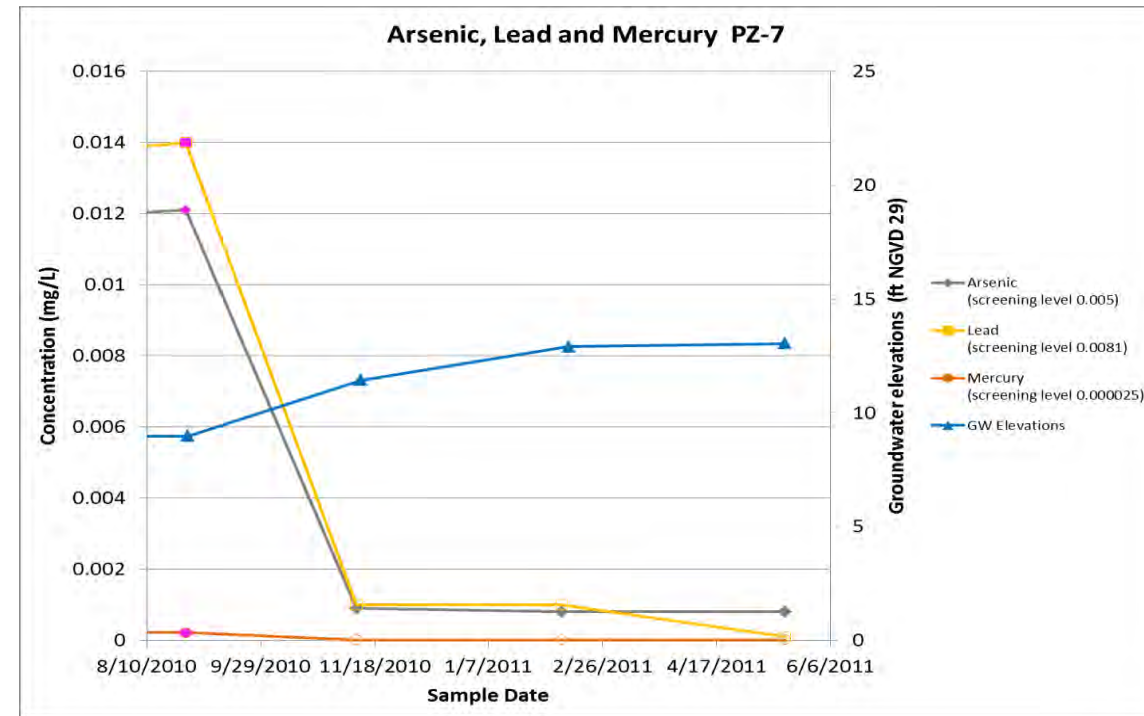
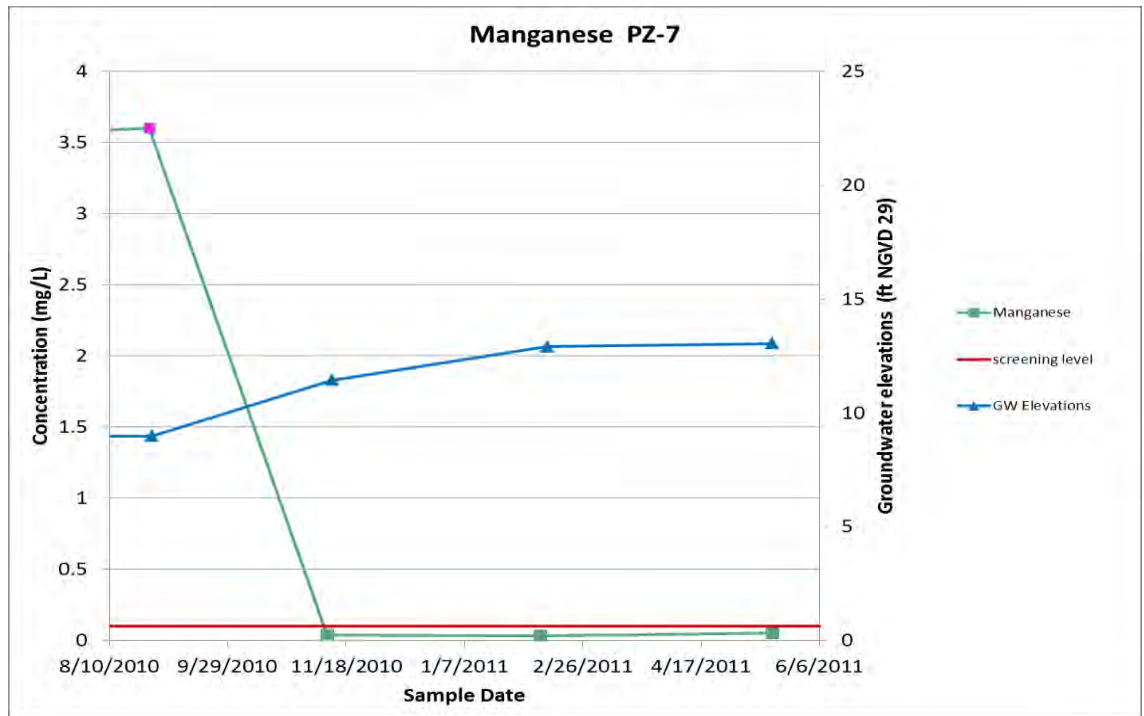
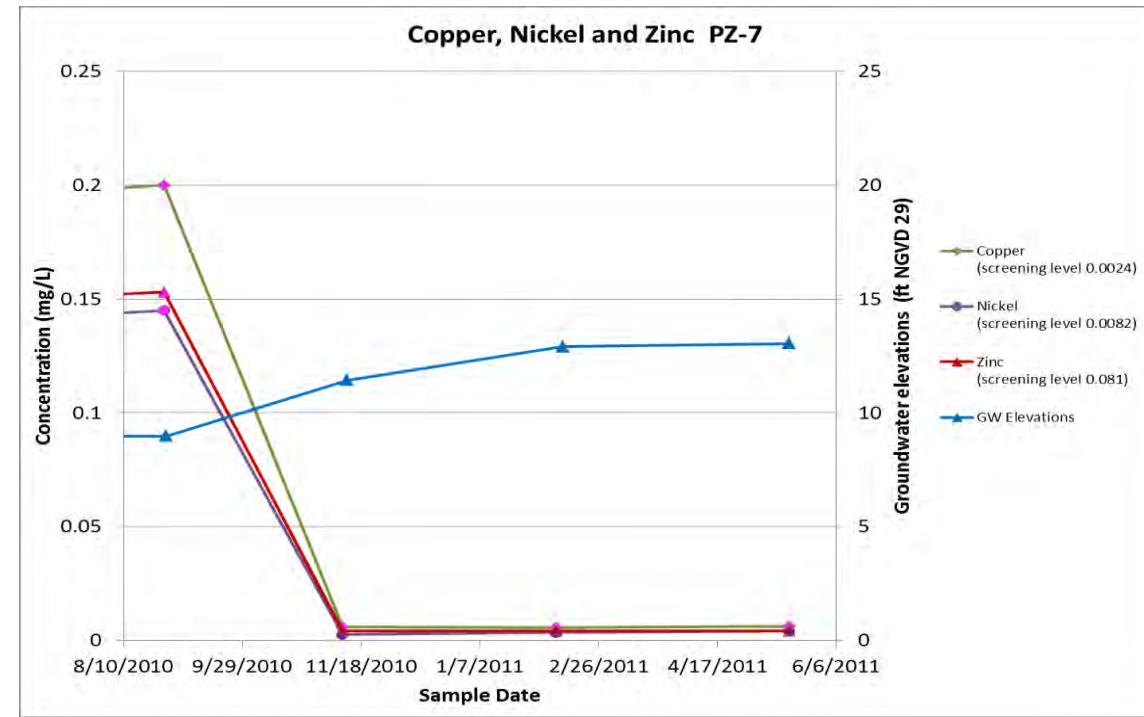
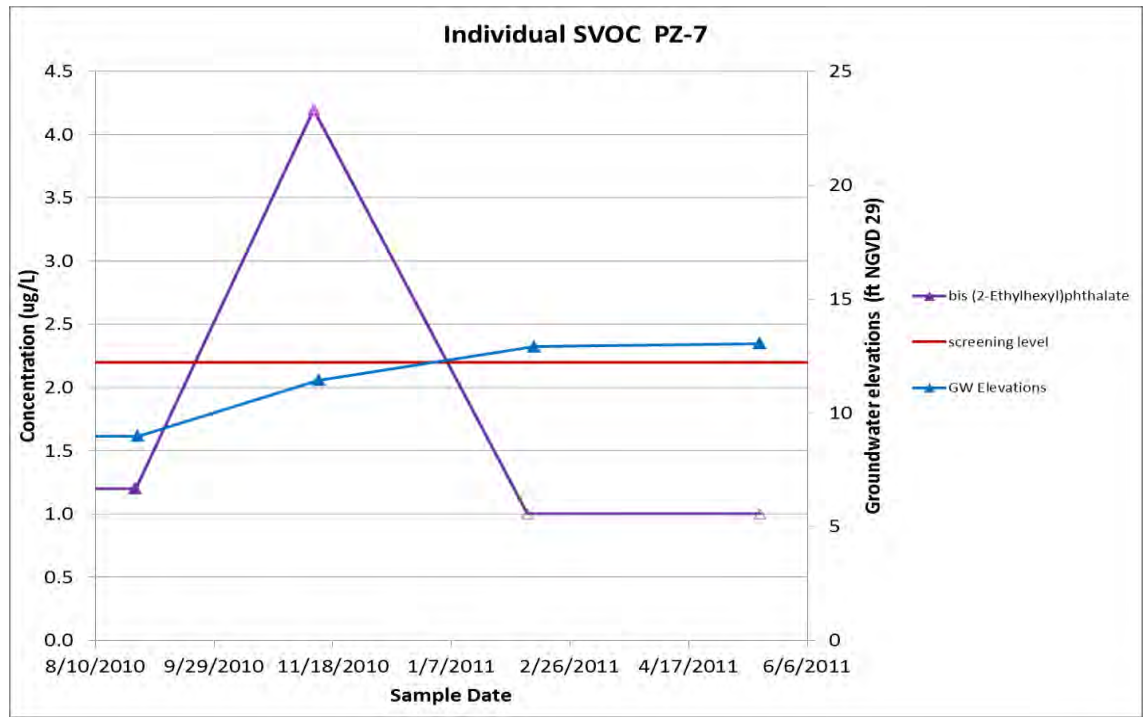
Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (PZ 6)	
Port Angeles Rayonier Mill Port Angeles, Washington	
	Figure I - 16



Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

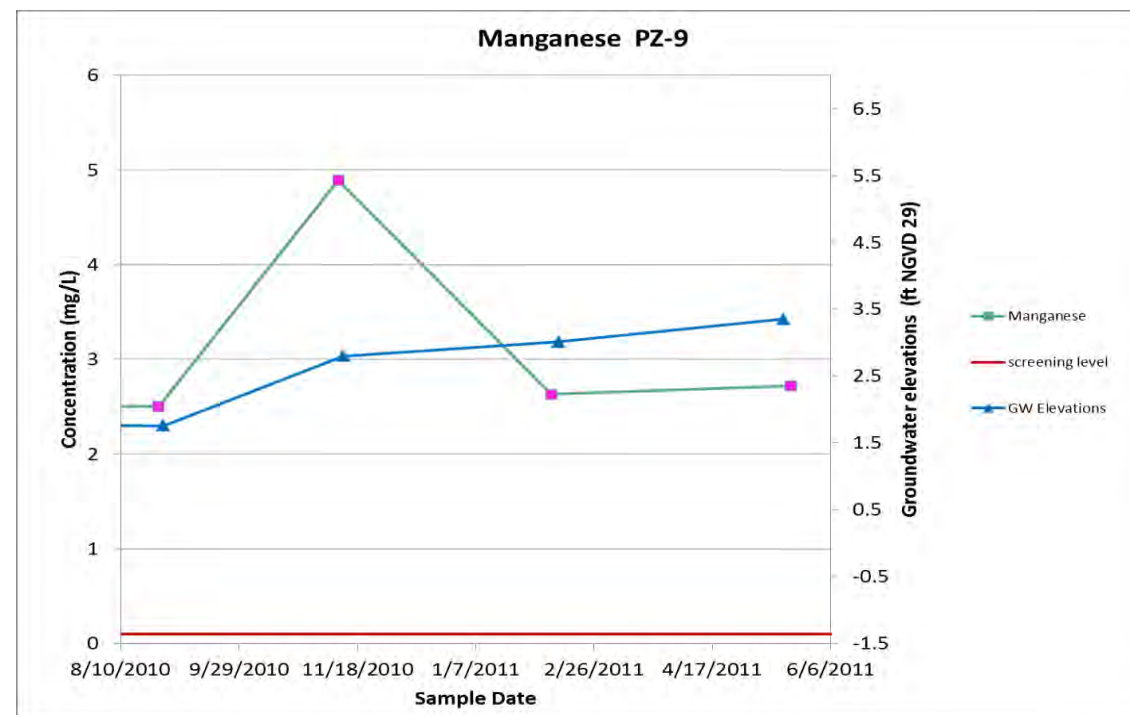
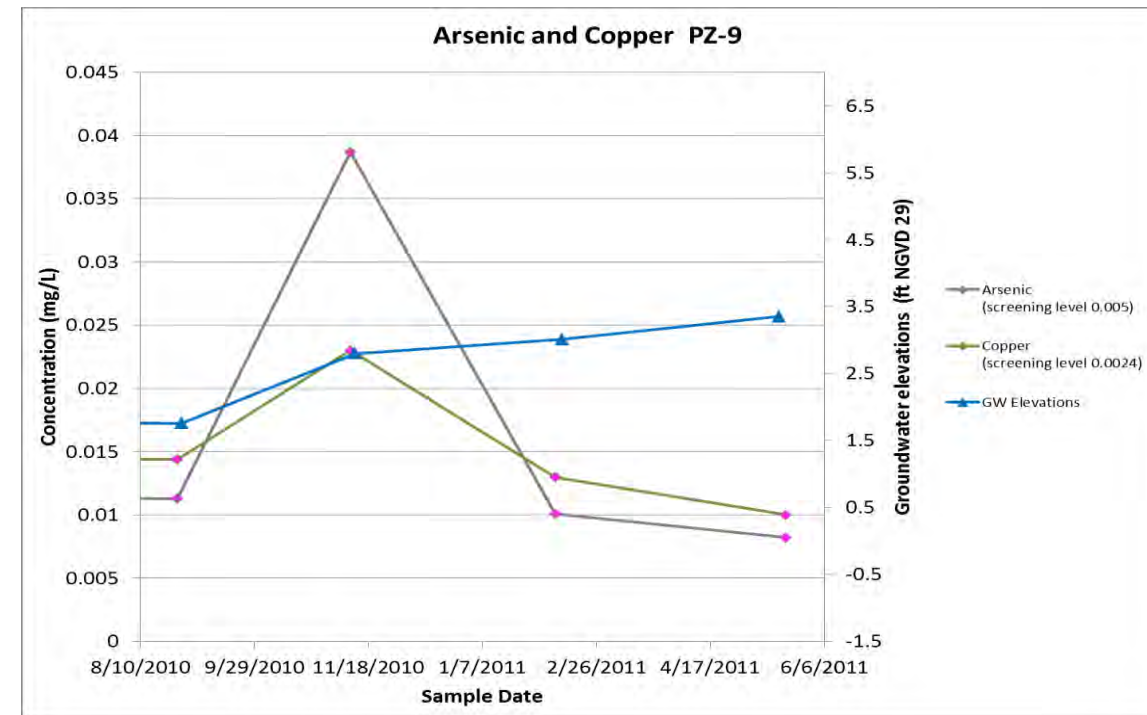
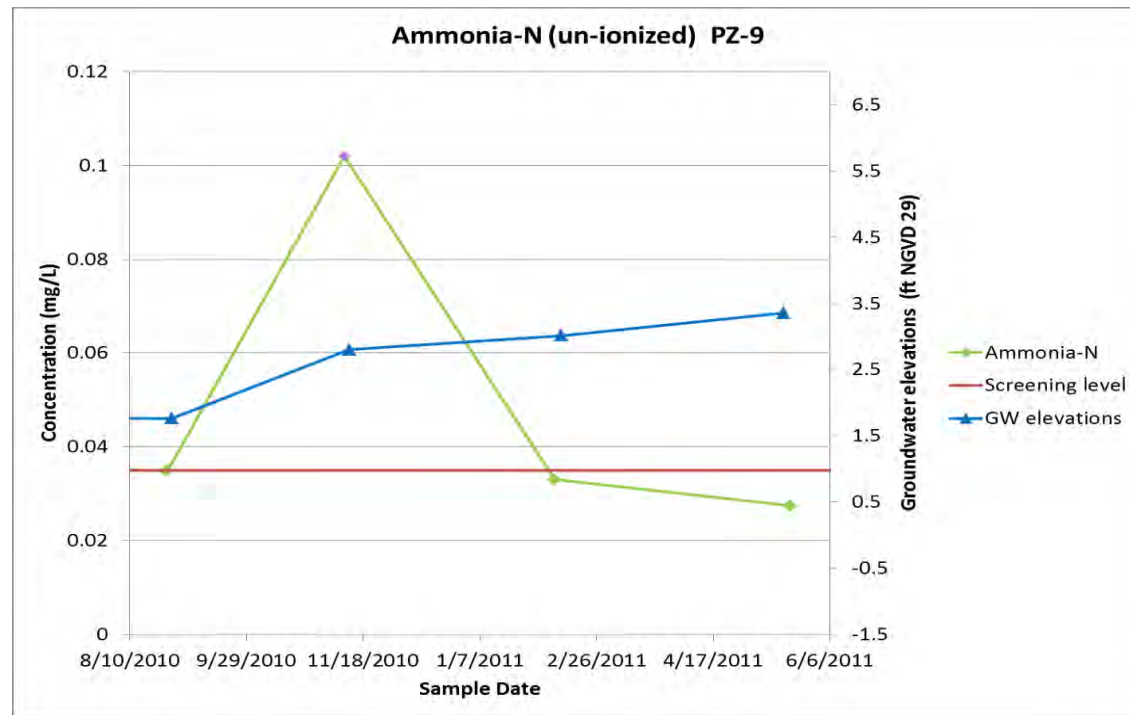
Notes:

- For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
- Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (PZ 7)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

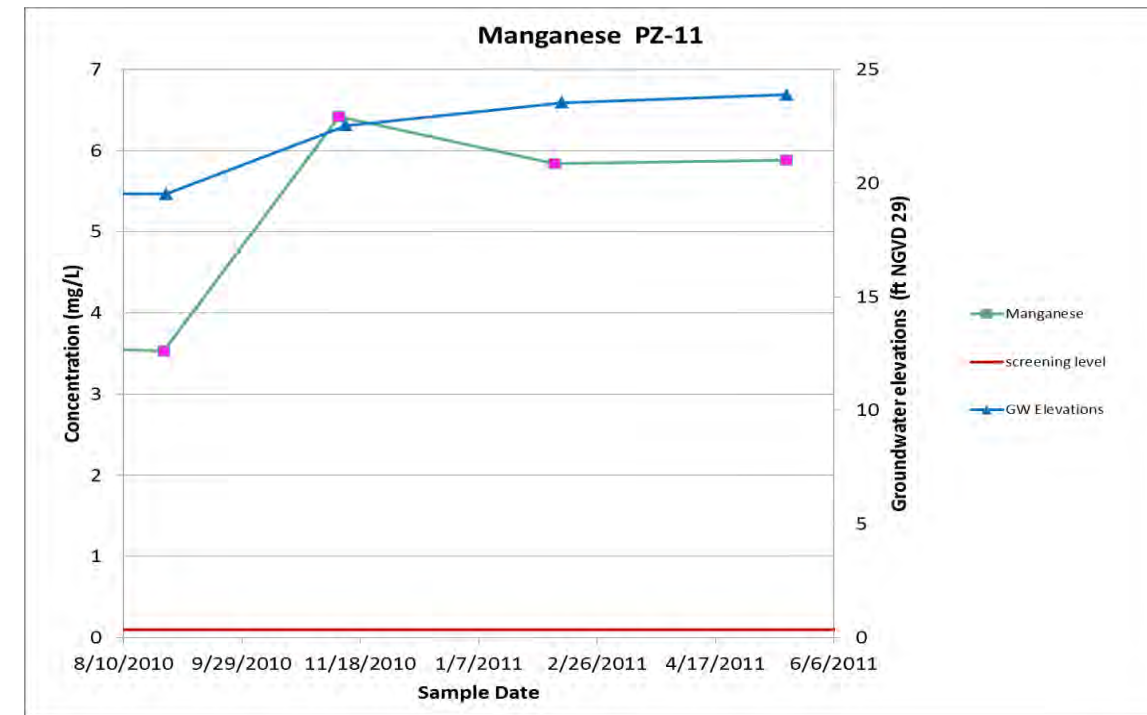
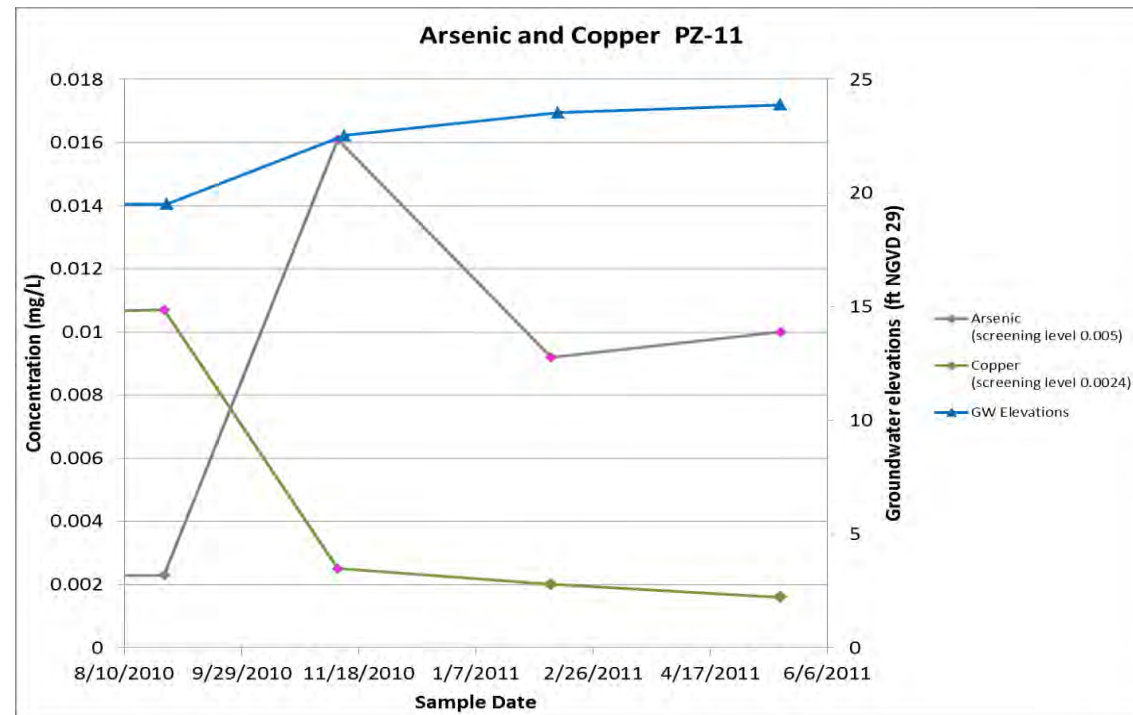
1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (PZ 9)

Port Angeles Rayonier Mill
Port Angeles, Washington



Figure I - 18



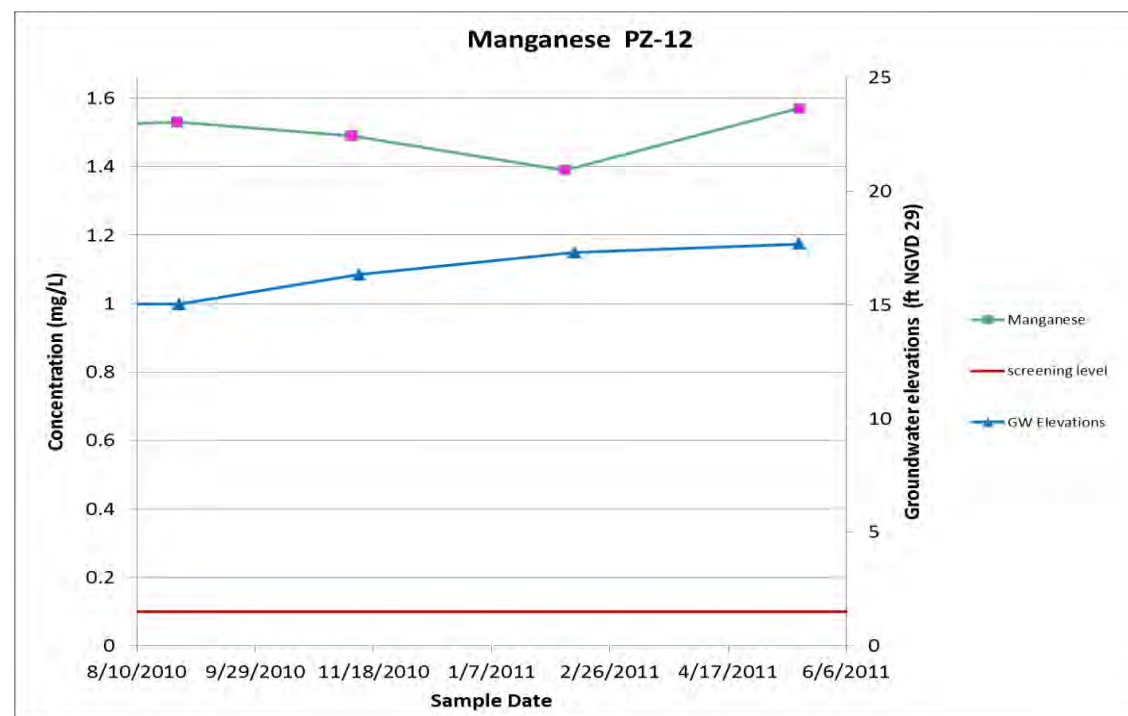
Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (PZ 11)	
Port Angeles Rayonier Mill Port Angeles, Washington	
	Figure I - 19



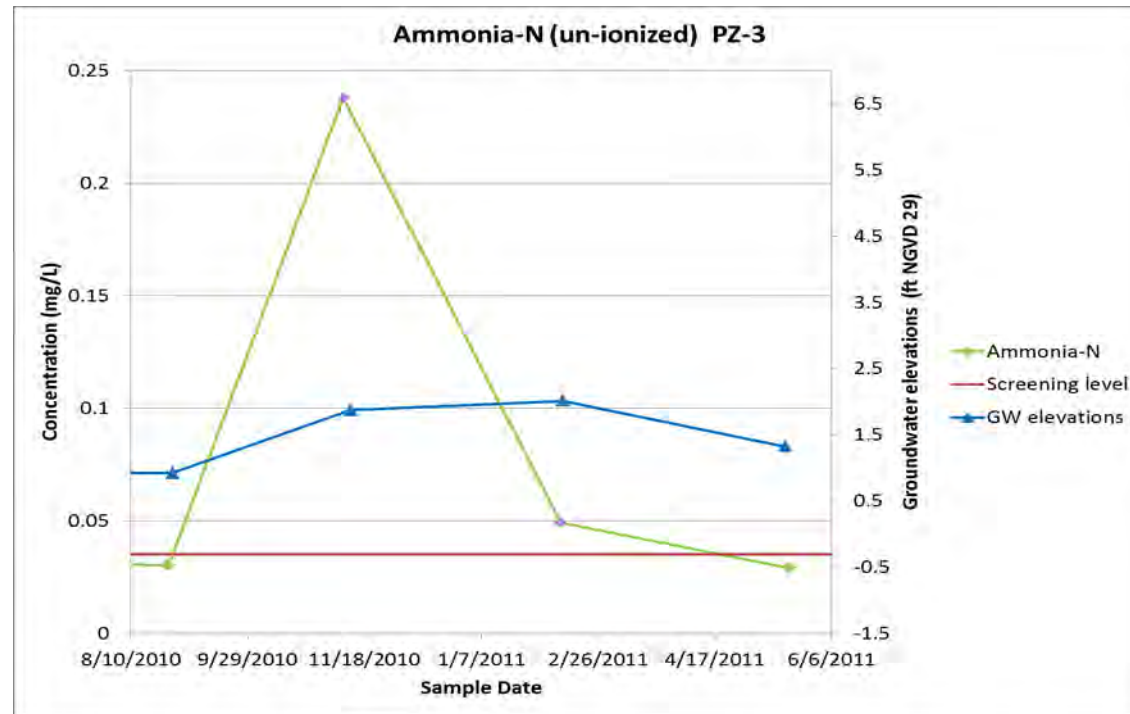
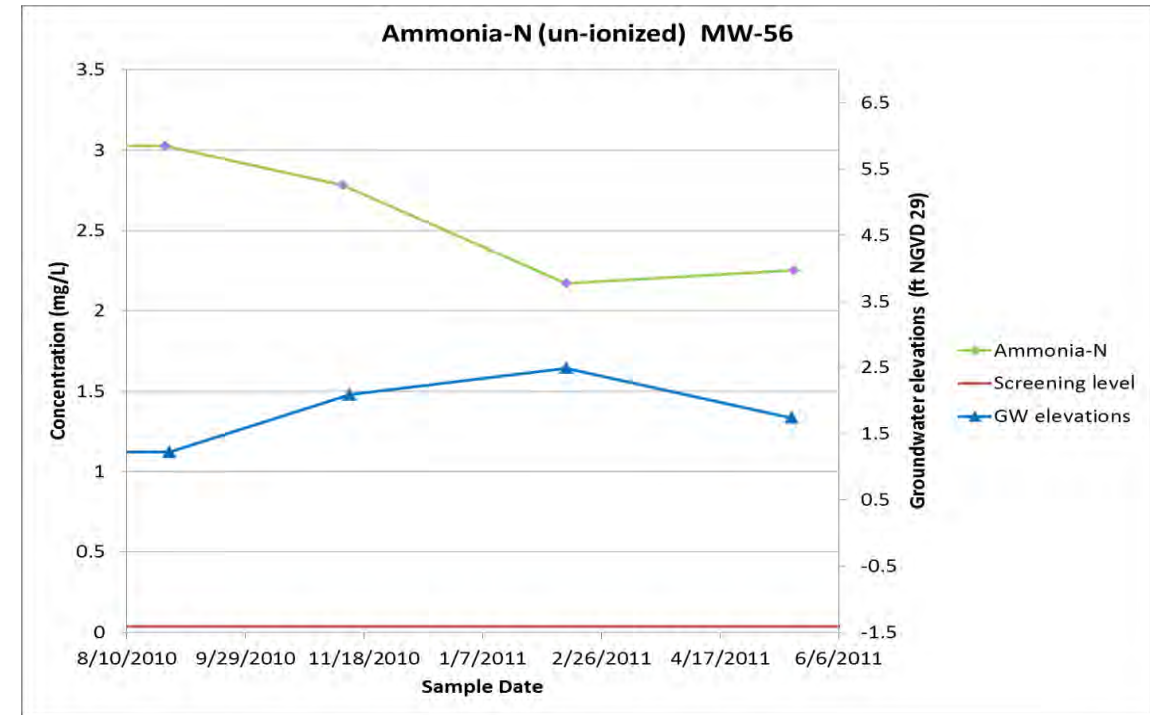
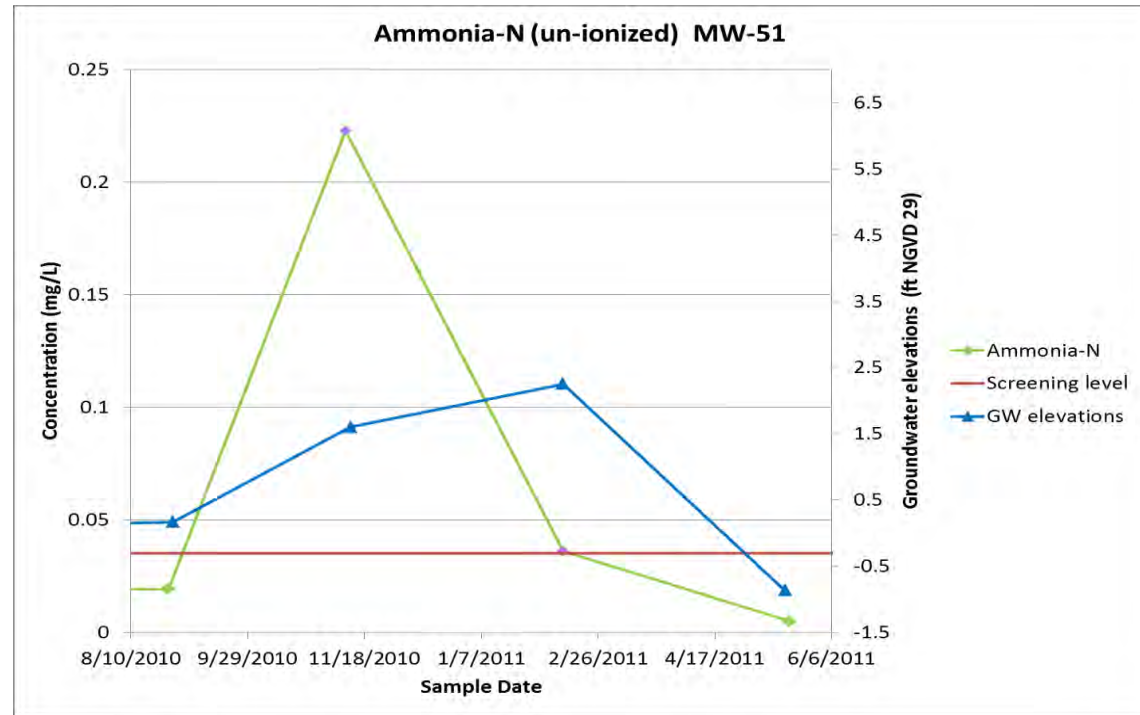
Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
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Contaminants of Concern and Hydrograph, Aug 2010 to May 2011 (PZ 12)	
Port Angeles Rayonier Mill Port Angeles, Washington	
GEOENGINEERS	Figure I - 20



Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

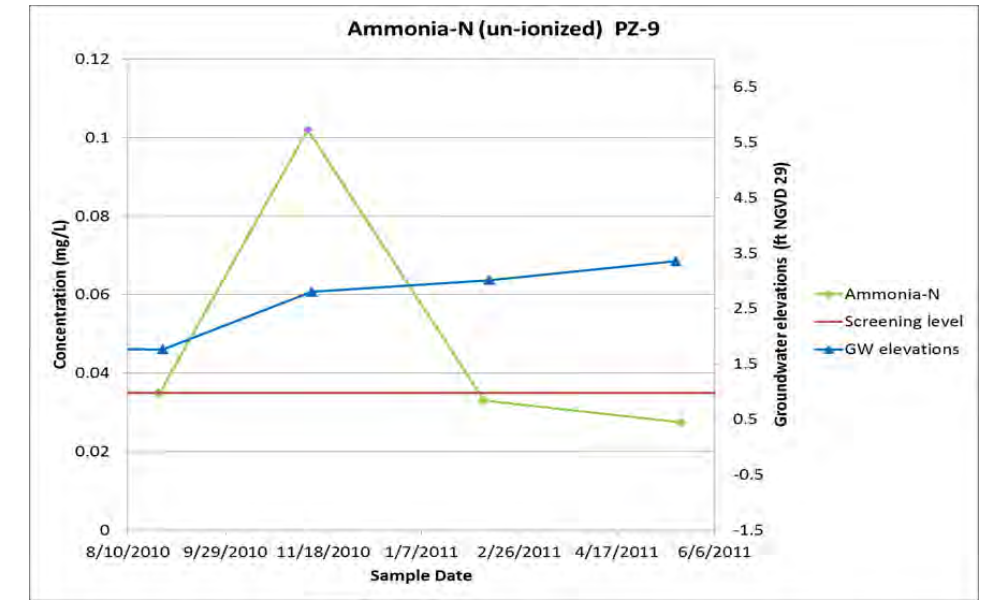
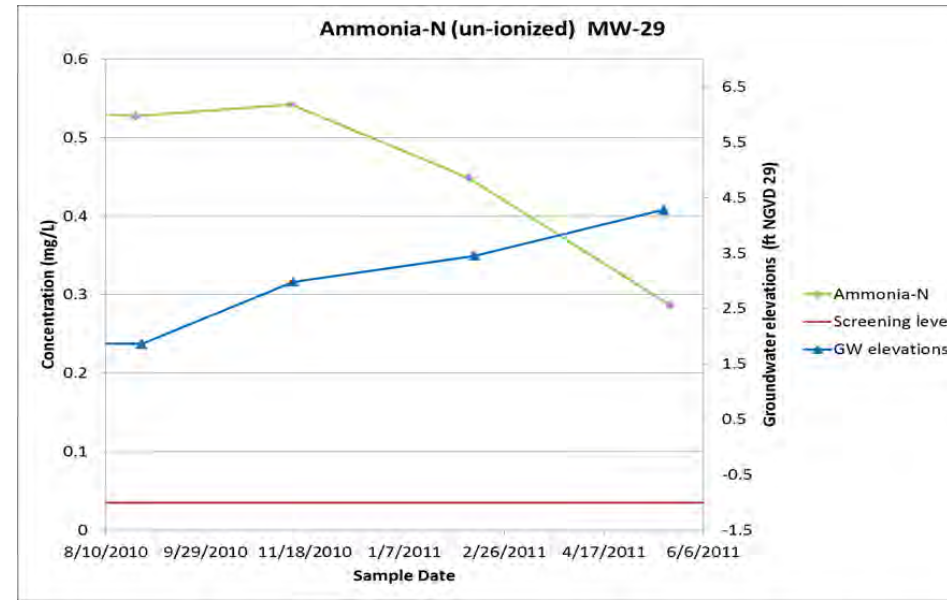
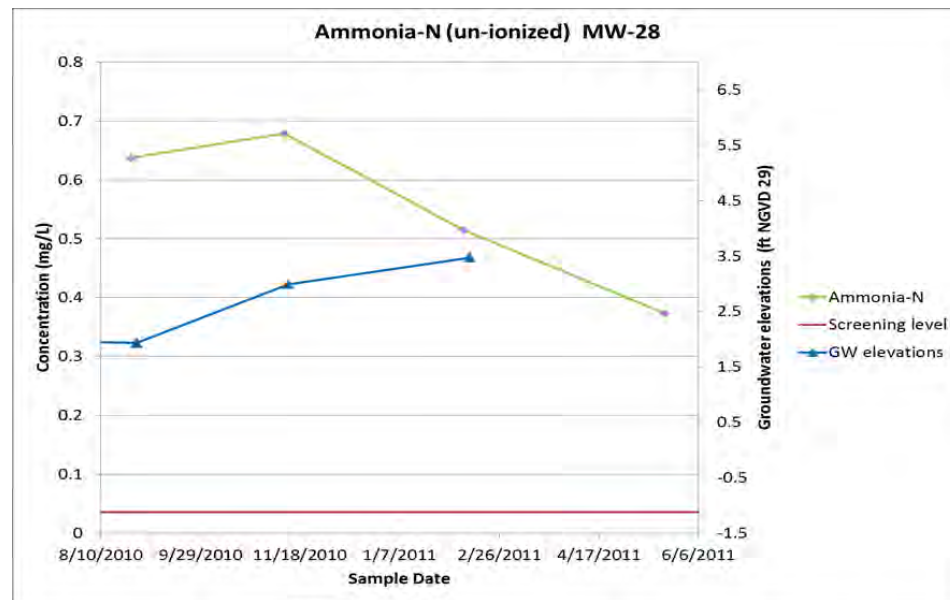
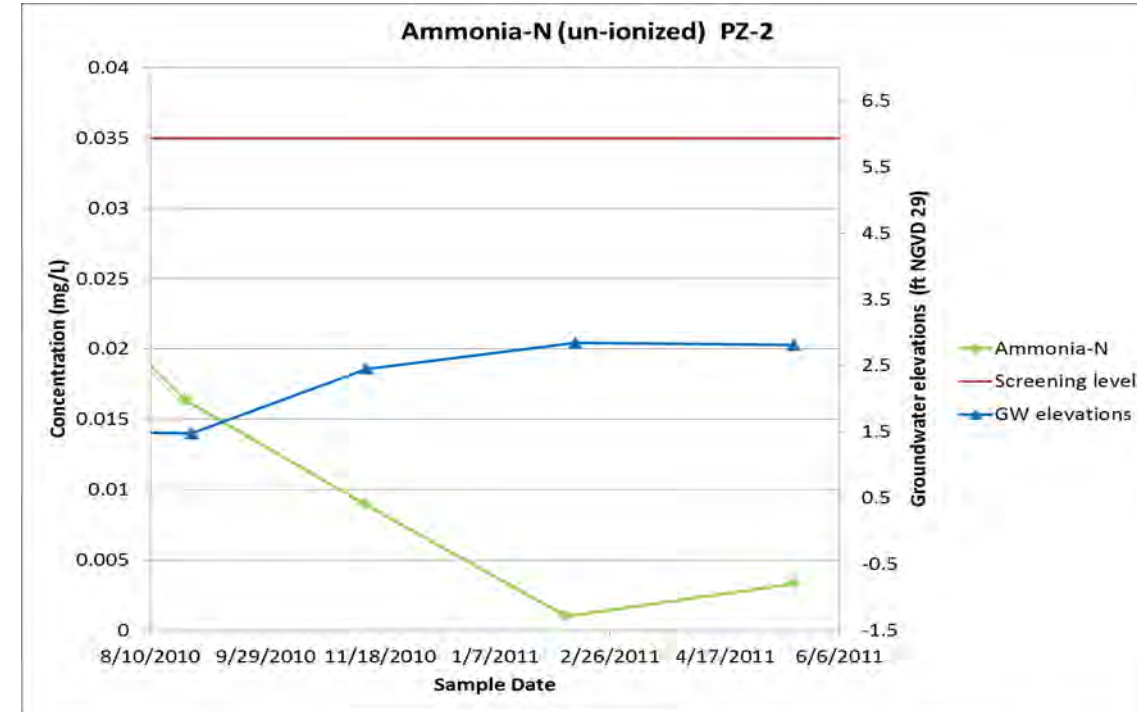
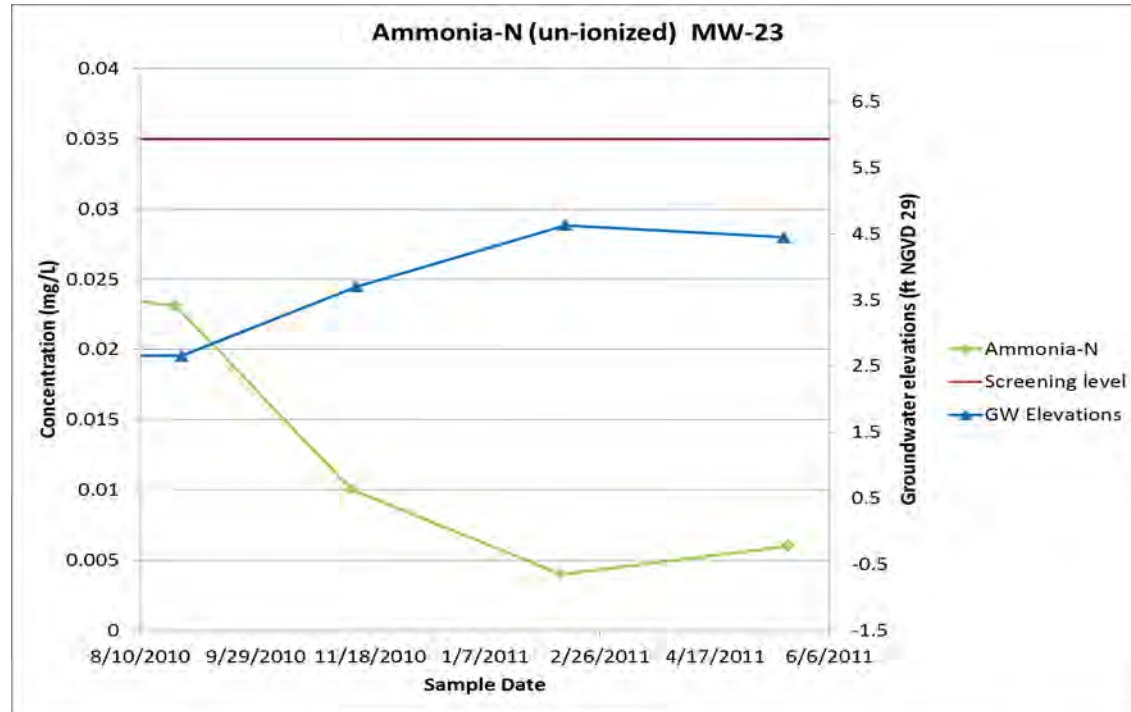
Notes:

1. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

**Ammonia-N and Hydrograph –
Tidally Influenced Wells,
Aug 2010 to May 2011**

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

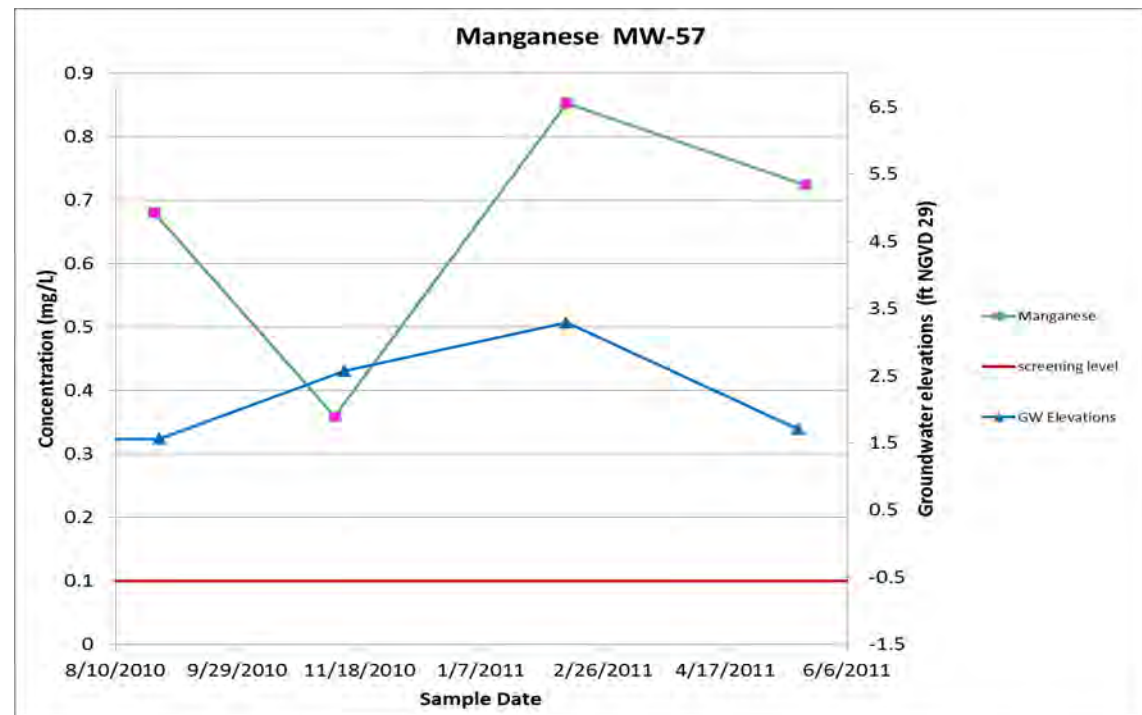
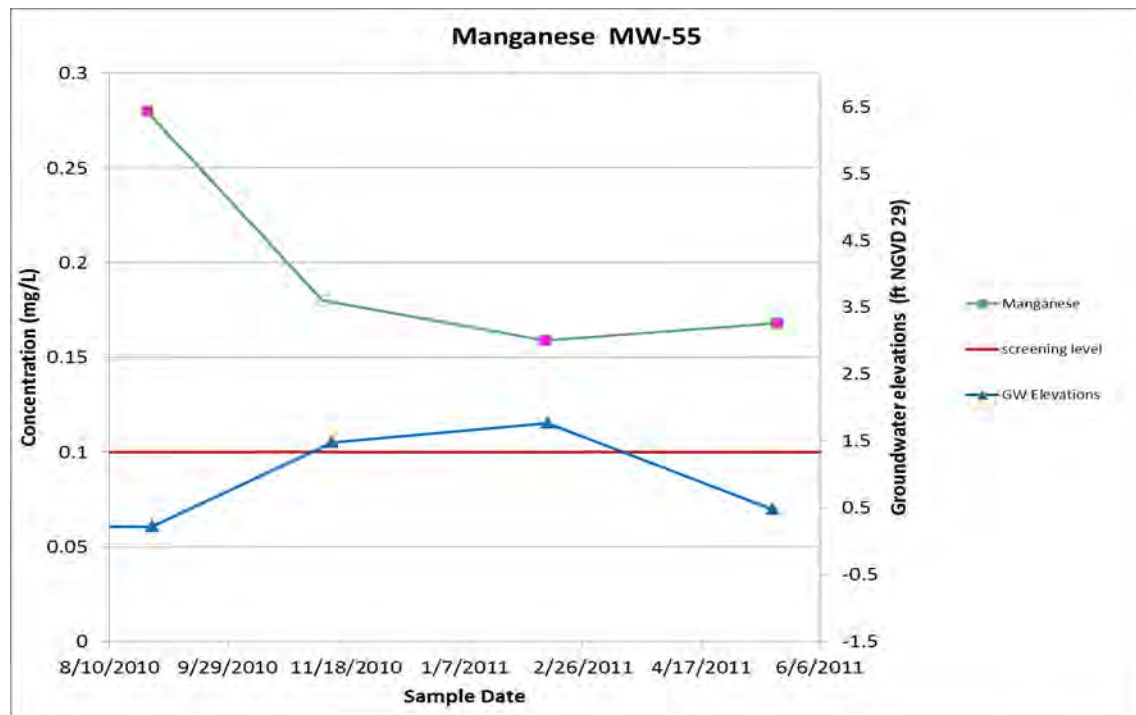
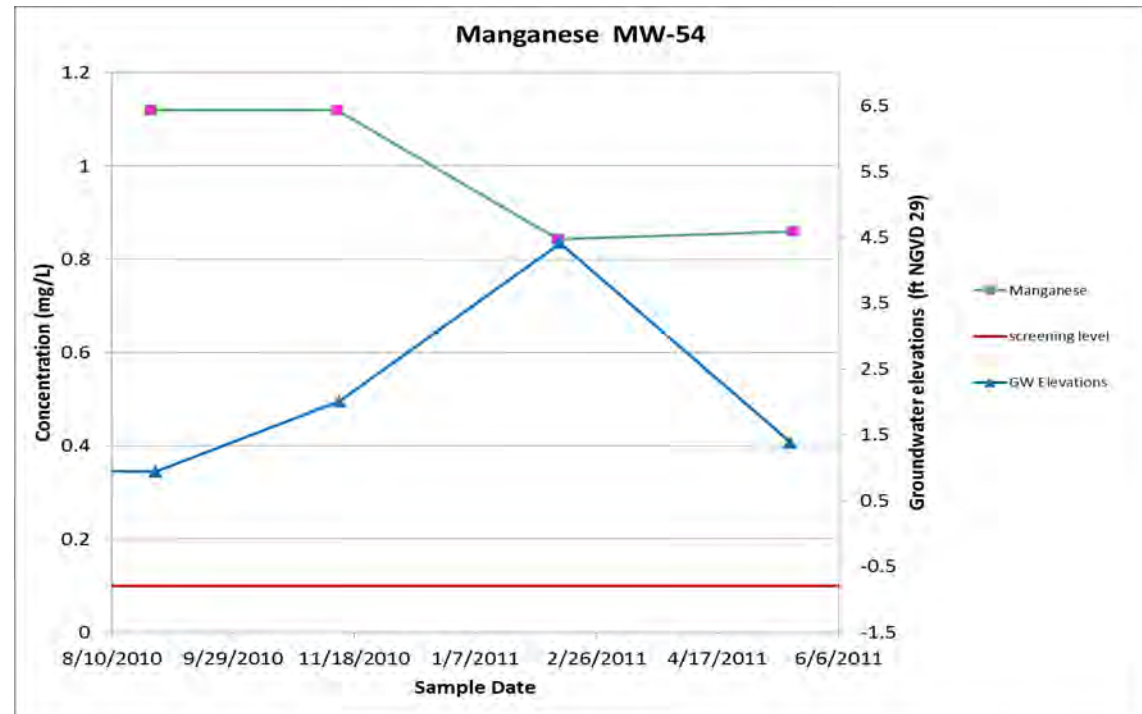
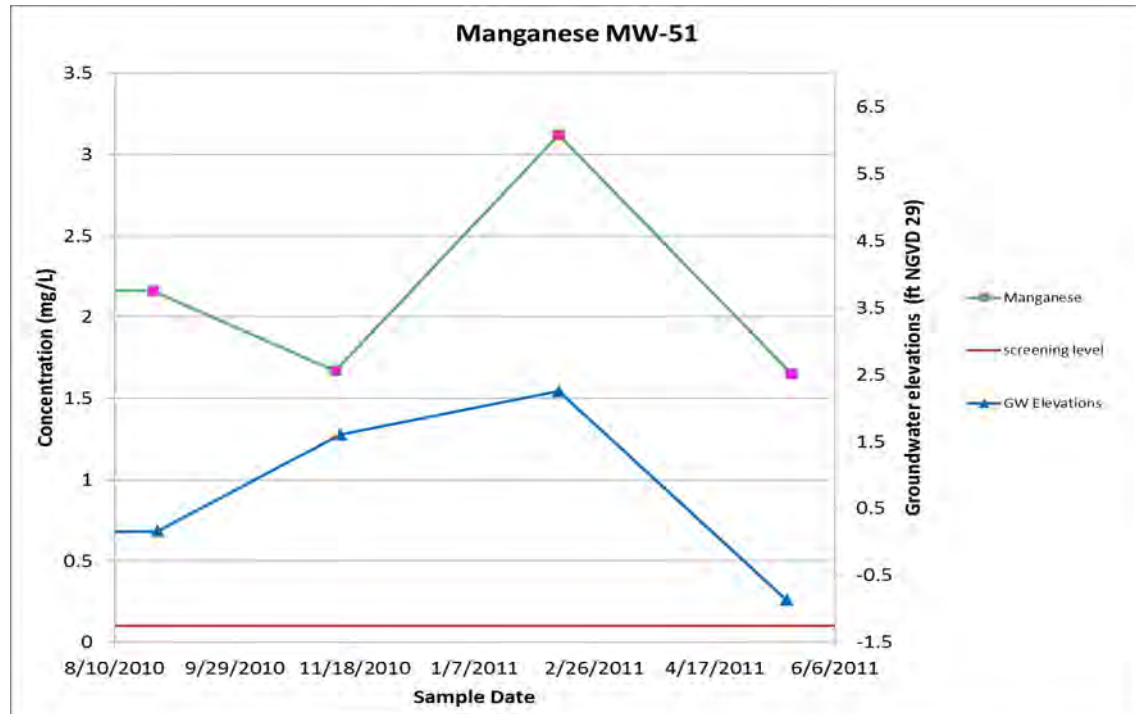
Notes:

1. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

**Ammonia-N and Hydrograph –
Non-Tidally Influenced Wells,
Aug 2010 to May 2011**

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

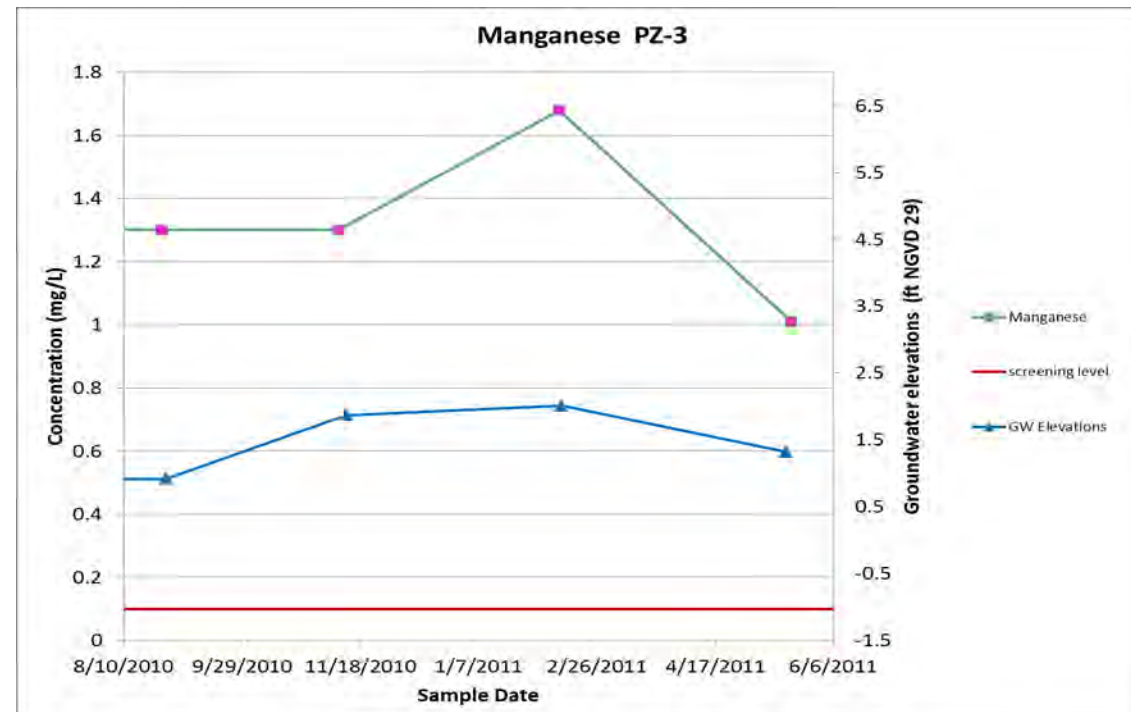
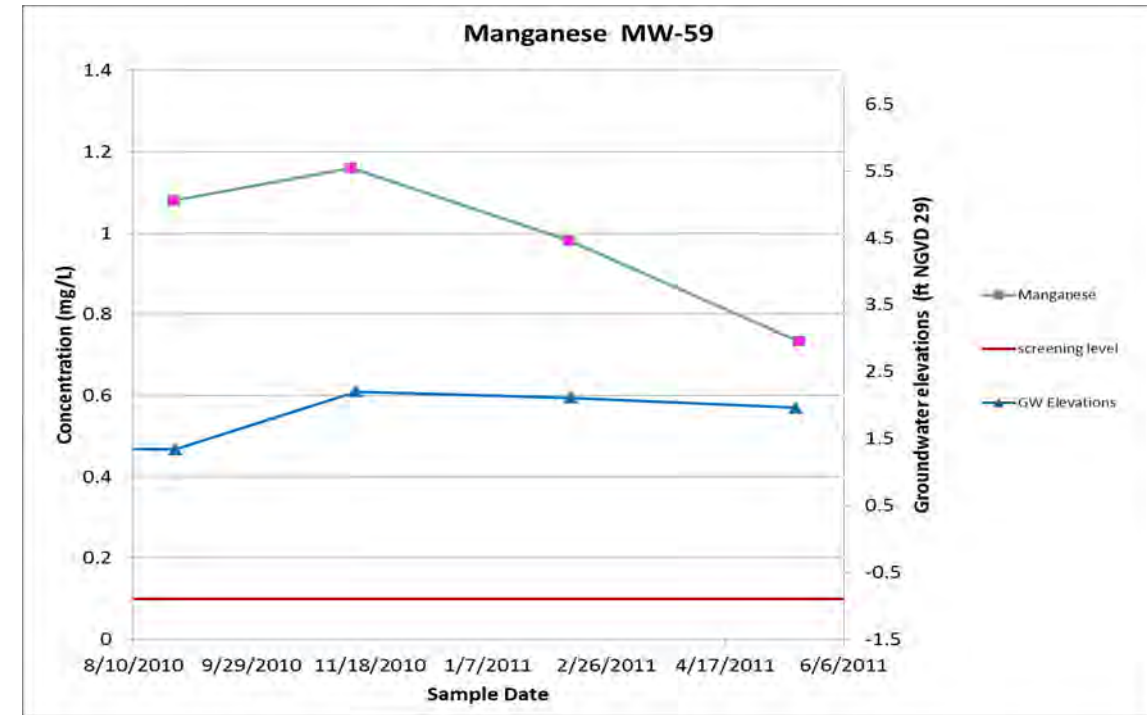
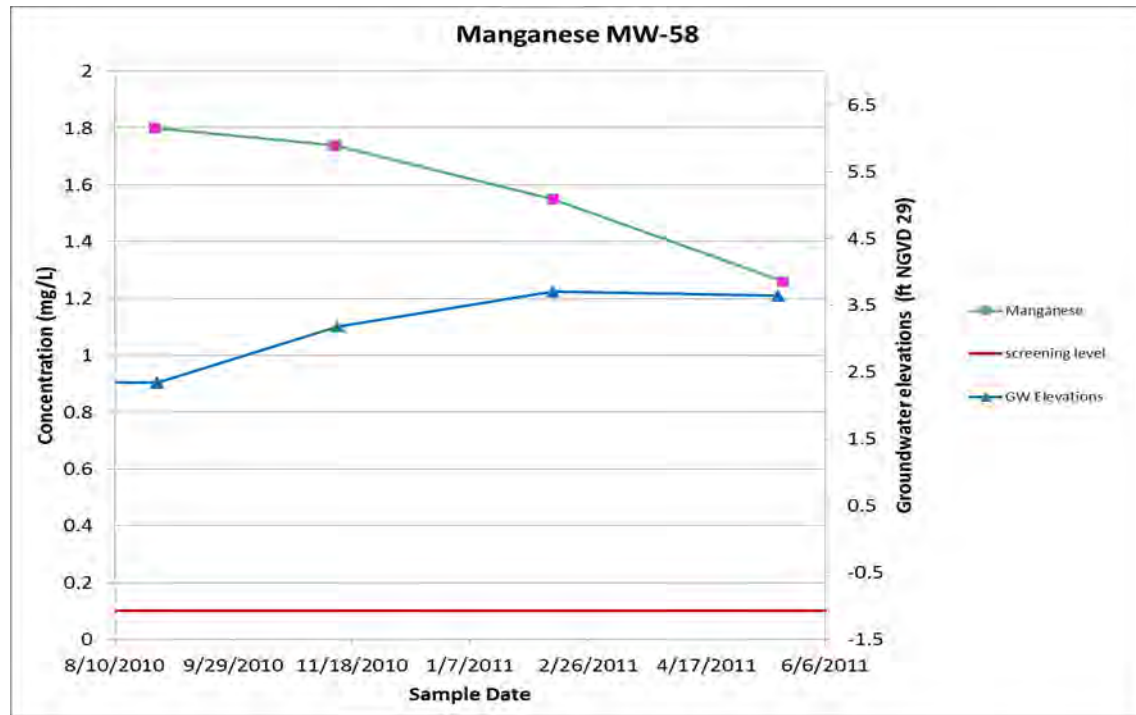
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
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**Manganese and Hydrograph –
Tidally Influenced Wells,
Aug 2010 to May 2011**

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

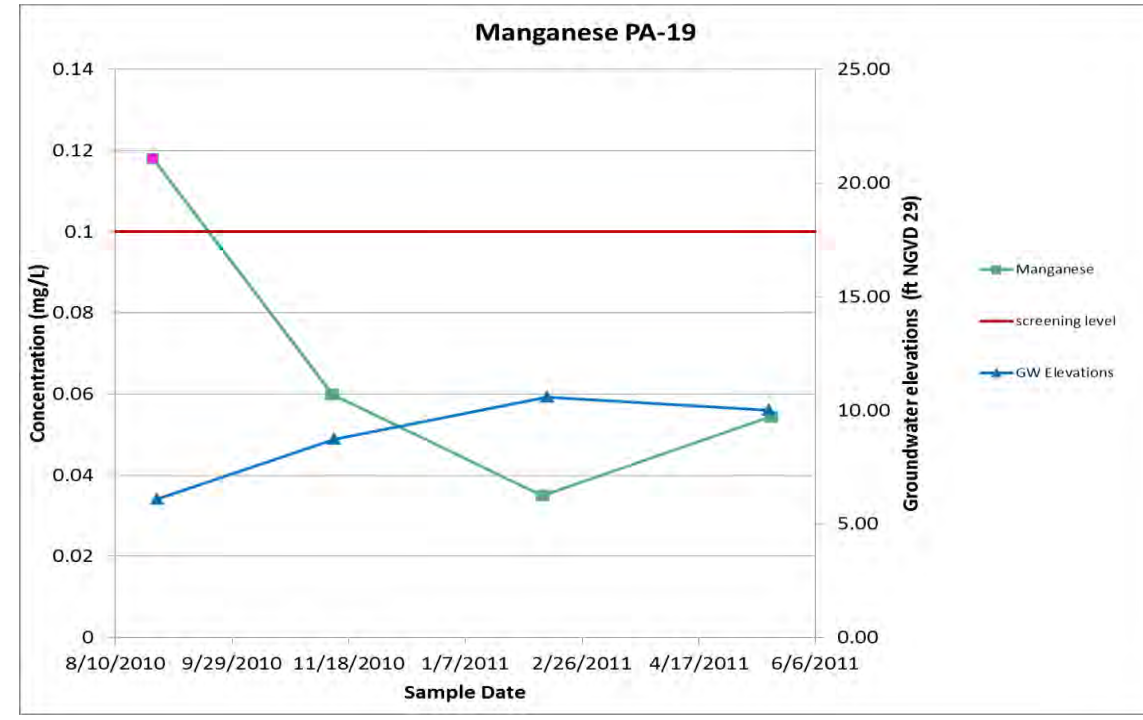
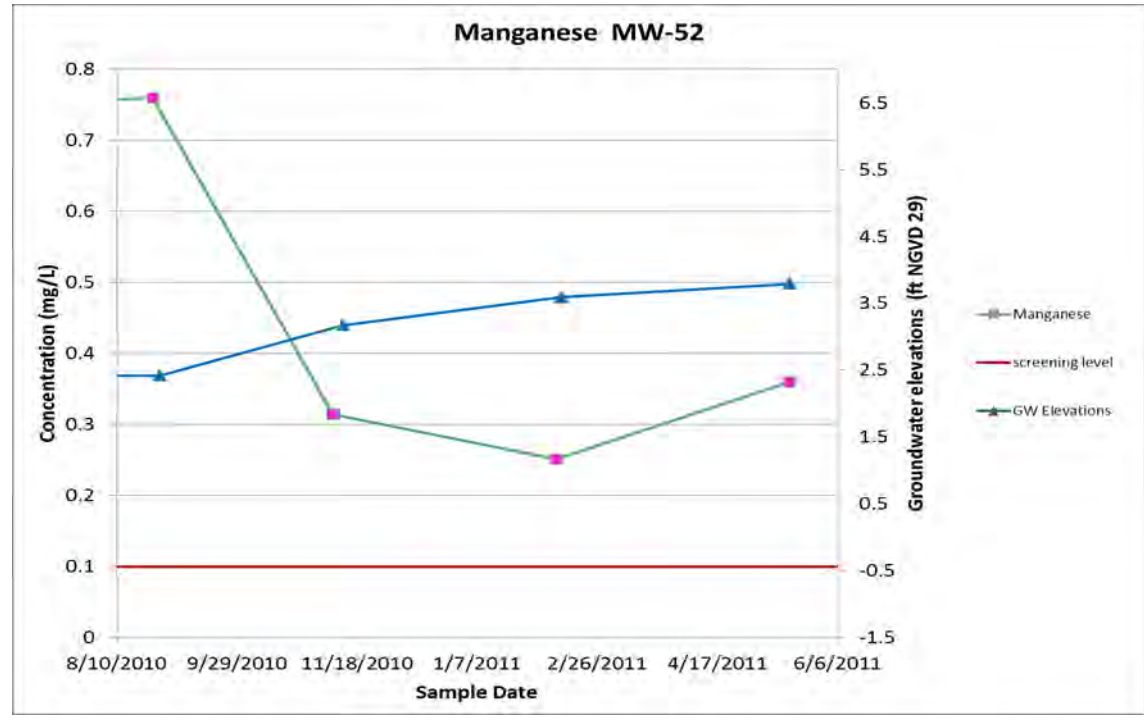
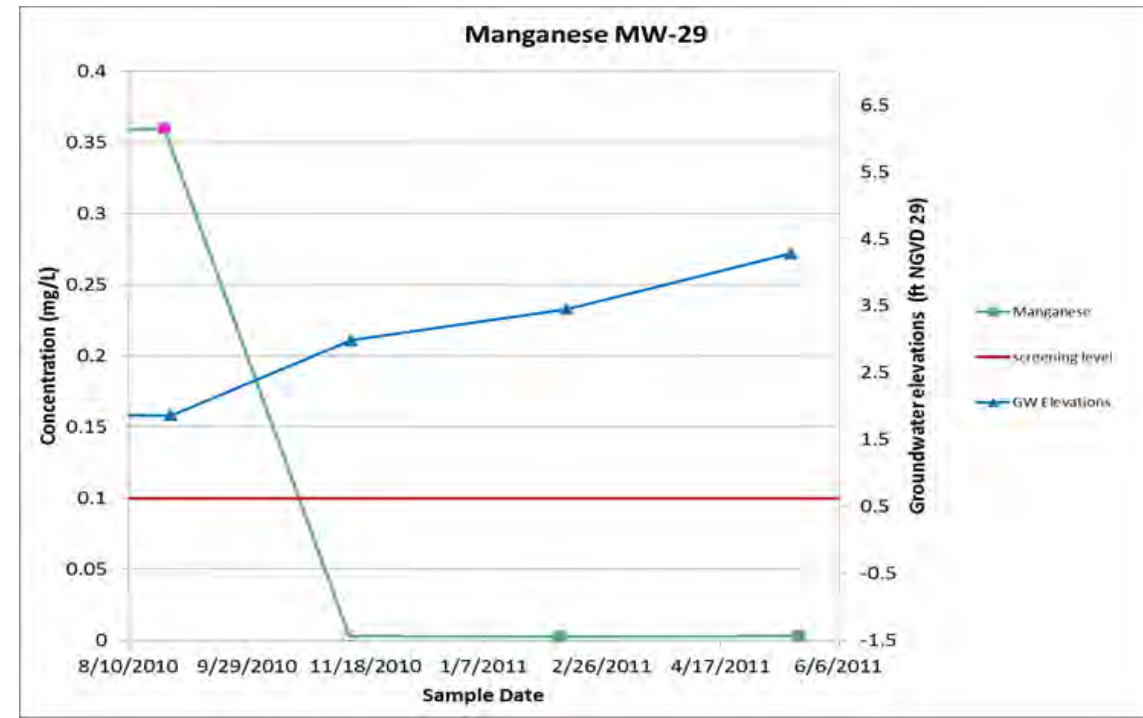
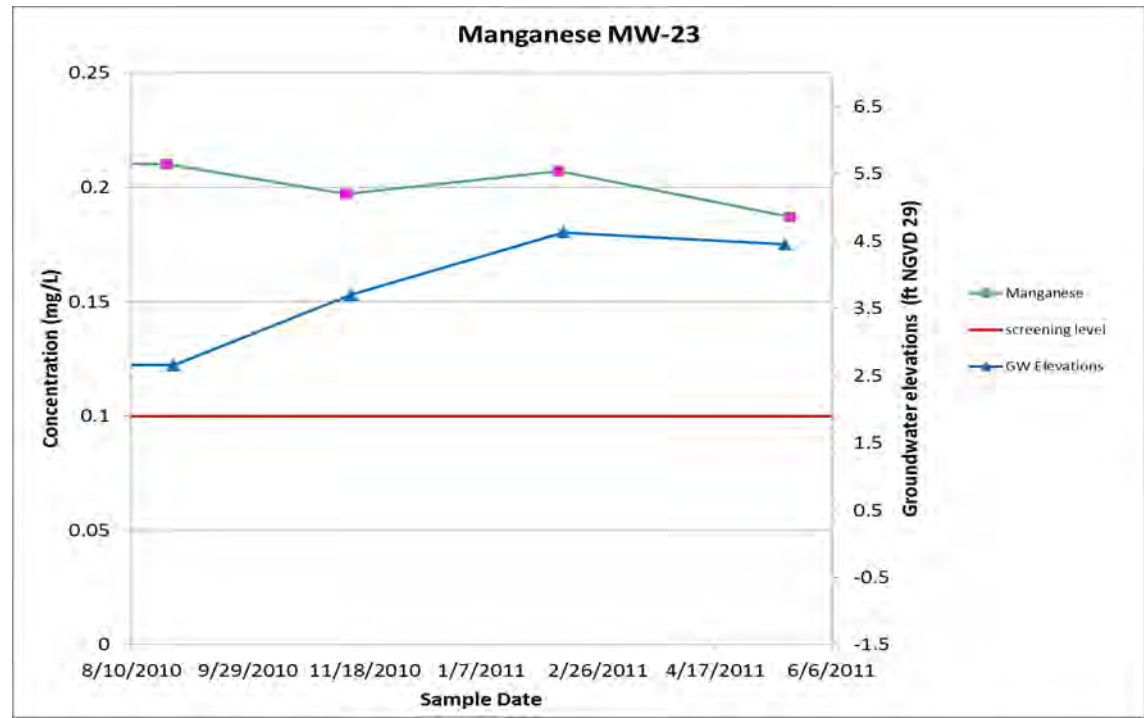
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
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**Manganese and Hydrograph –
Tidally Influenced Wells,
Aug 2010 to May 2011**

Port Angeles Rayonier Mill
Port Angeles, Washington

GEOENGINEERS **Figure I - 24**



Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

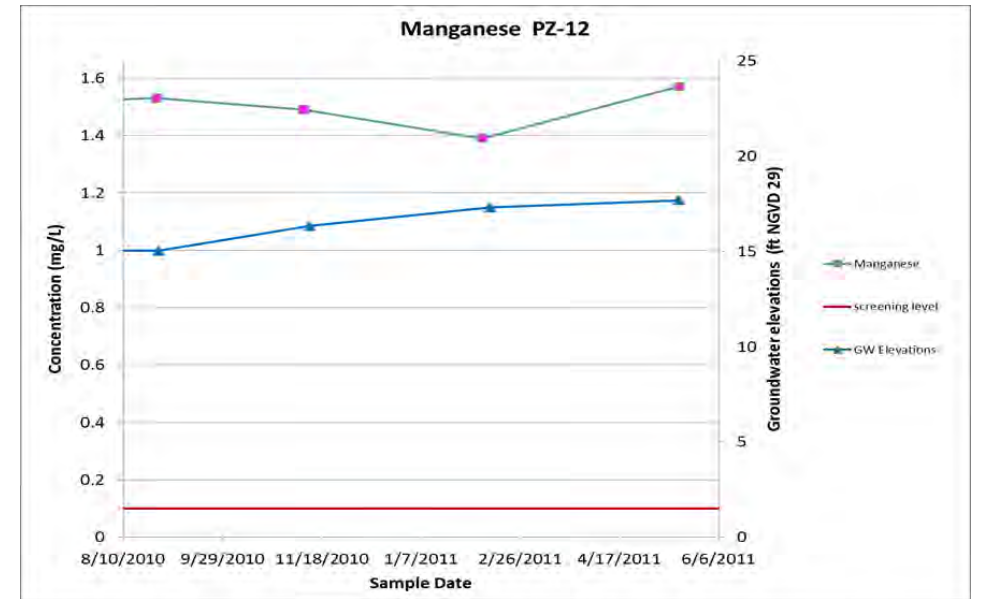
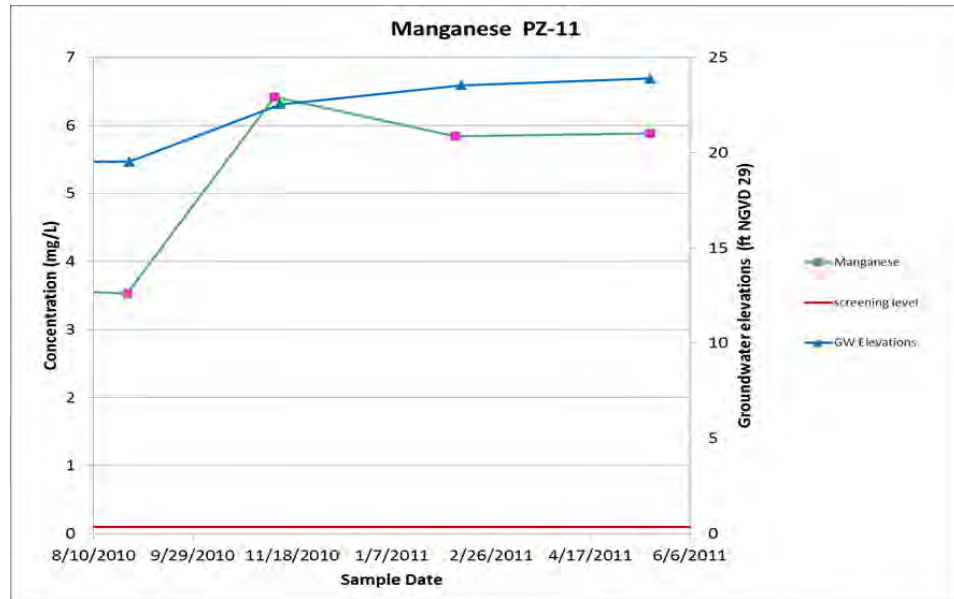
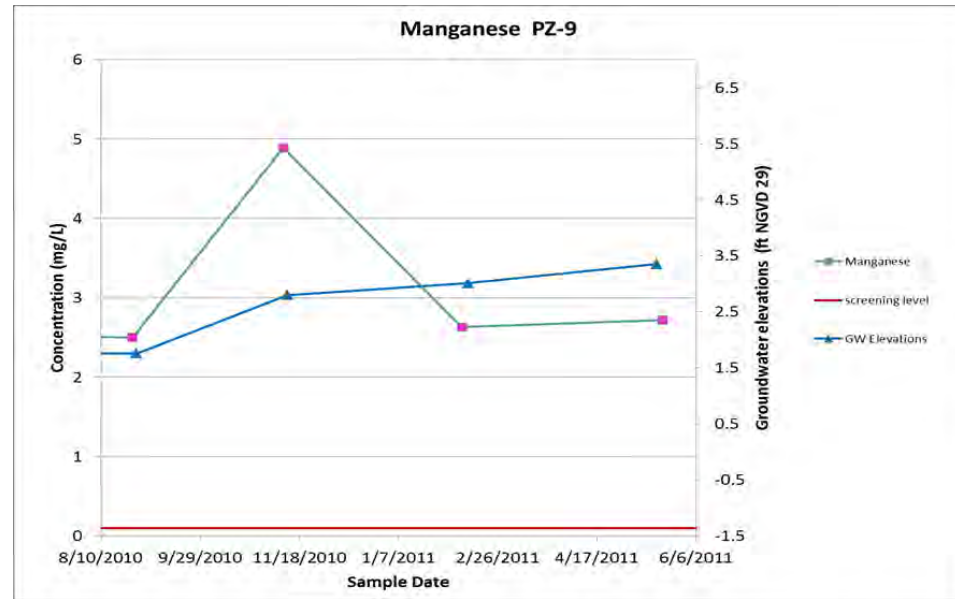
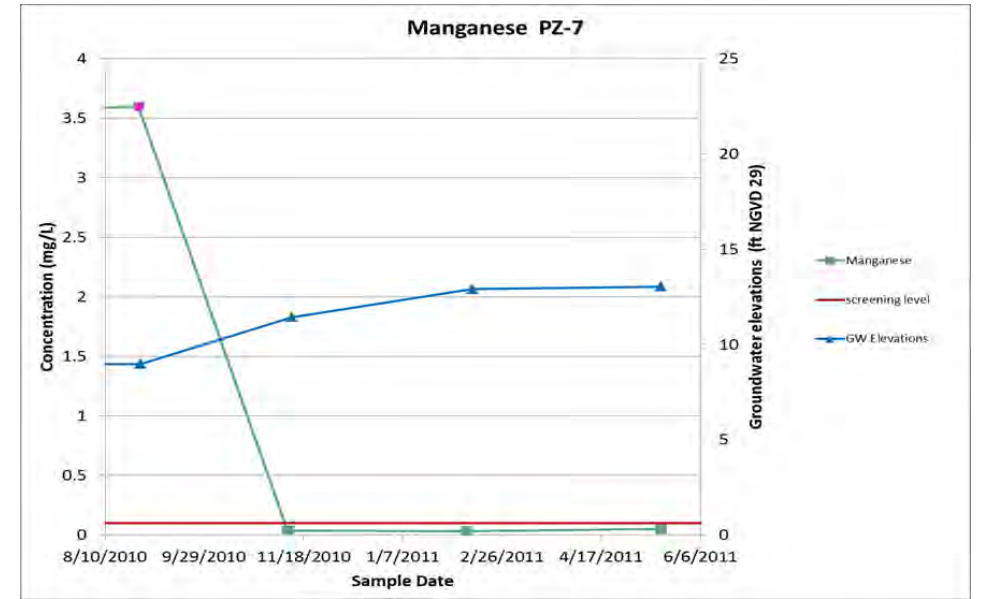
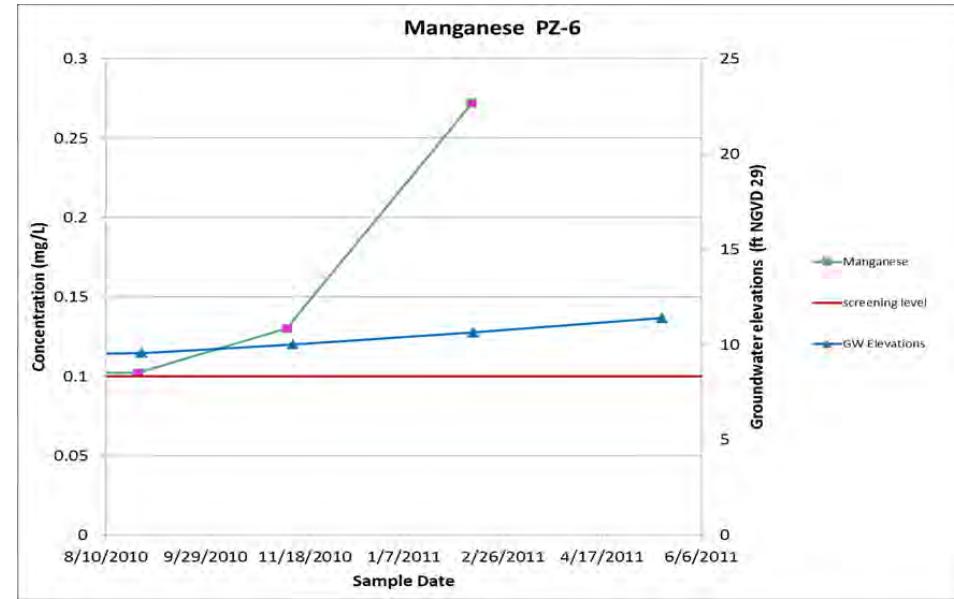
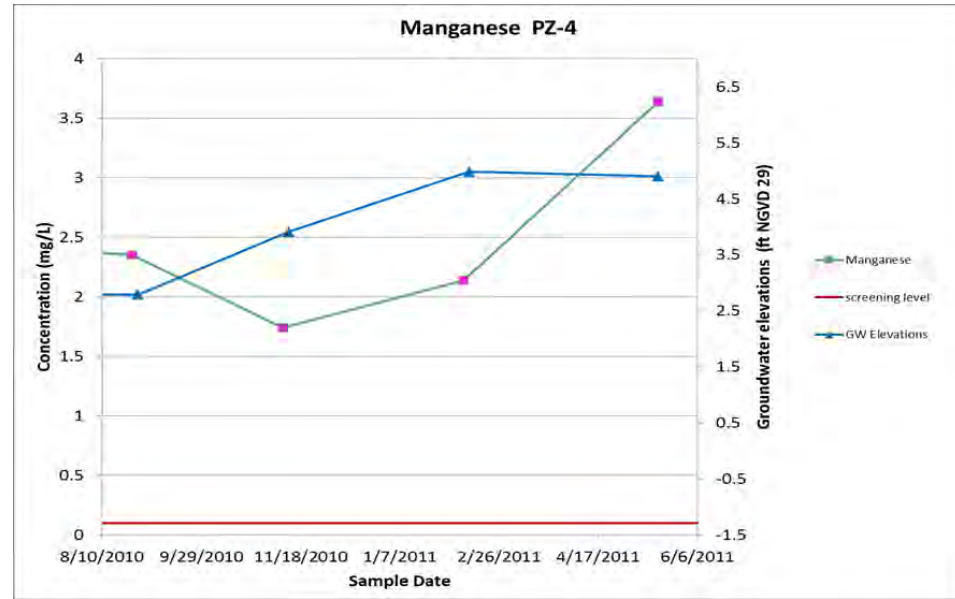
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
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**Manganese and Hydrograph –
Non-Tidally Influenced Wells,
Aug 2010 to May 2011**

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

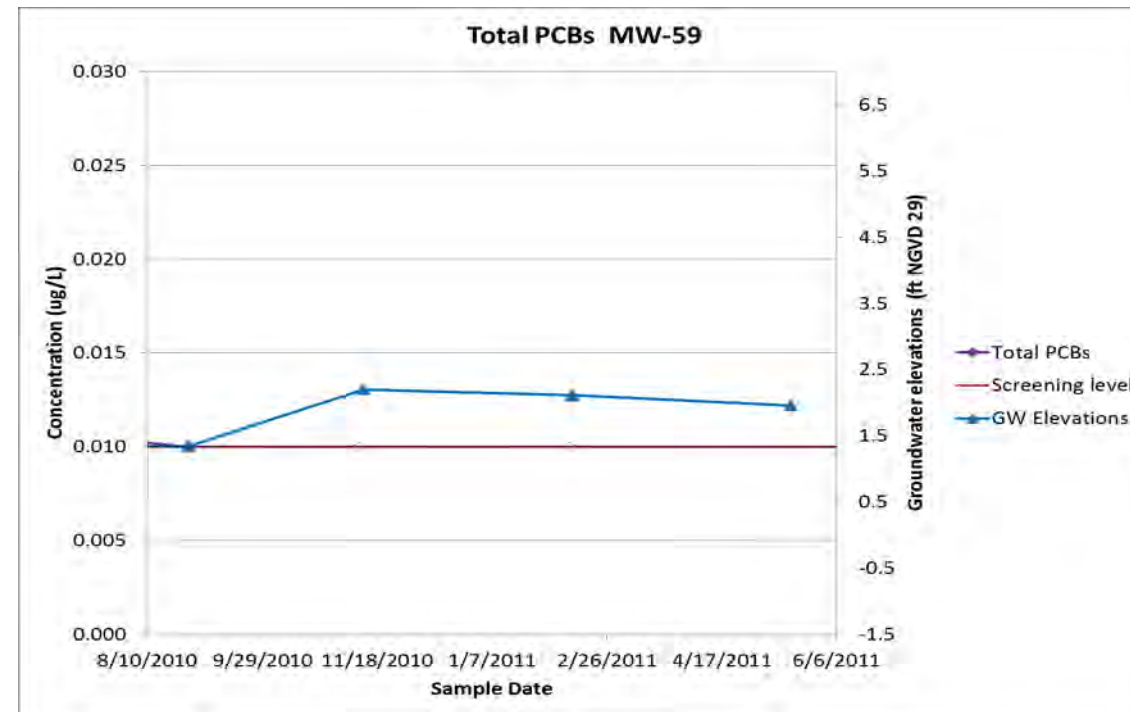
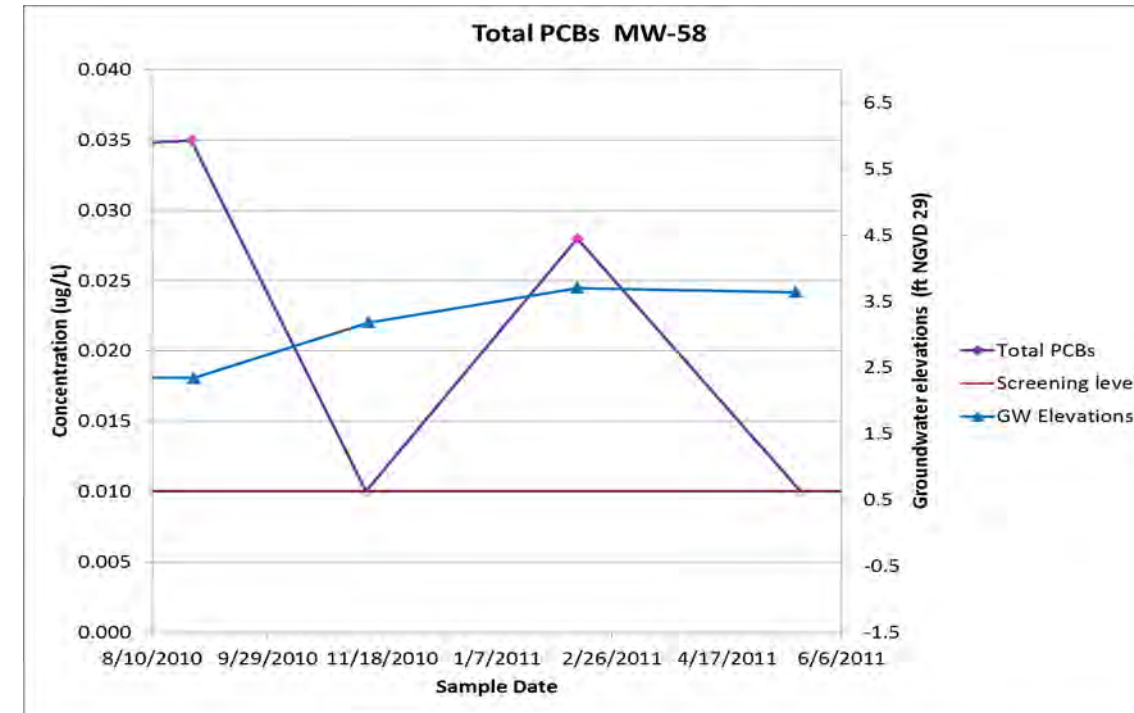
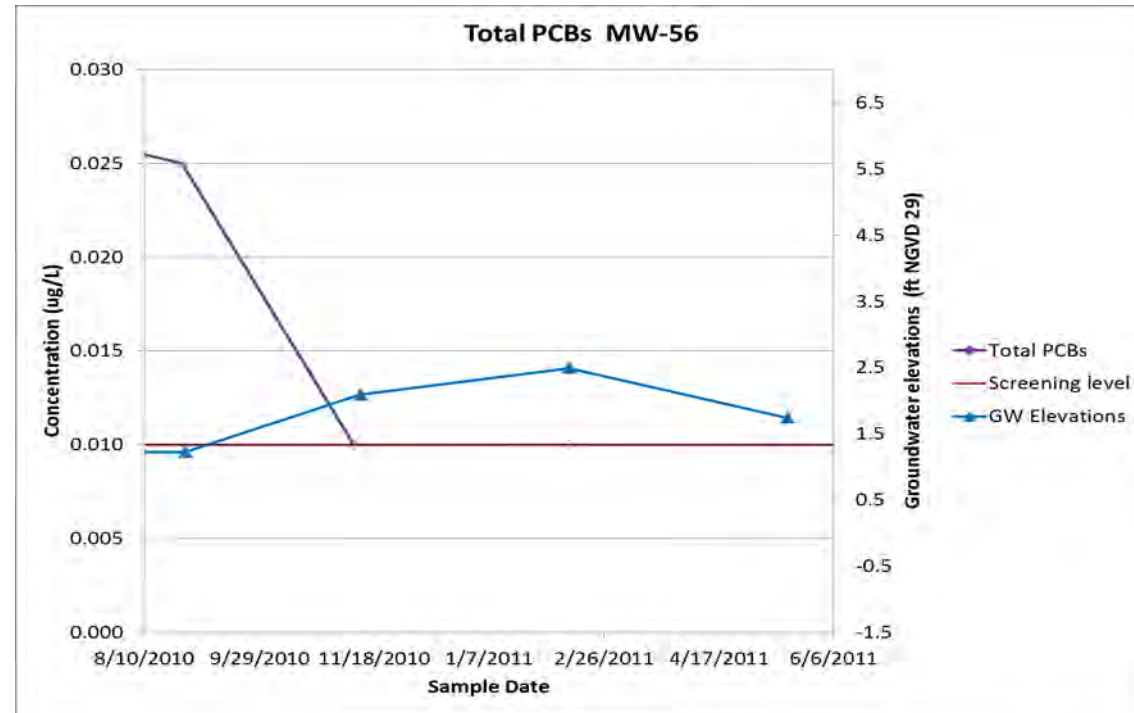
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
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**Manganese and Hydrograph –
Non-Tidally Influenced Wells,
Aug 2010 to May 2011**

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

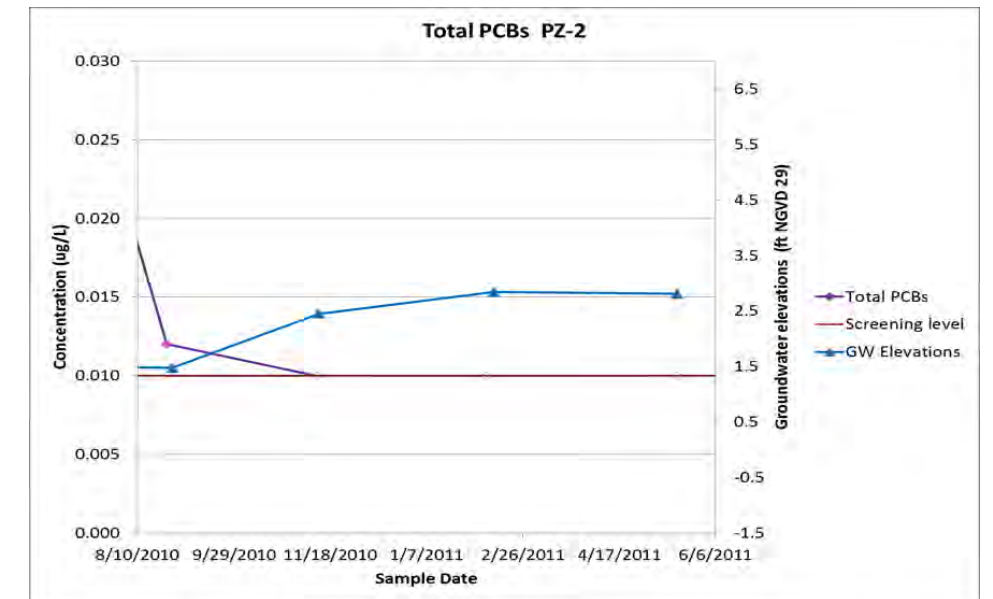
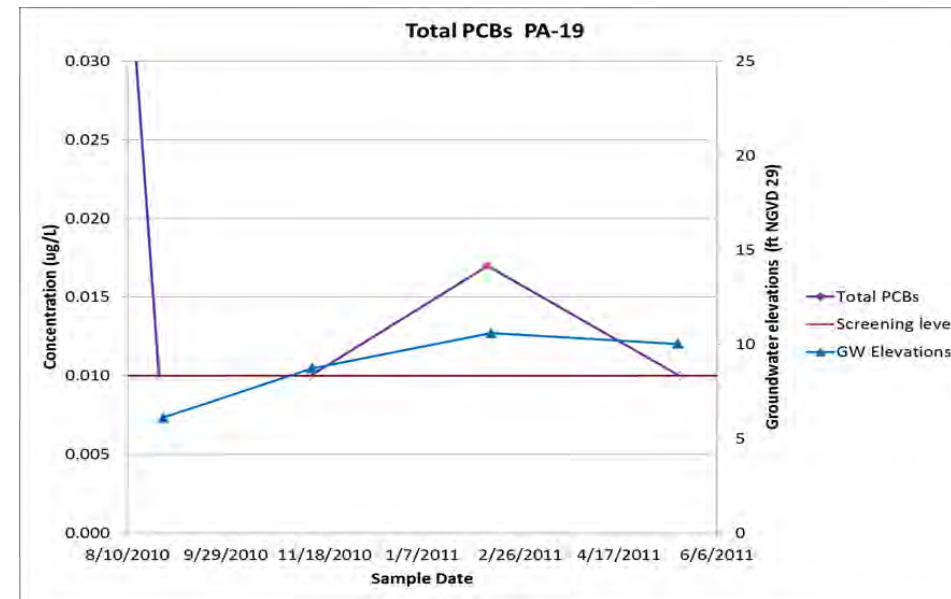
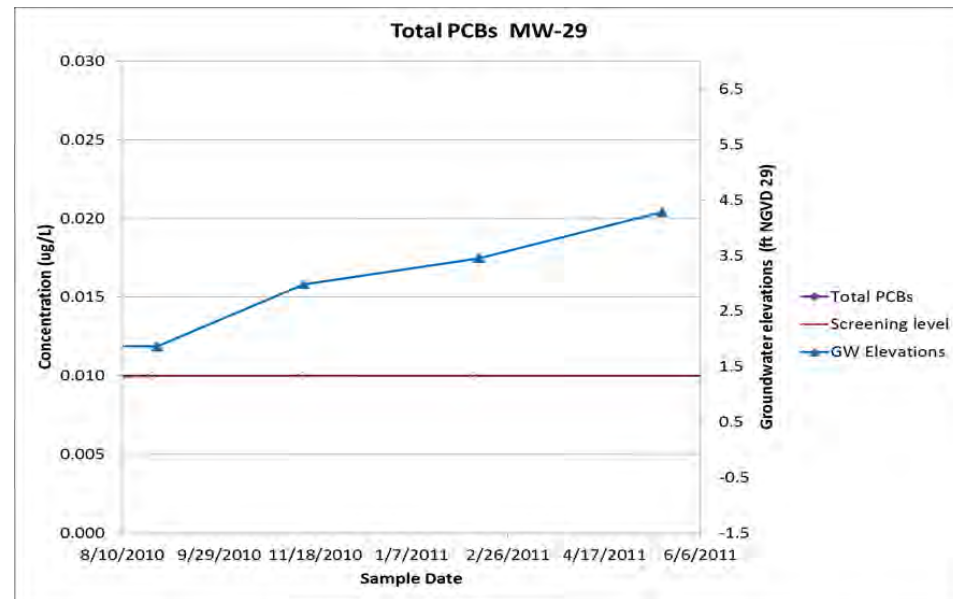
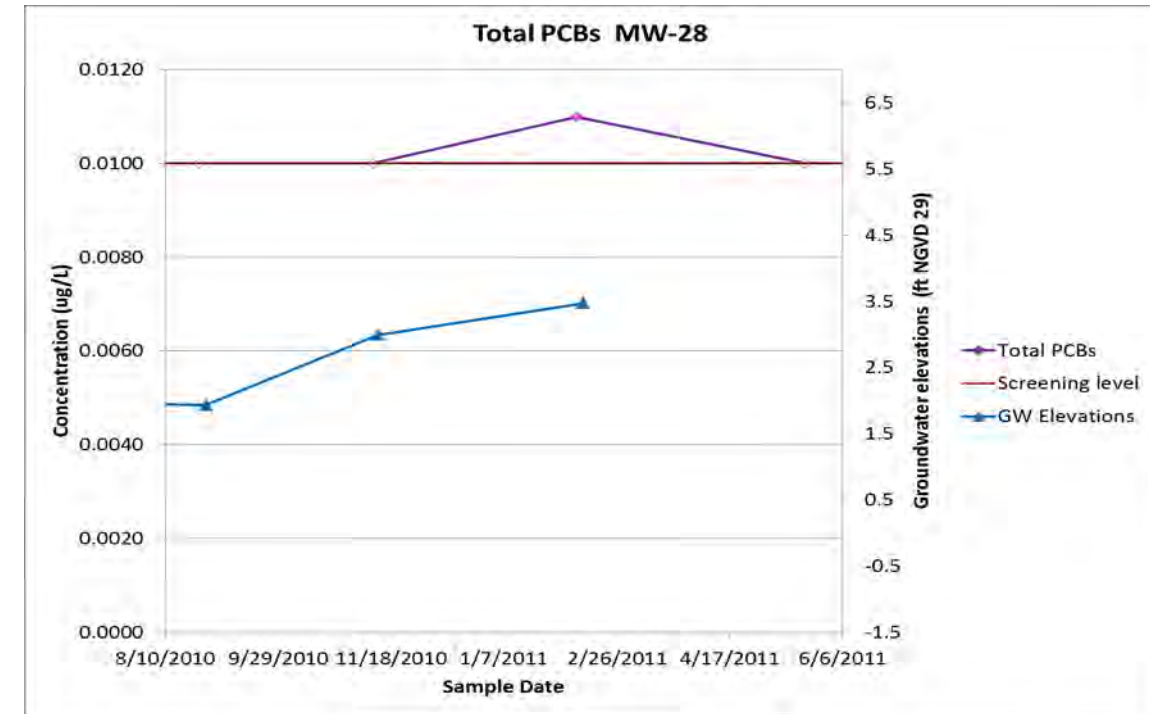
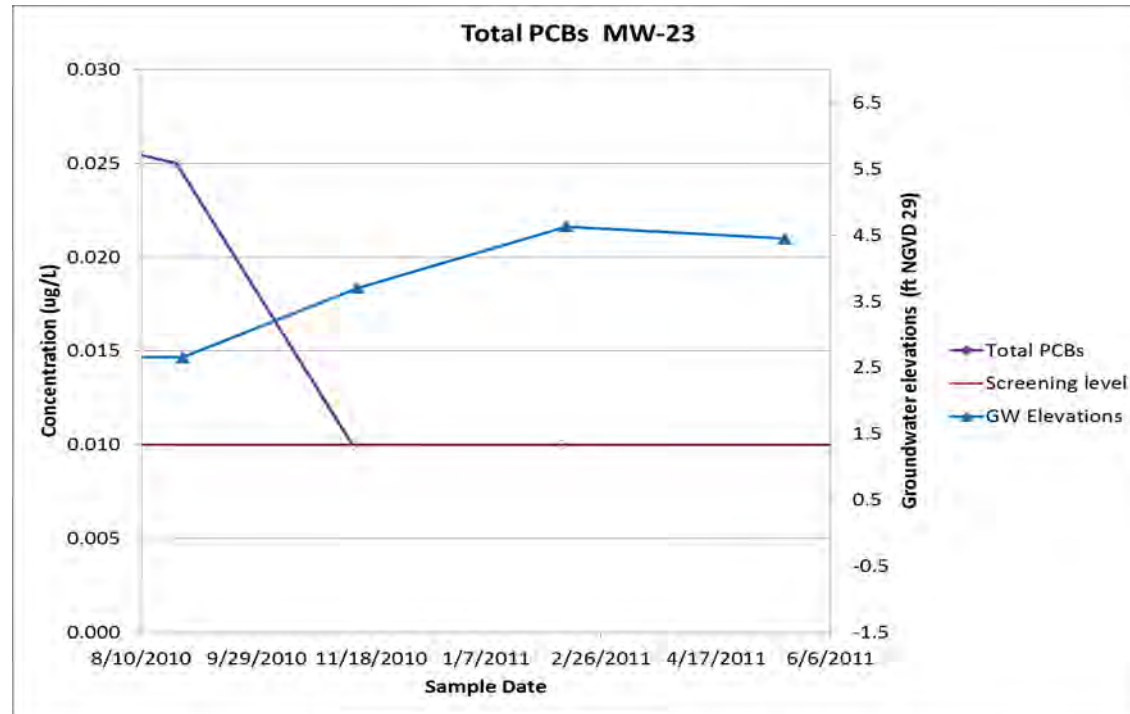
Notes:

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**Total PCBs and Hydrograph –
Tidally Influenced Wells,
Aug 2010 to May 2011**

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

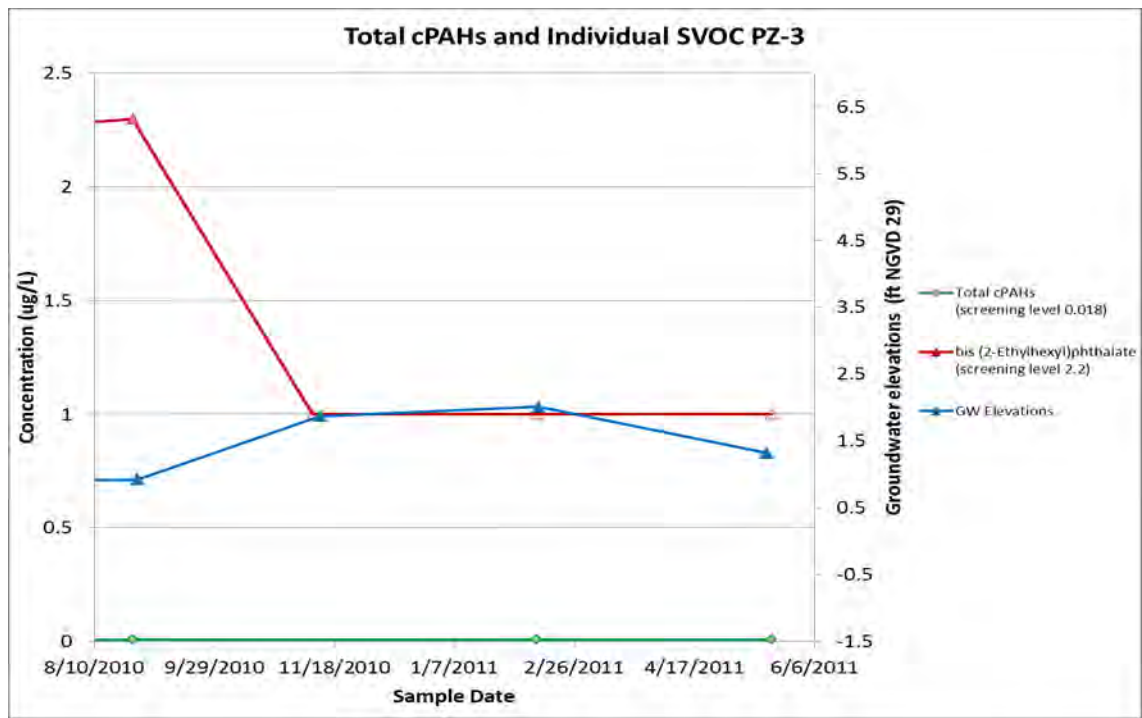
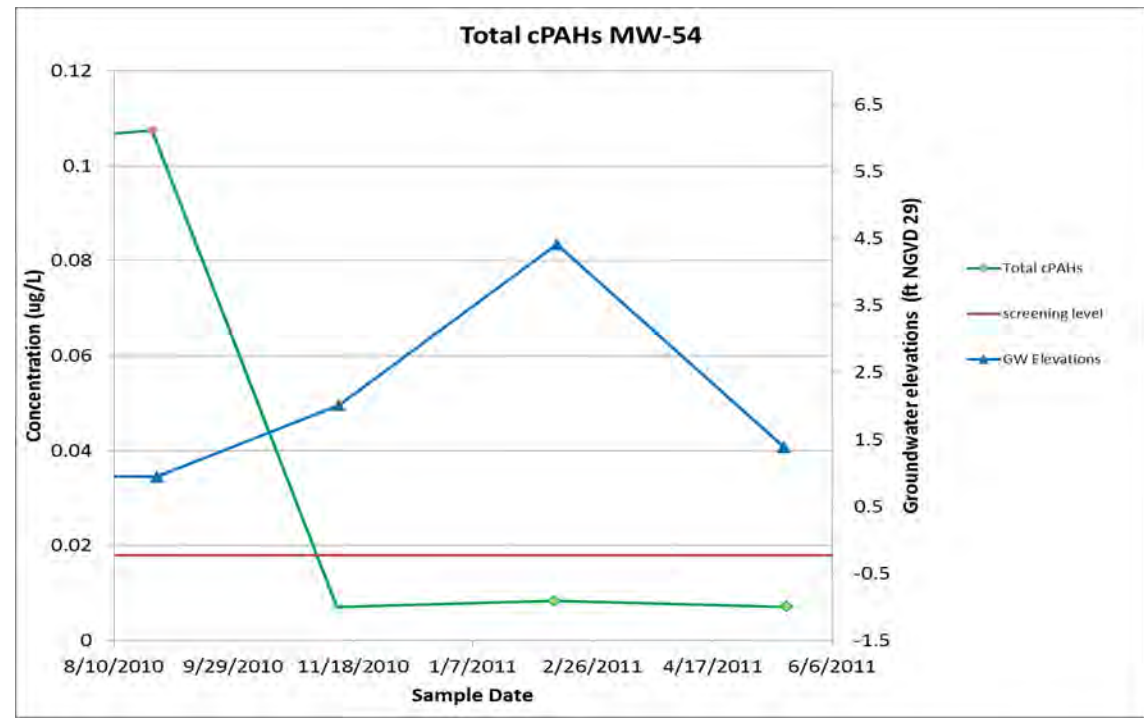
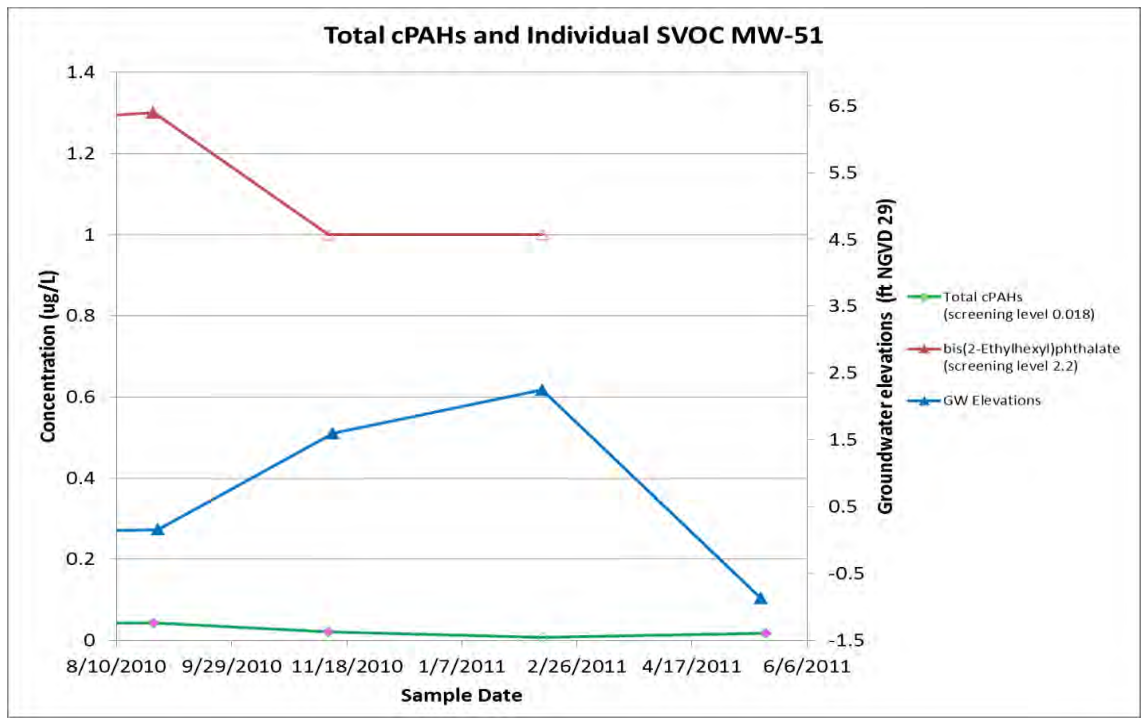
Notes:

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**Total PCBs and Hydrograph –
Non-Tidally Influenced Wells,
Aug 2010 to May 2011**

Port Angeles Rayonier Mill
Port Angeles, Washington





Total cPAHs and Individual SVOCs and Hydrograph – Non-Tidally Influenced Wells, Aug 2010 to May 2011

Port Angeles Rayonier Mill
Port Angeles, Washington

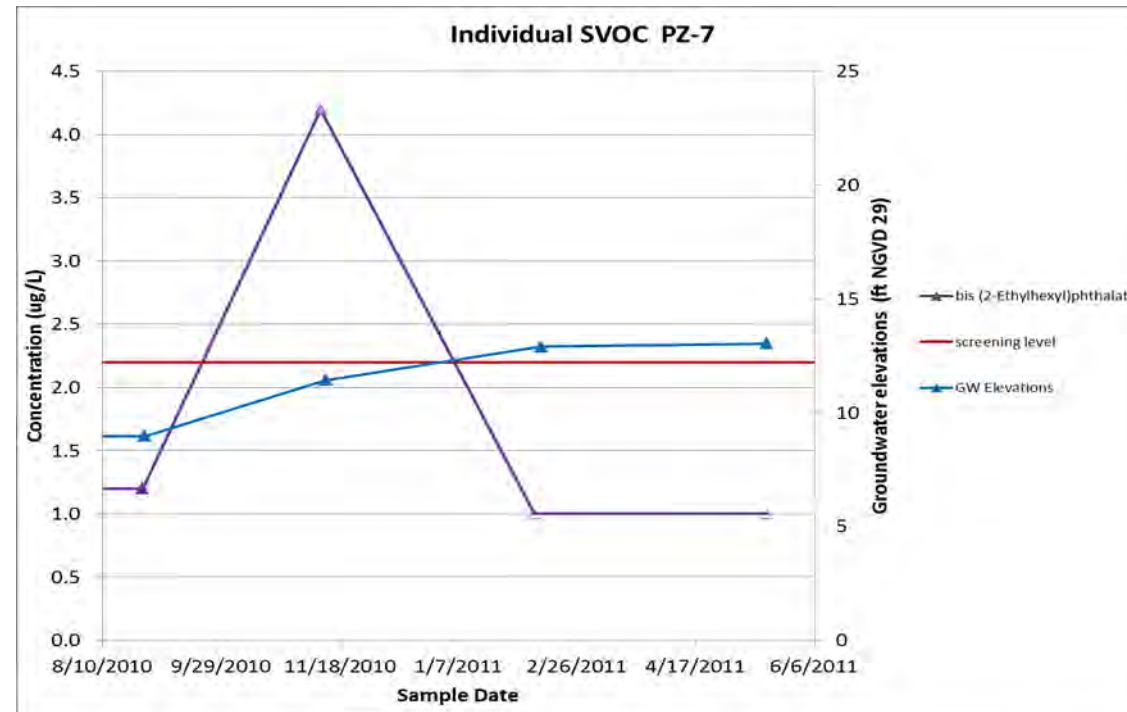
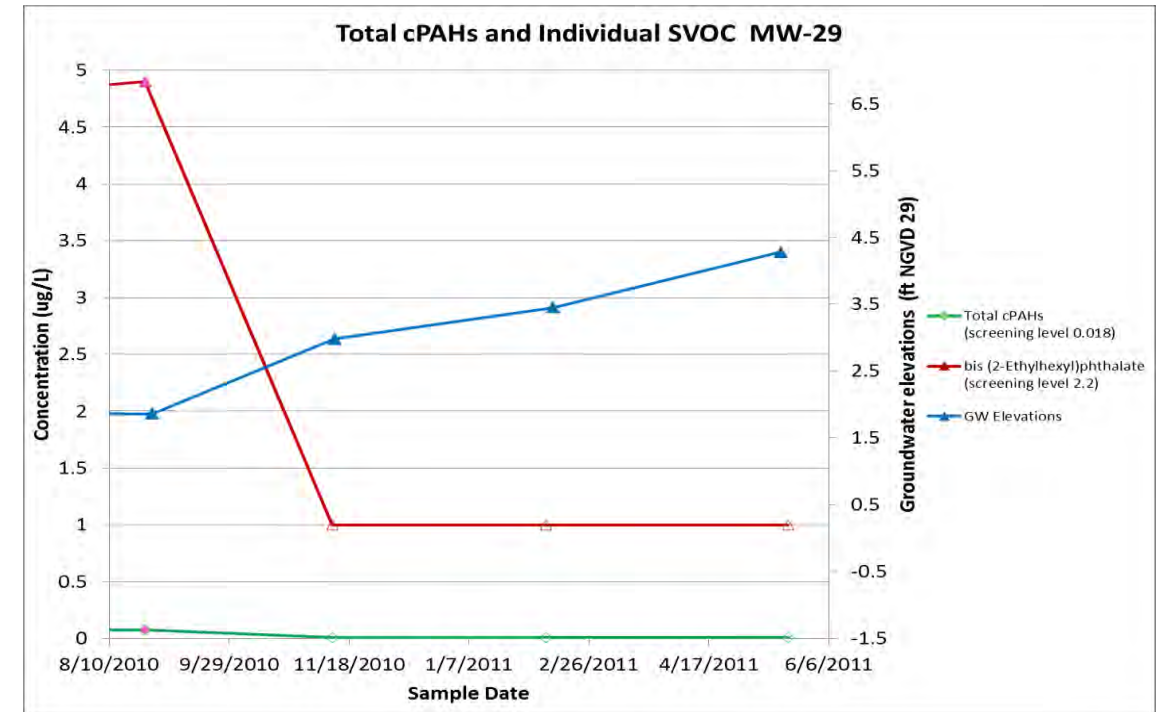
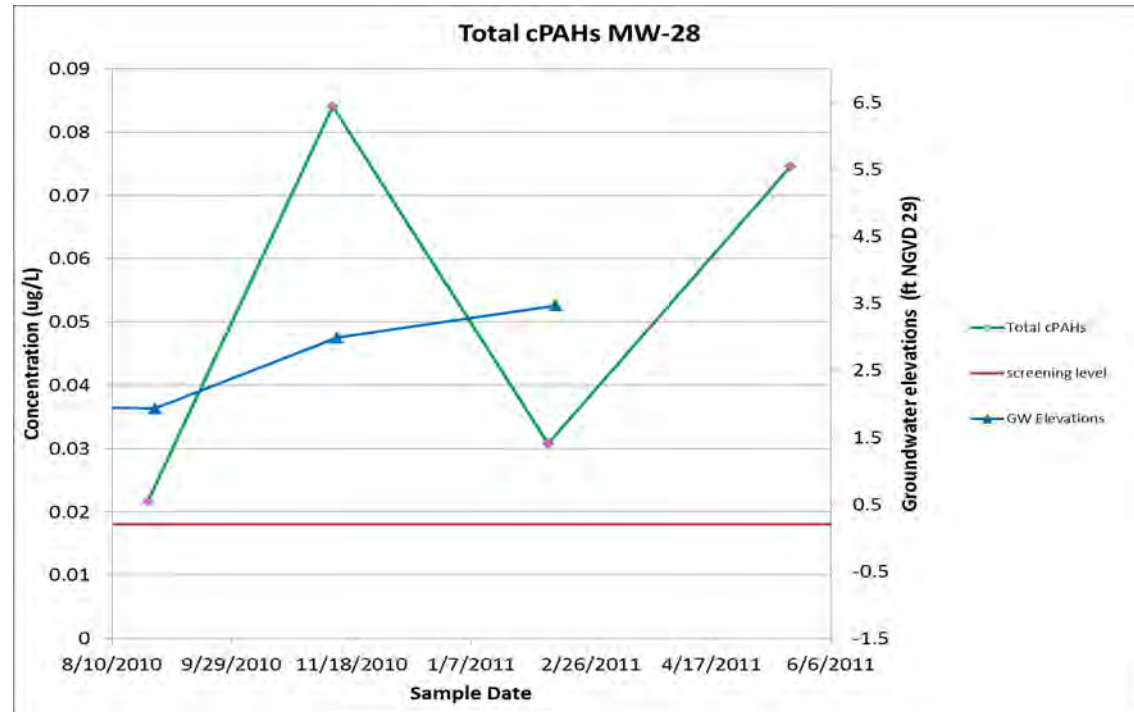


Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

- Only individual SVOCs with at least one screening level exceedance are shown in this figure.
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Legend

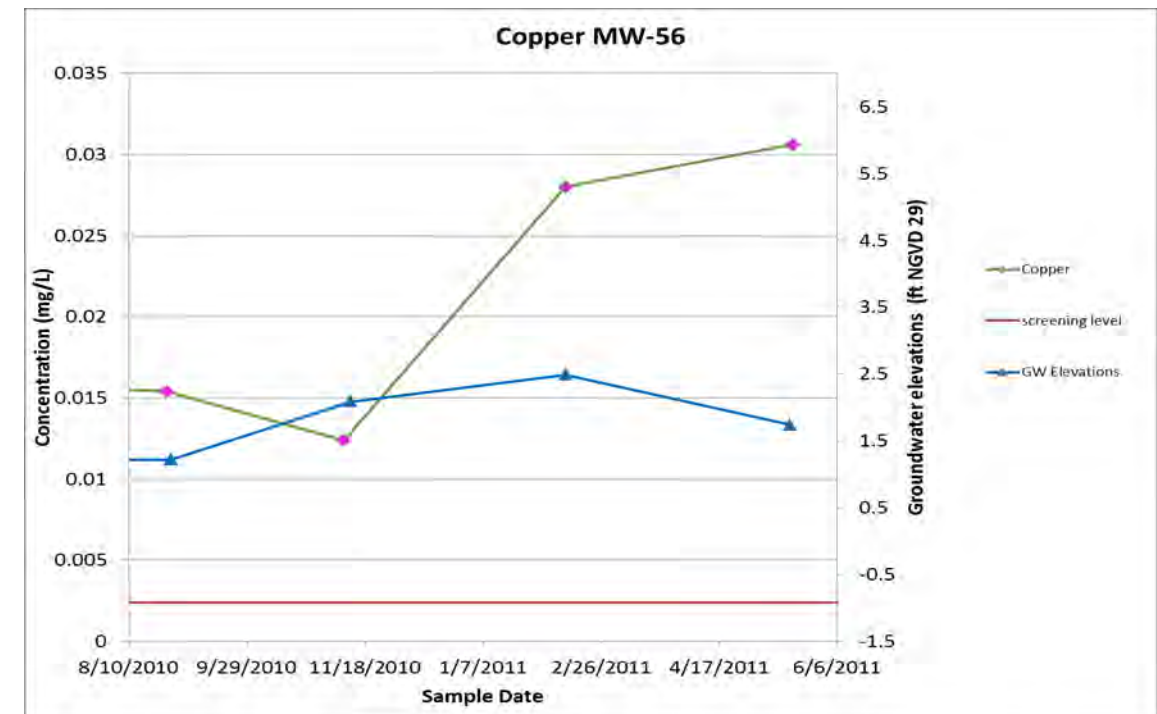
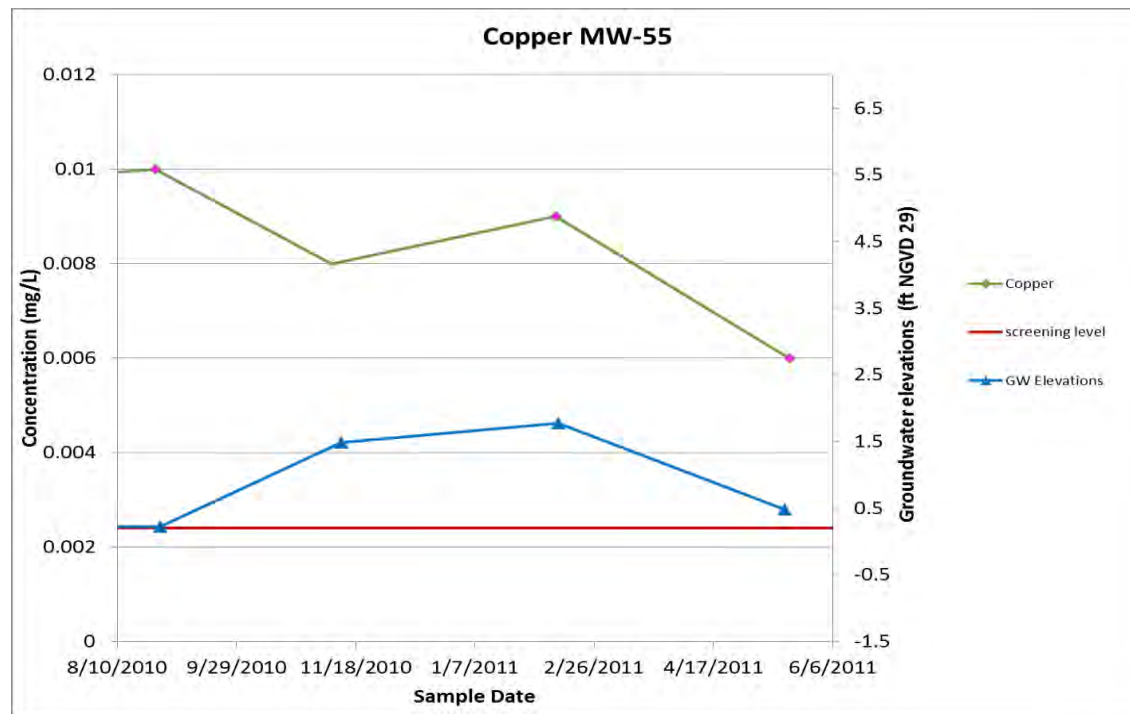
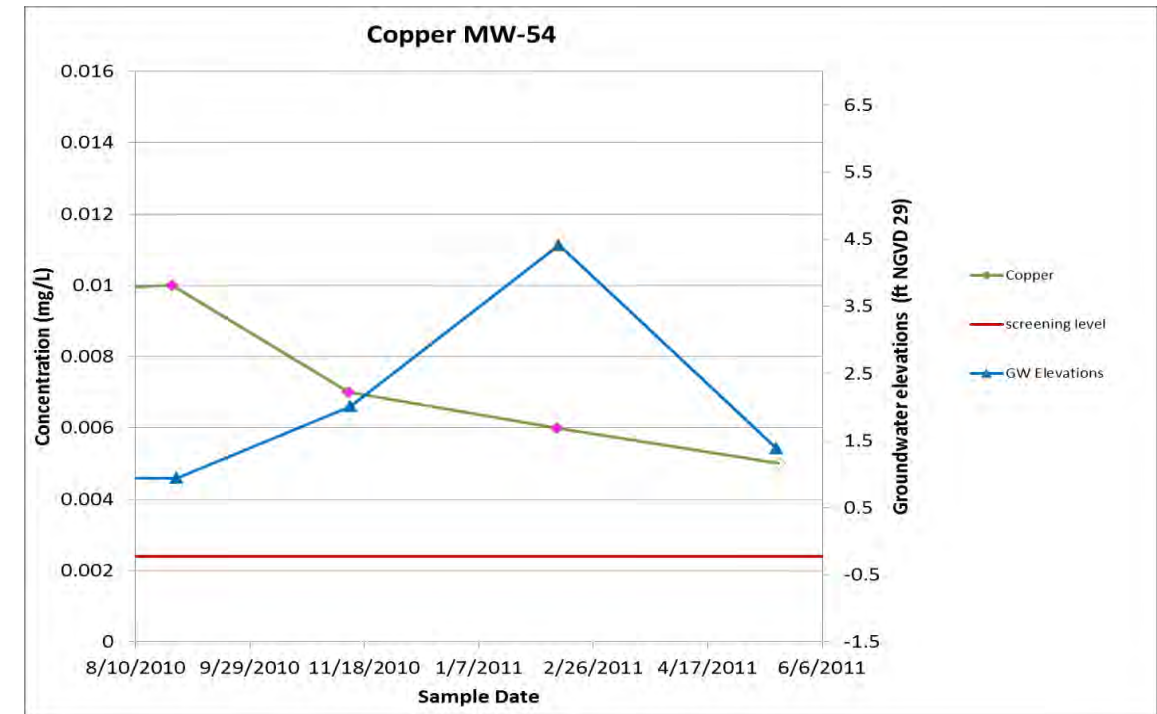
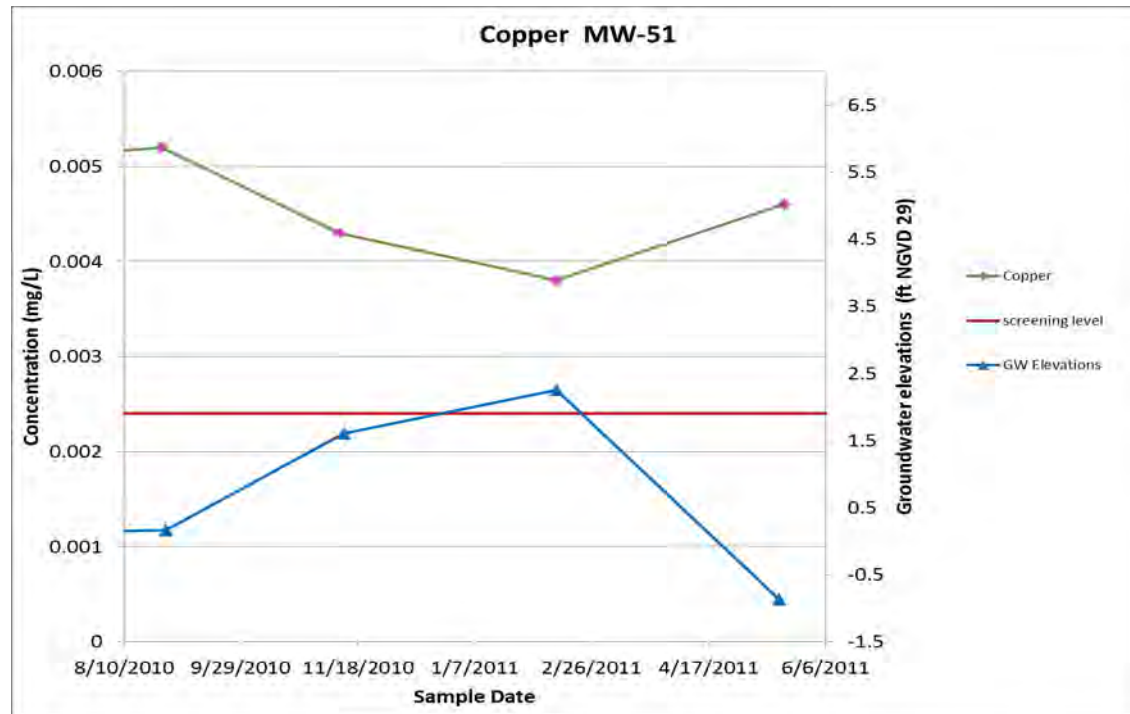
- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

1. Only individual SVOCs with at least one screening level exceedance are shown in this figure.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

**Total cPAHs and Individual SVOCs
and Hydrograph –
Non-Tidally Influenced Wells,
Aug 2010 to May 2011**

Port Angeles Rayonier Mill
Port Angeles, Washington



Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

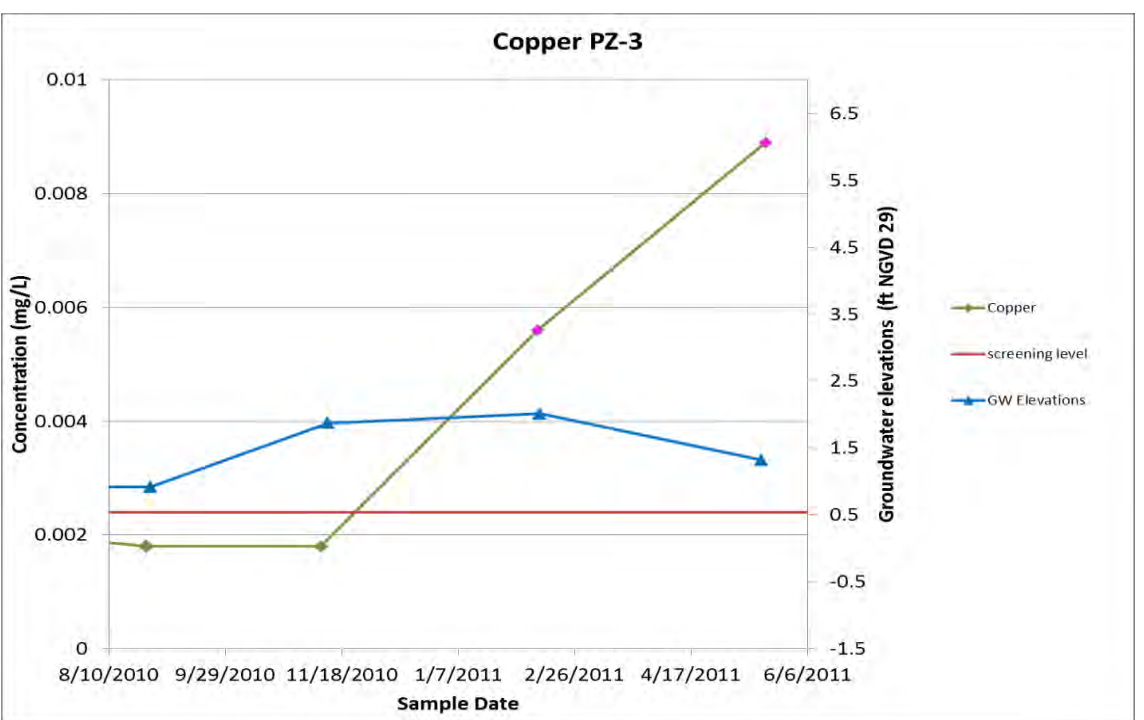
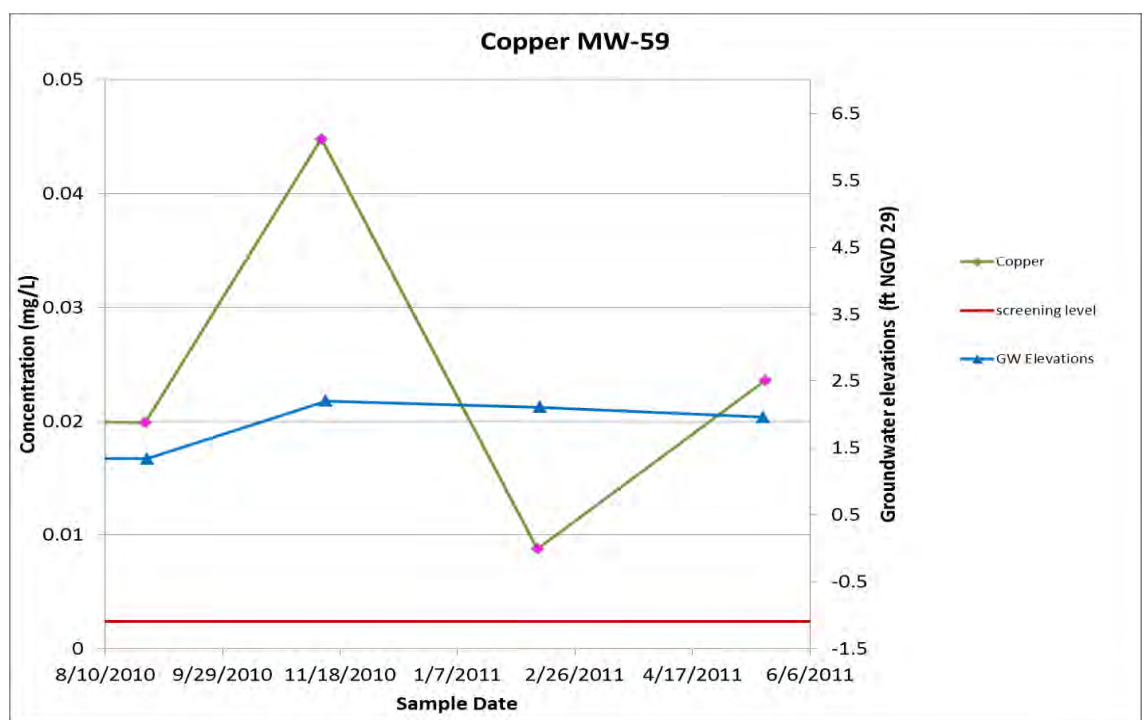
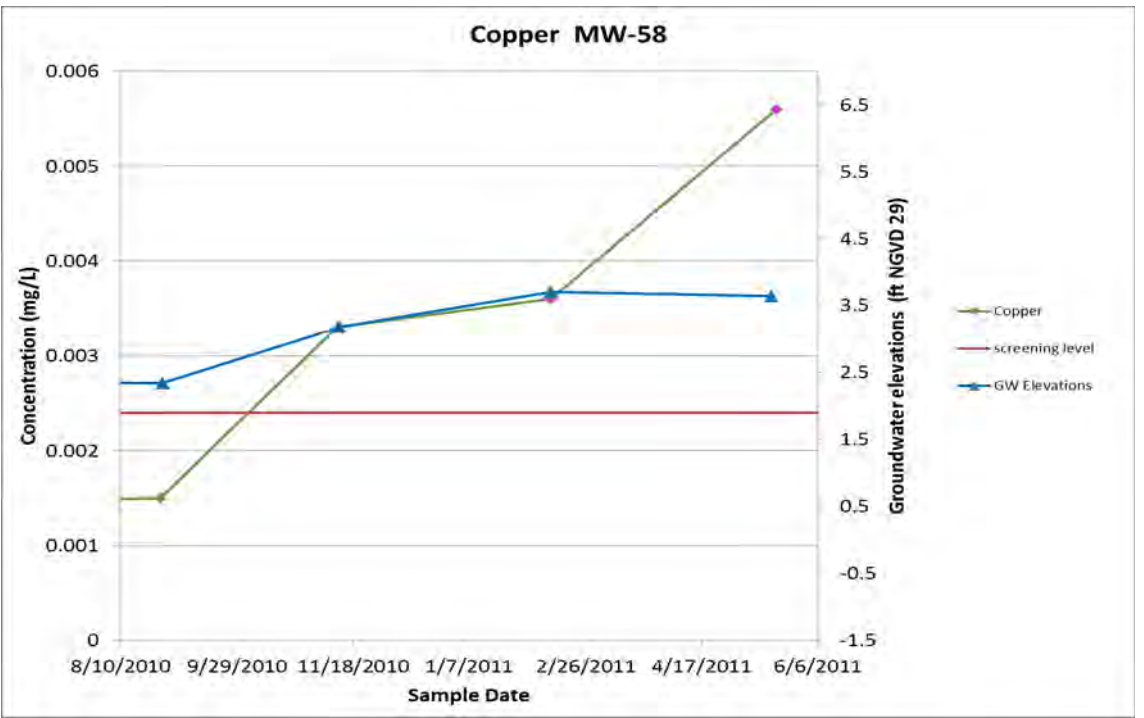
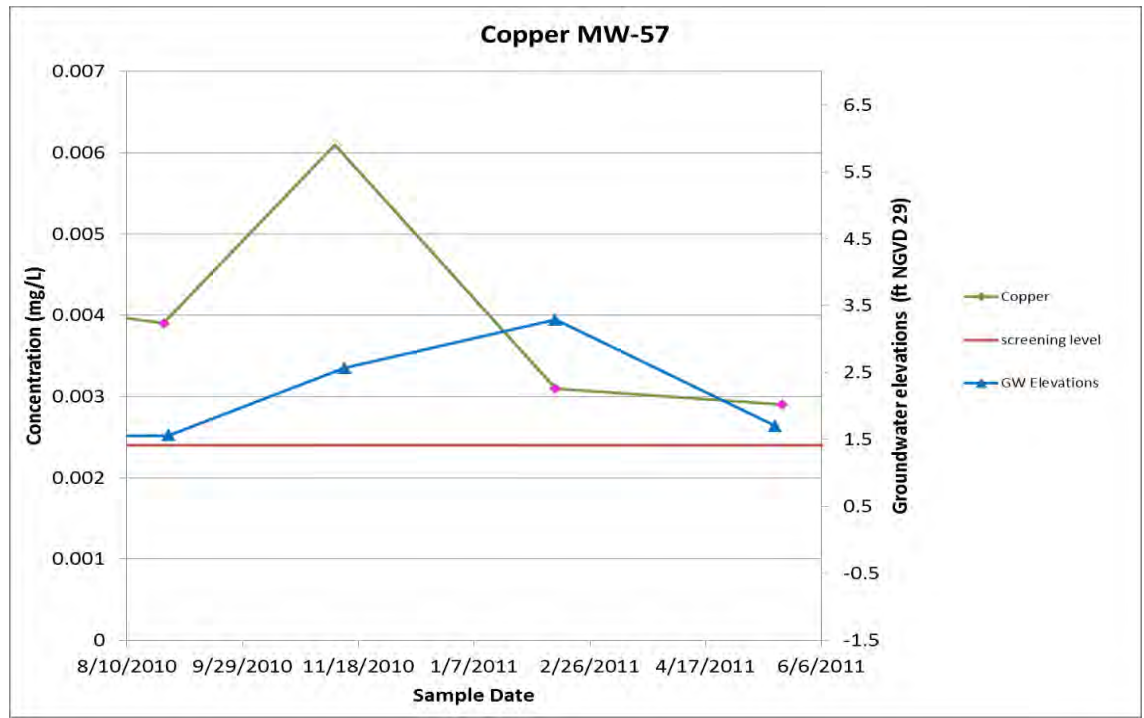
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Copper and Hydrograph – Tidally Influenced Wells, Aug 2010 to May 2011

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

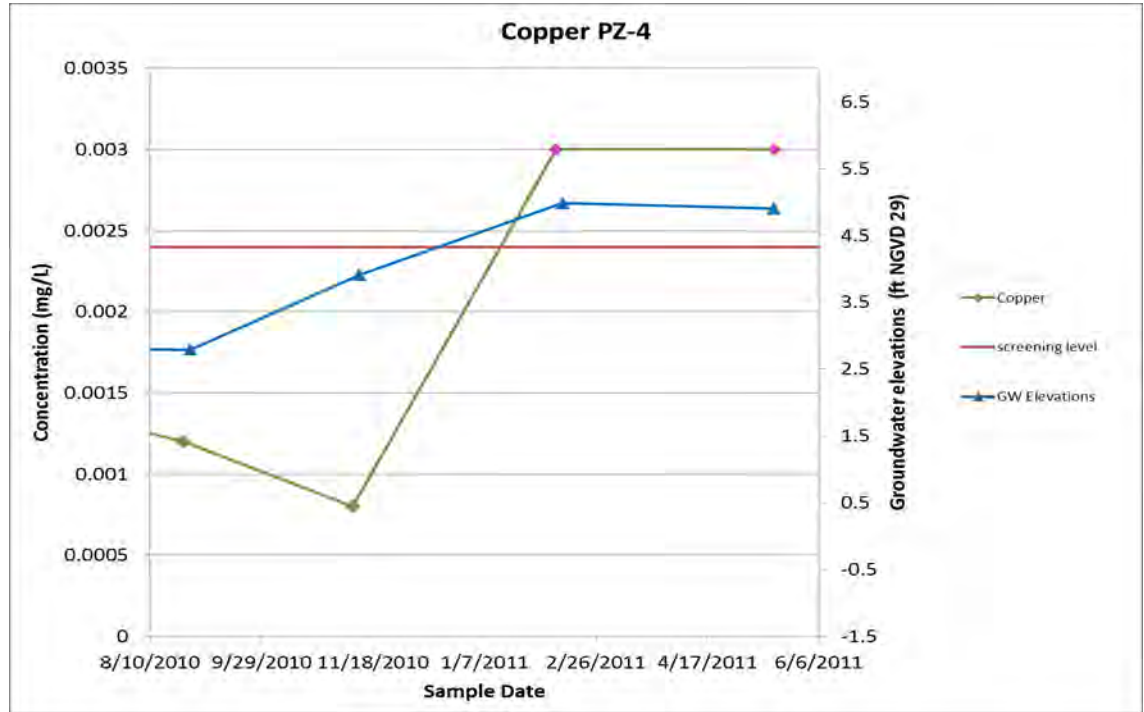
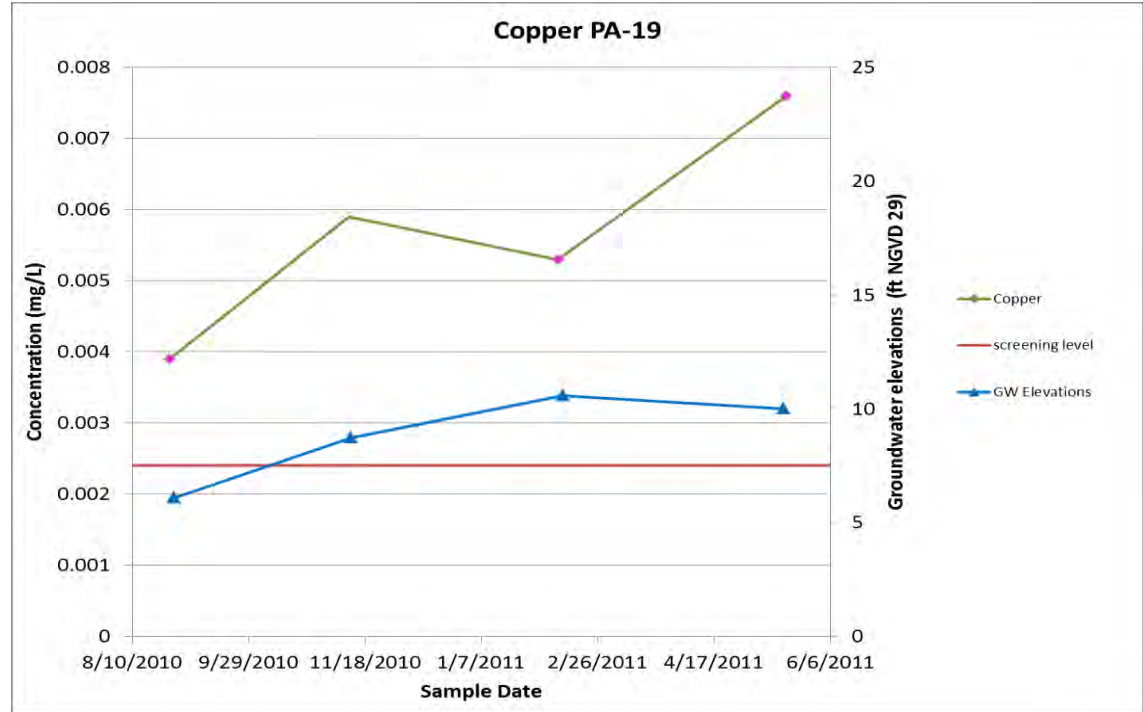
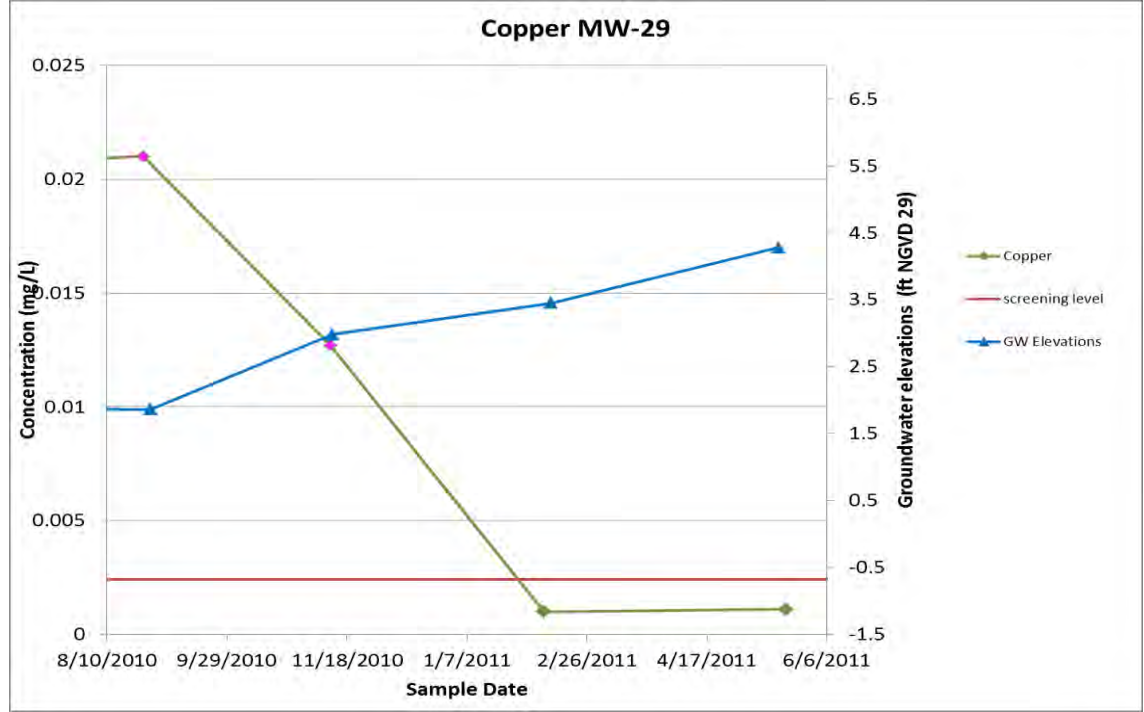
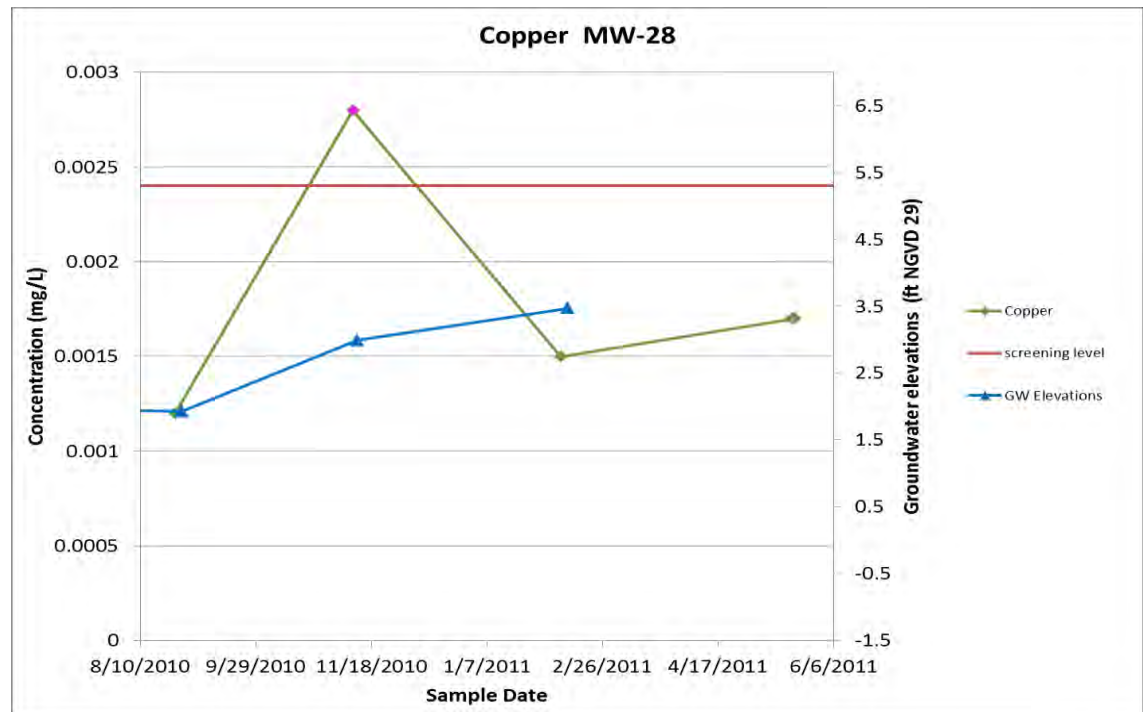
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
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Copper and Hydrograph – Tidally Influenced Wells, Aug 2010 to May 2011

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

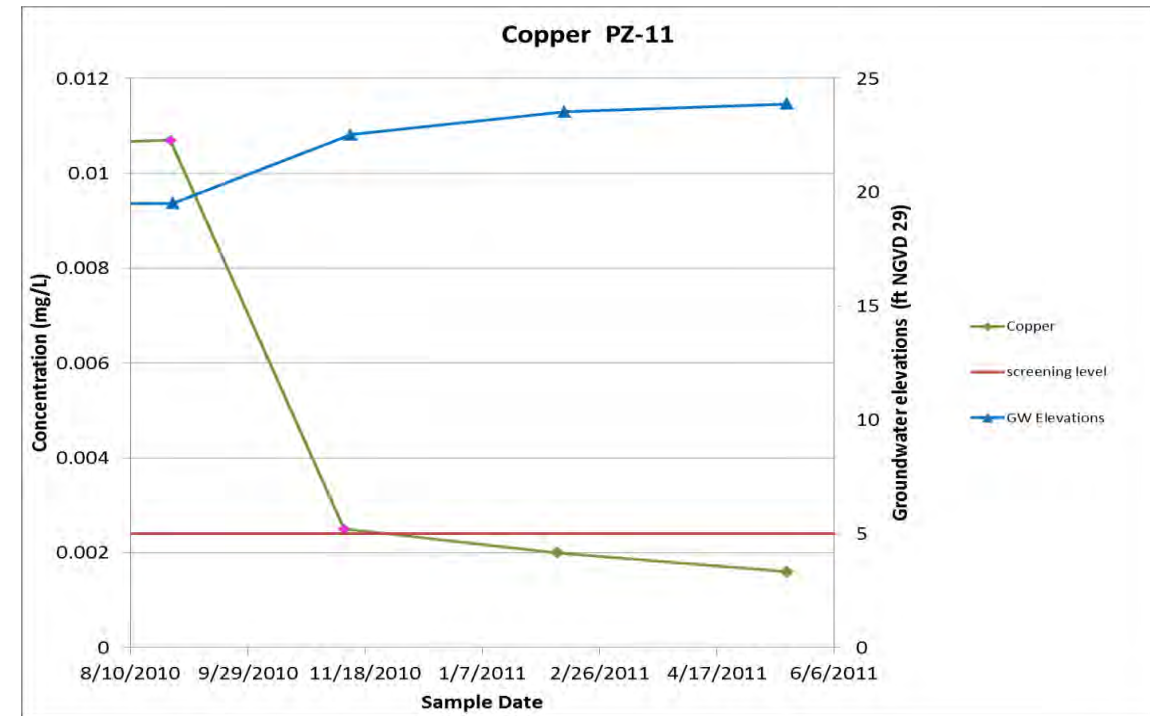
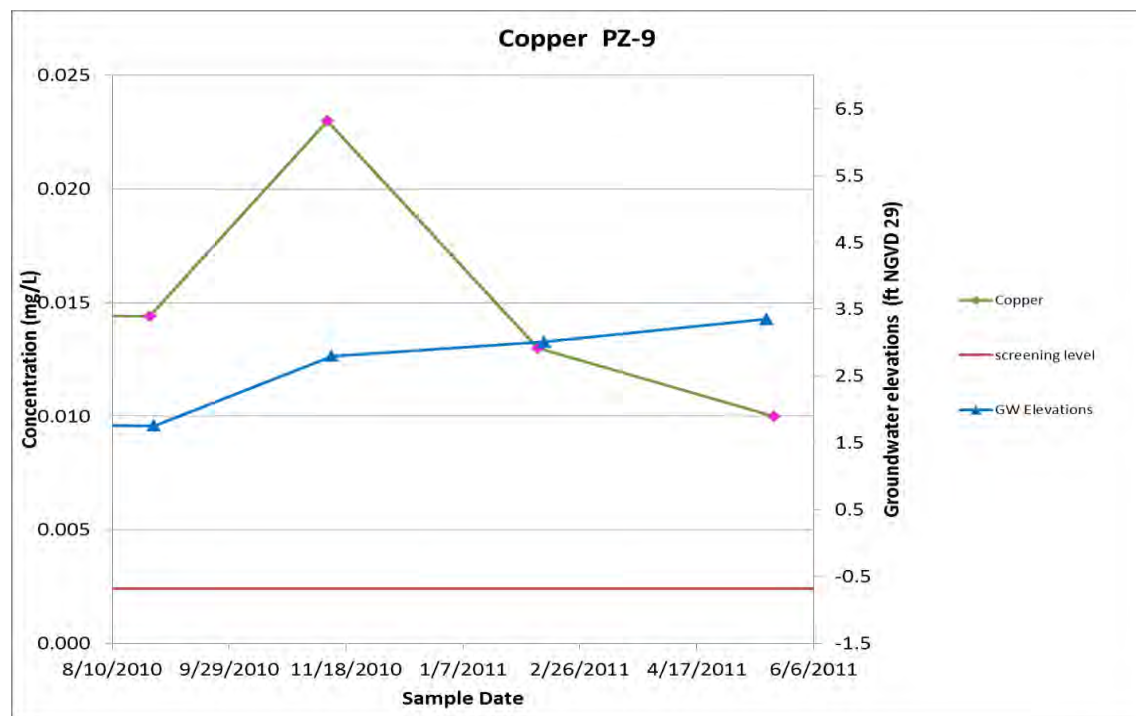
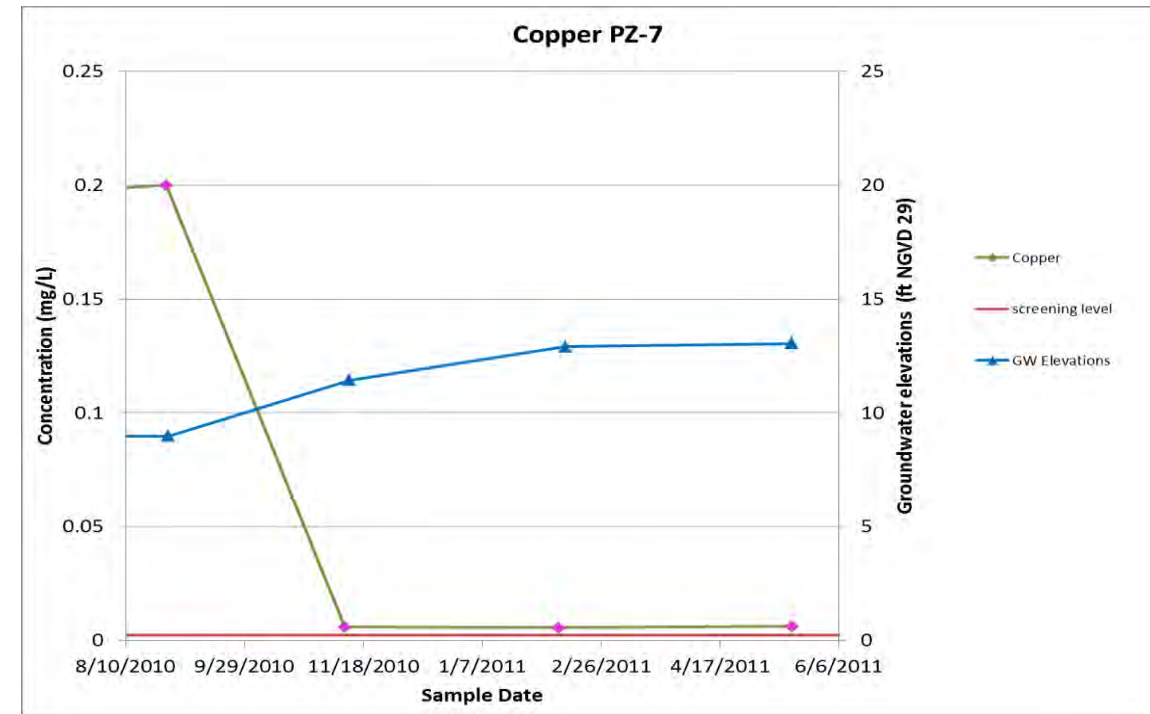
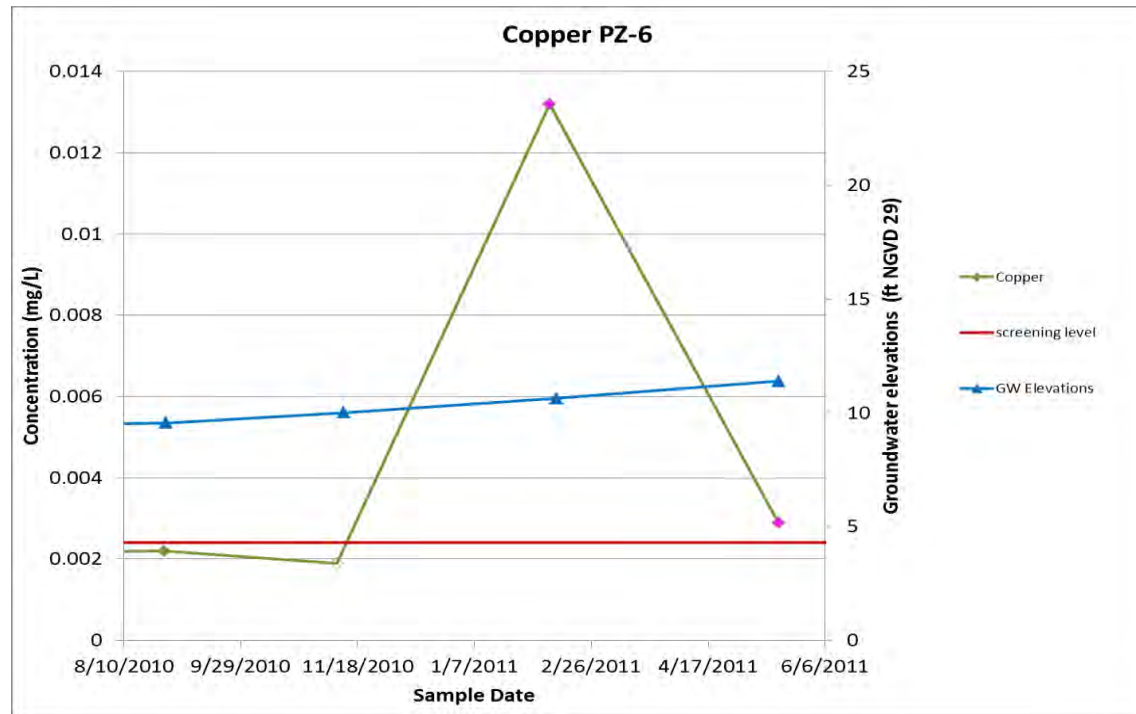
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

**Copper and Hydrograph –
Non-Tidally Influenced Wells,
Aug 2010 to May 2011**

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

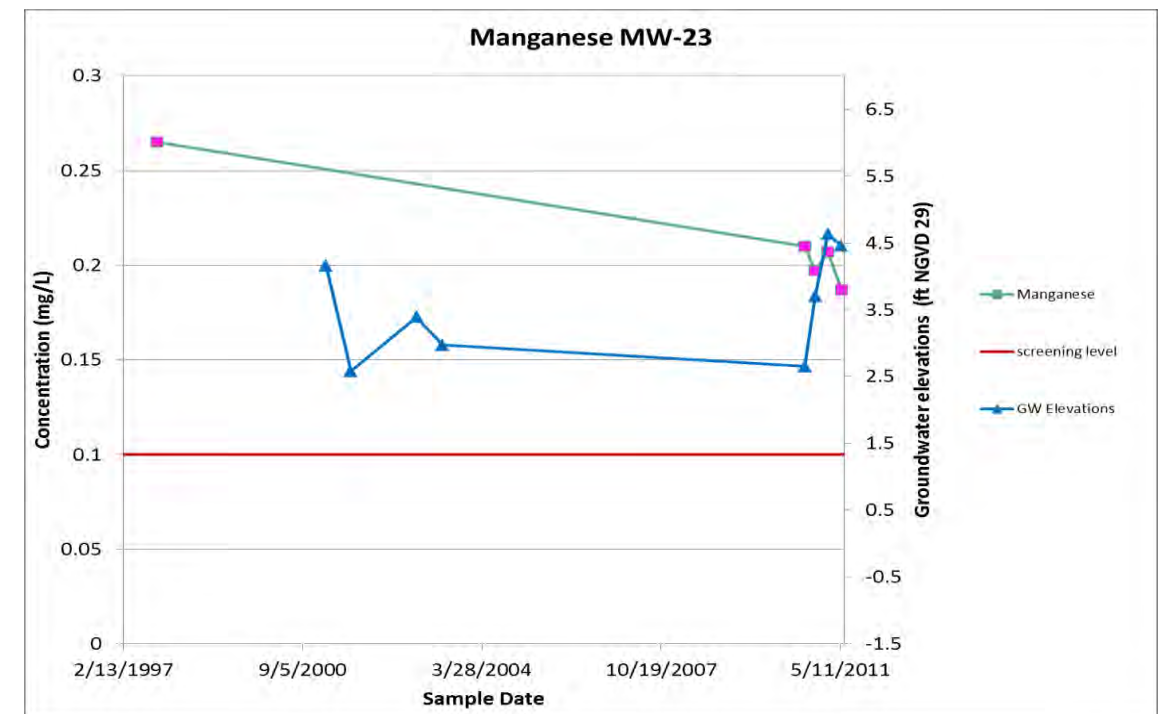
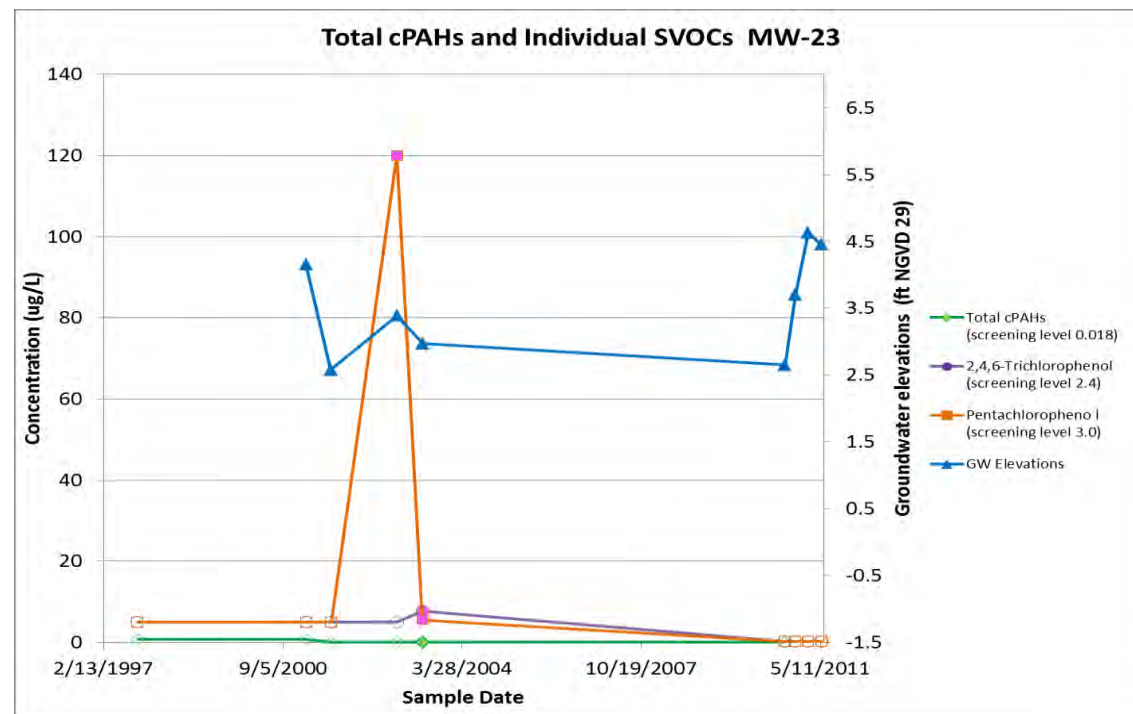
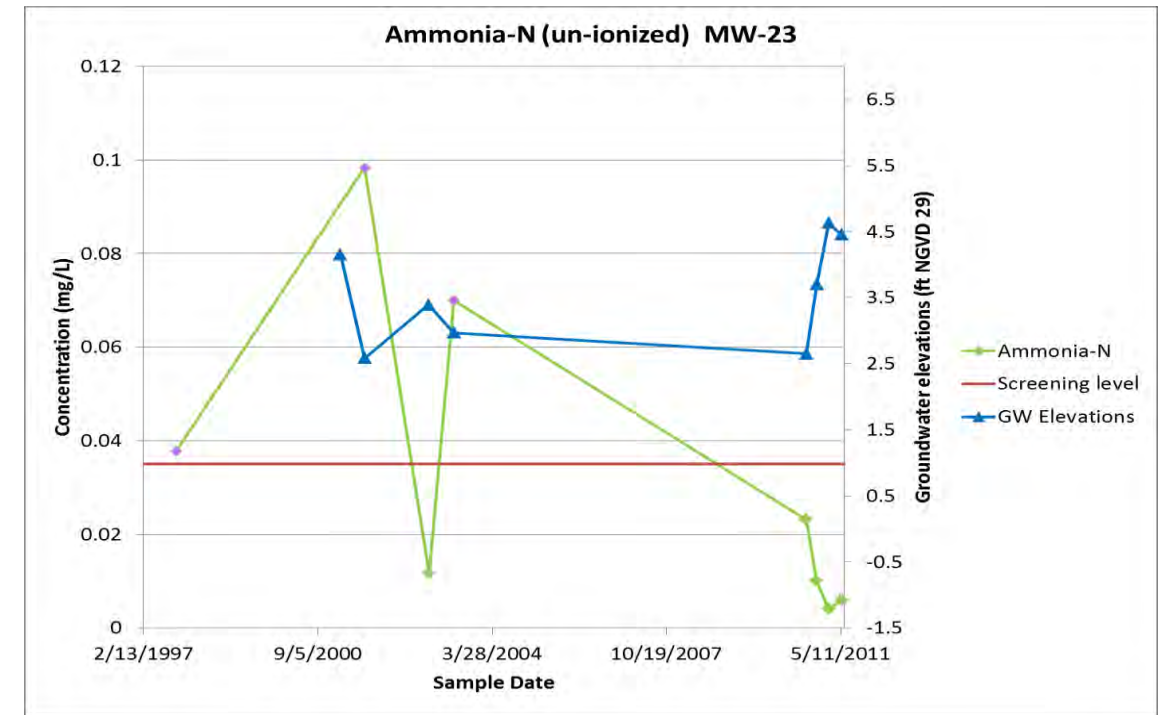
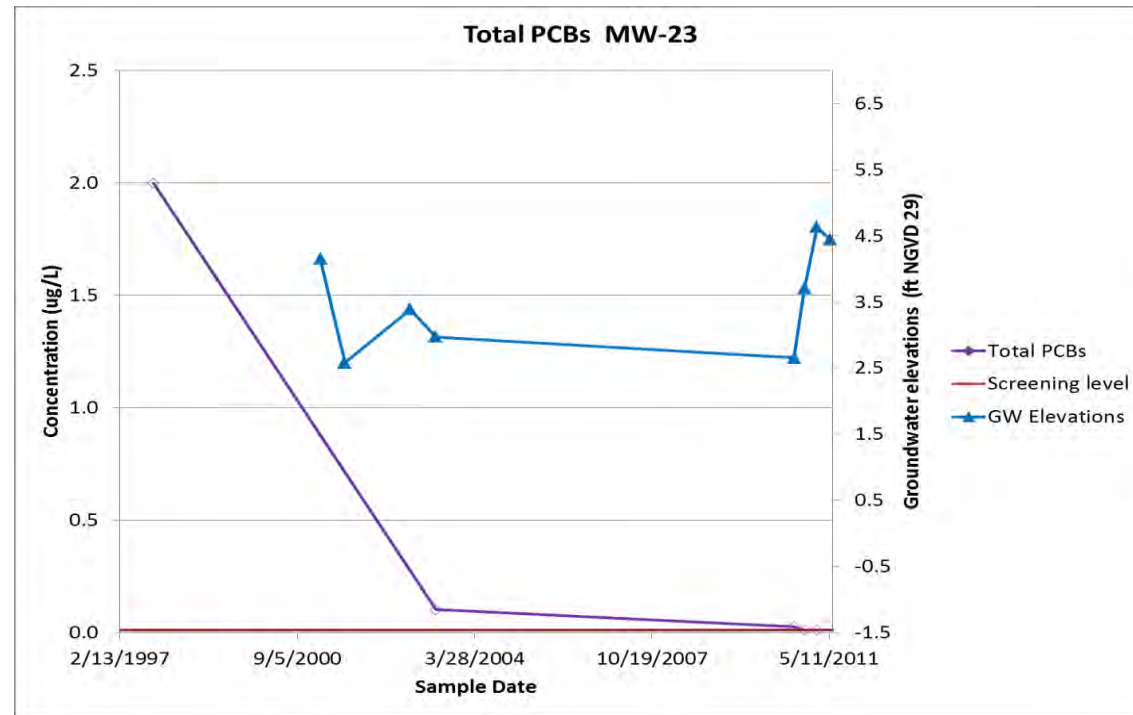
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

**Copper and Hydrograph –
Non-Tidally Influenced Wells,
Aug 2010 to May 2011**

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

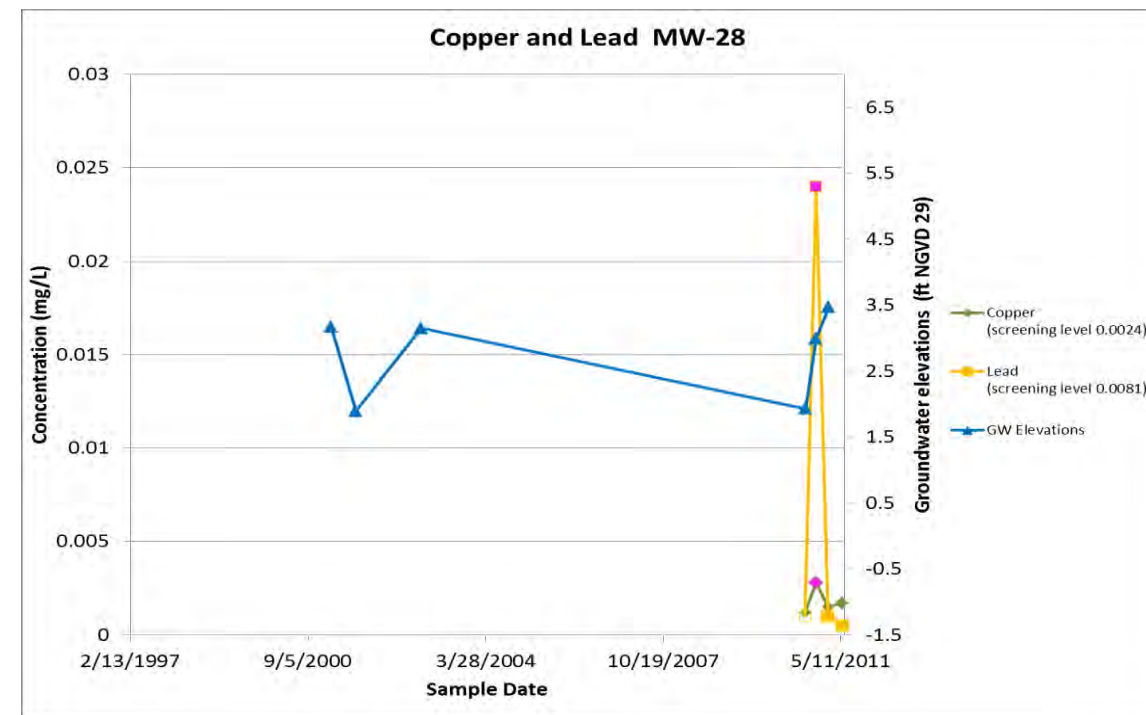
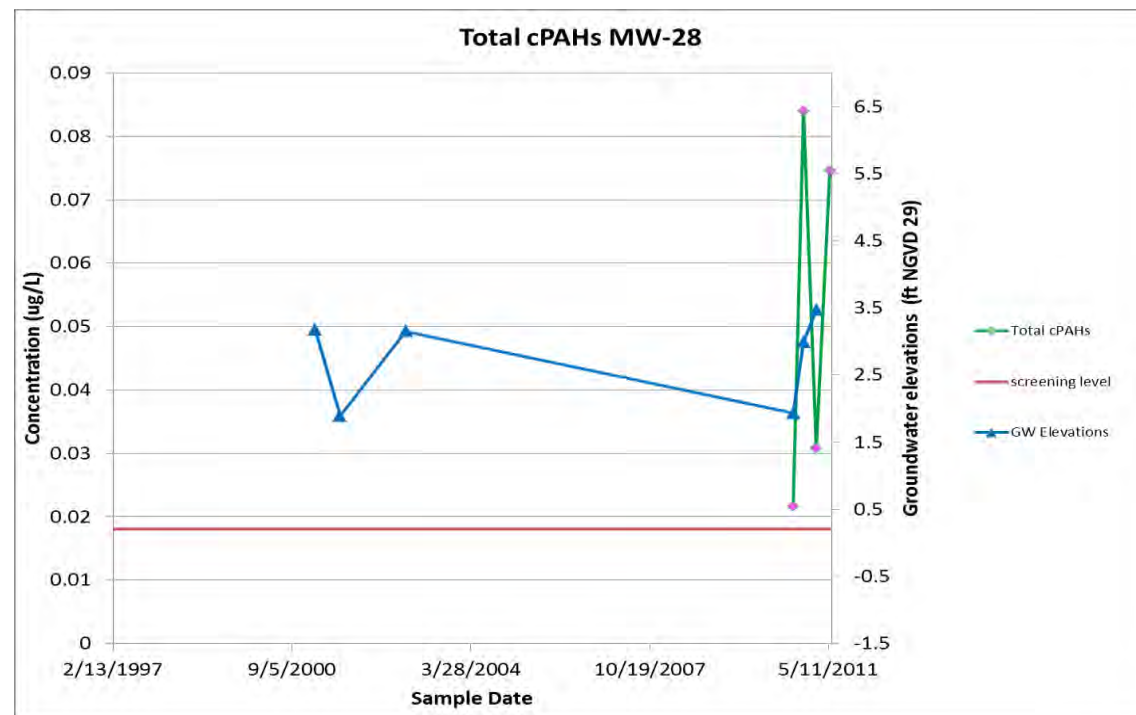
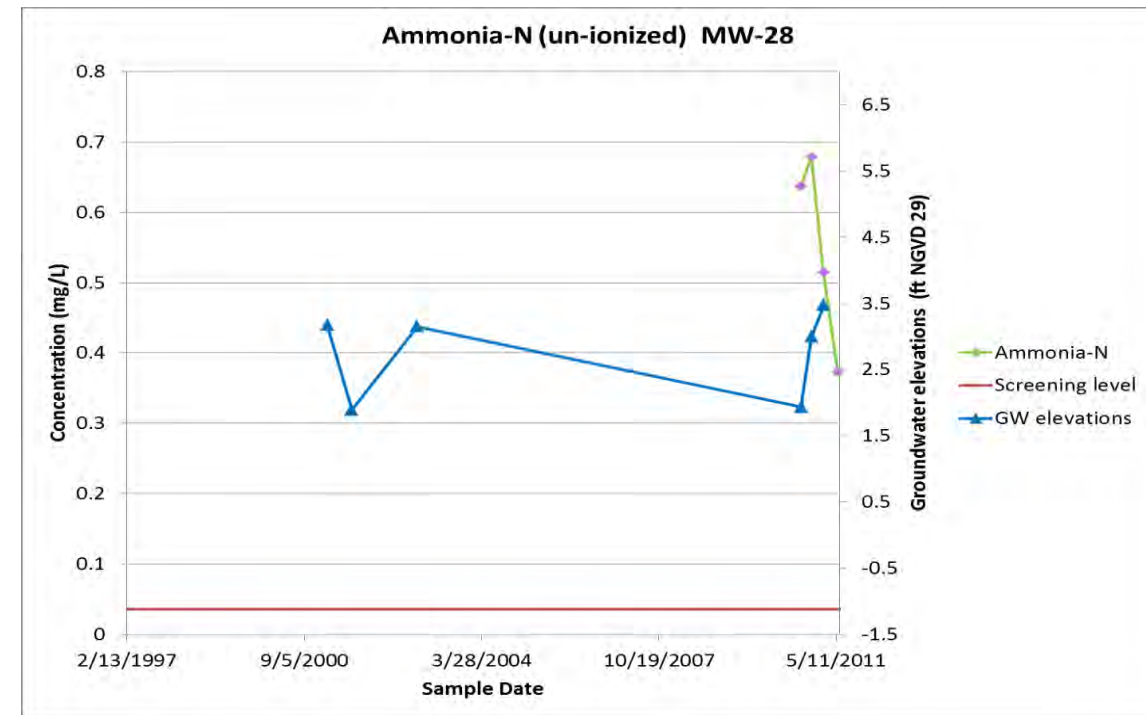
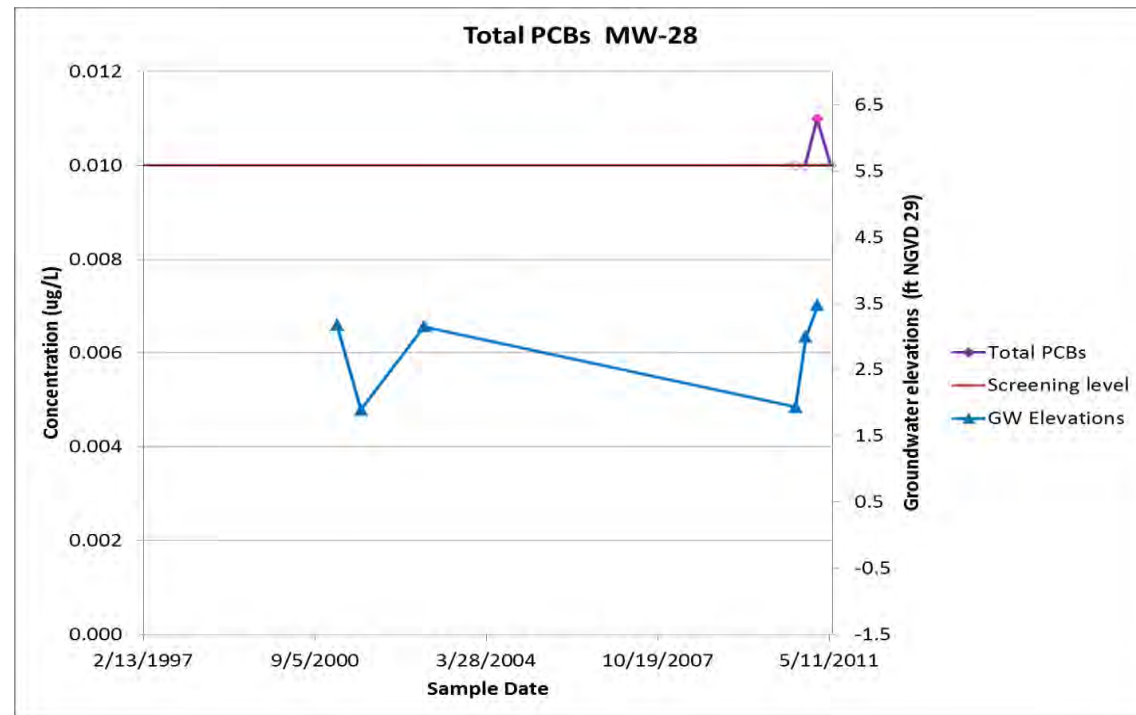
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph (MW 23)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

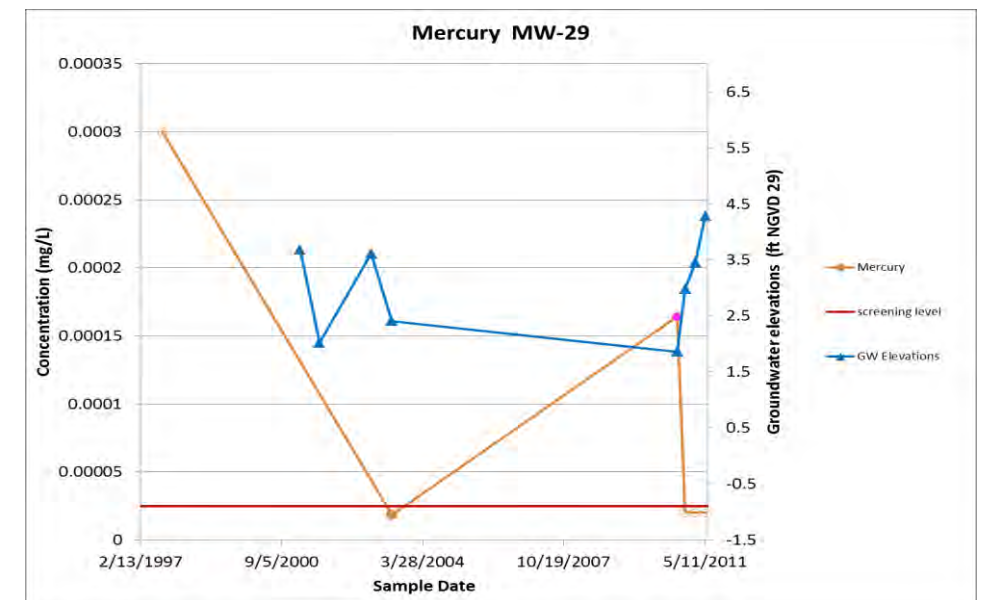
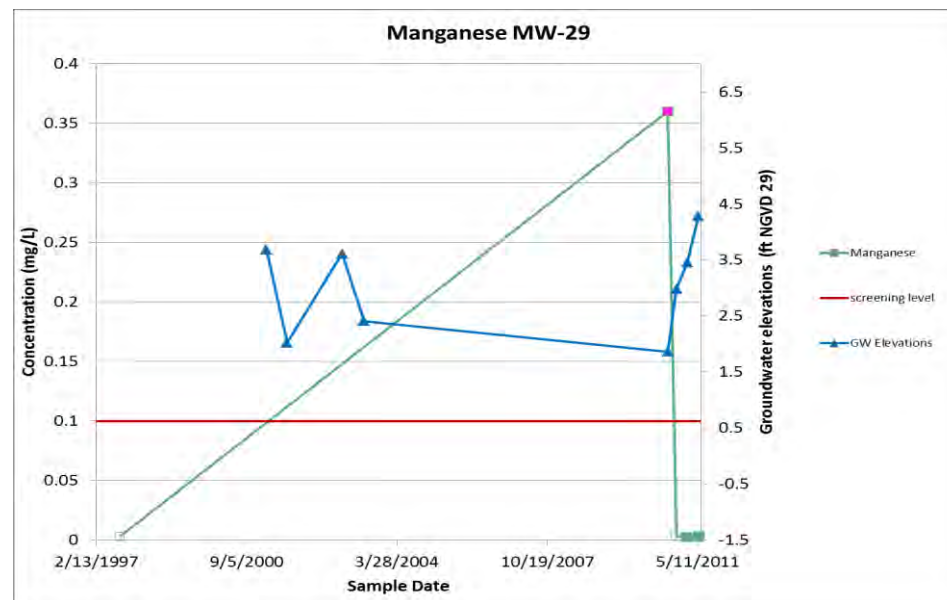
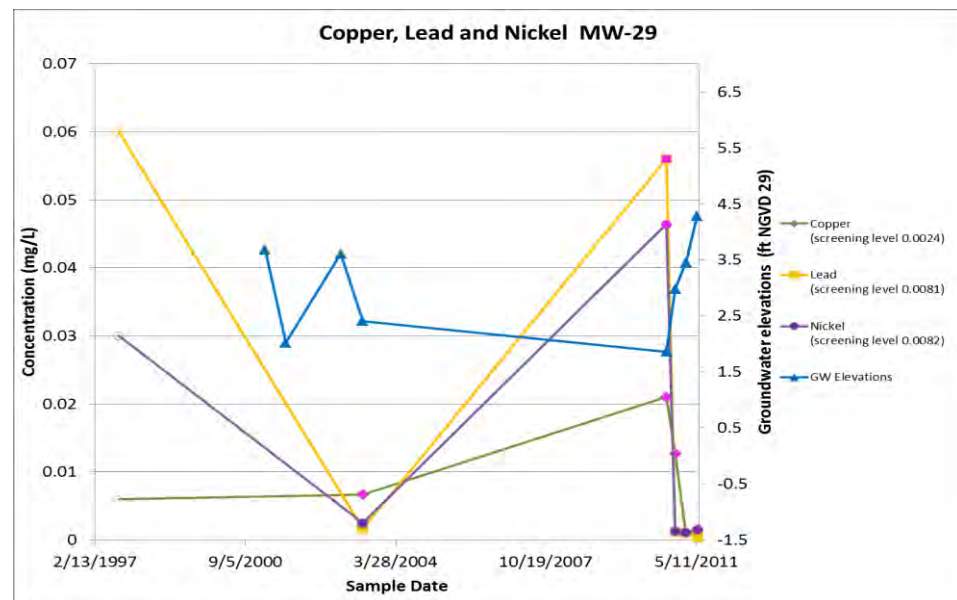
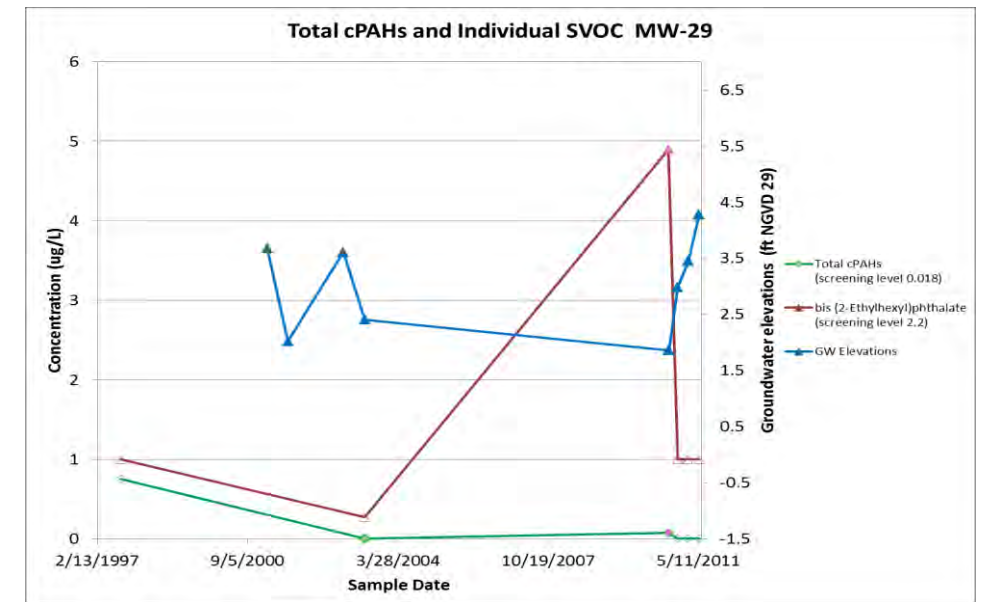
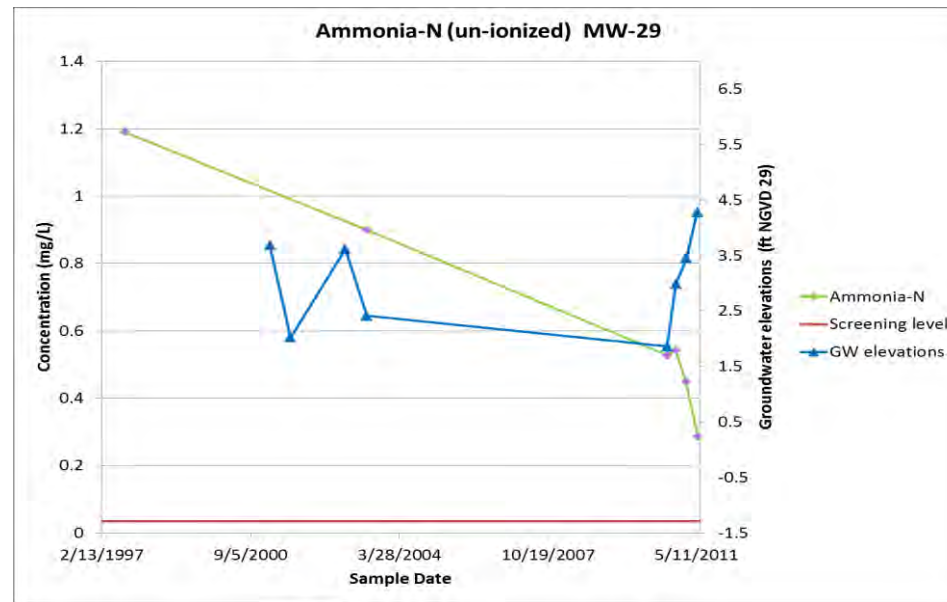
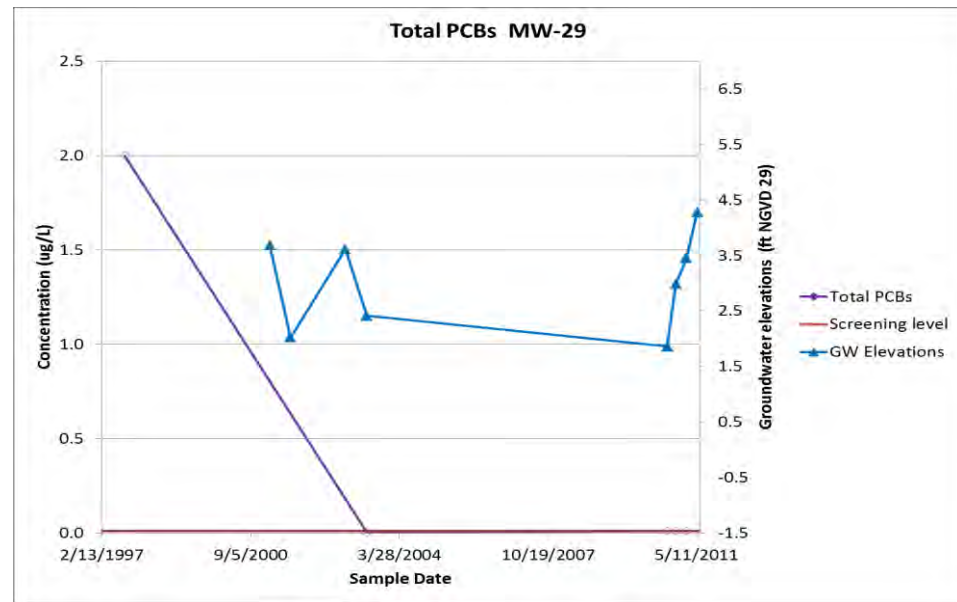
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph (MW 28)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

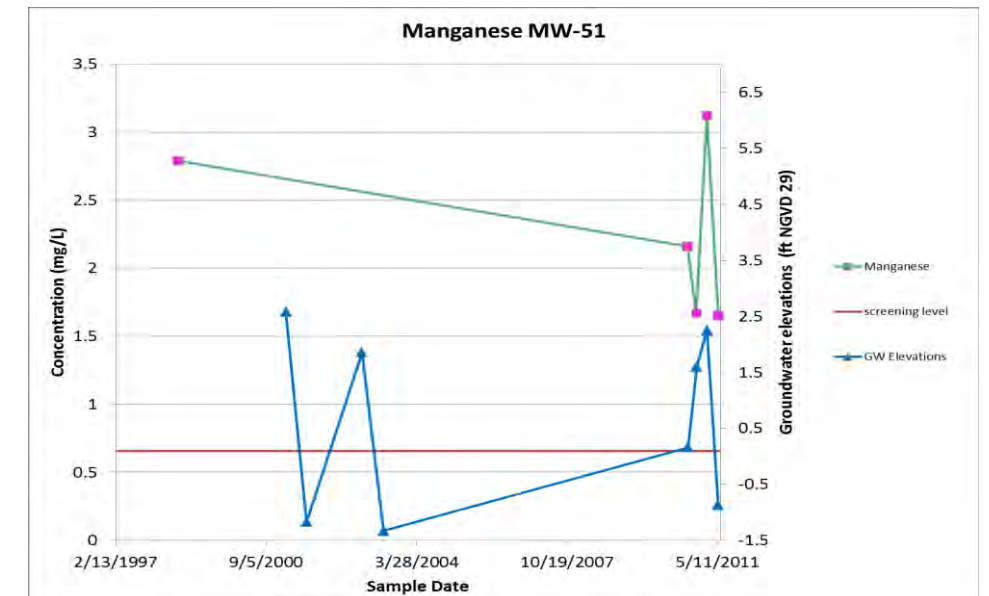
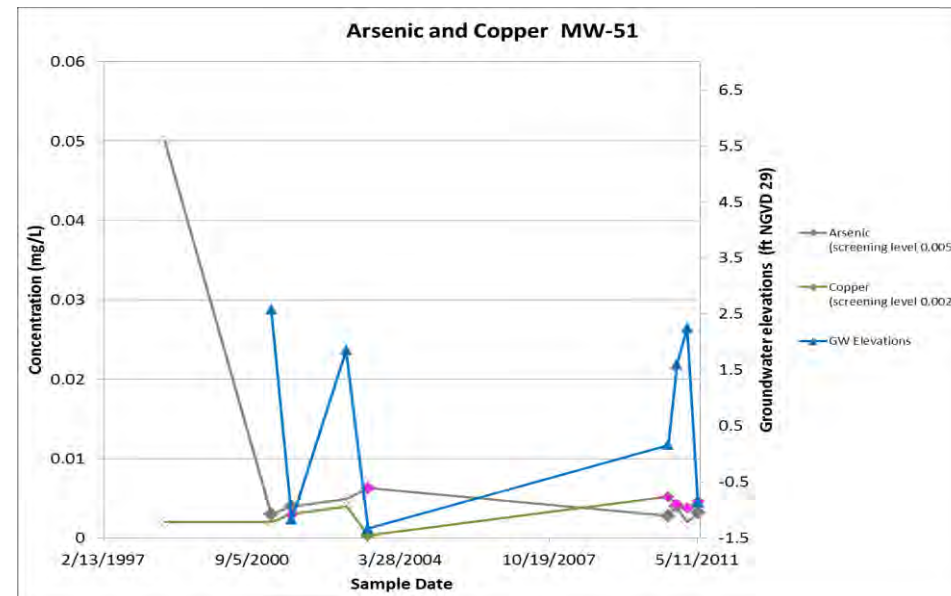
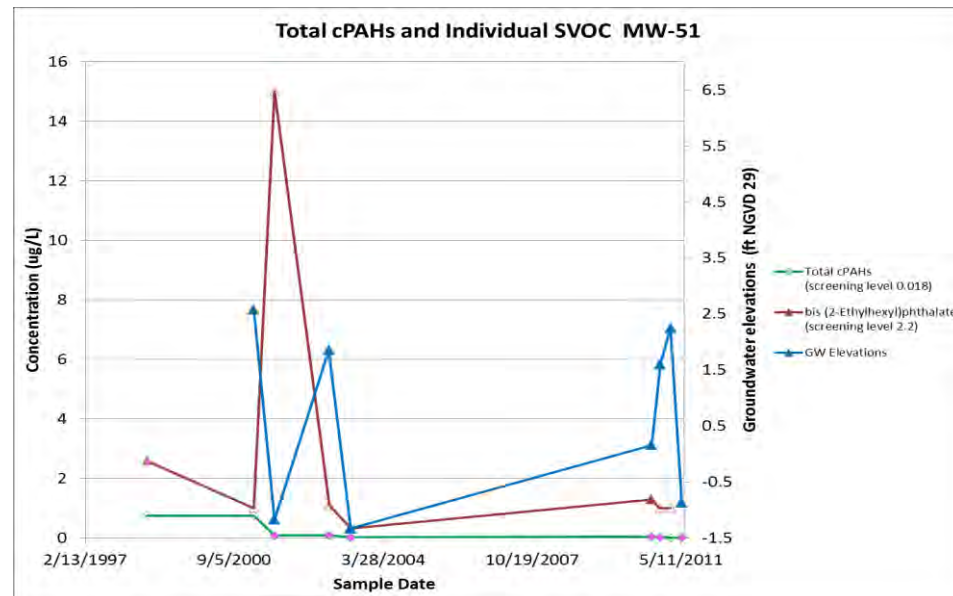
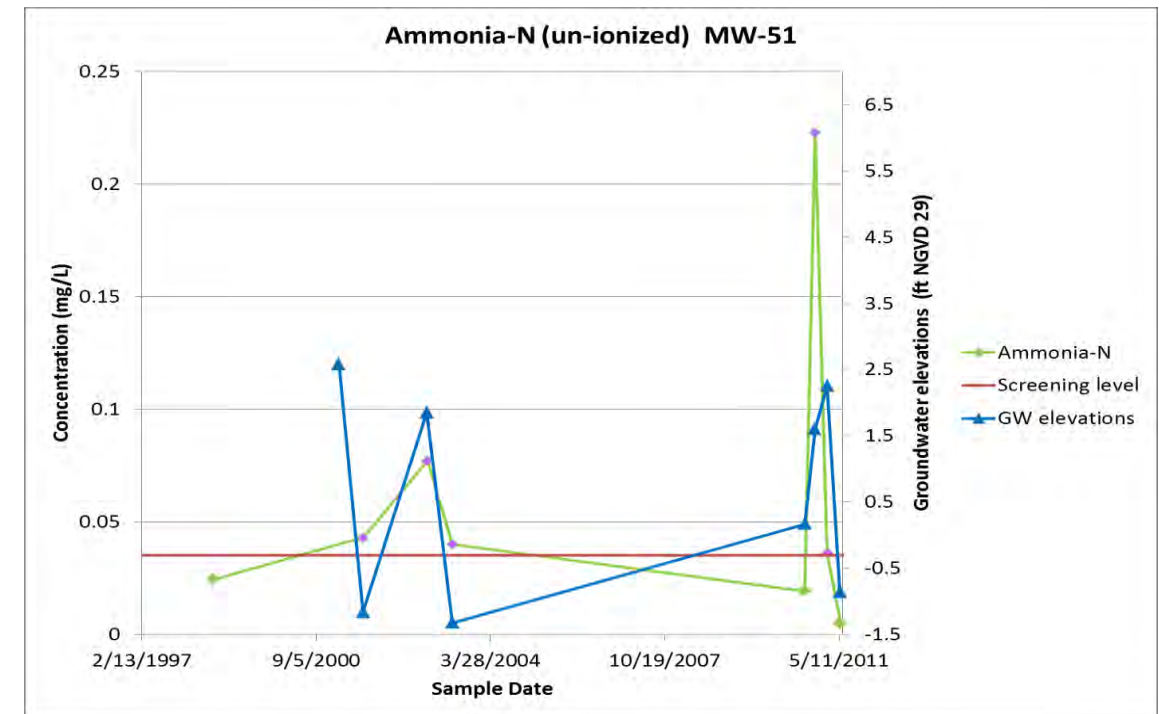
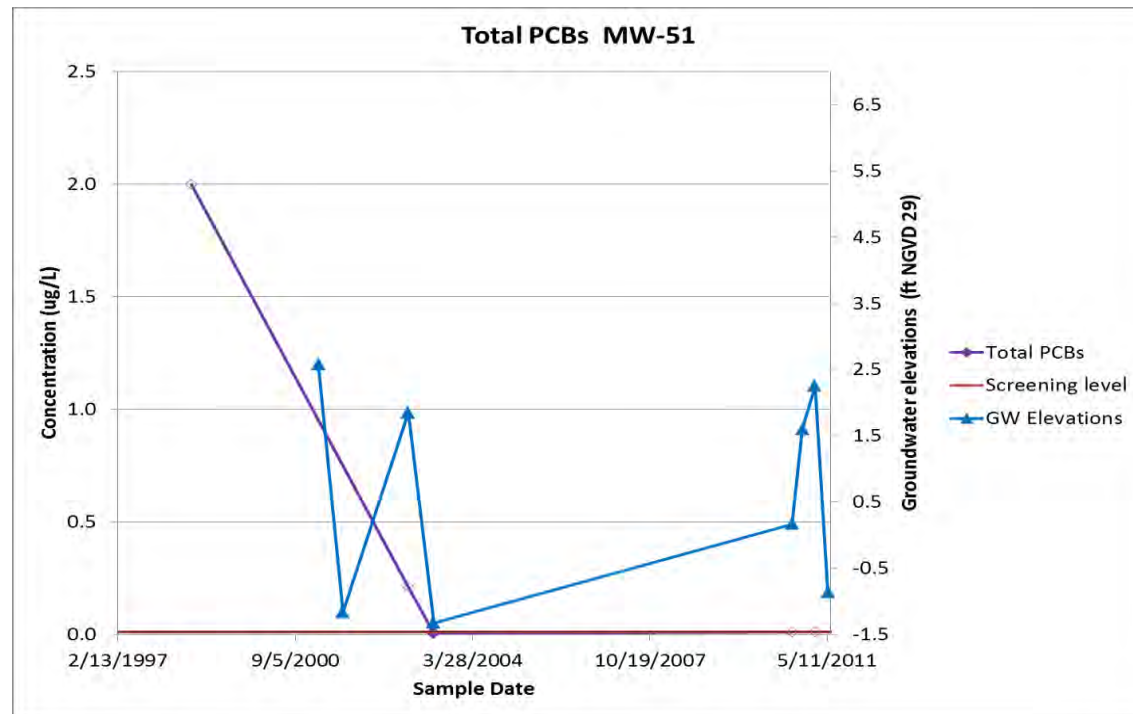
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph (MW 29)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

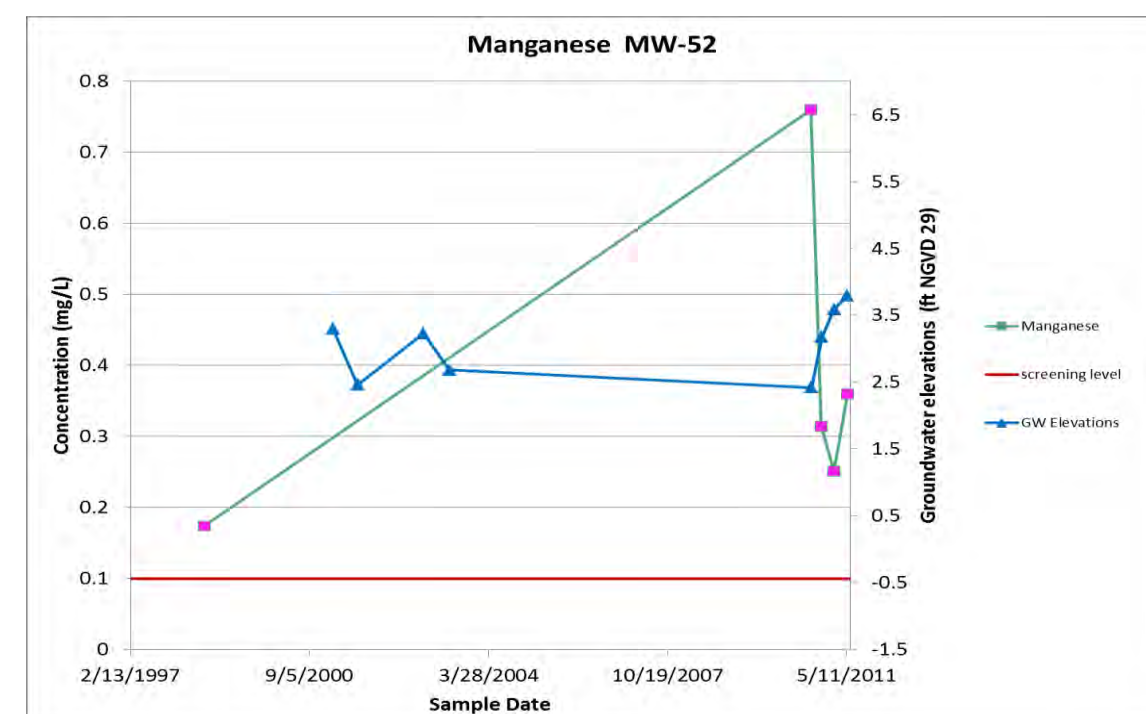
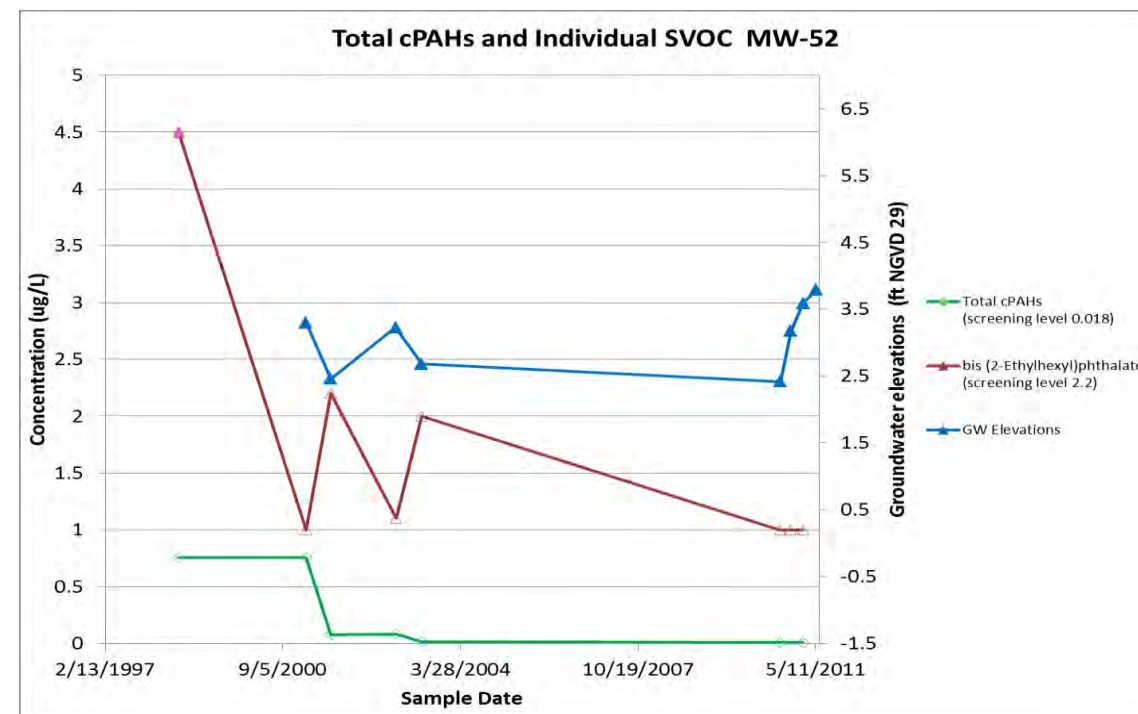
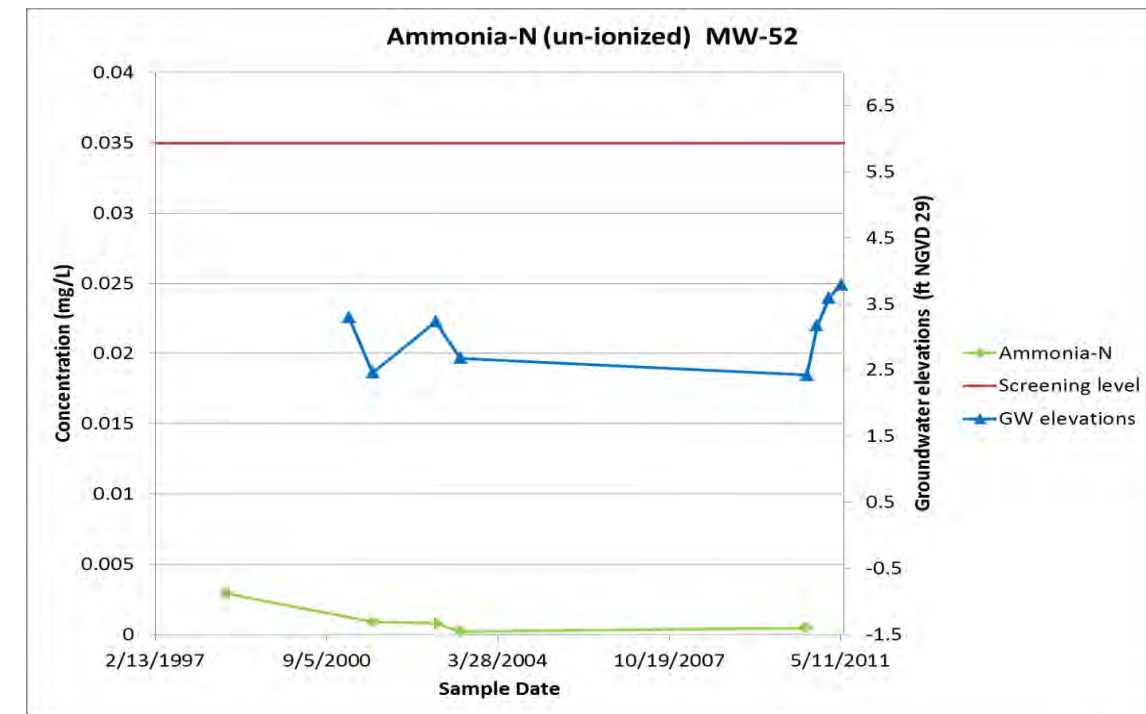
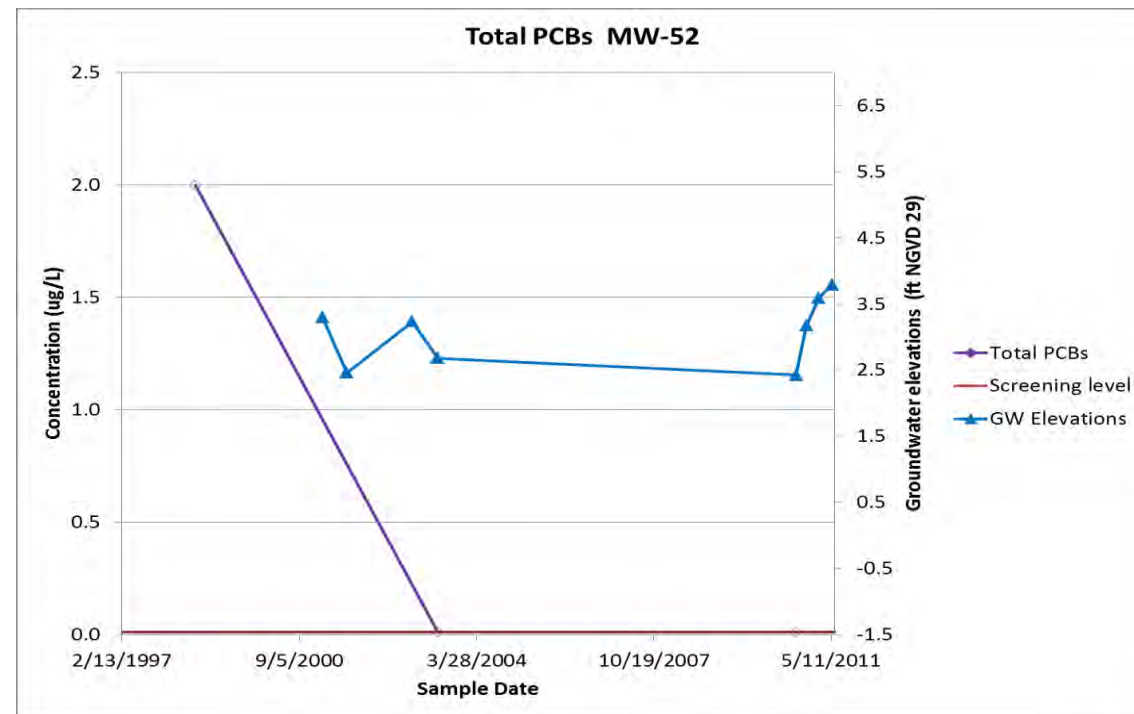
1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
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Contaminants of Concern and Hydrograph (MW 51)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

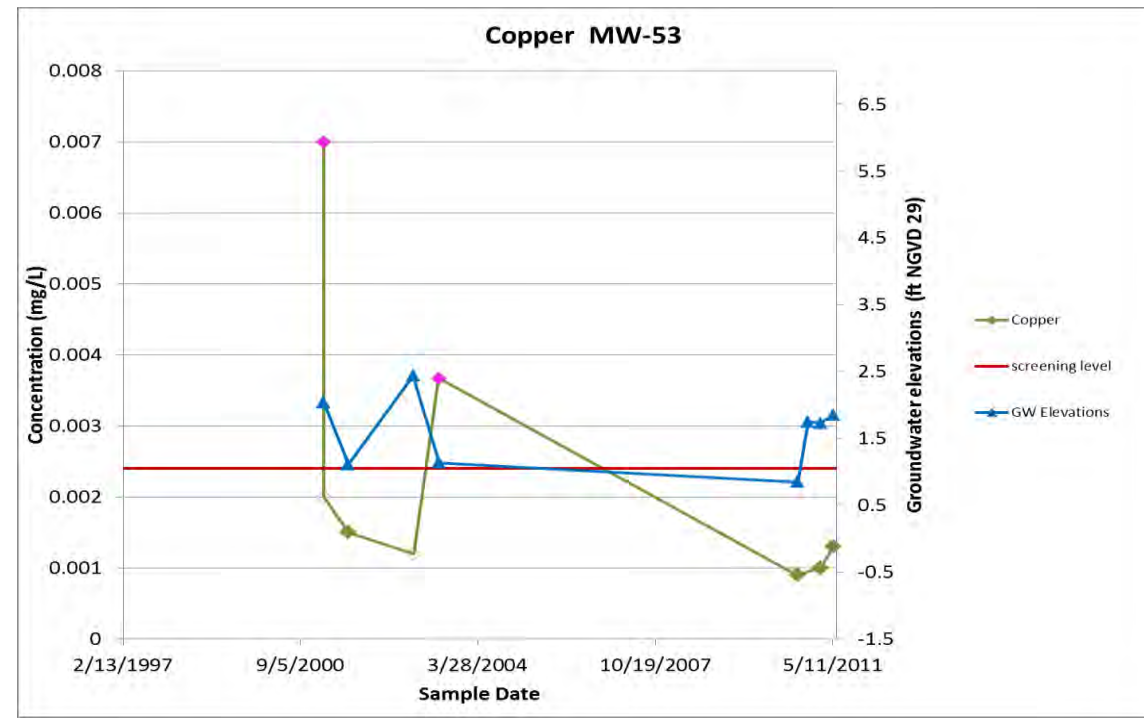
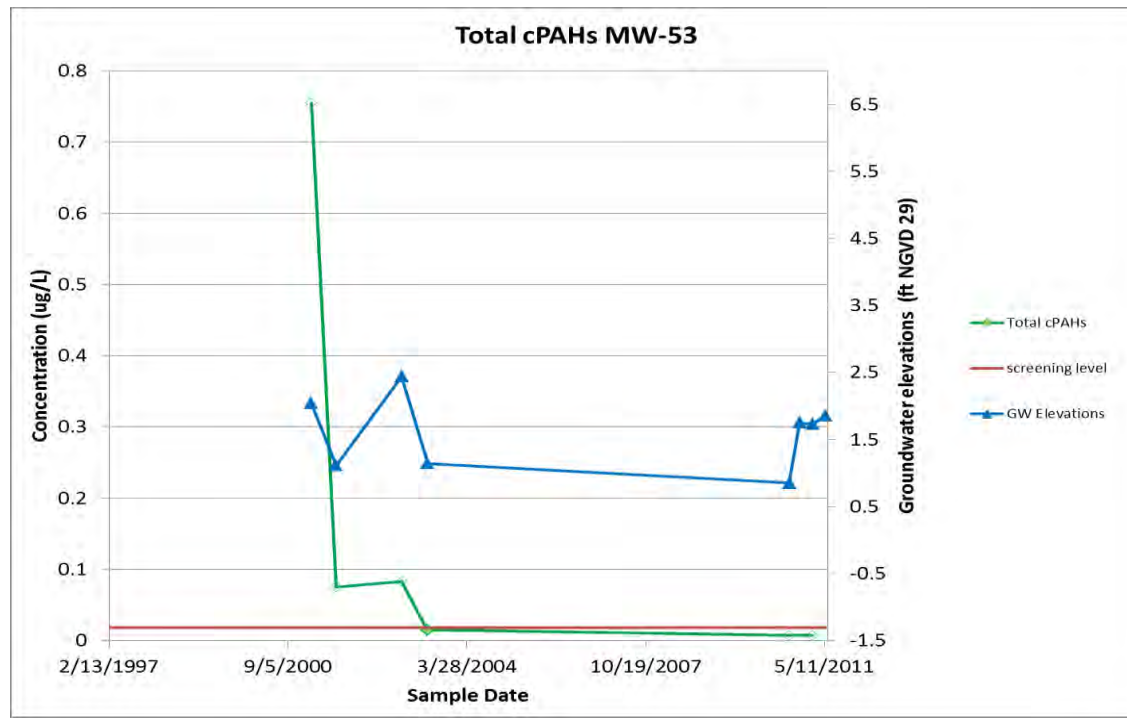
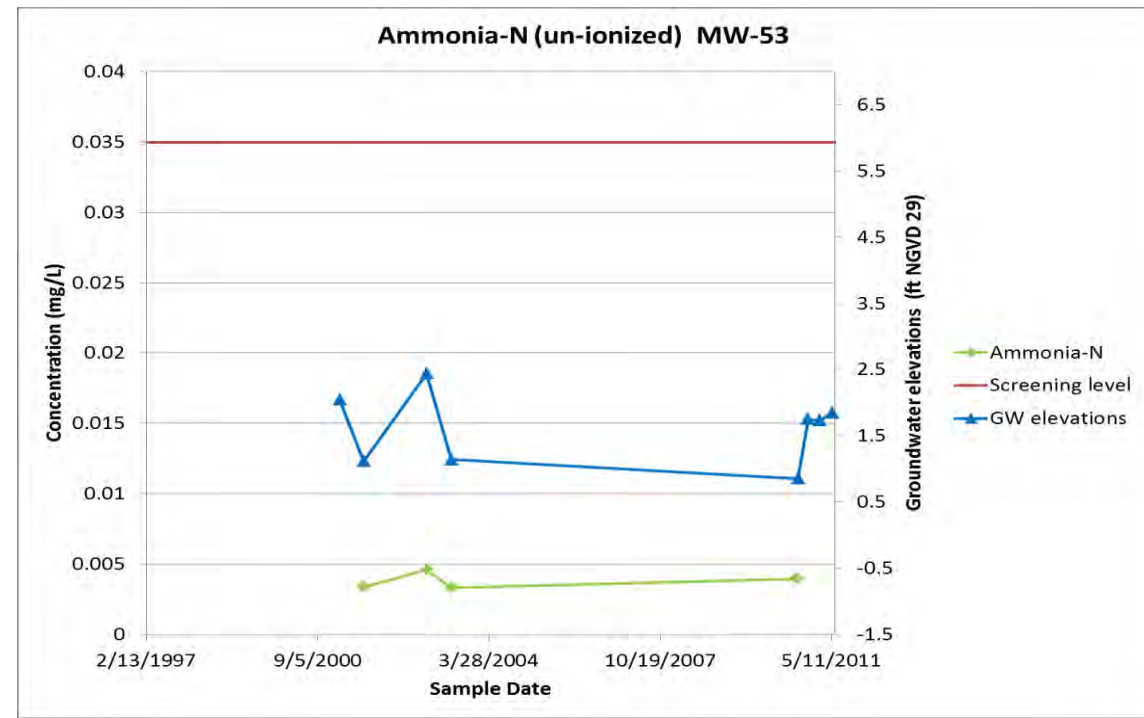
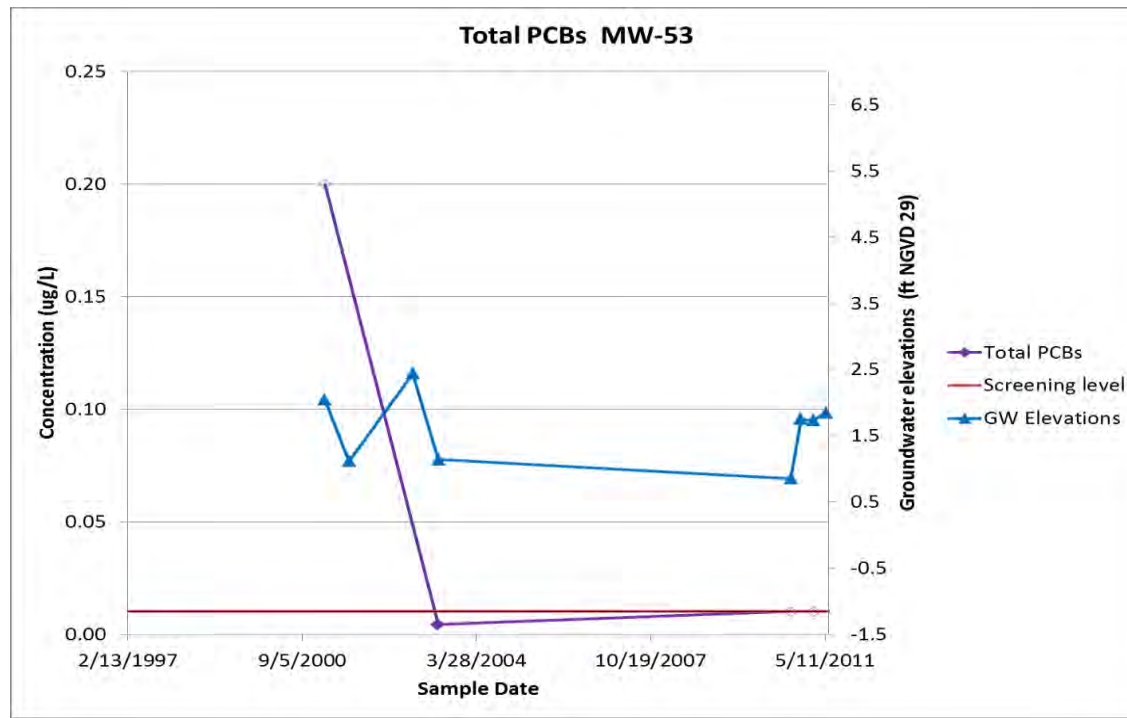
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph (MW 52)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

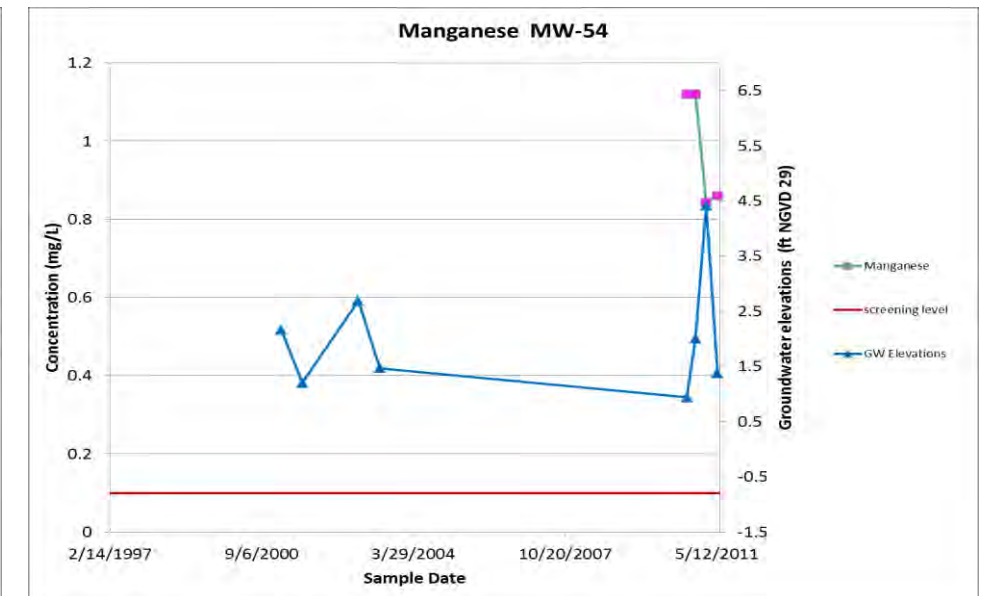
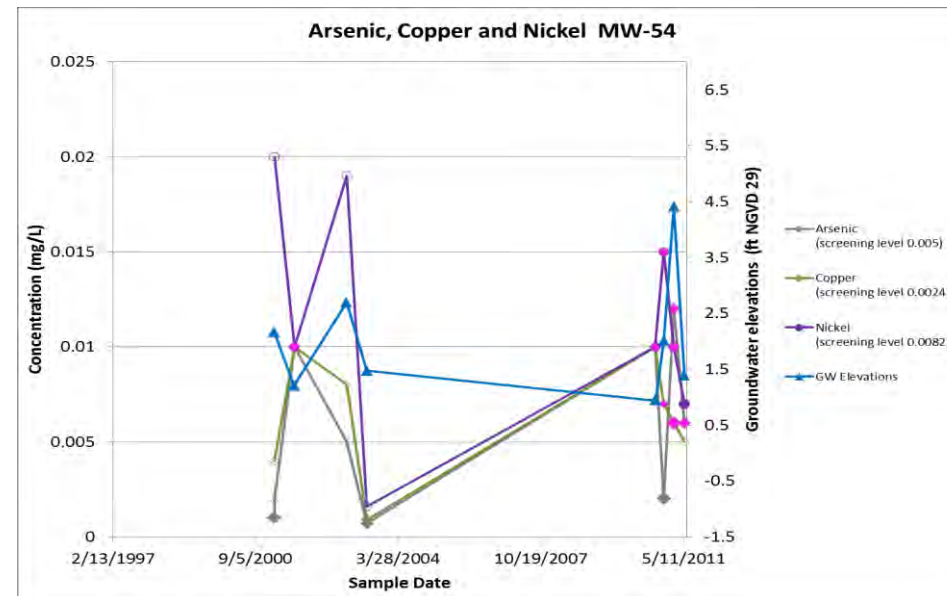
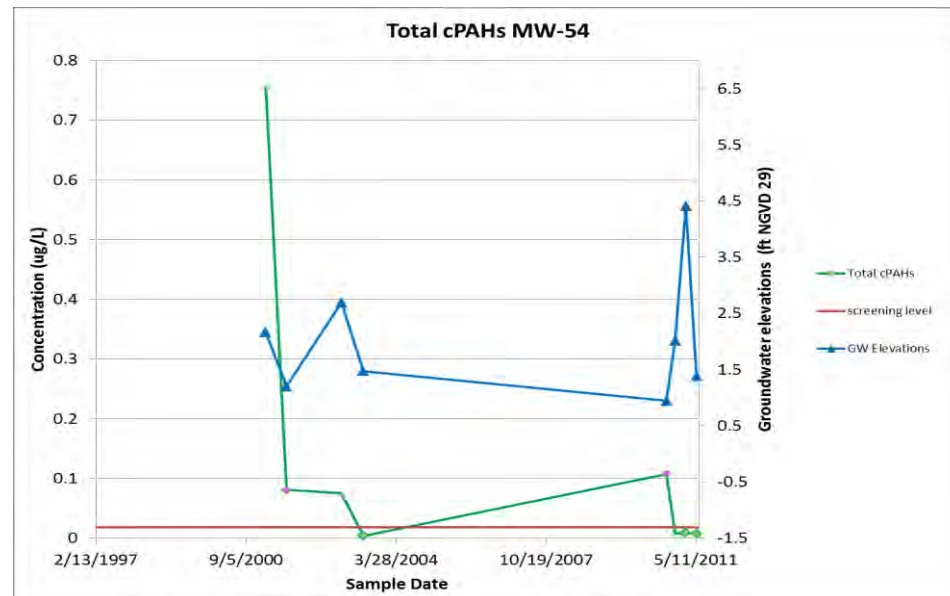
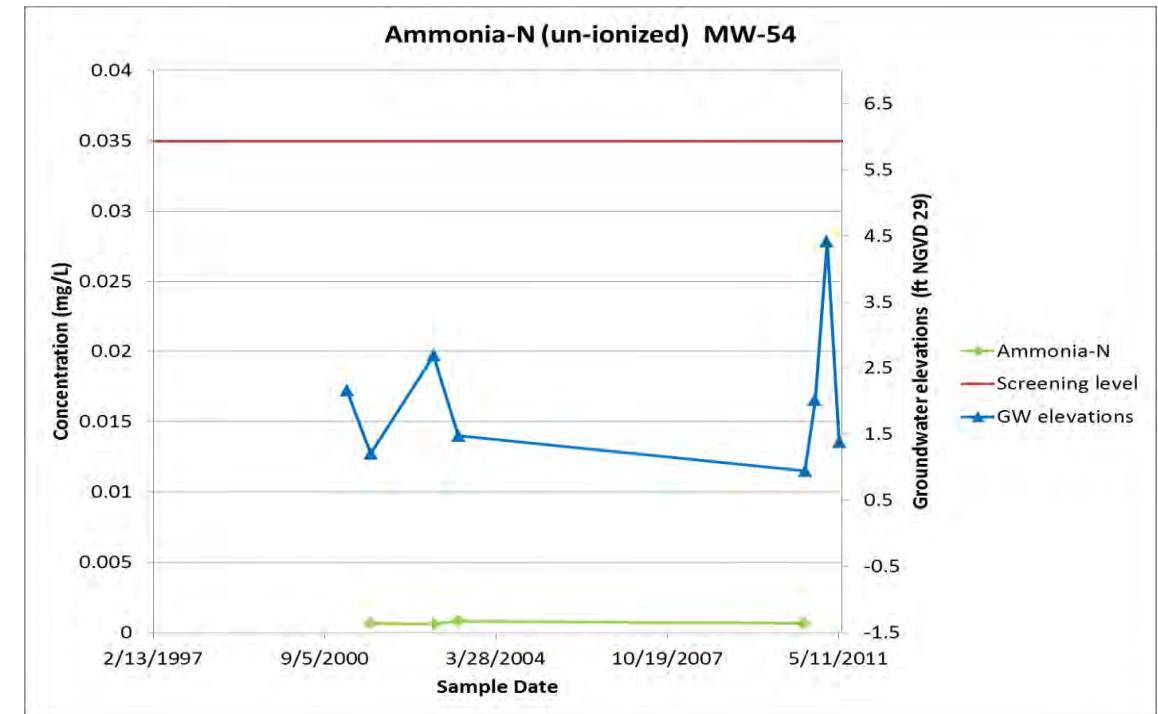
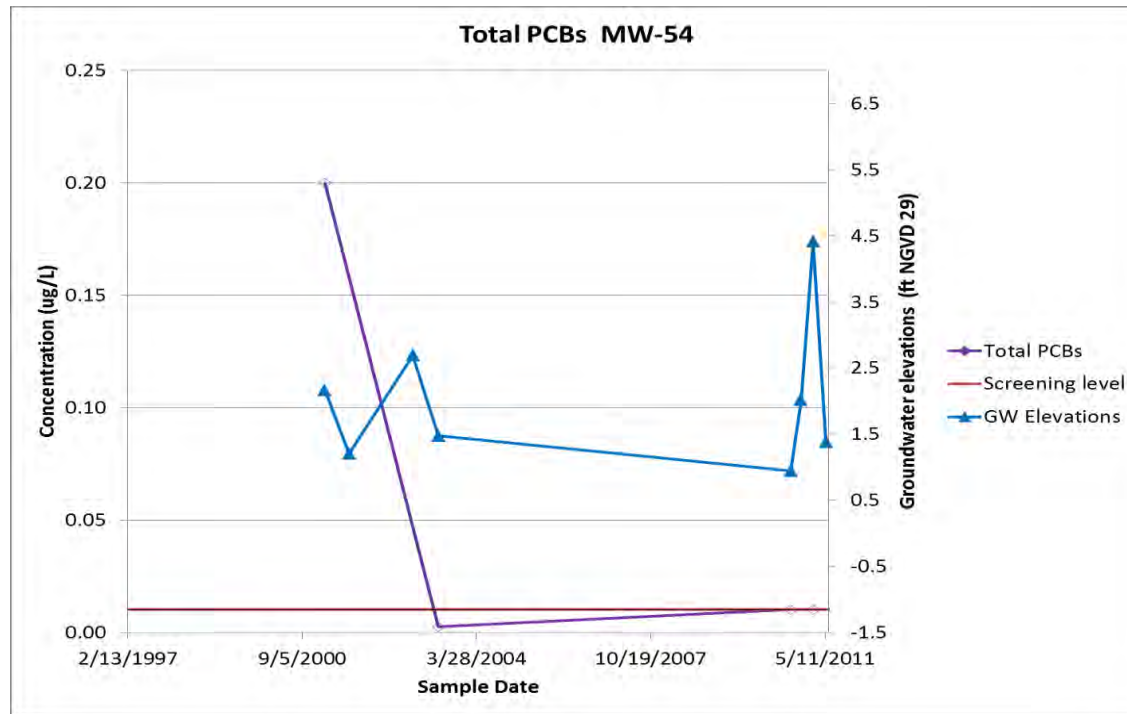
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph (MW 53)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

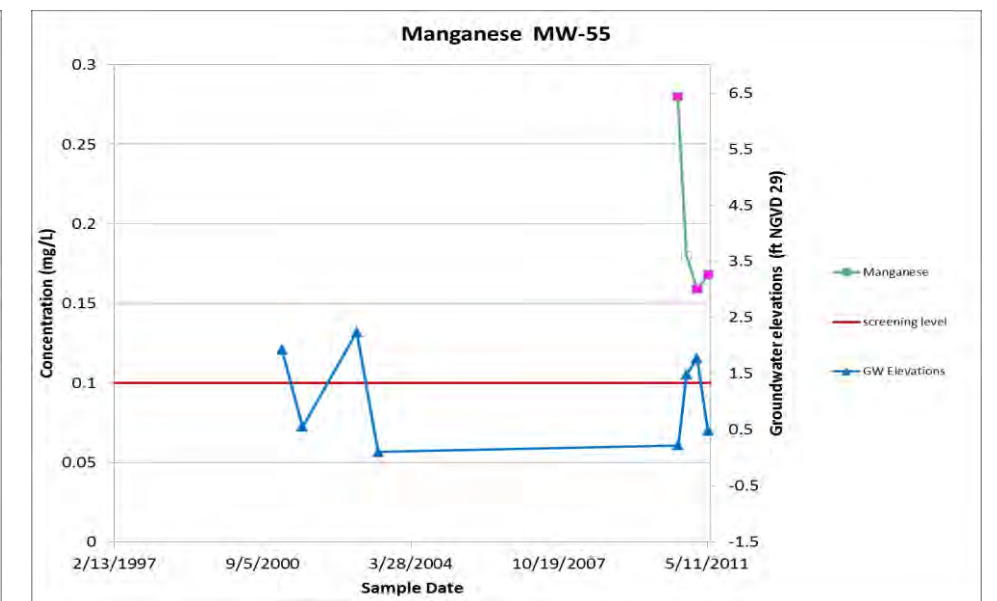
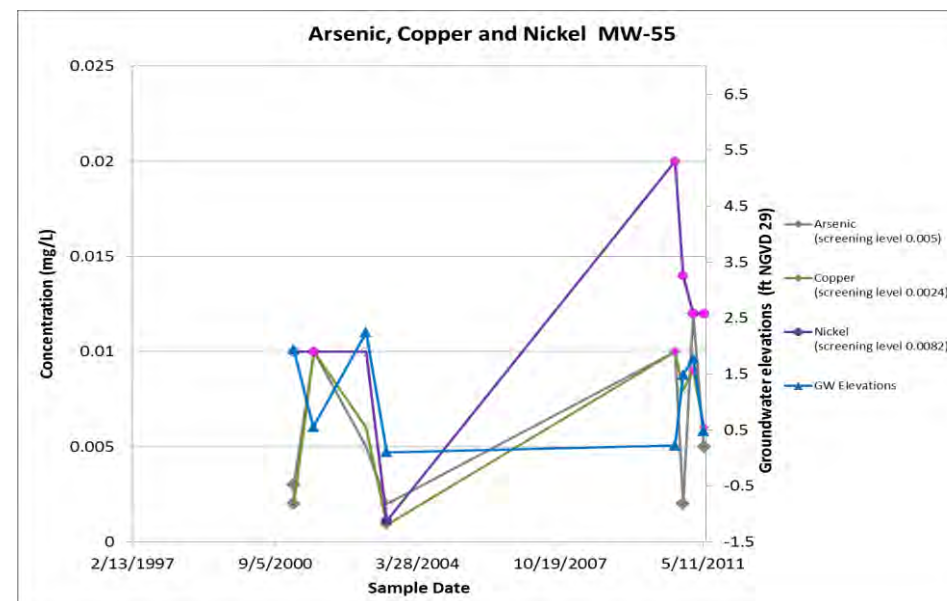
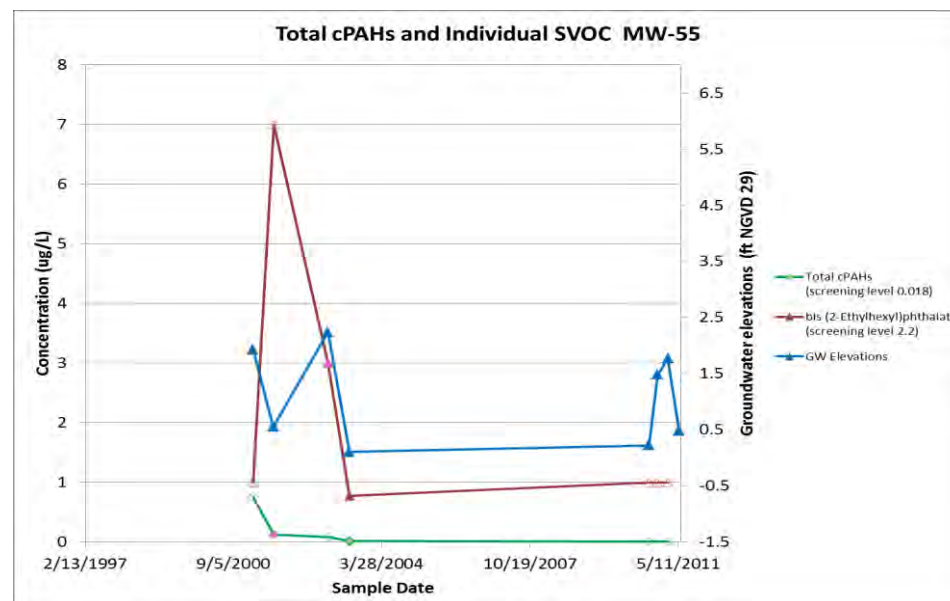
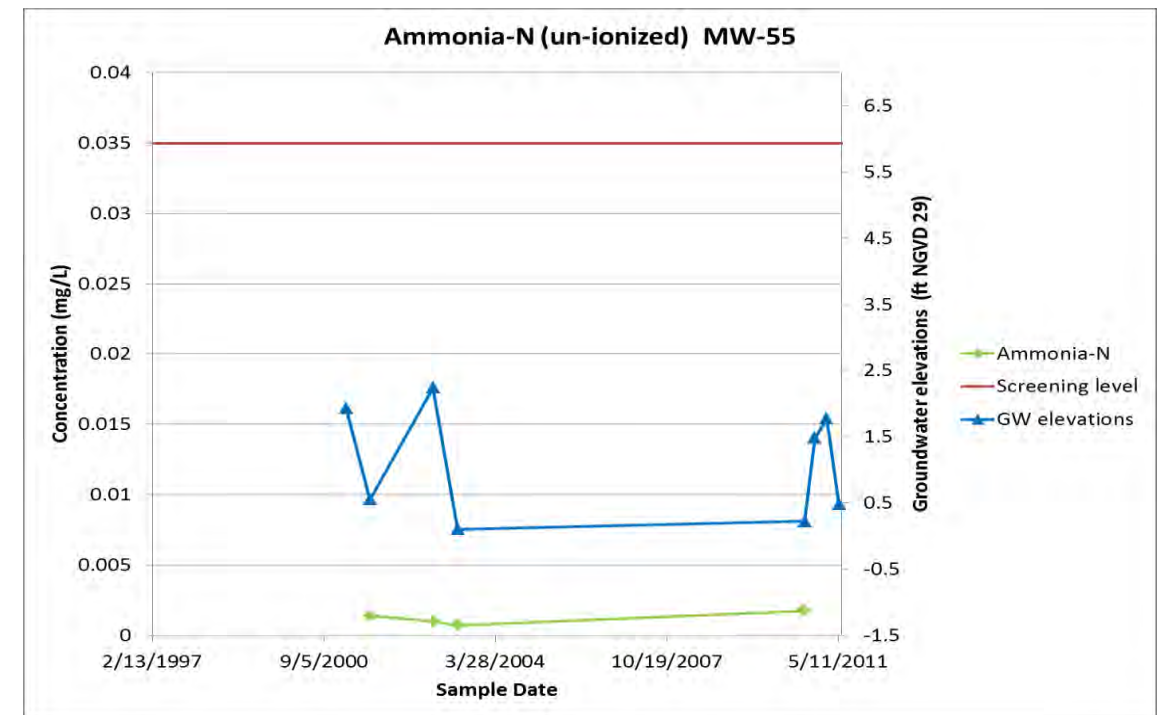
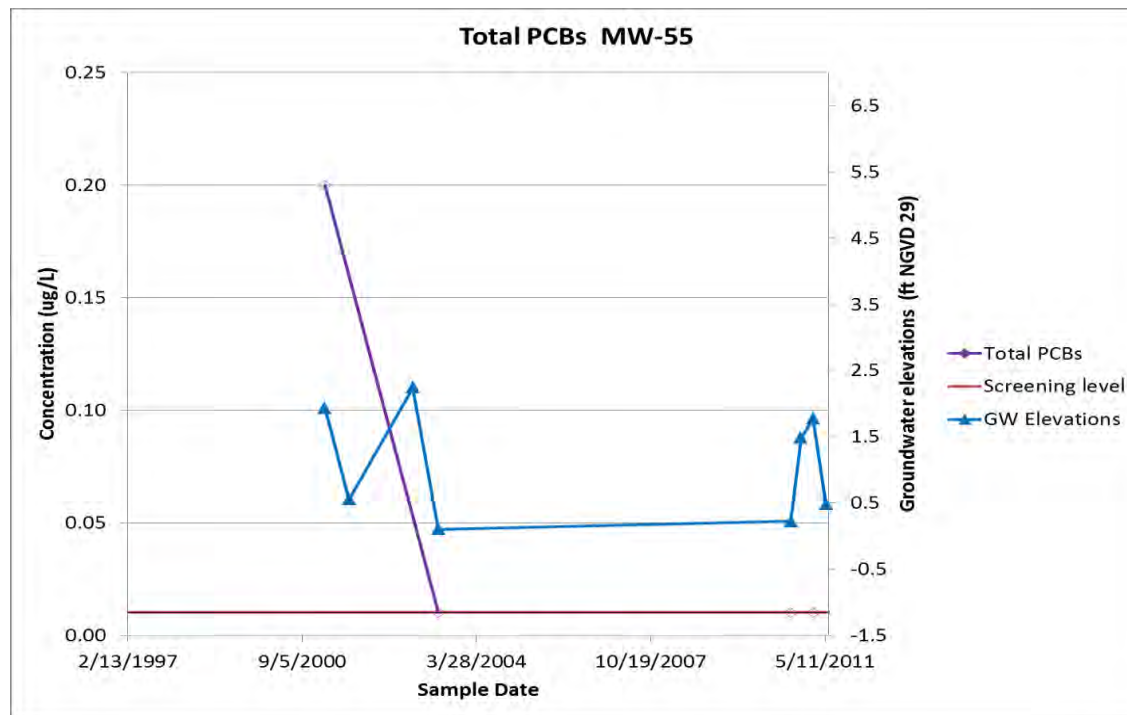
1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

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Contaminants of Concern and Hydrograph (MW 54)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

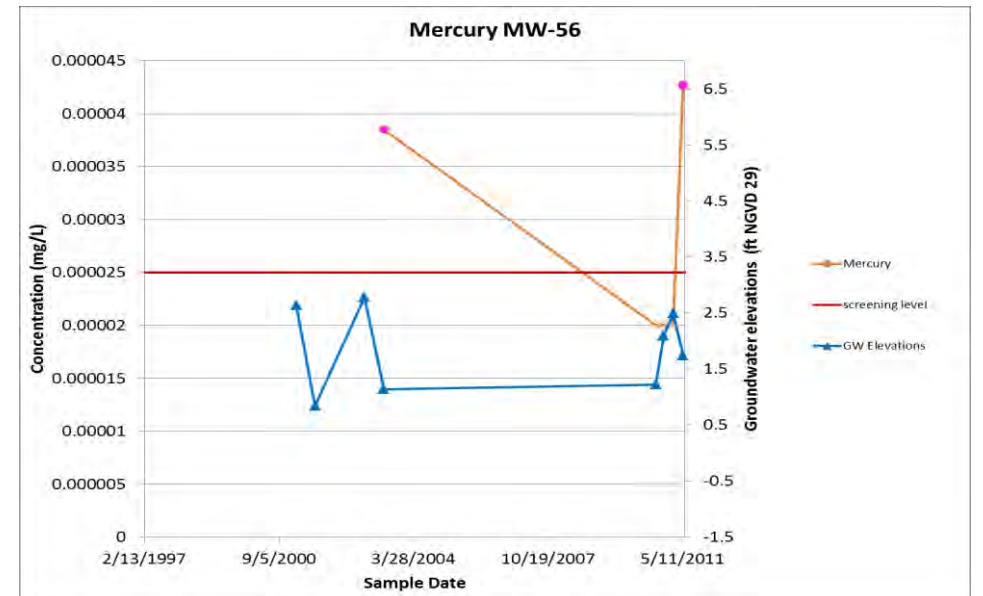
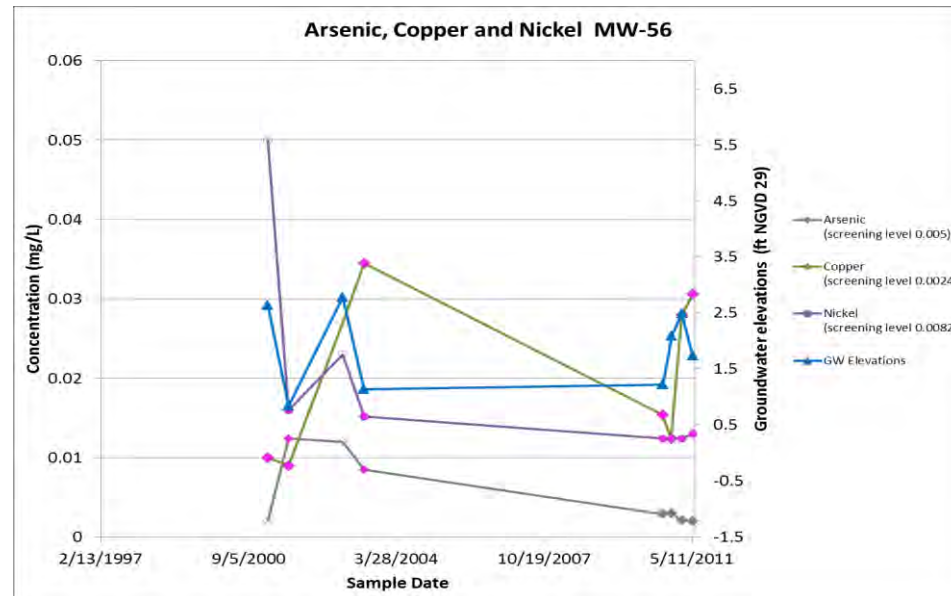
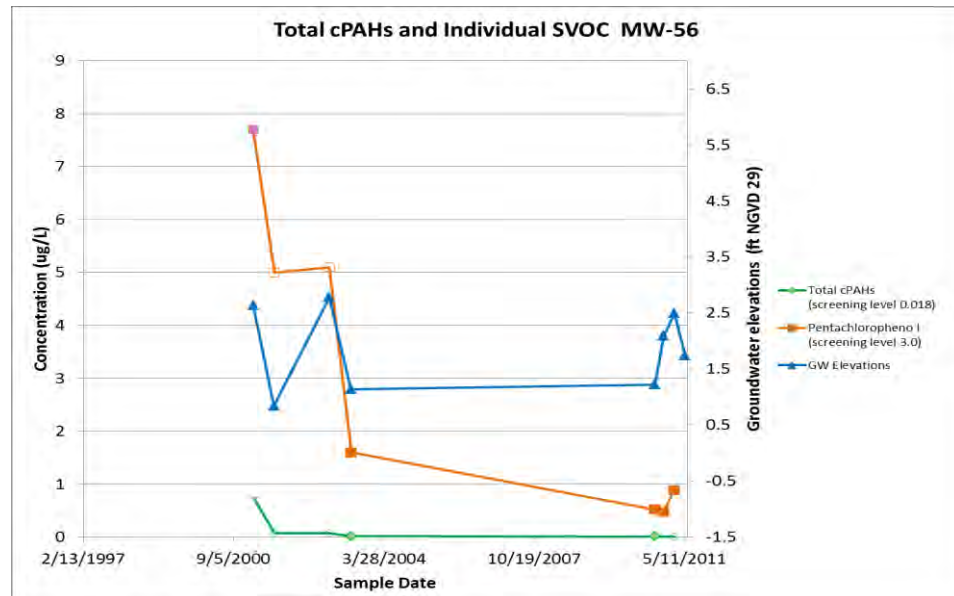
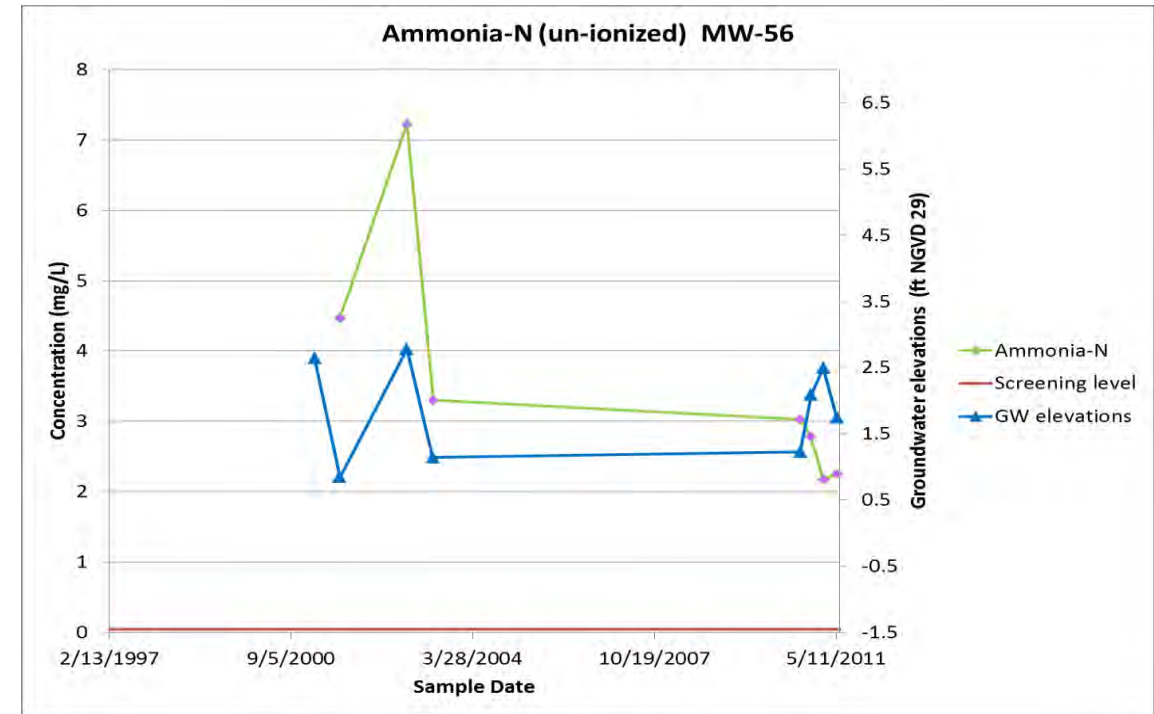
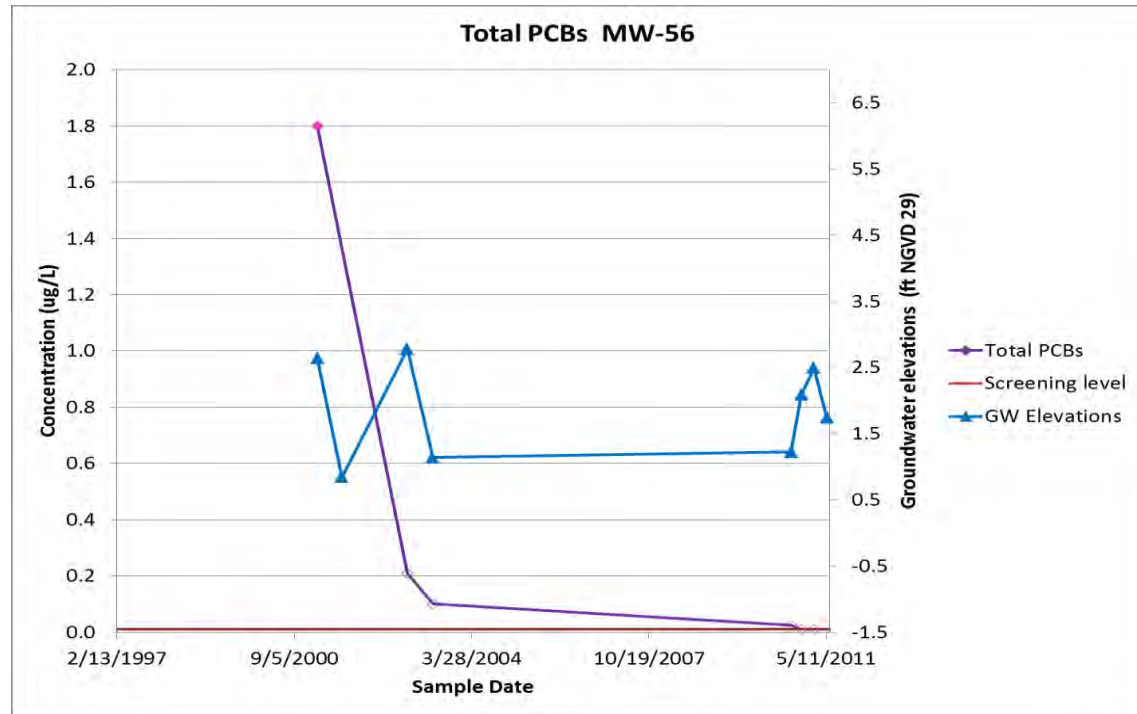
- For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
- Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
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Contaminants of Concern and Hydrograph (MW 55)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

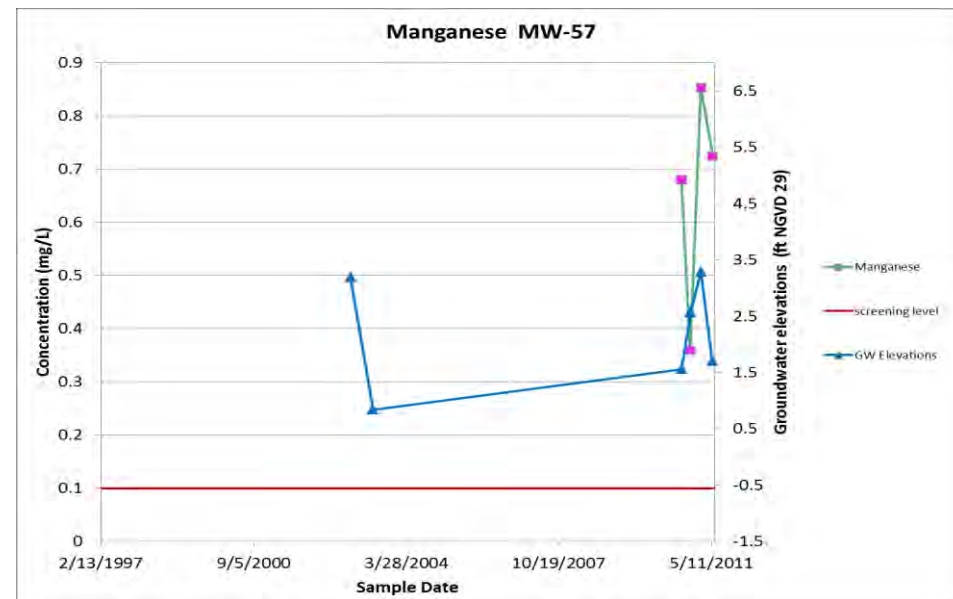
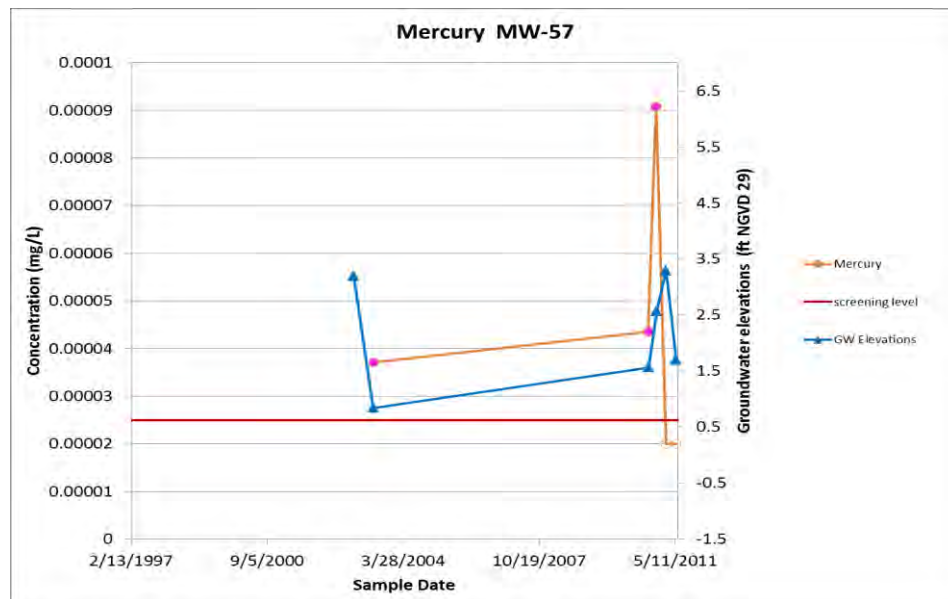
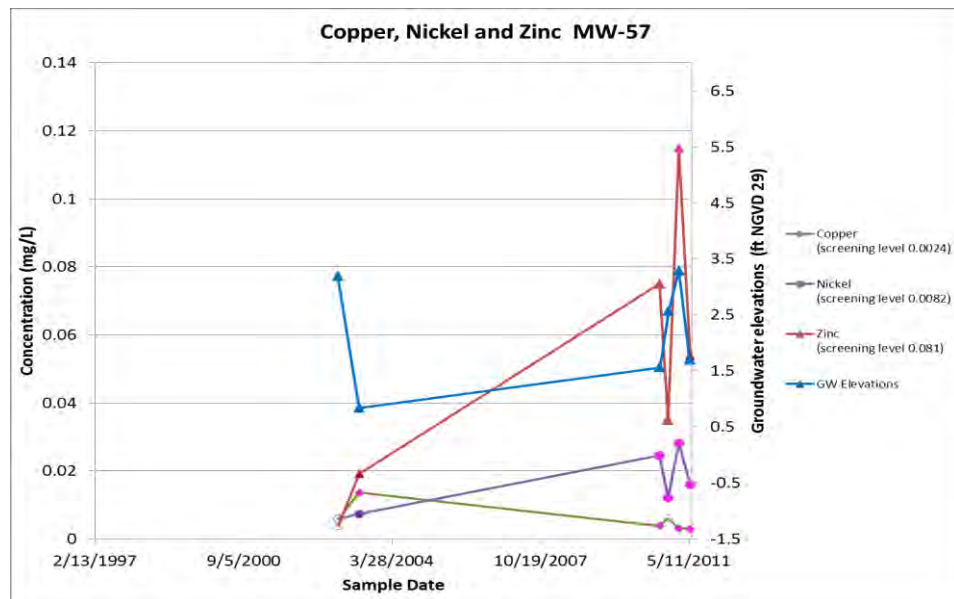
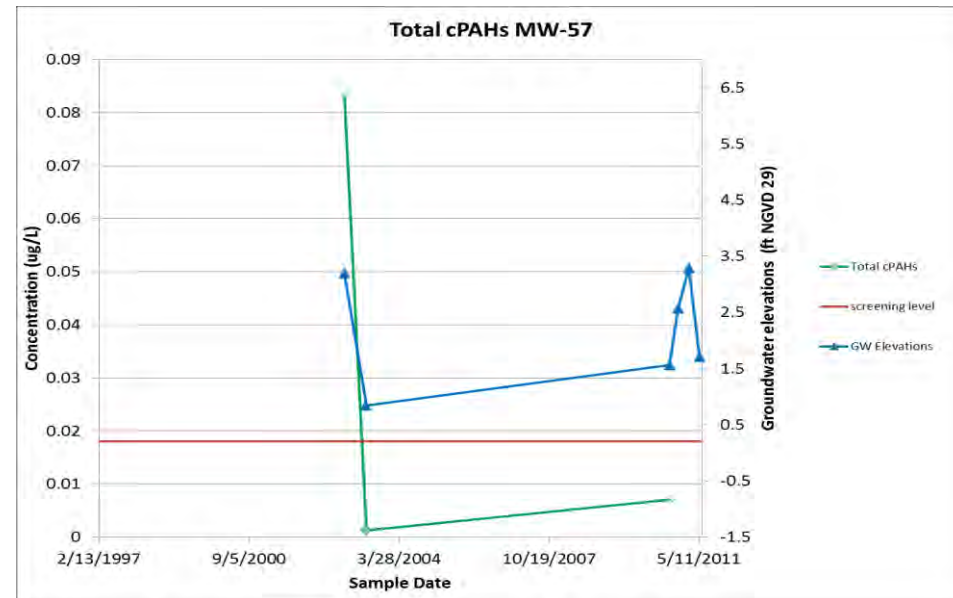
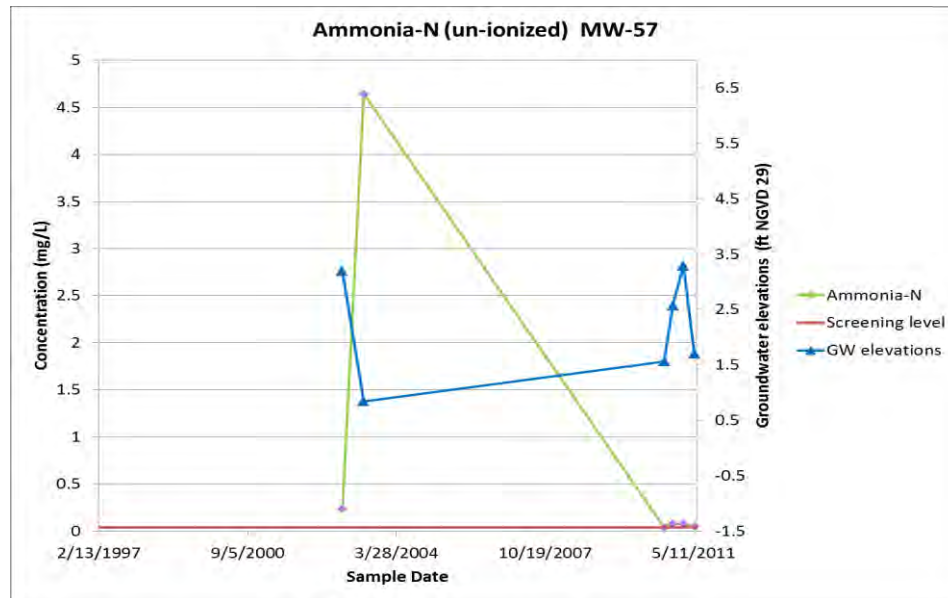
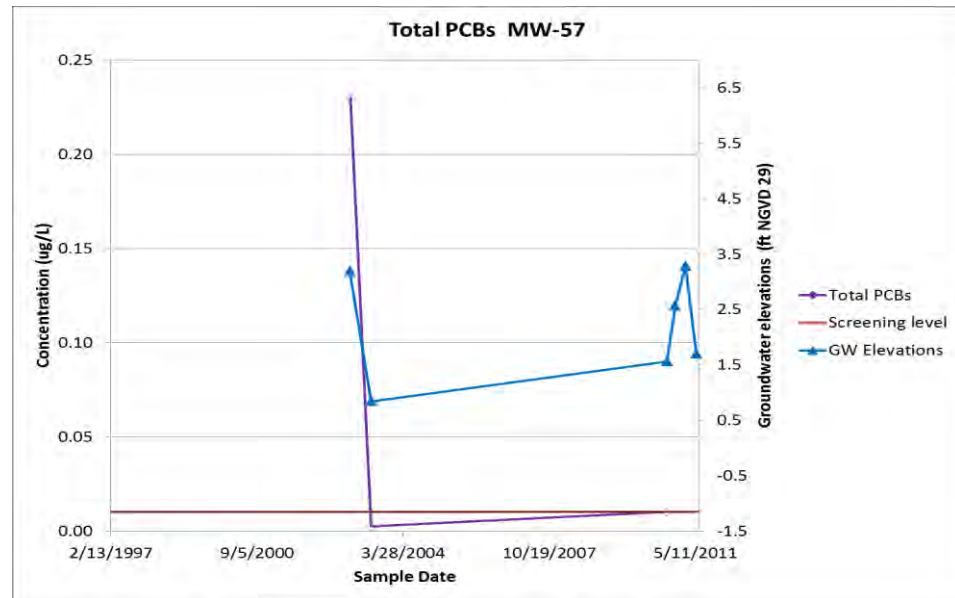
- For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
- Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
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Contaminants of Concern and Hydrograph (MW 56)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

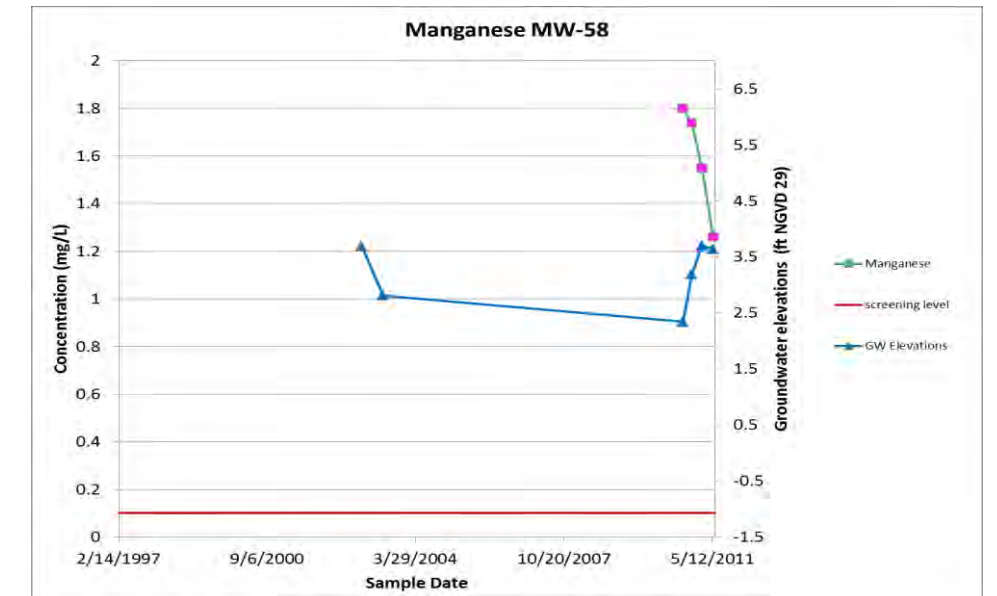
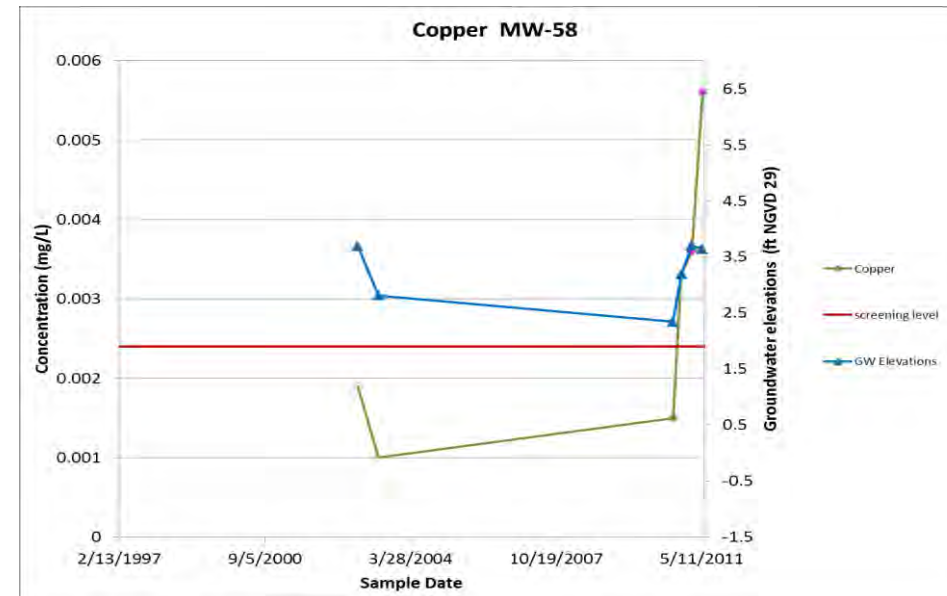
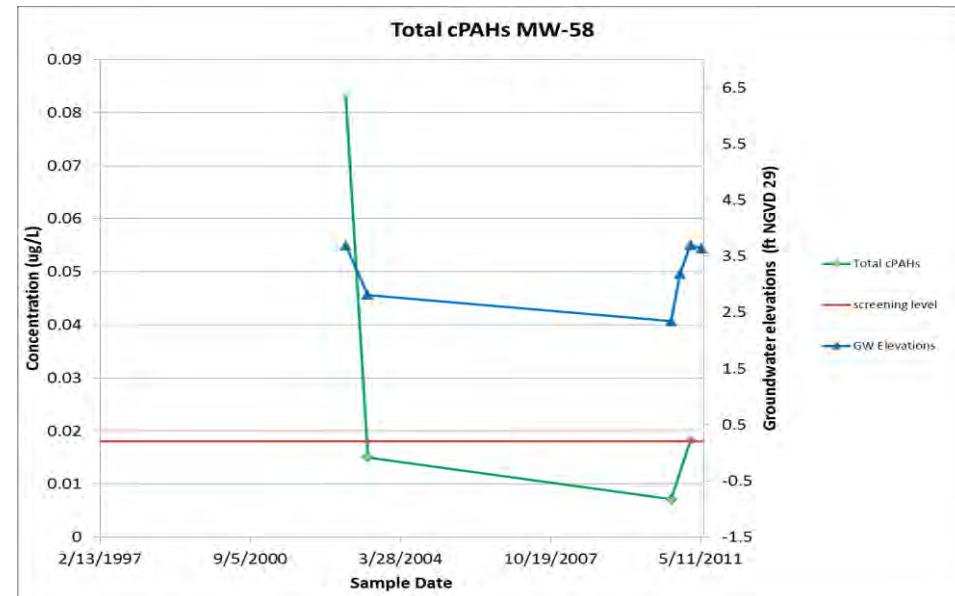
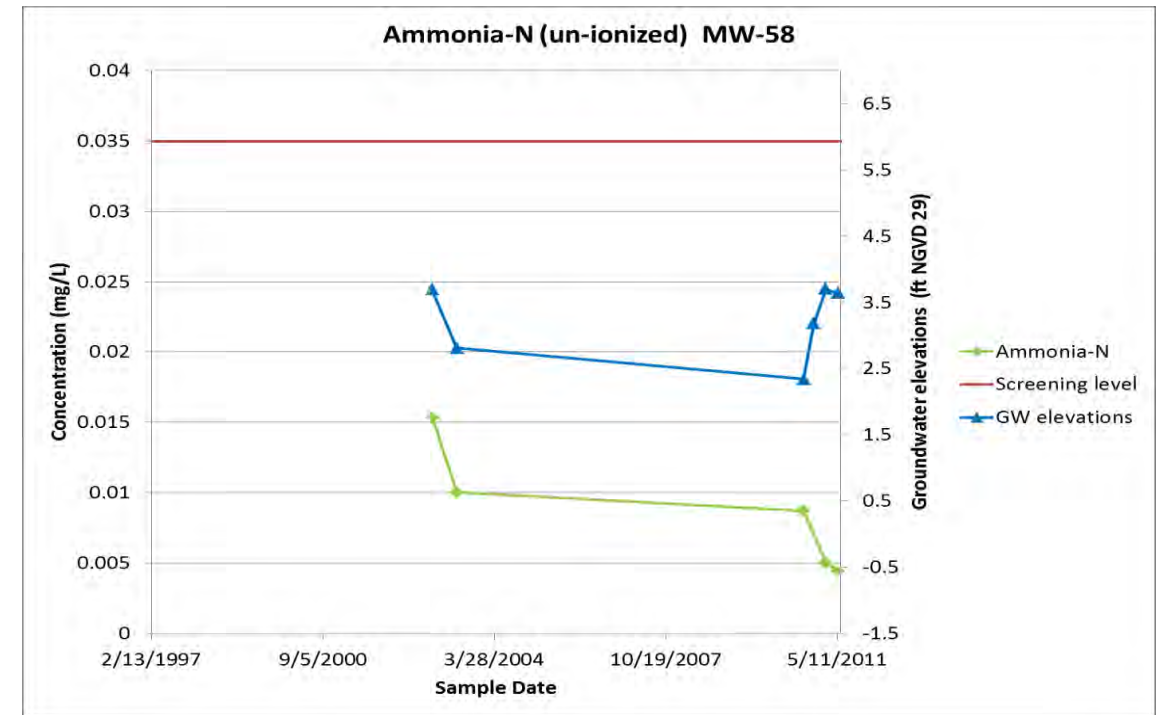
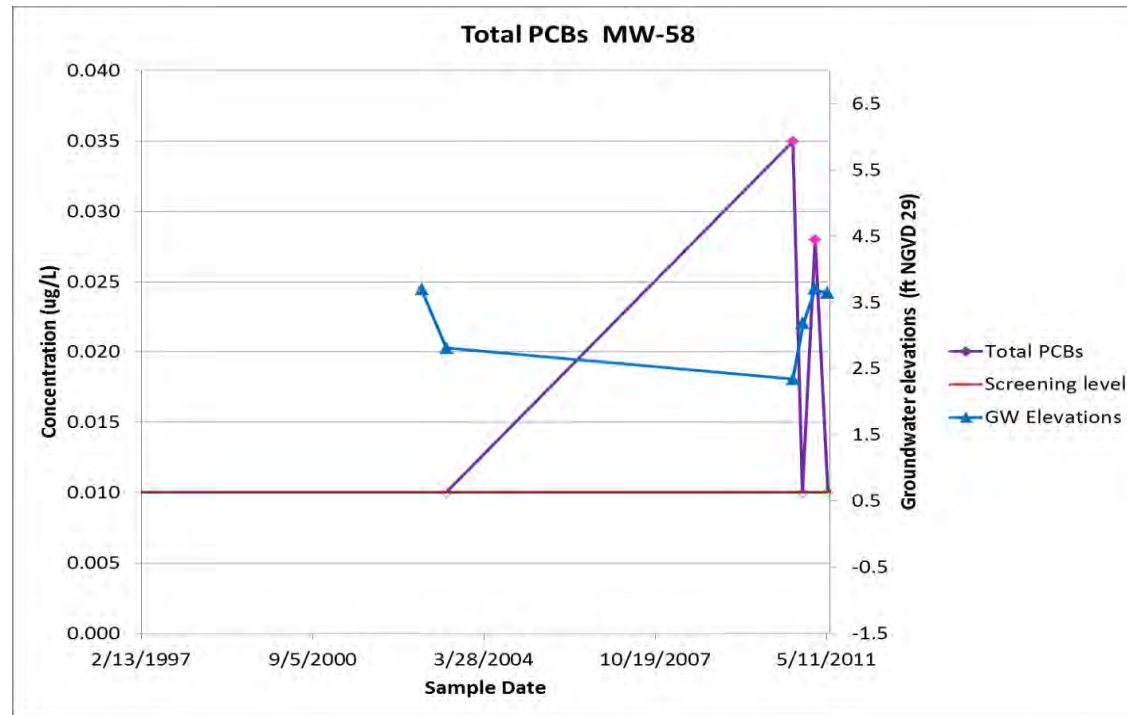
1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

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Contaminants of Concern and Hydrograph (MW 57)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

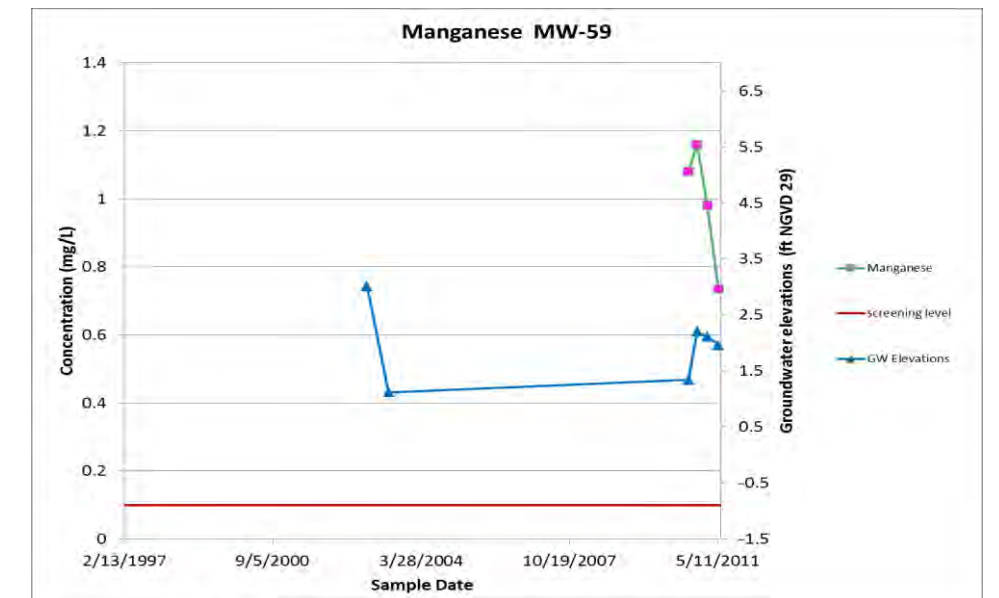
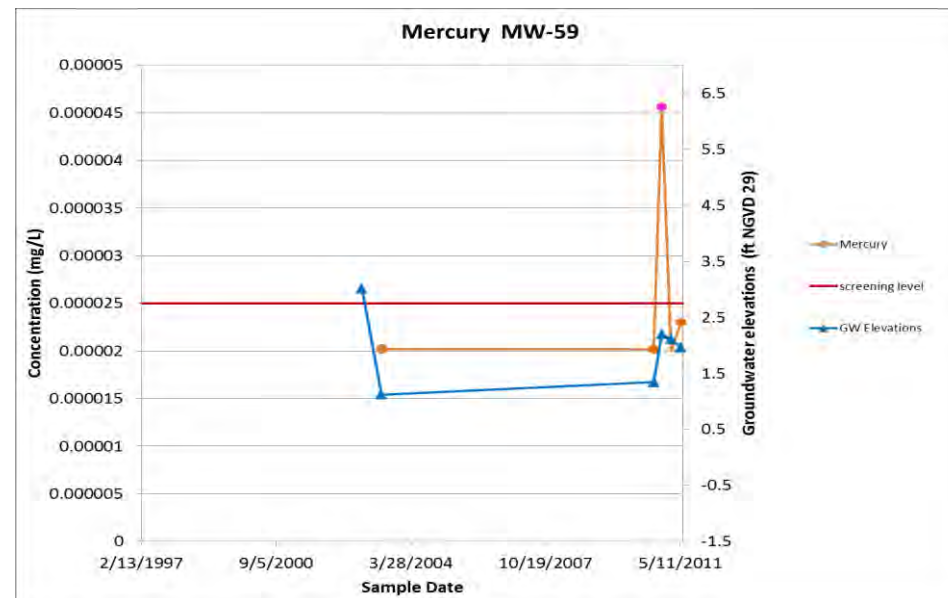
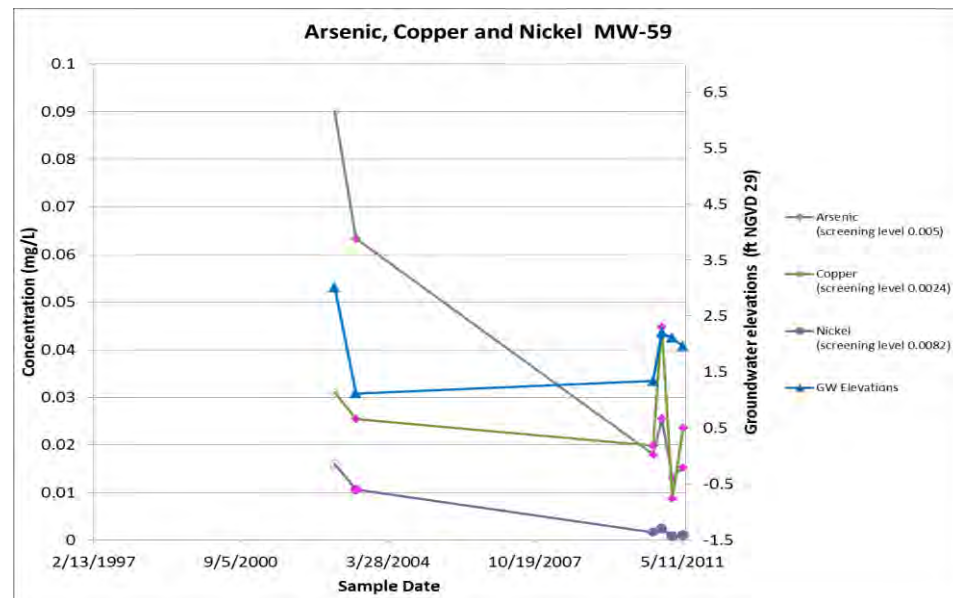
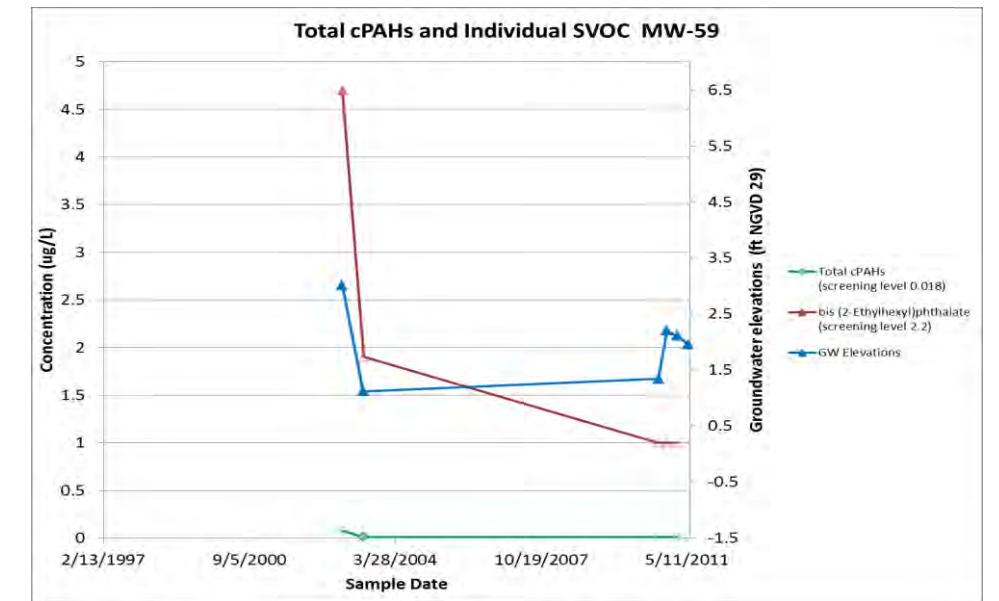
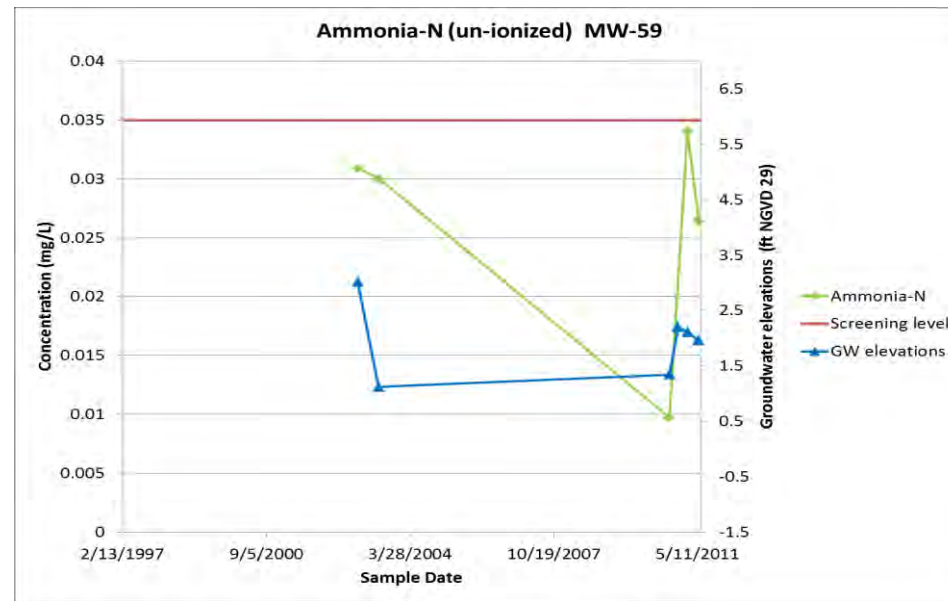
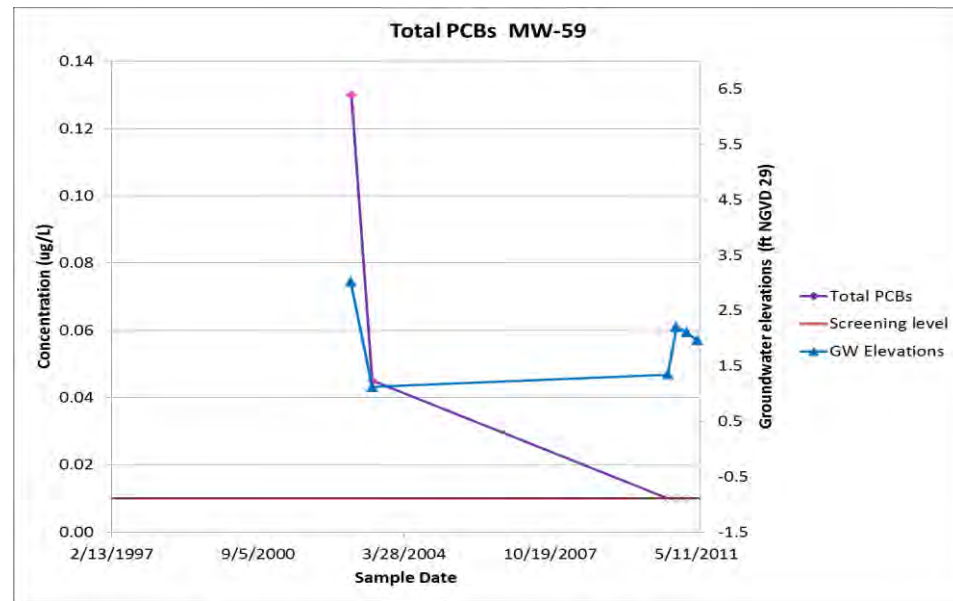
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph (MW 58)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

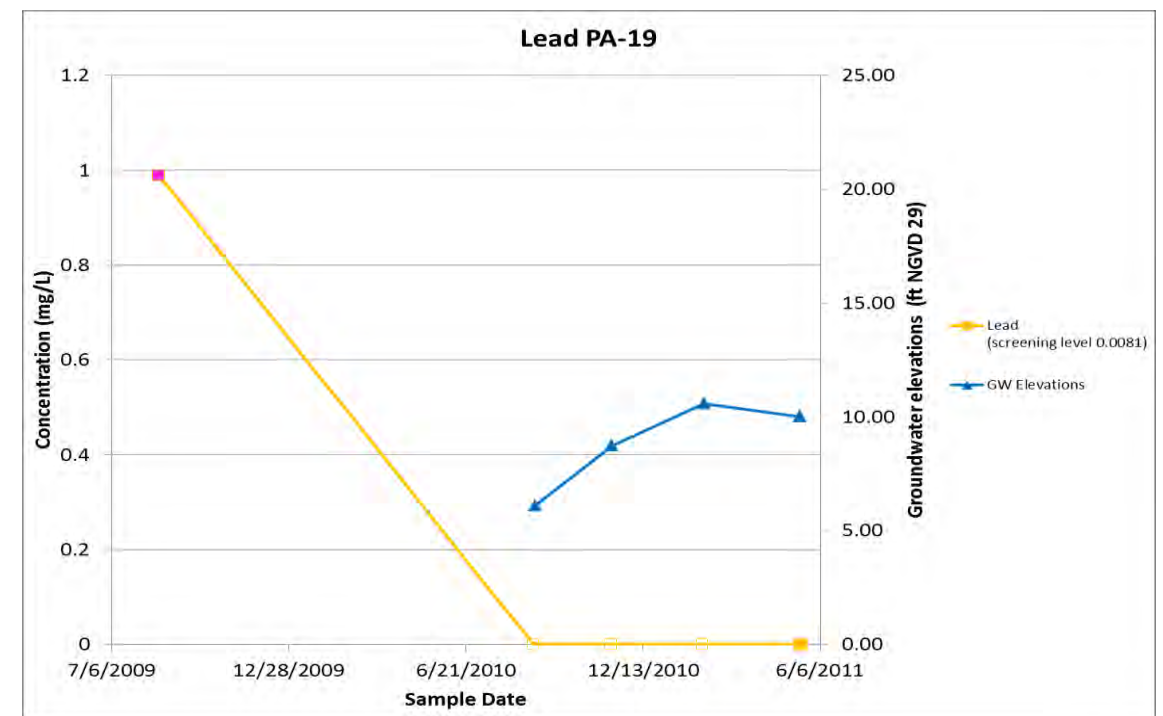
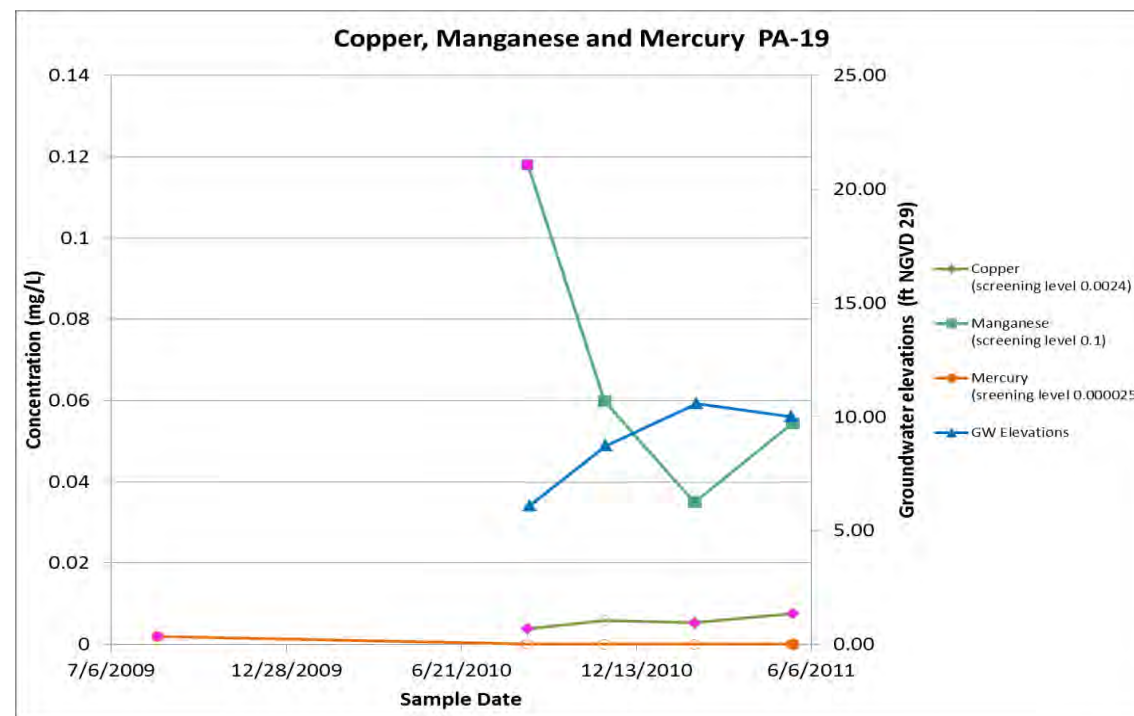
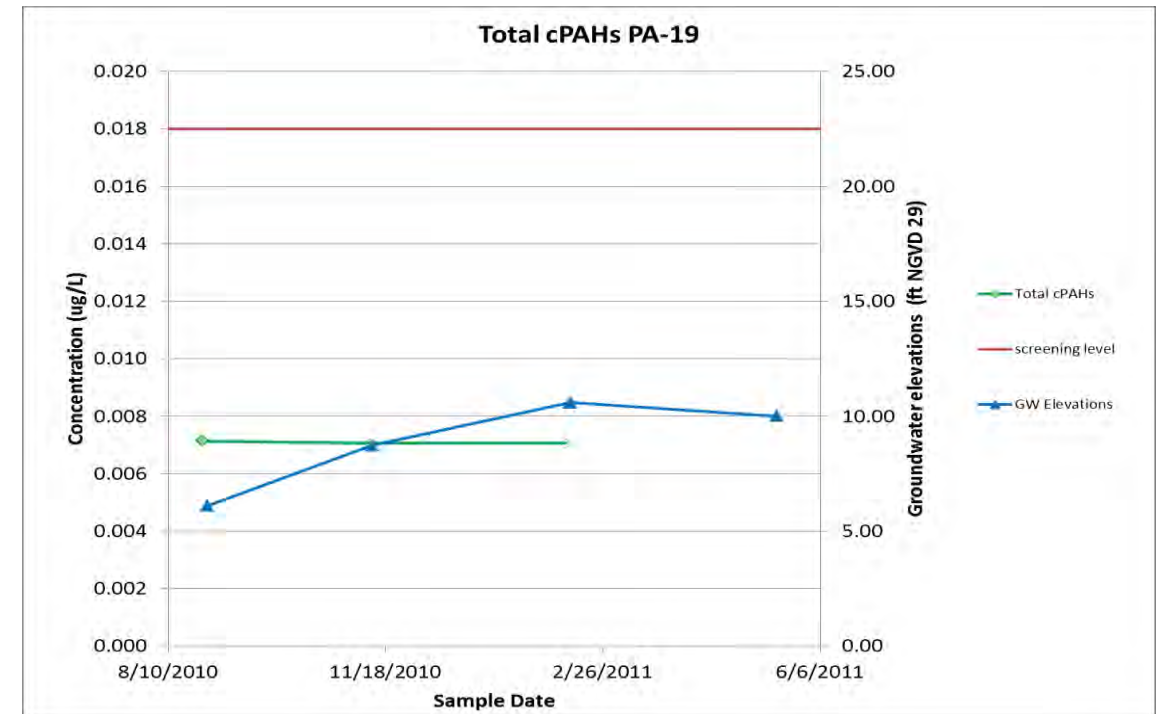
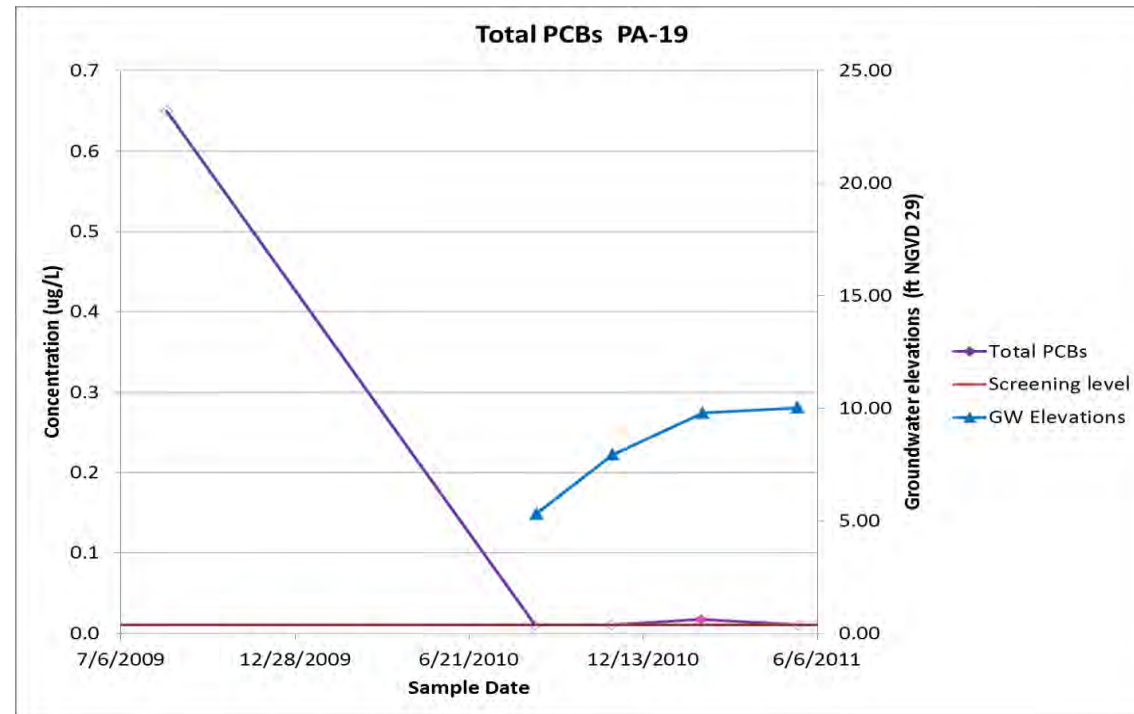
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph (MW 59)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

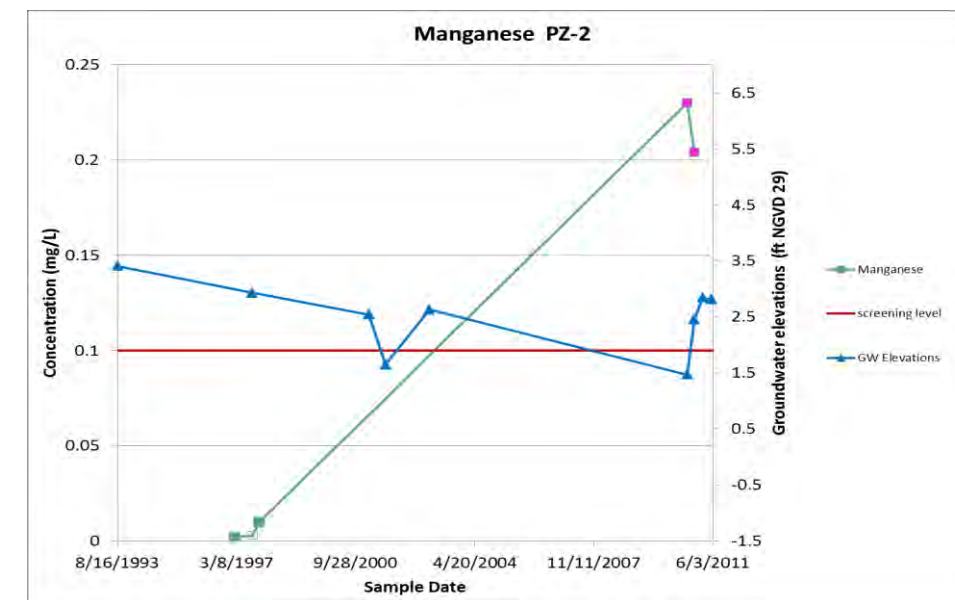
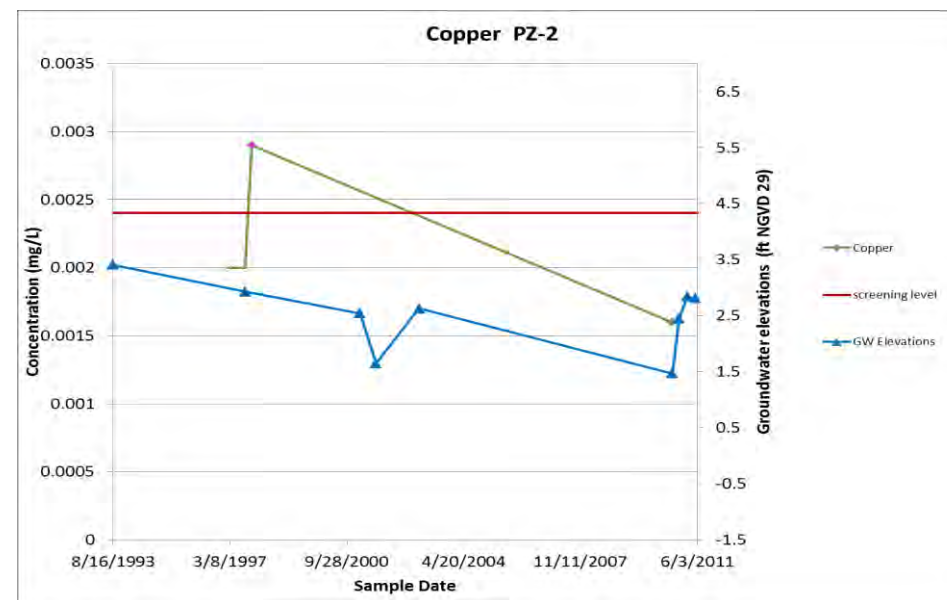
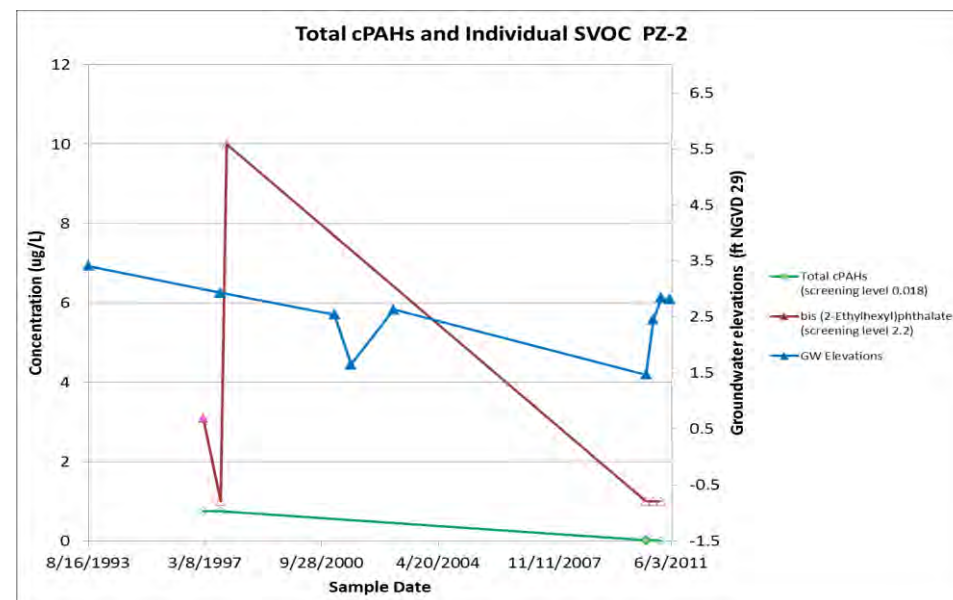
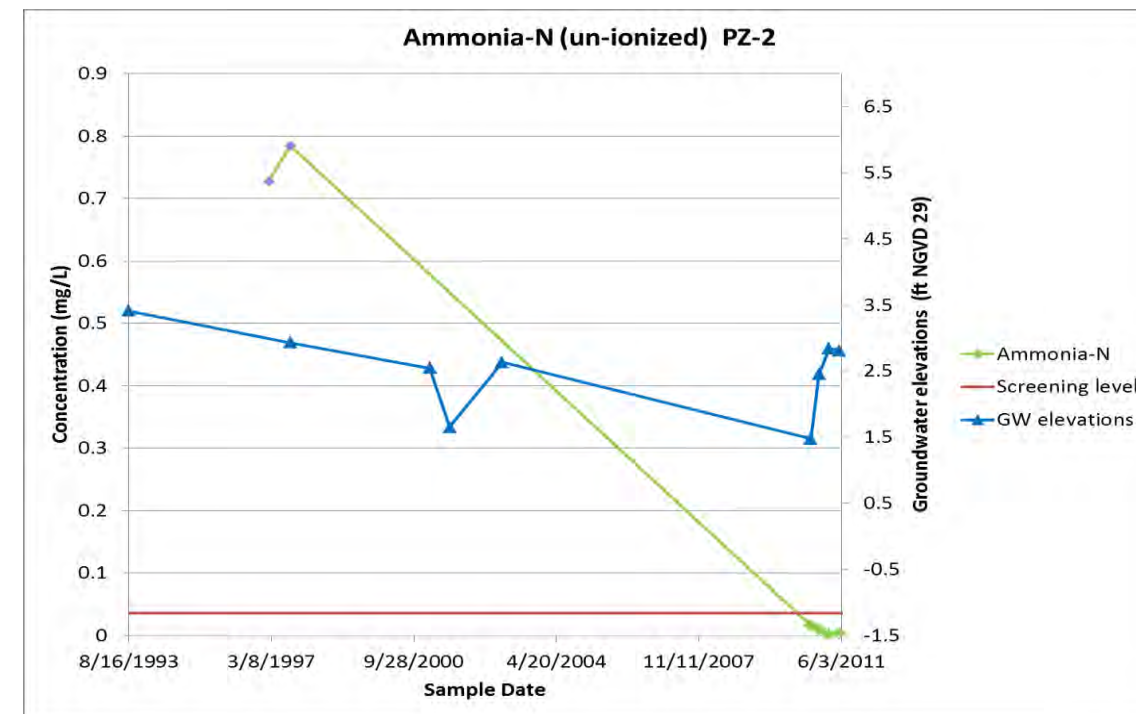
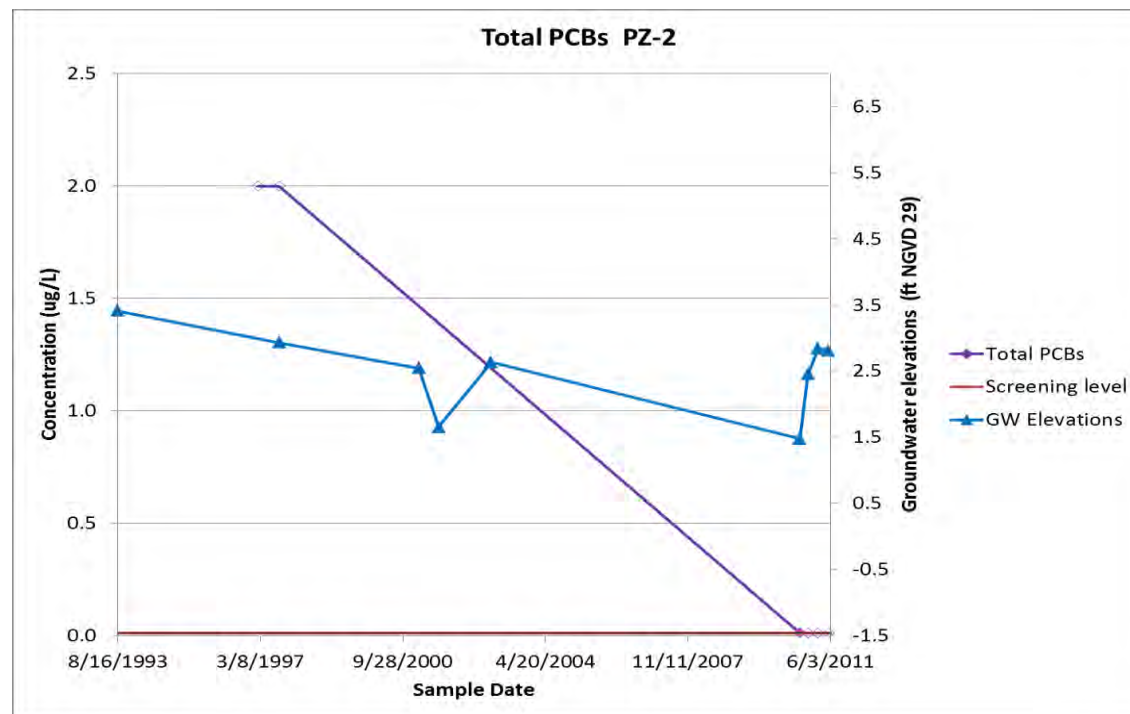
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. Ammonia-N not shown in this figure because well was only sampled twice for this constituent.
4. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph (PA 19)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

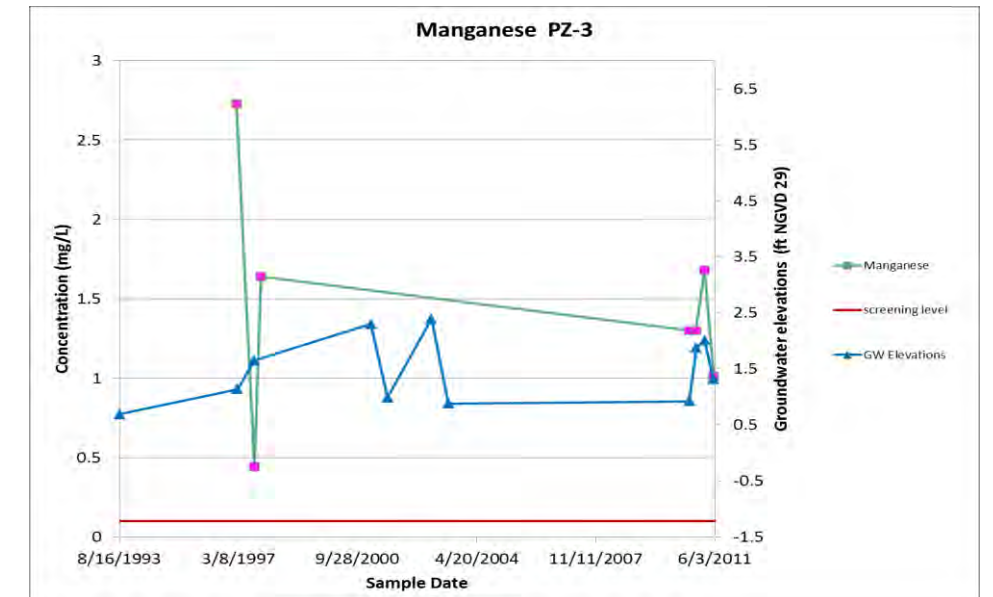
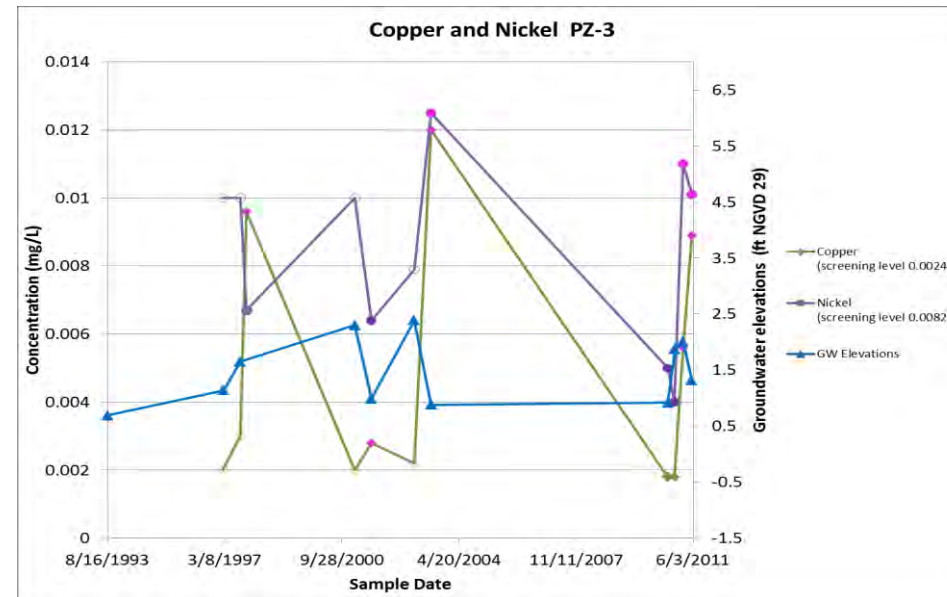
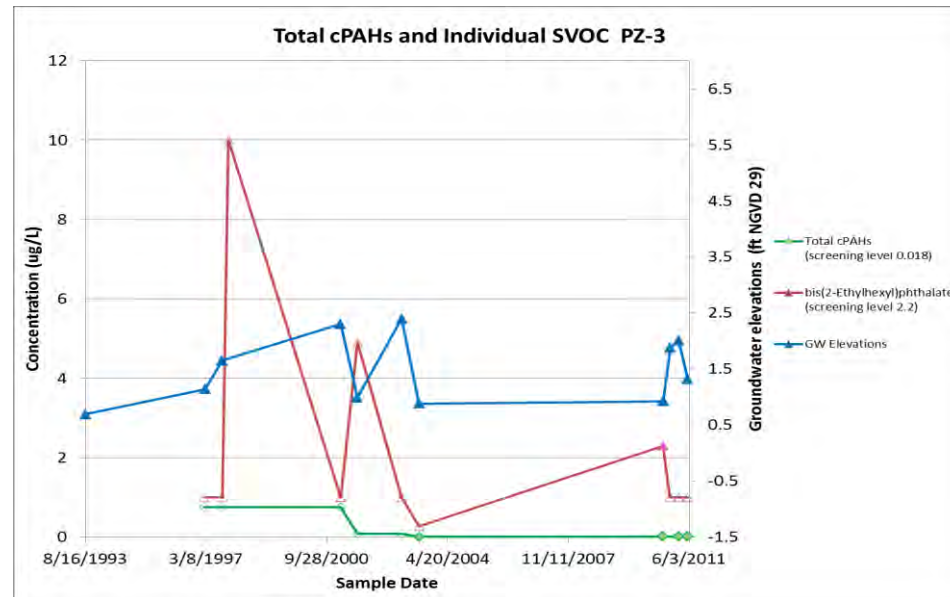
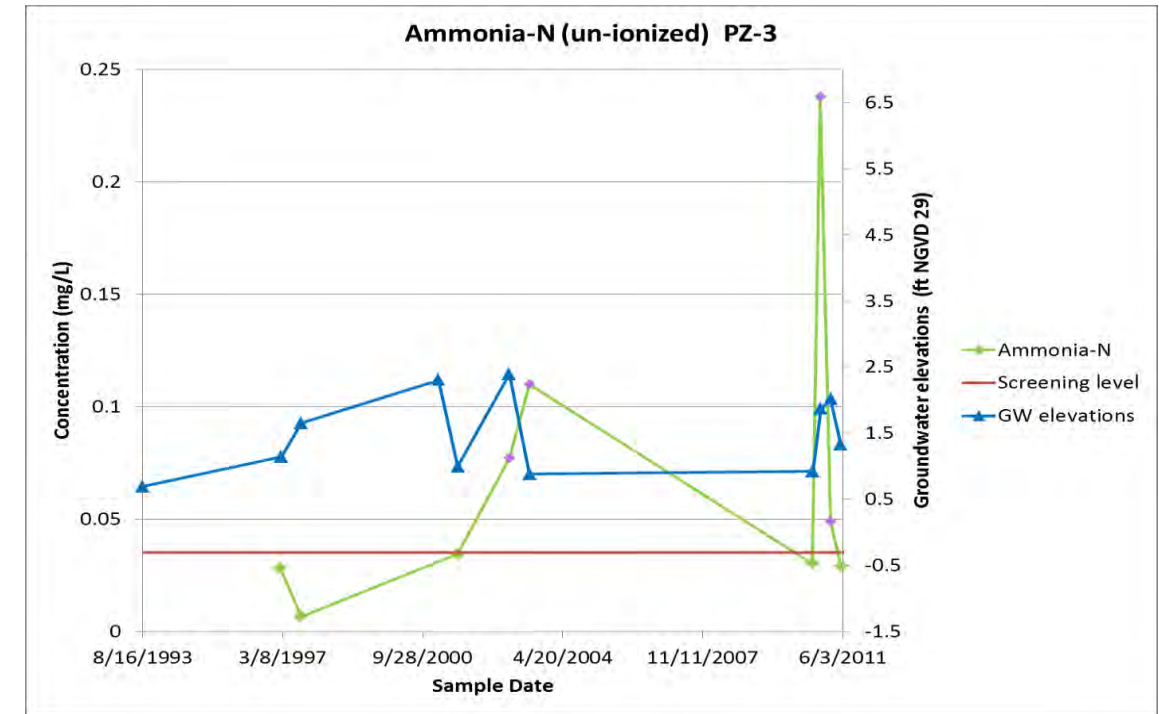
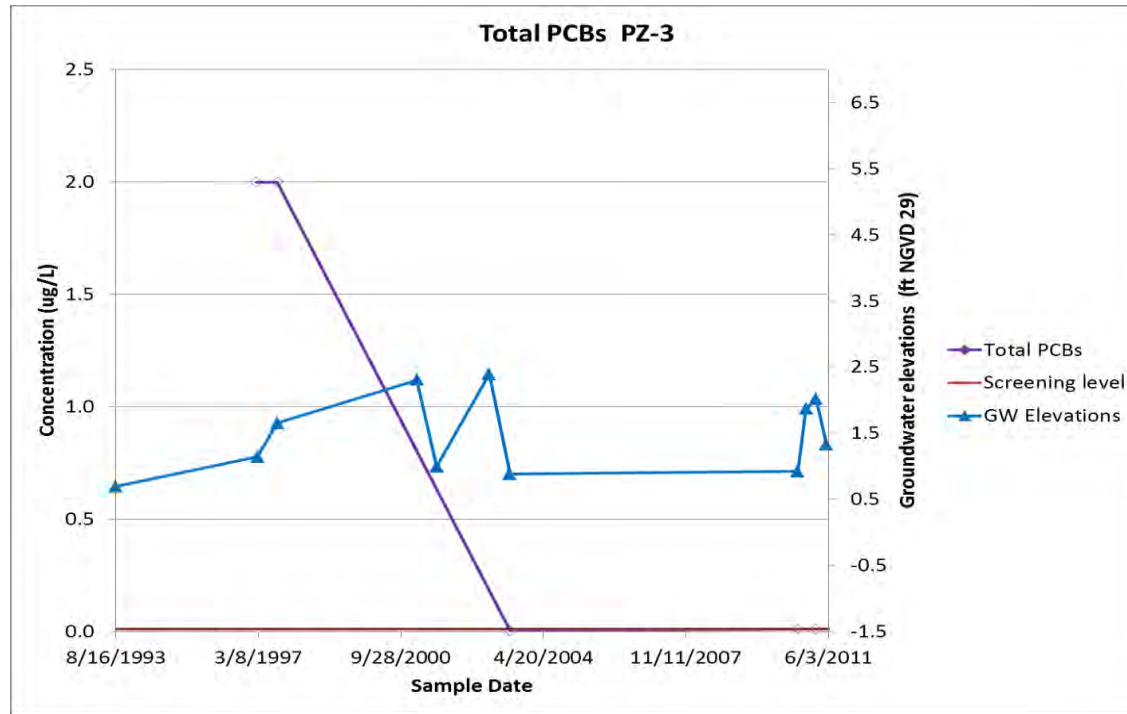
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph (PZ 2)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

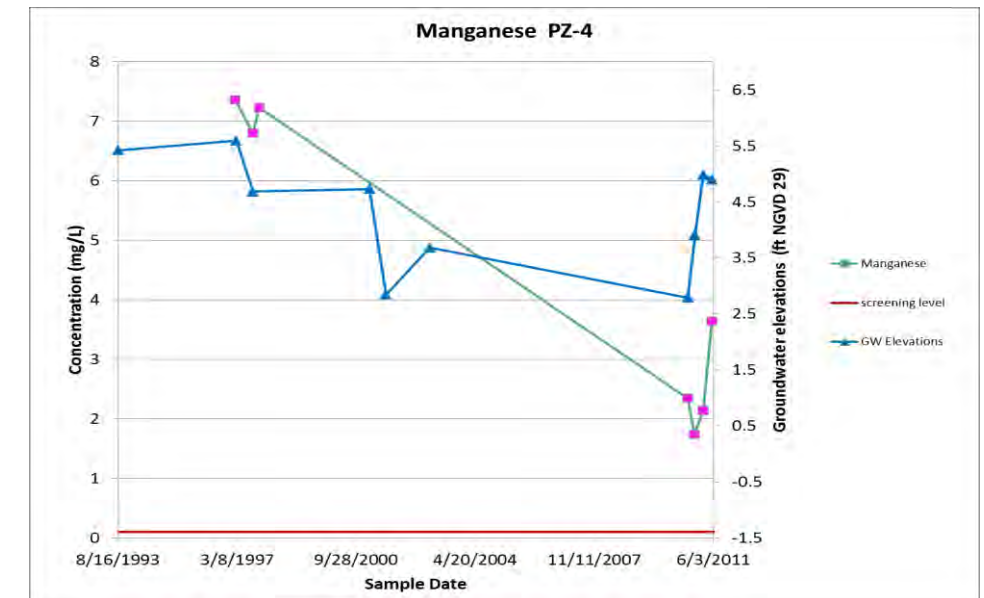
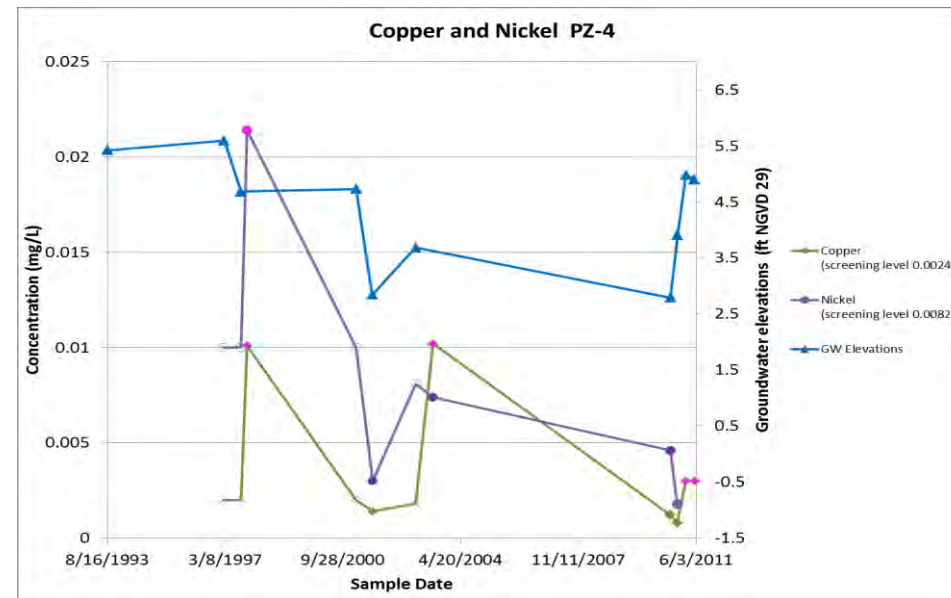
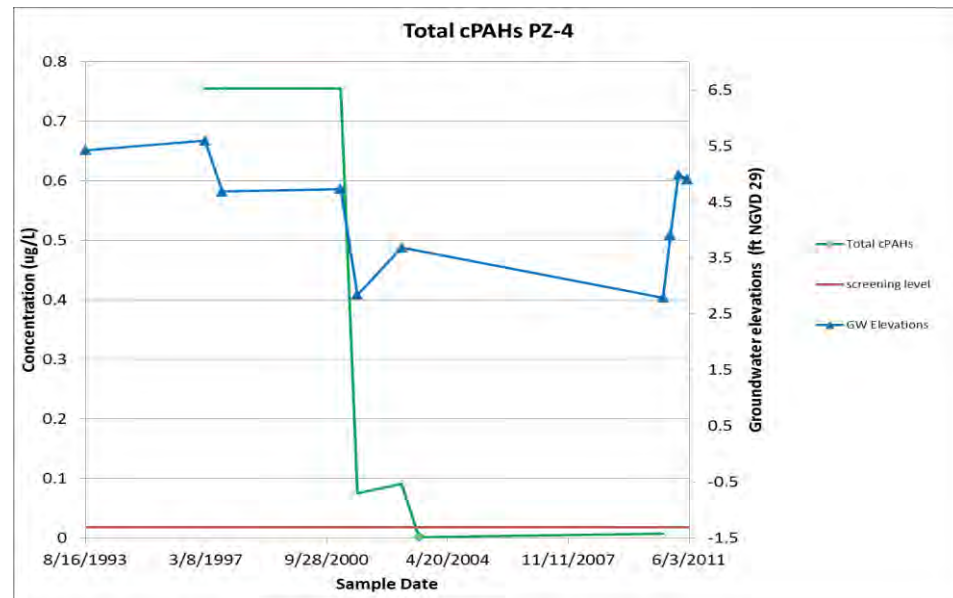
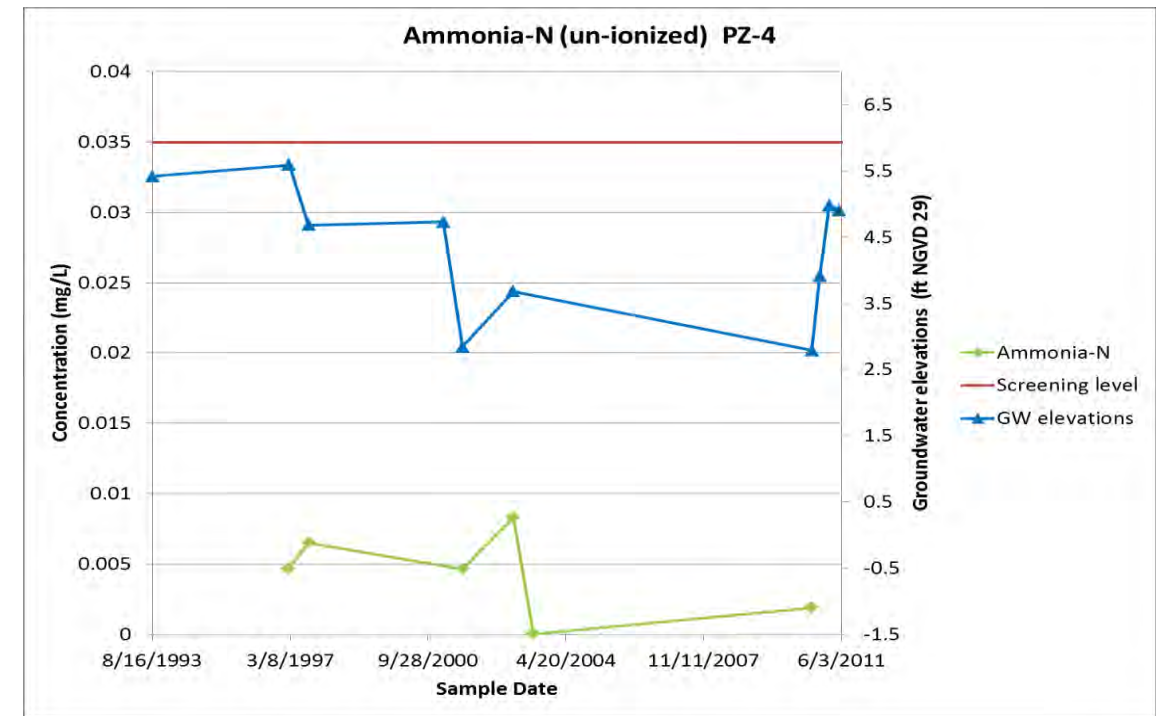
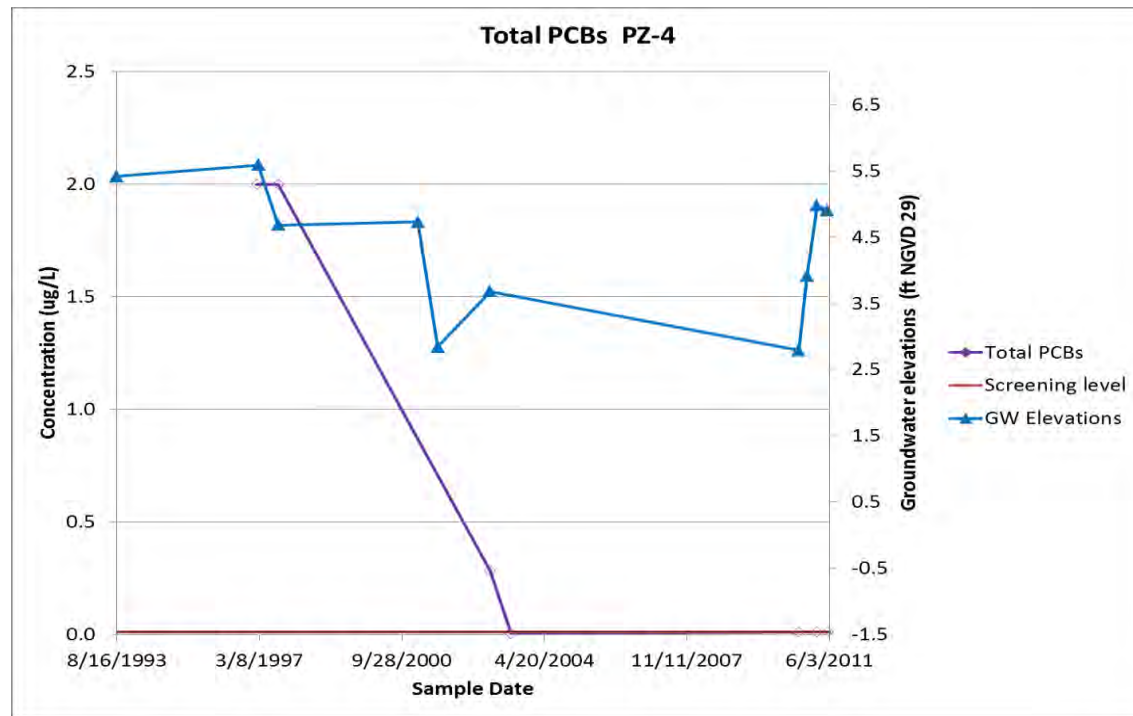
Notes:

- For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
- Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph (PZ 3)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

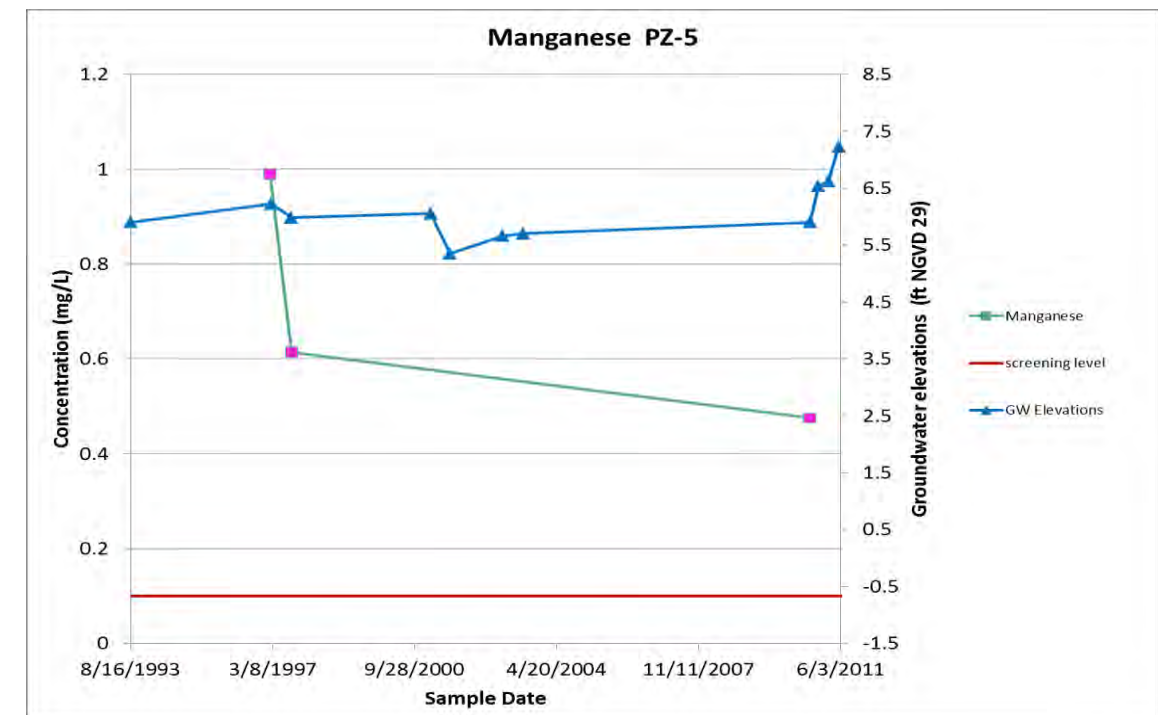
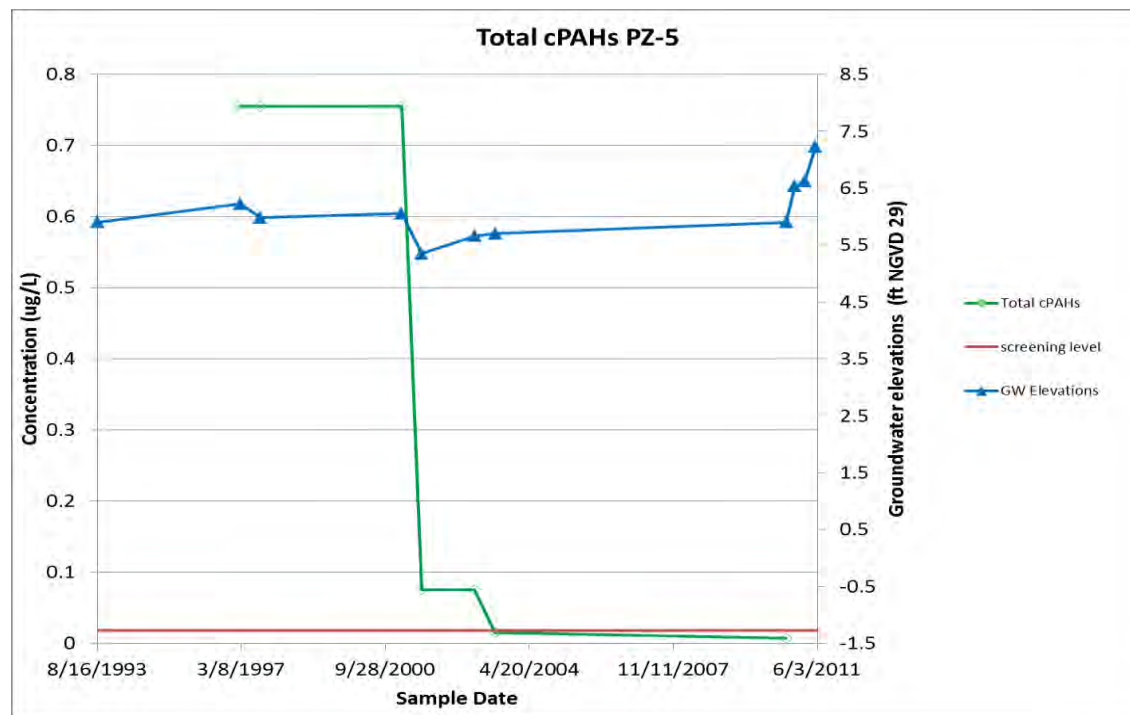
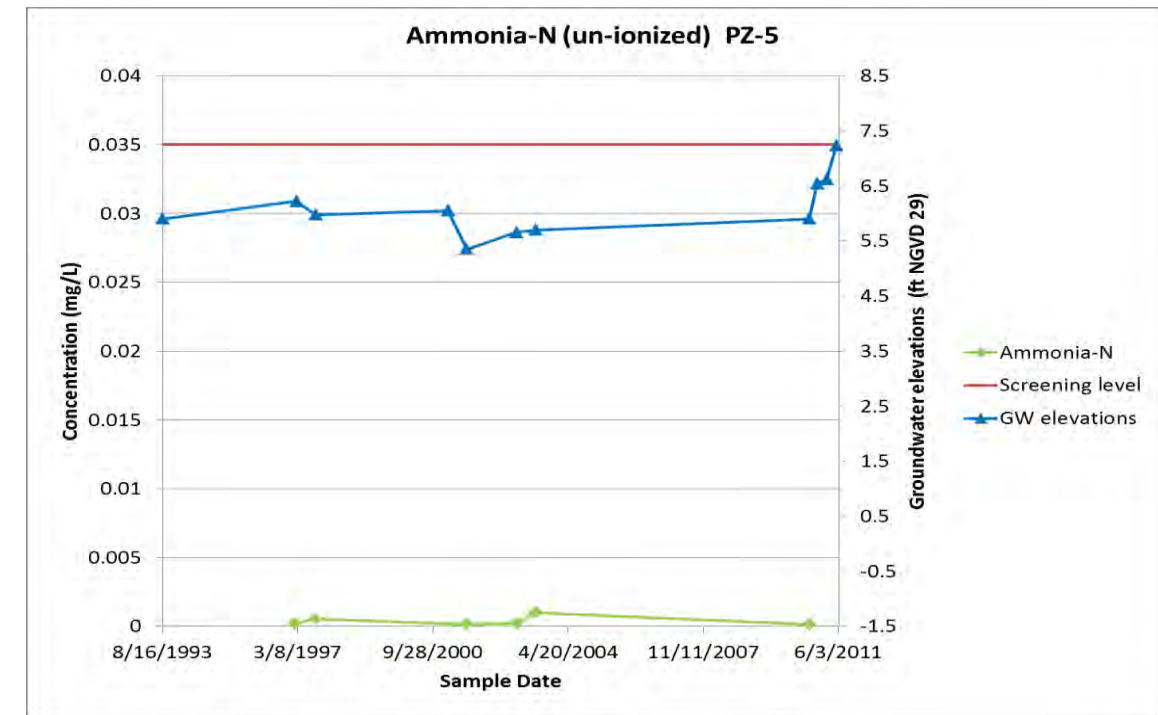
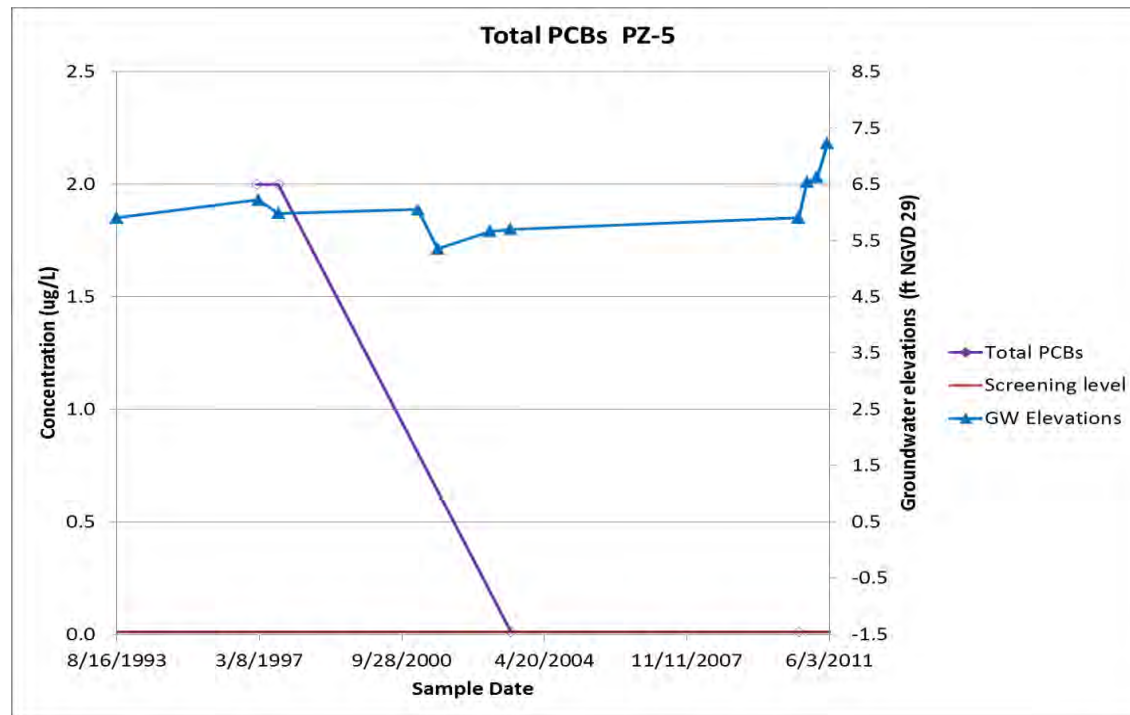
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph (PZ 4)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

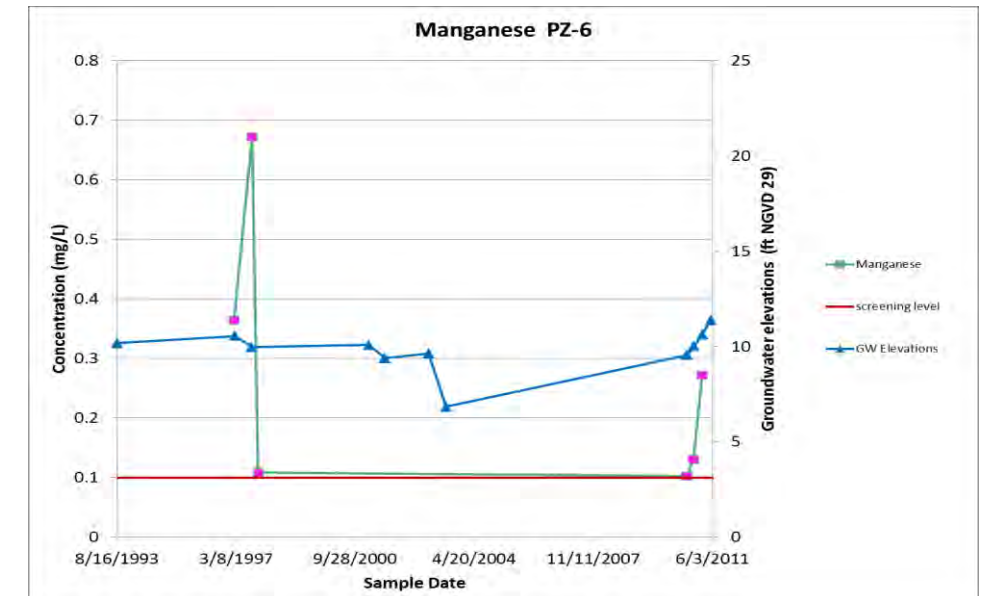
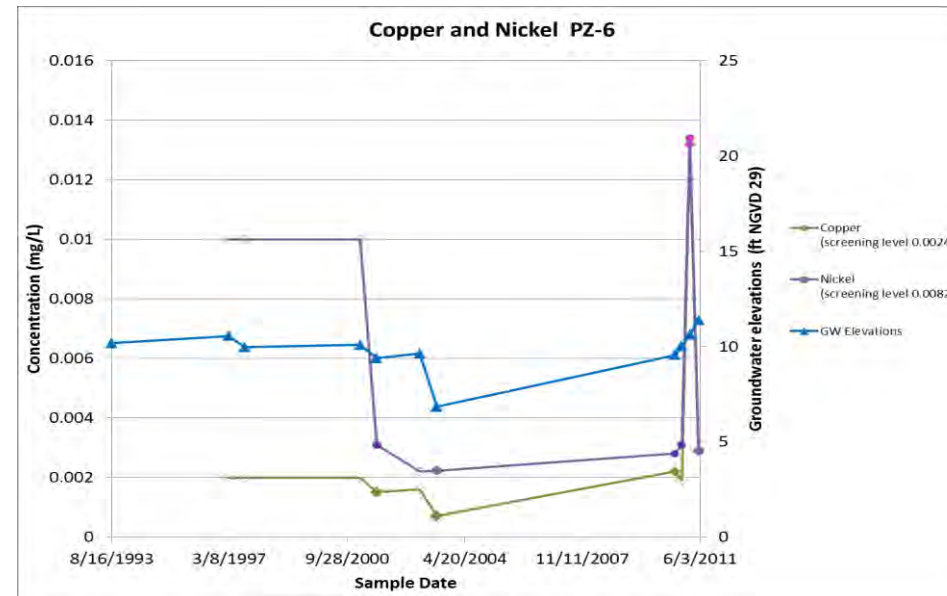
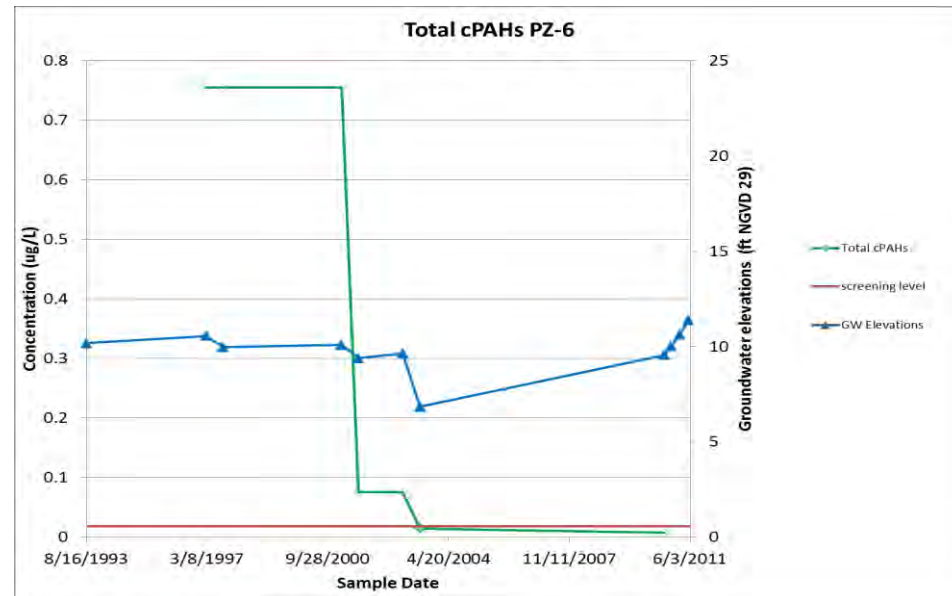
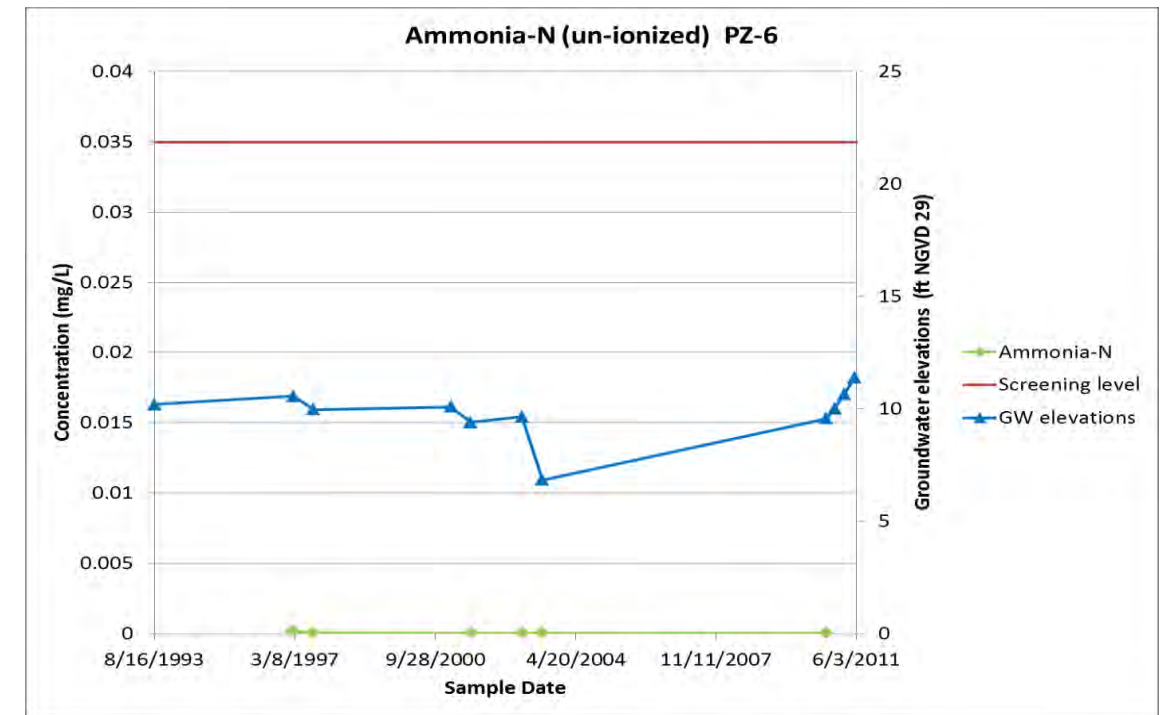
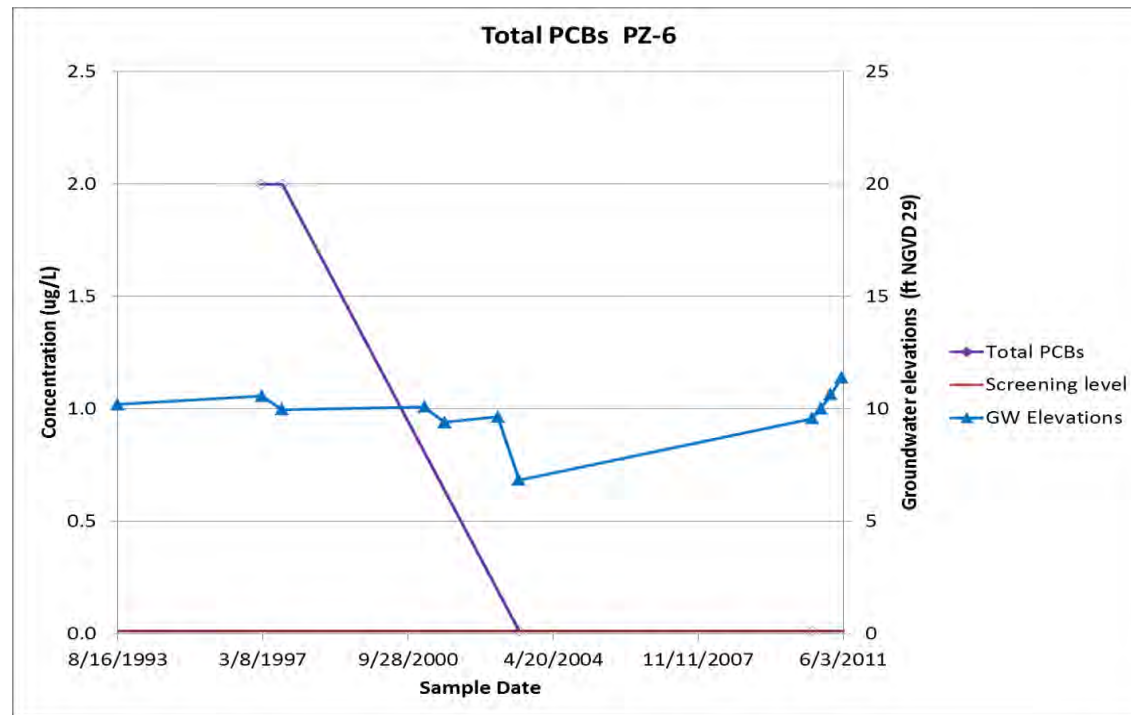
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph (PZ 5)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

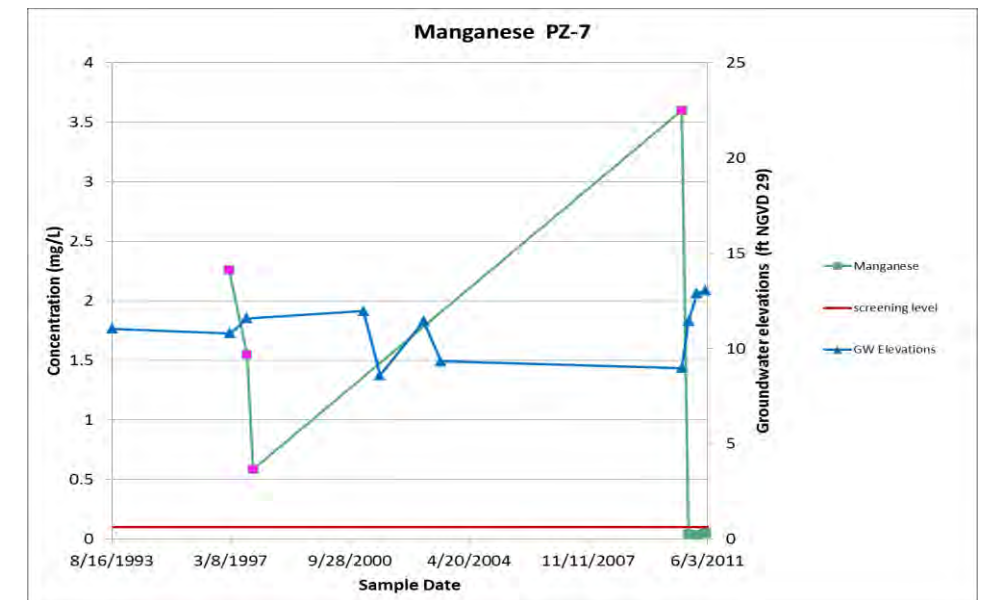
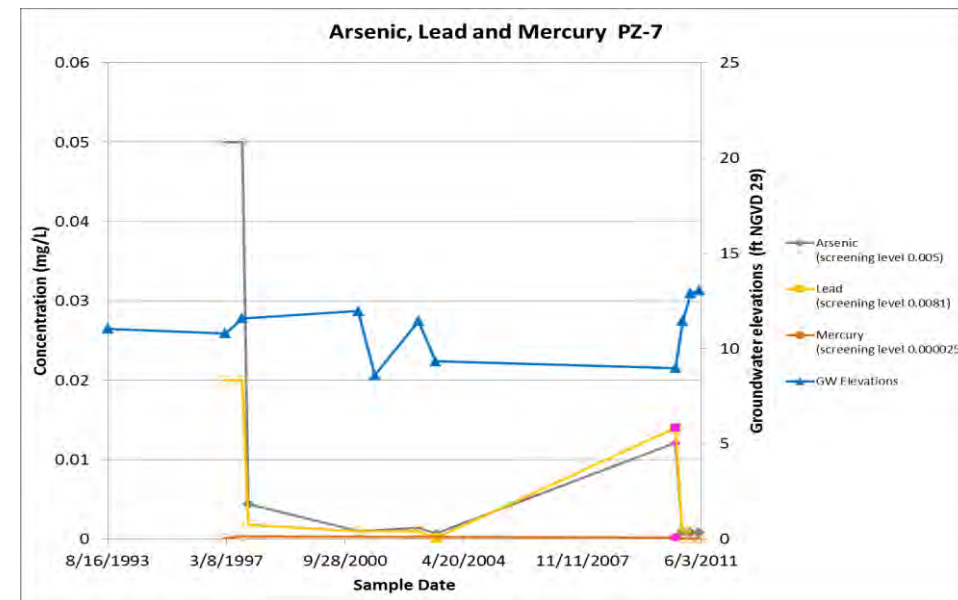
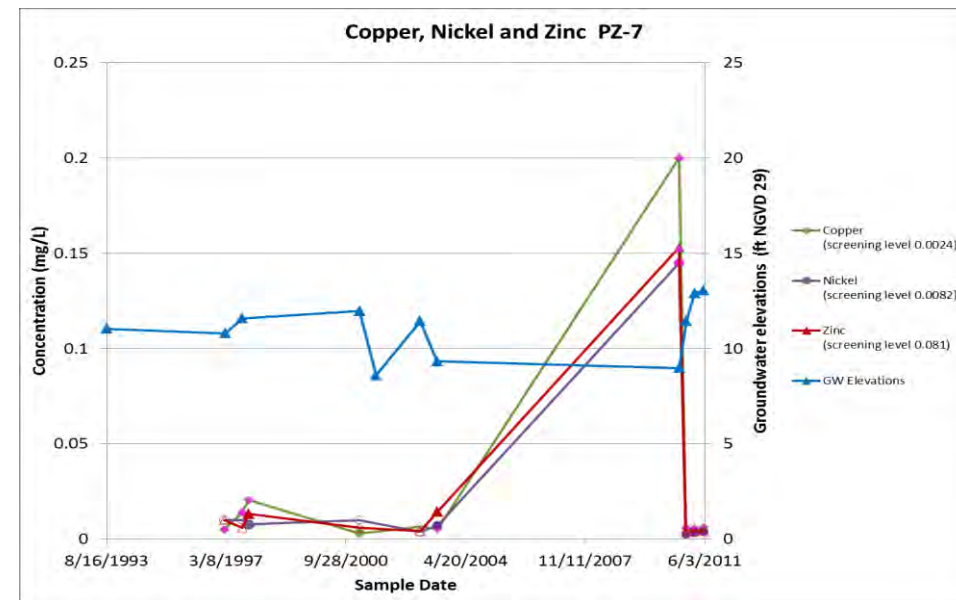
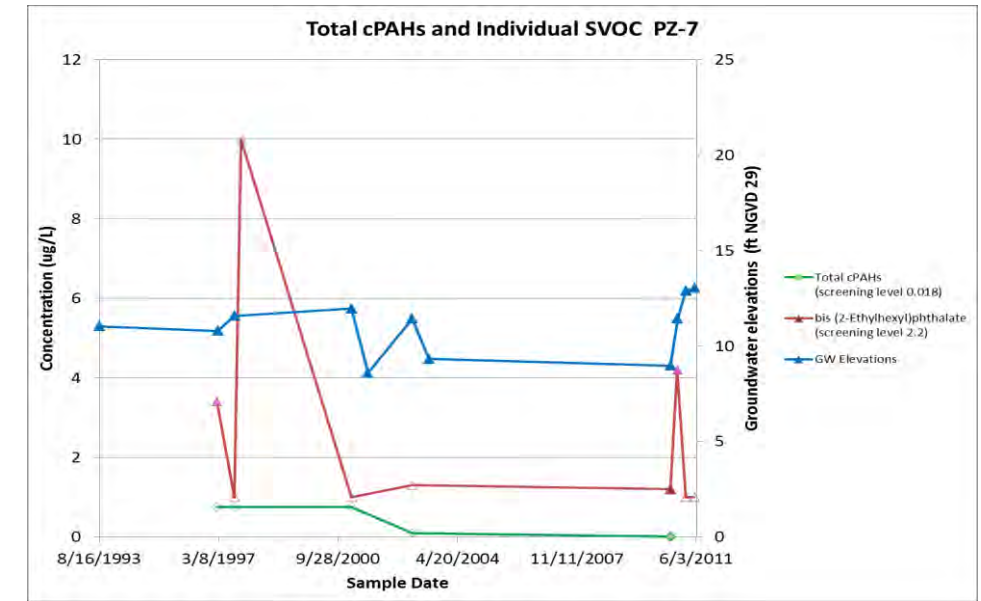
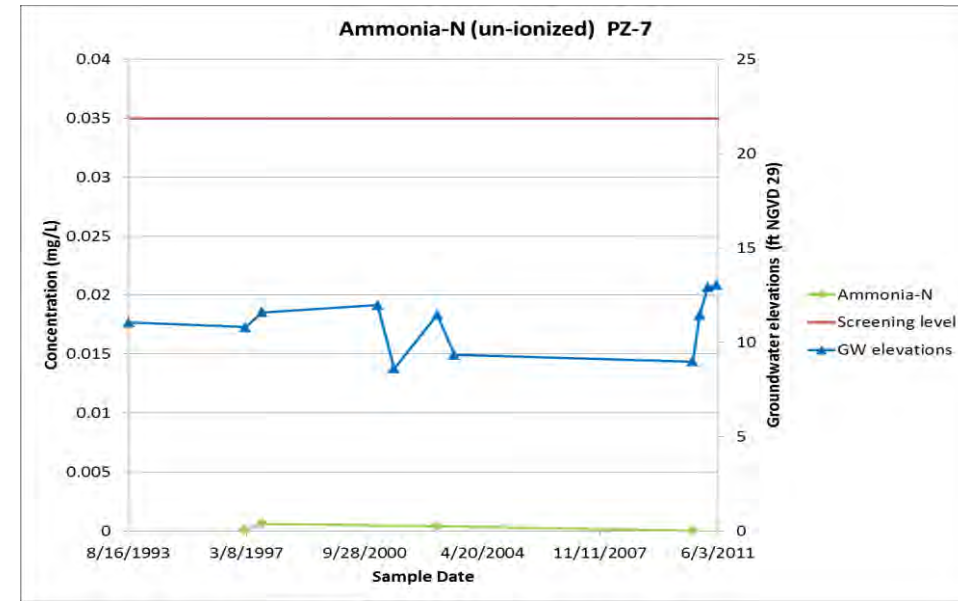
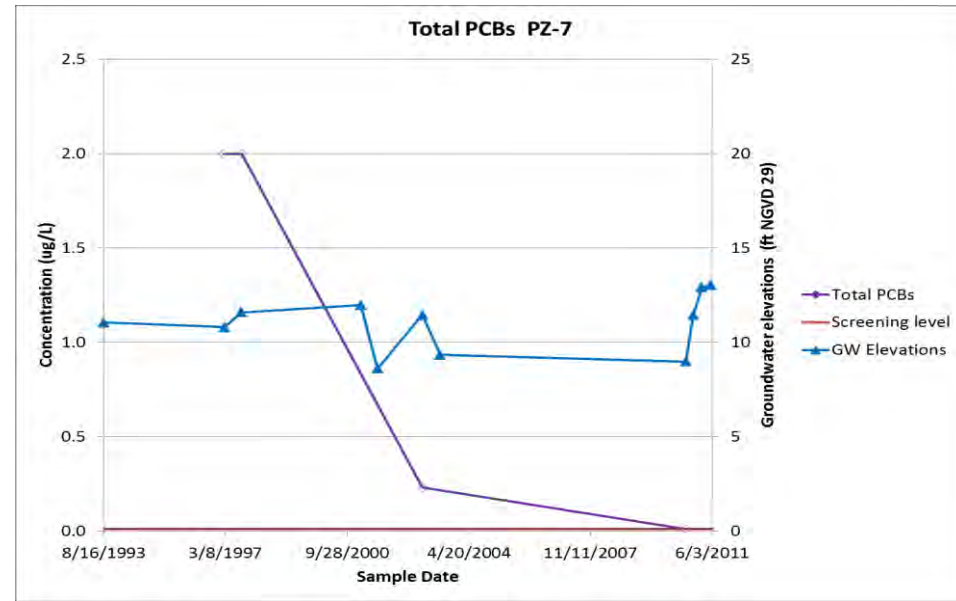
1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

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Contaminants of Concern and Hydrograph (PZ 6)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

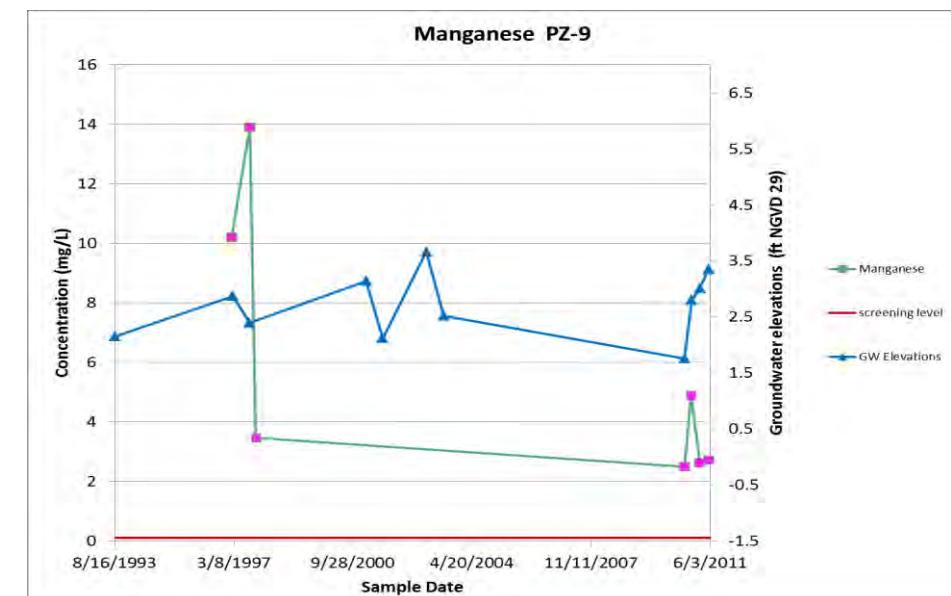
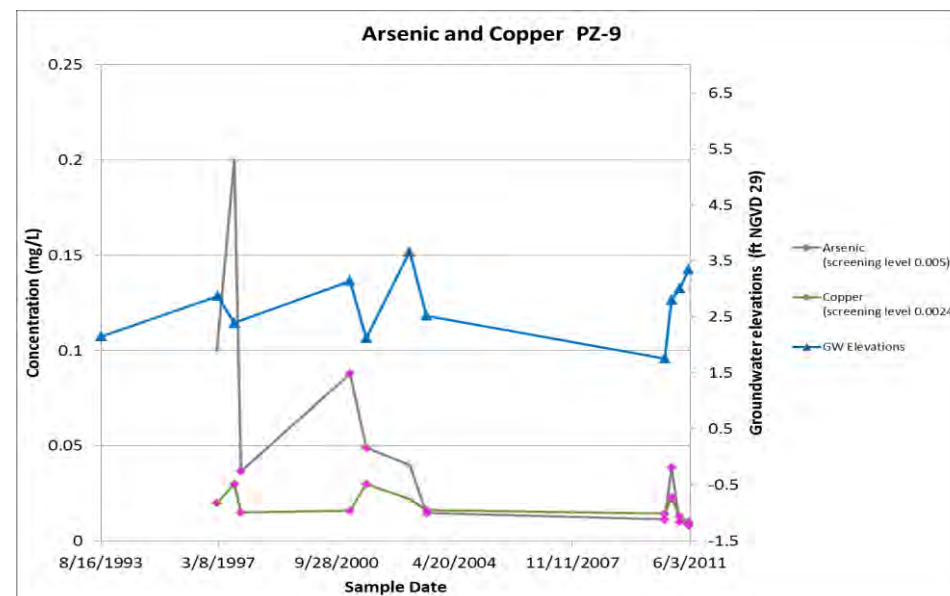
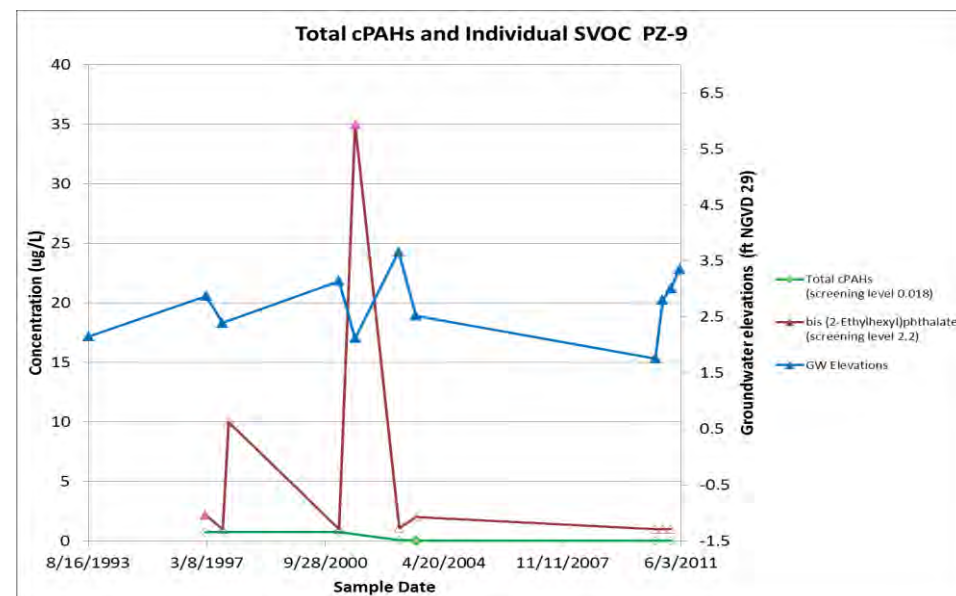
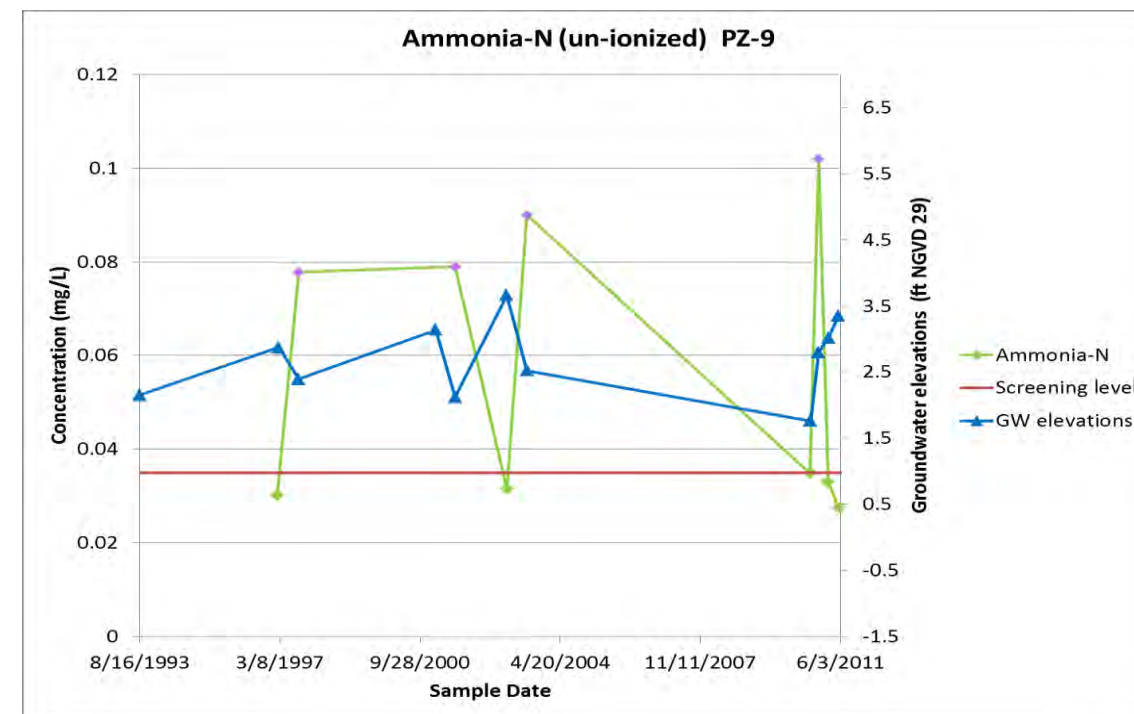
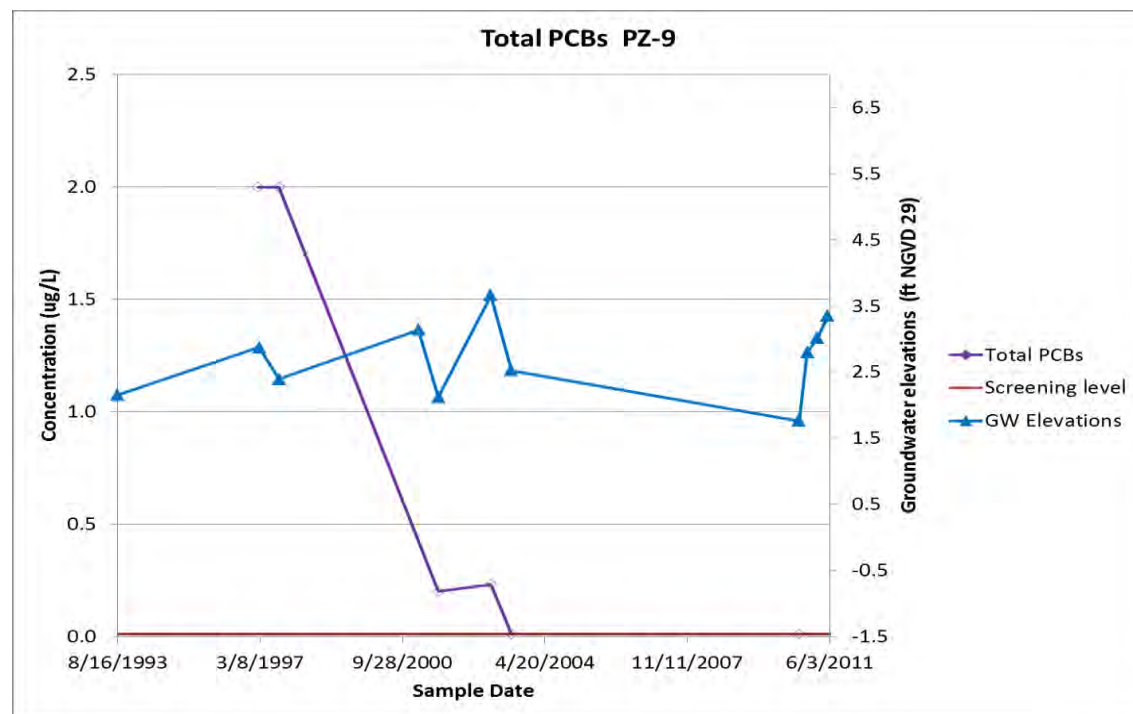
1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

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Contaminants of Concern and Hydrograph (PZ 7)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

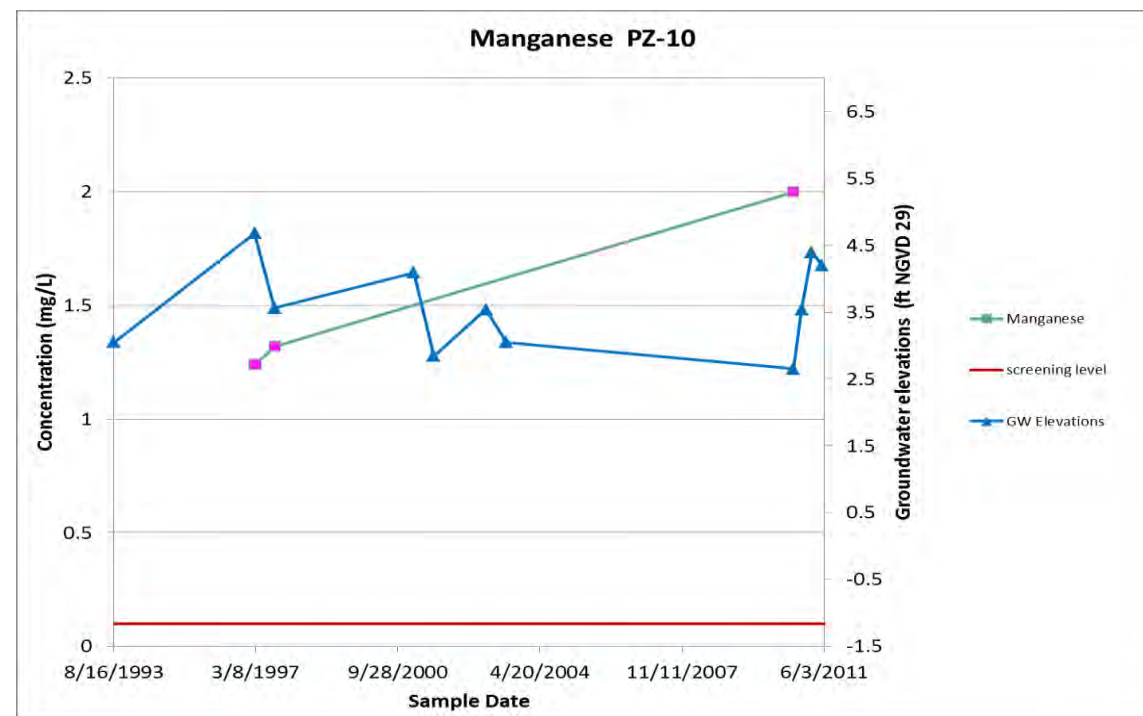
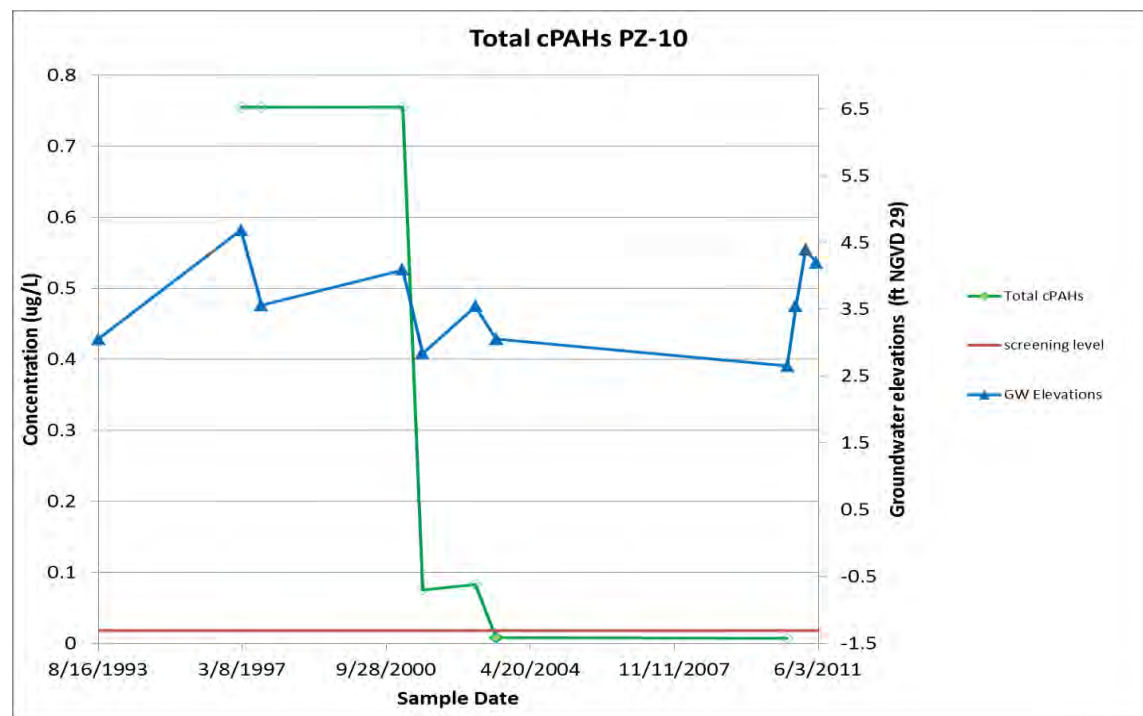
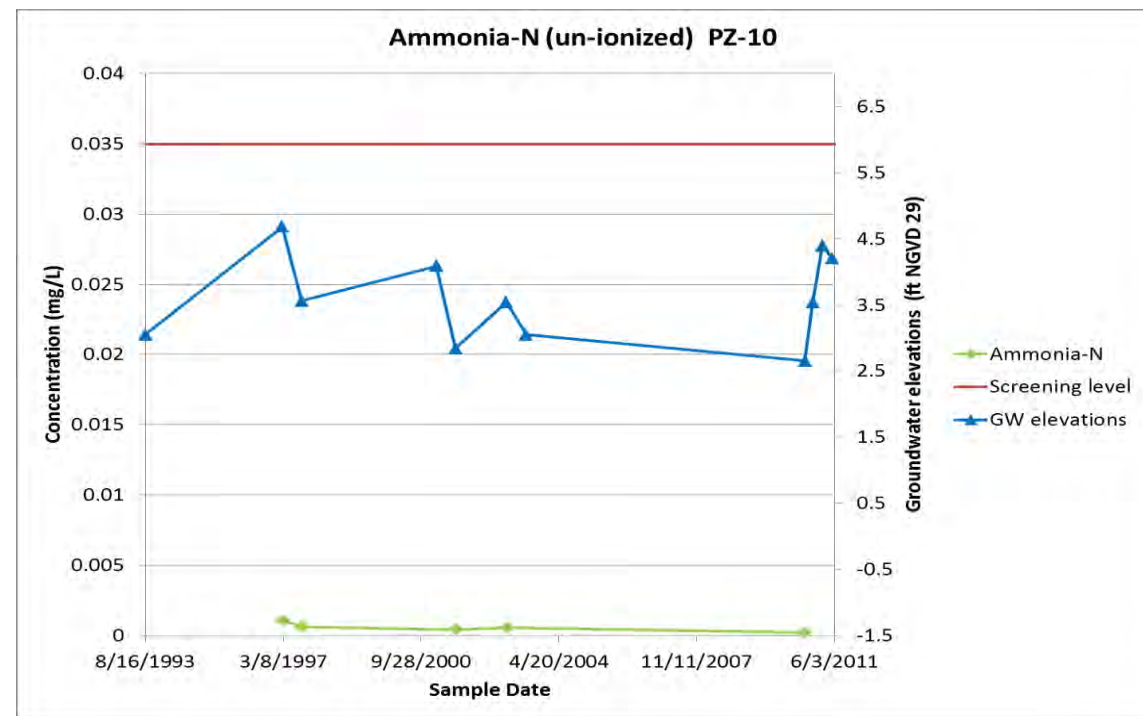
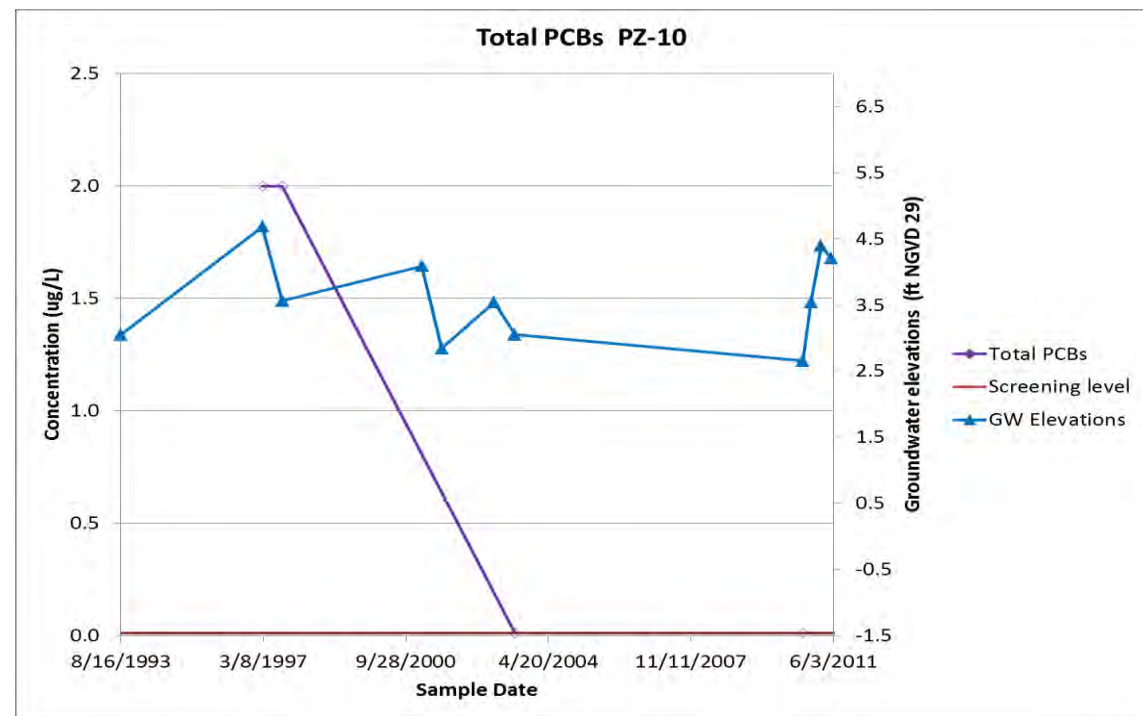
1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

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Contaminants of Concern and Hydrograph (PZ 9)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

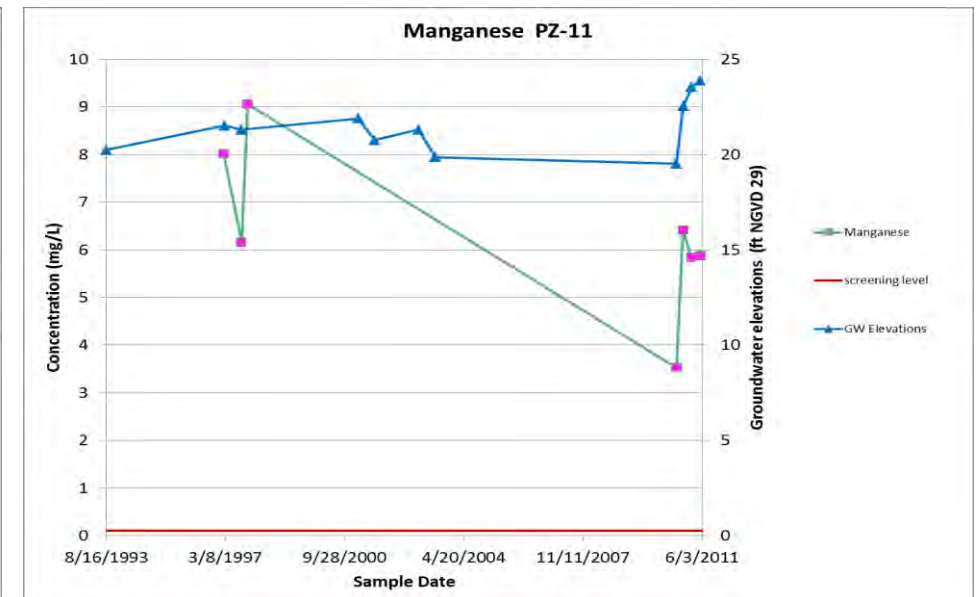
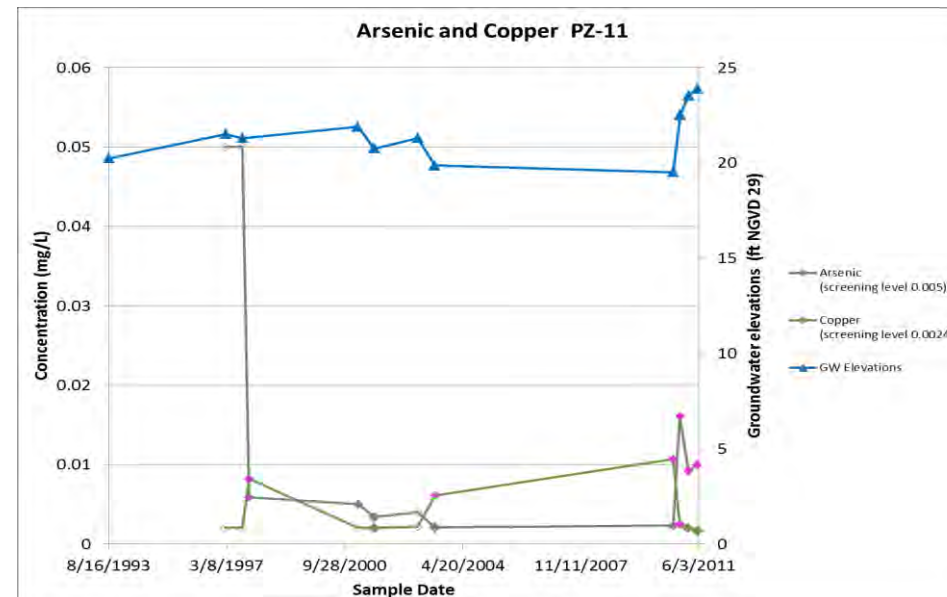
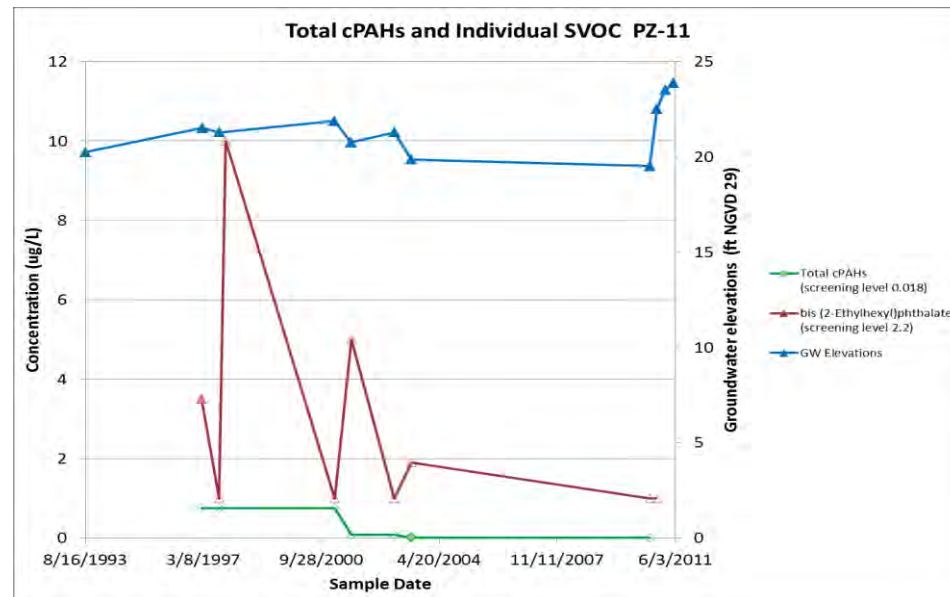
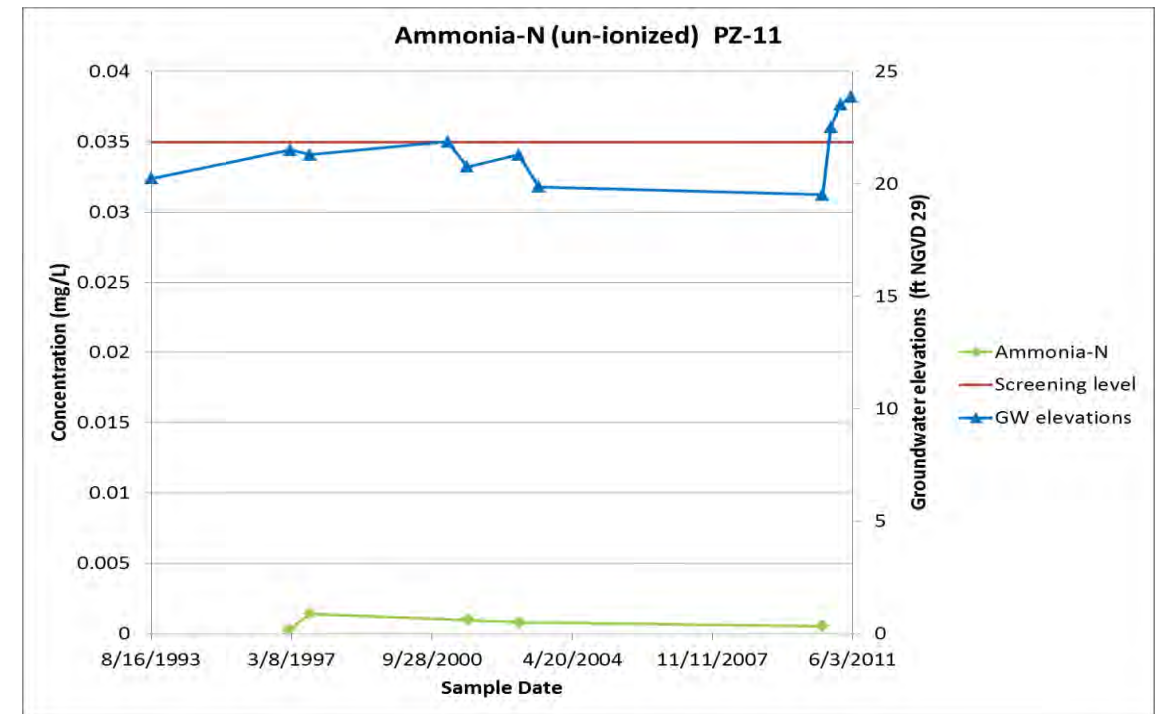
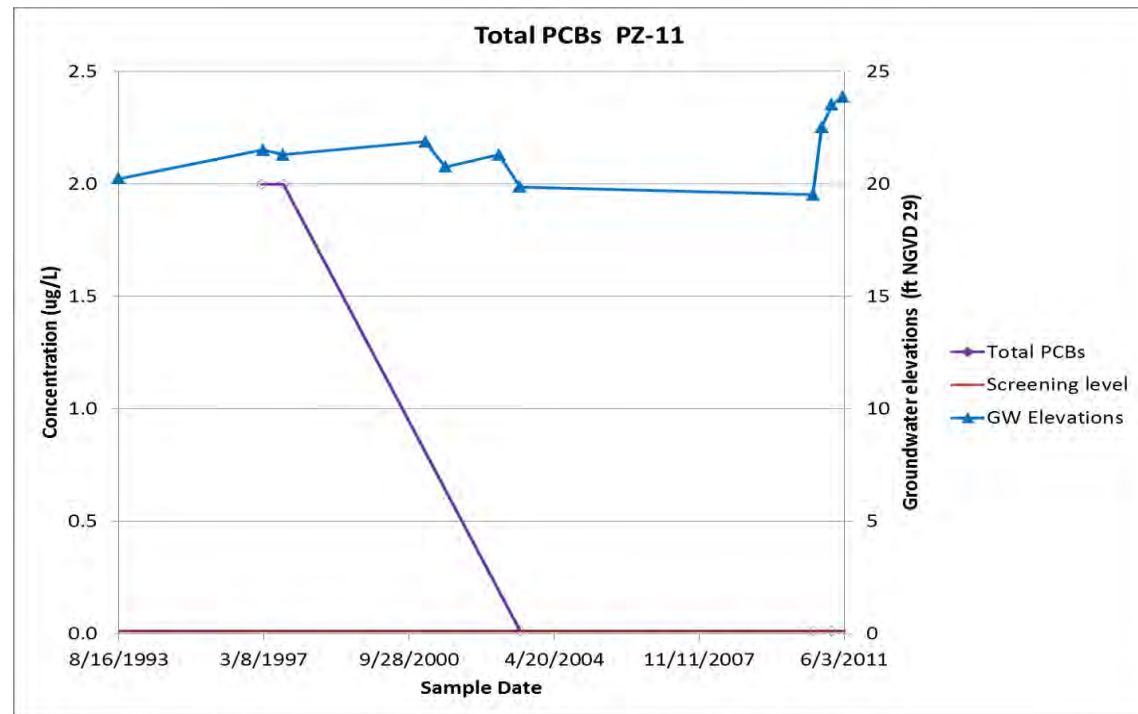
1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

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Contaminants of Concern and Hydrograph (PZ 10)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

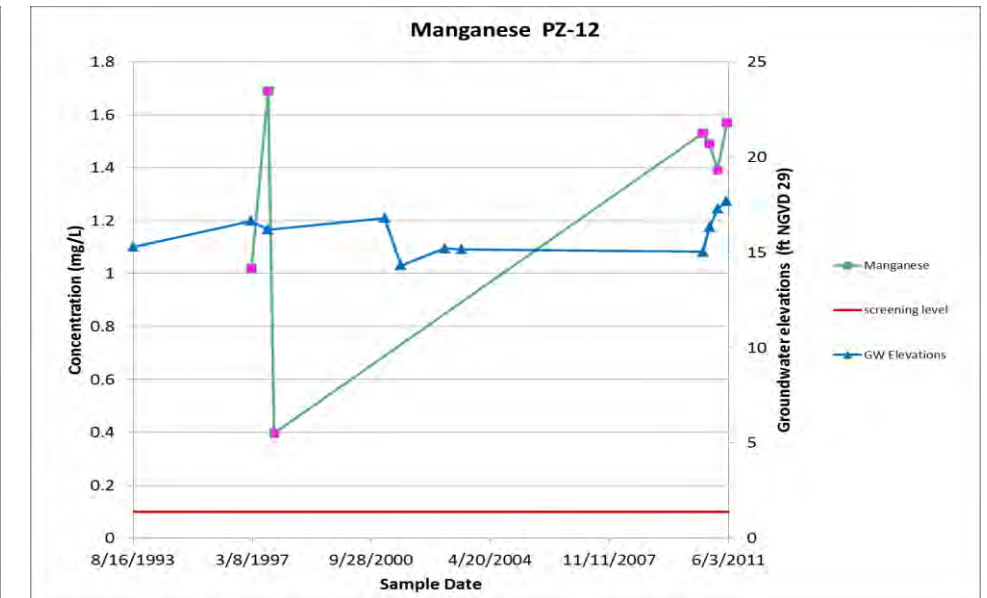
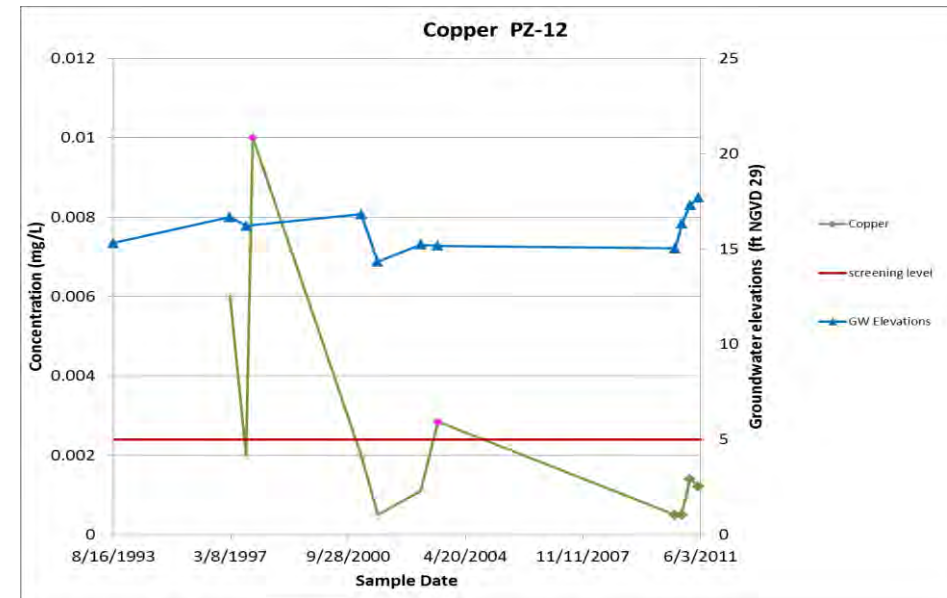
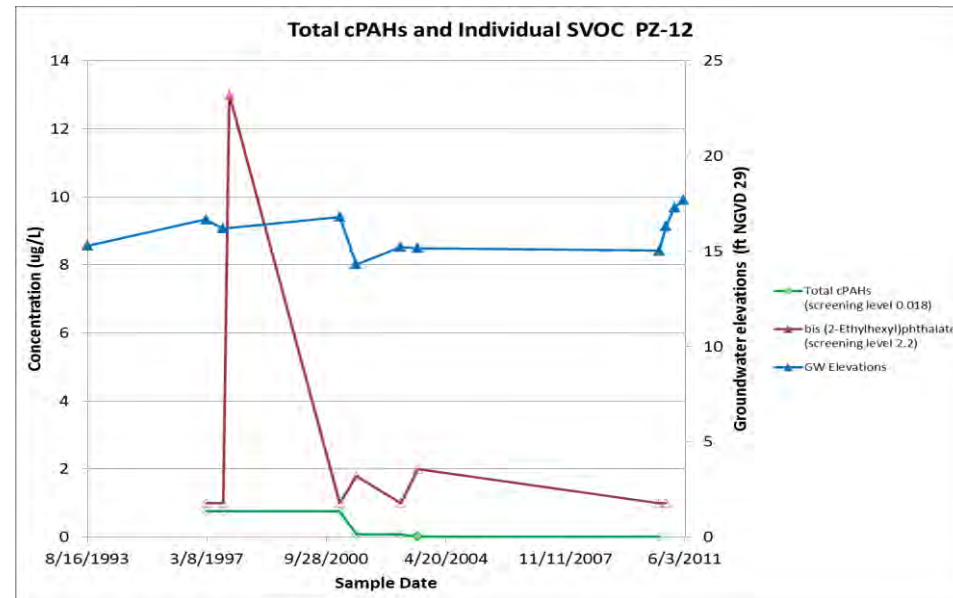
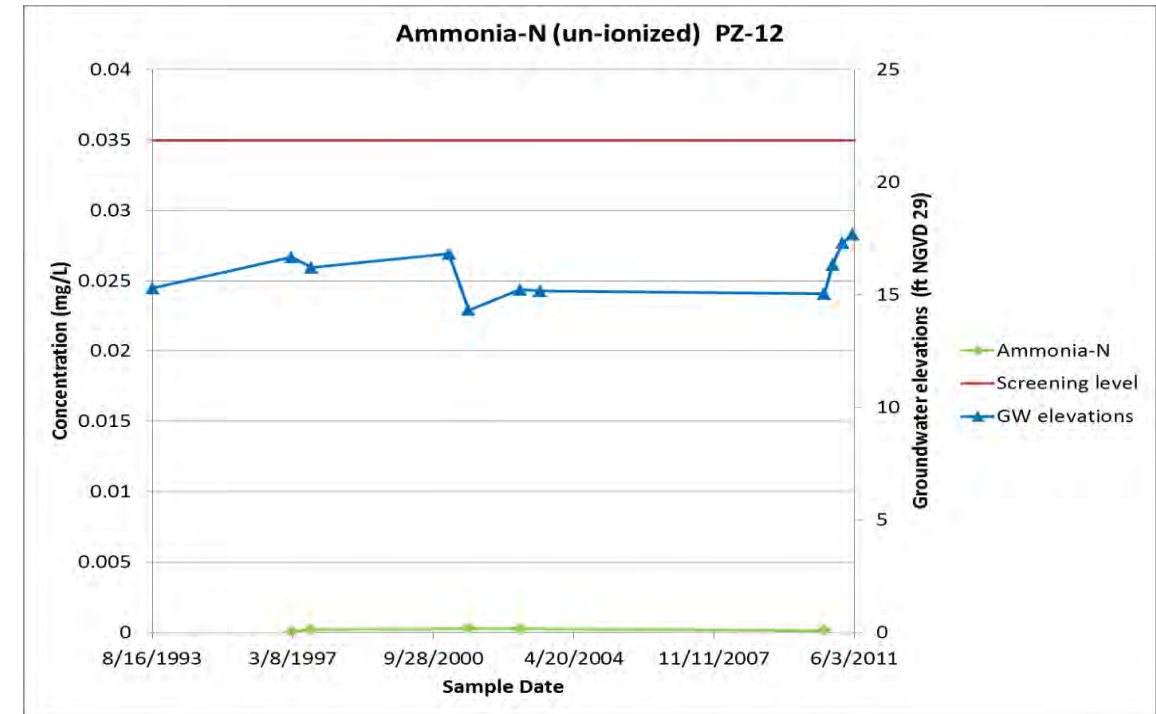
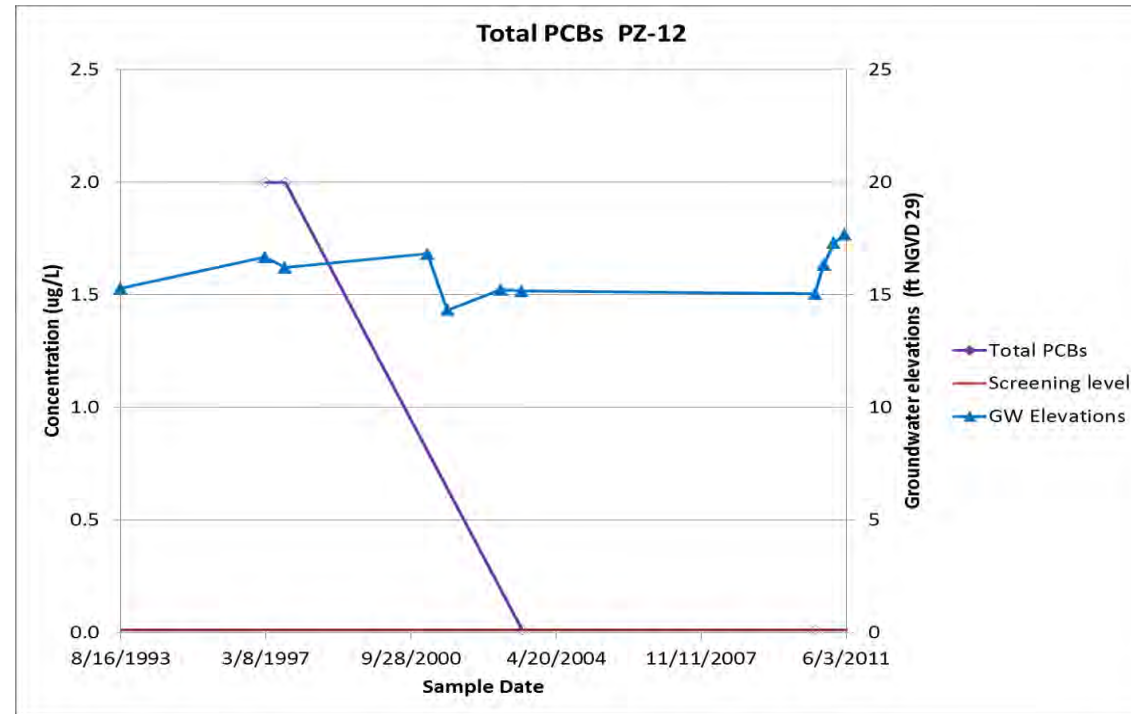
Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Contaminants of Concern and Hydrograph (PZ 11)

Port Angeles Rayonier Mill
Port Angeles, Washington





Legend

- Open symbol indicates non-detected result
- Filled symbol indicates detected result
- Pink symbol indicates detected result above screening level

Notes:

1. For metals trend plots, plotted data generally represent dissolved metals results (filtered samples); for sampling events where only total metals (unfiltered samples) were analyzed, the totals data are plotted.
2. Only metals and individual SVOCs with at least one screening level exceedance are shown in this figure.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

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Contaminants of Concern and Hydrograph (PZ 12)

Port Angeles Rayonier Mill
Port Angeles, Washington

