Transmittal

May 24, 2018

To:	Mr. Jerome Cruz Washington Department of Ecology 3190 160th Avenue Southeast Bellevue, Washington 98008 5452	Ref. No.:	070496
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Subject: First Quarter 2018 Groundwater Monitoring and Operations and Maintenance Report

No. of Copies	Description/Title	Drawing No./ Document Ref.	Issue
1	First Quarter 2018 Groundwater Monitoring and Operations and Maintenance Report		

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Remarks:

Copy to: Kyle Christie, Atlantic Richfield Company, Rich Solomon, Phillips 66 (upload)

Completed by: Christina McClelland [Please Print] Signed: 

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First Quarter 2018 Groundwater Monitoring and Operations and Maintenance Report

Phillips 66 Renton Terminal
2423 Lind Avenue Southwest
Renton, Washington

Agreed Order No. DE 11313
Facility Site I.D. No. 2070

GHD | 20818 44th Avenue West Suite 190 Lynnwood WA 98036

070496| 13MN00| Report No 53 | May 24, 2018

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1. Introduction

GHD is submitting this *First Quarter 2018 Groundwater Monitoring and Operations and Maintenance Report* on behalf of Phillips 66 Company (Phillips 66) and BP for the Phillips 66 Renton Terminal located at 2423 Lind Avenue Southwest, Renton, Washington (Site, Figure 1).

On September 28, 2015, ExxonMobil, Phillips 66, and Ecology entered into an Agreed Order (DE 11313) to facilitate implementation of the remedial actions presented in the *Final Cleanup Action Report* (CAP). The remedial actions included installation of a new Dual-Phase Extraction (DPE) system, Operations and Maintenance (O&M), and performance monitoring. The new DPE system was completed in May 2015. The system began operation in May 2015 for a period of one year and then was shut down until October 2016 to implement system modifications. The modified DPE system operated intermittently between October 2016 and May 2017, and nearly continuously from May 2017 to present.

The purpose of this quarterly report is to present the results of groundwater monitoring and DPE system operation and evaluate the performance of the cleanup action. Groundwater monitoring and remediation activities were completed in accordance with GHD's *Compliance Monitoring Plan* (CMP) dated October 19, 2016, *Final Cleanup Action Report* dated September 28, 2015, and the *Operations and Maintenance Manual* dated October 2015 (revised January 2017).

2. Description of Remediation System and Operational Status

Groundwater is extracted from DPE wells to a groundwater treatment system consisting of an oil-water separator (OWS), air stripper, equalization tank, sediment filters, and carbon vessels. The treated water effluent is discharged to the sanitary sewer system under King County Discharge Authorization Permit 7910-01. Soil vapor is extracted from the DPE wells under vacuum using four rotary claw blowers located in the main treatment compound. Air effluent from the air stripper along with soil vapor extracted from the DPE wells is treated by the thermal oxidizer and then discharged to the atmosphere under Puget Sound Clean Air Agency (PSCAA) discharge permit No.11102. A Site Plan is presented as Figure 2A; process and instrumentation diagrams were presented in GHD's *Fourth Quarter 2016 Groundwater Monitoring and Operation and Maintenance Report.*

During the reporting period, the DPE system recommenced operations on February 5, 2018 after undergoing winterization and other modifications. The DPE system operated for approximately 1,065 hours between February 5 and April 2, 2018 with an "up-time" of approximately 80%. The following are the notable system shutdowns that occurred during the reporting period:

- January 1, 2018 to February 5, 2018 planned shutdown for system winterization and modifications
- February 12, 2018 to February 16, 2018 planned shutdown for sensor replacement
- February 23, 2018 to February 27, 2018 planned shutdown for quarterly groundwater sampling

- February 9, 2018 to February 12, 2018, March 11, 2018 and March 26, 2018 unplanned shutdowns due to system alarms
- Several routine planned shutdowns for air stripper cleaning and carbon back flushes
- March 26, 2018 GWE system remained shutdown and SVE only in operation

At present, the system is processing groundwater extracted from six remediation wells, and vapor extracted from 43 remediation wells, 15 of which are enhanced by air sweep. System operational data is provided in Tables 1 through 4. We are approaching full-scale operation at design capacity. By the end of the 3rd Quarter 2018, we anticipate maximum groundwater recovery, as per the system design capacity, as well as continued vapor and liquid phase mass recovery.

3. First Quarter 2018 Remediation Activities

Remediation activities for the DPE system consist of equipment maintenance, performance monitoring, monthly compliance sampling, system shutdown response, troubleshooting, and repairs. Scheduled visits for routine O&M are made twice a week. A summary of the operational data collected for the DPE system is presented in Table 2.

The following system maintenance and repair activities were completed:

- Sediment filter bag change-outs
- Cleaning of valves and transfer pumps
- Cleaning and servicing of well pumps
- Air stripper cleaning
- Carbon vessel back flushes
- Carbon vessel platform modifications
- Air compressor oil and coolant change
- Blower maintenance and oil change
- Heat trace and pipe insulation installation
- Alarm sensor replacement

From December 20, 2017 to February 5, 2018 the system was shutdown for winterization and system modifications. Modifications to the system included adding two sediment bag filters before the air stripper, replacing the four pre-carbon treatment sediment bag filters with larger capacity sediment bag filters, re-plumbing the recirculation piping and equalization (EQ) tank transfer pump piping and moving the EQ tank effluent outlet higher up in the tank.

4. Summary of Compliance Sampling

The King County discharge authorization for the DPE system requires monthly compliance sampling. Samples were collected monthly during this operational period to monitor performance and verify compliance on February 16, 2018 and March 13, 2018. Samples were not collected during the month of January because no operation and discharge occurred during this month. Treated effluent water samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) per Ecology Method NWTPH-Gx, total petroleum hydrocarbons as diesel (TPHd) and total petroleum hydrocarbons as motor oil (TPHo) per Ecology Method NWTPH-Dx, benzene, toluene, ethylbenzene, and xylenes (BTEX) per EPA Method 8260, and fats, oils, and grease (FOG) per EPA Method 1664A. The point of compliance for the permit is at the treated water effluent. All compliance samples collected demonstrated compliance with the permit conditions. Laboratory analytical reports are presented in Appendix A. Treated groundwater compliance sampling data are presented on Table 1. Results are presented to King County on a quarterly basis. The First Quarter 2018 Self-Monitoring Report is presented in Appendix B.

The PSCAA air discharge permit for the DPE system requires monthly compliance sampling for TPHg and BTEX. Compliance samples were collected on February 16, 2018 and March 13, 2018. Samples were not collected in January because there was no operation and therefore, no air emissions. Air samples were collected from the oxidizer influent and effluent and analyzed for TPHg and BTEX per EPA Method TO-14. Laboratory analytical reports are presented in Appendix A. All compliance samples collected demonstrate compliance with permit conditions. Air compliance sampling data are presented on Table 3.

5. Summary of System Performance

Contaminant removal rates for the DPE system are consistent with historical removal rates. Mass removal rates and total mass removed are presented on Table 4 and Figures 3 and 4.

During the reporting period, the groundwater extraction system operated intermittently for reasons noted in Section 2.0. Various wells were utilized for DPE during efforts to troubleshoot the system. The process volumes and estimated mass removed for the reporting period are as follows:

Period	Gallons of Water extracted	Gallons of Free Product Removed (OWS)	Pounds of TPH Removed (Dissolved Liquid Phase)	Pounds of TPH Removed (Vapor Phase)	Total Pounds of TPH Removed
First Quarter 2018 Operation (January 1 to March 31, 2018)	288,770	0	46	1,189	1,235
Cumulative Operation (May 8, 2015 to December 31, 2017)*	3,054,039	1,820	1,739	24,174	25,913

*Previous DPE and GWE system data prior to May 2015 submitted in previous reports

Note: density of free product assumed to be density of vehicle gasoline (6.14 lbs/gallon "https://www.epa.gov/sites/production/files/2014-01/gallonspoundsconversion.xls")

The primary purpose of the DPE remediation system is to remove hydrocarbon mass from the subsurface and hydraulically contain the hydrocarbon-impacted groundwater plume to prevent further migration off-Site. Hydraulic monitoring was performed during the groundwater sampling activities and discussed in Section 7. Procedures for hydraulic monitoring are included in the CMP.

The system continues to operate below design standards due to iron precipitate fouling and sedimentation. GHD is currently evaluating improvement measures to increase system effectiveness and additional modifications may be implemented during the second and third quarters of 2018.

6. System Operation Conclusions

The DPE system was not operational during the month of January due to planned downtime for system modifications and winterization. The DPE system operated with 85 percent up-time efficiency during the month of February 2018 and 96 percent up-time efficiency in March 2018.

The following activities will be performed during the 2nd Quarter 2018

- Continuation of air sweep to enhance product recovery via SVE.
- Increase the extraction rate by bringing more wells online; additional wells will be selected to maximize mass recovery and system run time
- Evaluate and implement system improvement and optimization measures

7. First Quarter 2018 Groundwater Monitoring Field Activities

7.1 Hydraulic Monitoring

First quarter 2018 hydraulic monitoring activities were conducted on February 26 and 27, 2018. Hydraulic monitoring activities consisted of measuring and recording depth to light non-aqueous phase liquids (LNAPL), if present, and depth to groundwater from below the top of the well casing for 64 wells. Hydraulic monitoring activities were conducted in accordance with the procedures outlined in Section 4.1 of the CMP. Additional DPE wells were gauged during this quarterly event to further monitor hydraulic influence and groundwater conditions. The DPE system was shut off on February 23, 2018 to allow groundwater to equilibrate prior to hydraulic monitoring. Wells used in the hydraulic monitoring are presented on Table 5. A copy of the field data sheet documenting the hydraulic monitoring data is presented in Appendix C.

7.2 Groundwater Sampling

Groundwater sampling activities were completed between February 27 and March 2, 2018. Groundwater samples were collected from 25 wells using low-flow sampling procedures. Wells used in the groundwater quality monitoring are presented on Table 6. In addition to the groundwater samples, one field duplicate and two matrix spike and matrix spike duplicate (MS/MSD) samples were collected for quality assurance purposes. Trip blanks provided by the subcontracting laboratory were included in each cooler. Samples collected during the event were placed immediately on ice and transported to Pace Analytical Laboratories via courier under chain of custody. Sample analyses included TPHg per Ecology Method NWTPH-Gx; TPHd and TPHo per Ecology Method NWTPH-Dx, and BTEX, per EPA Method 8260B.

The laboratory analytical report is included in Appendix D.

7.3 Investigation Derived Waste

All investigation derived waste (IDW) including purge water and decontamination water was processed through the onsite groundwater treatment system before discharge to the sanitary sewer system under King County discharge authorization No. 7910-01.

All disposable PPE were properly decontaminated and placed in the garbage for disposal.

8. Groundwater Monitoring Results

8.1 Groundwater Elevation and LNAPL Thickness Data

The purpose of the hydraulic monitoring is to evaluate groundwater flow direction(s) and gradient(s) and to monitor the presence and changing thicknesses of LNAPL on the water table. The DPE system was not operating during the monitoring event. Current groundwater elevation data and LNAPL thicknesses are presented on Table 5.

Groundwater flow direction(s) and gradient(s) were evaluated and elevation contours are presented on Figure 5.

Historically, monitoring wells have been grouped for evaluation based on screened intervals. The wells are grouped as follows:

- Shallow – Wells screened in the fill material in the top 10 feet below ground surface (bgs)
- Intermediate – Wells screened from 5 to 20 feet bgs
- Deep – Wells screened deeper than 20 feet bgs

Currently, only three of the wells gauged (B-3A, B-4, and B-6) are considered shallow wells because they are screened entirely within the fill material, and do not span the silt/clay later at approximately 10 feet bgs. Groundwater elevations in these three wells were consistent with historical data. None of the deep wells were gauged or sampled. Groundwater elevation data are presented in Table 5 and Figure 5.

8.1.1 Intermediate Well Elevation Data, Flow Direction, and Gradient

Data collected during the first quarter 2018 indicate that groundwater mounds in the vicinity of the tank farm, particularly focused around Tank No. 2. Groundwater flows radially away from the tank farm, toward the northeast and southwest at gradients of 0.03 foot per foot. Groundwater elevation contours are presented on Figure 5.

8.1.2 LNAPL Thicknesses

During the first quarter 2018 sampling event, LNAPL was observed in two of the monitoring wells and eight of the DPE wells. The maximum LNAPL thickness was 5.81 feet, gauged in well DPE-39. In general, in-well LNAPL gauging provides relatively little in the way of technically valid indications of LNAPL conditions in the subsurface other than to confirm its presence and mobility. The presence of LNAPL in wells north of the loading racks during recent sampling events indicates a mobile LNAPL mass in this area. LNAPL will continue to be monitored to determine if any trends are apparent.

8.2 Groundwater Quality Data

The purpose of the groundwater sampling program for this Site is to evaluate groundwater concentration trends to monitor DPE system performance over time. Historical groundwater quality data is presented on Table 6. Groundwater quality data from the first quarter 2018 sampling event is presented on Figure 6, and in Table 6. The laboratory analytical report for the first quarter 2018 event is presented in Appendix F.

Laboratory analytical results from the first quarter 2018 event indicate concentrations of one or more analyzed constituents were above MTCA Method A cleanup levels for the following:

- TPHg – Wells D-1R, B-3A, B-4, B-5, MW-7, MW-8, MW-9, MW-14, and MW-15
- TPHd - Wells B-3A, B-4, B-5, B-6, MW-7, and MW-14

- TPHo – Wells B-3A, B-4, and B-5
- Benzene – Wells B-3A, B-4, B-5, MW-7, MW-8, MW-9, MW-14, and MW-15
- Toluene – Wells B-3A, MW-7, and MW-14
- Ethylbenzene – Wells B-3A, B-4, B-5, MW-7, MW-8, and MW-14
- Total Xylenes – Wells B-3A, B-4, B-5, MW-7, and MW-14

None of the other wells sampled contained concentrations above MTCA Method A cleanup levels.

The current groundwater quality data were compared to historical groundwater quality data to assess whether concentration trends have changed over time. Decreasing concentration trends along the perimeter of the plume indicate capture of the contaminant plume (i.e., absence of plume migration).

Monitoring wells MW-3 through MW-6 were installed along the eastern perimeter to delineate the eastern boundary of the plume and to determine if migration of contaminants is occurring. The concentrations in samples collected from these wells were below MTCA Method A cleanup levels. However, these wells will continue to be monitored to determine concentration trends and verify that impacts are not migrating from the site.

The concentrations in the sample collected from wells MW-1 and MW-2 along the southern perimeter, were below MTCA Method A cleanup levels indicating plume migration is not likely to be occurring to the south.

To the north, wells MW-11, MW-12, MW-13, and MW-16 remain below MTCA Method A cleanup levels indicating potential migration of dissolved contaminants to the vicinity of these wells has not occurred.

Groundwater concentrations in shallow wells to the north and west of the loading rack remain elevated, as well as wells in the vicinity of Tank 2. These wells will continue to be sampled to determine DPE system effectiveness.

9. Groundwater Monitoring Conclusions

Groundwater tends to mound near Tank No. 2 and flow radially in all directions with the steepest gradients primarily to the northeast and southwest, consistent with historical flow directions and gradients.

Groundwater quality data for the perimeter wells indicate contaminant migration is not occurring and the current remediation efforts are maintaining hydraulic control of the plume.

The monitoring well network will continue to be monitored and sampled per the CMP to assess the effectiveness of the DPE system. GHD will continue to gauge wells on a quarterly basis to determine groundwater elevations and monitor LNAPL thickness; the analytical sampling frequency

has been reduced to semi-annual. The next scheduled monitoring event is during second quarter 2018 and the next sampling event is during third quarter 2018.

10. Other Agreed Order Items

Surface water sampling was conducted from the retention pond area during the first quarter 2018 as part of the post-excavation confirmation monitoring. Results will be presented under separate cover.

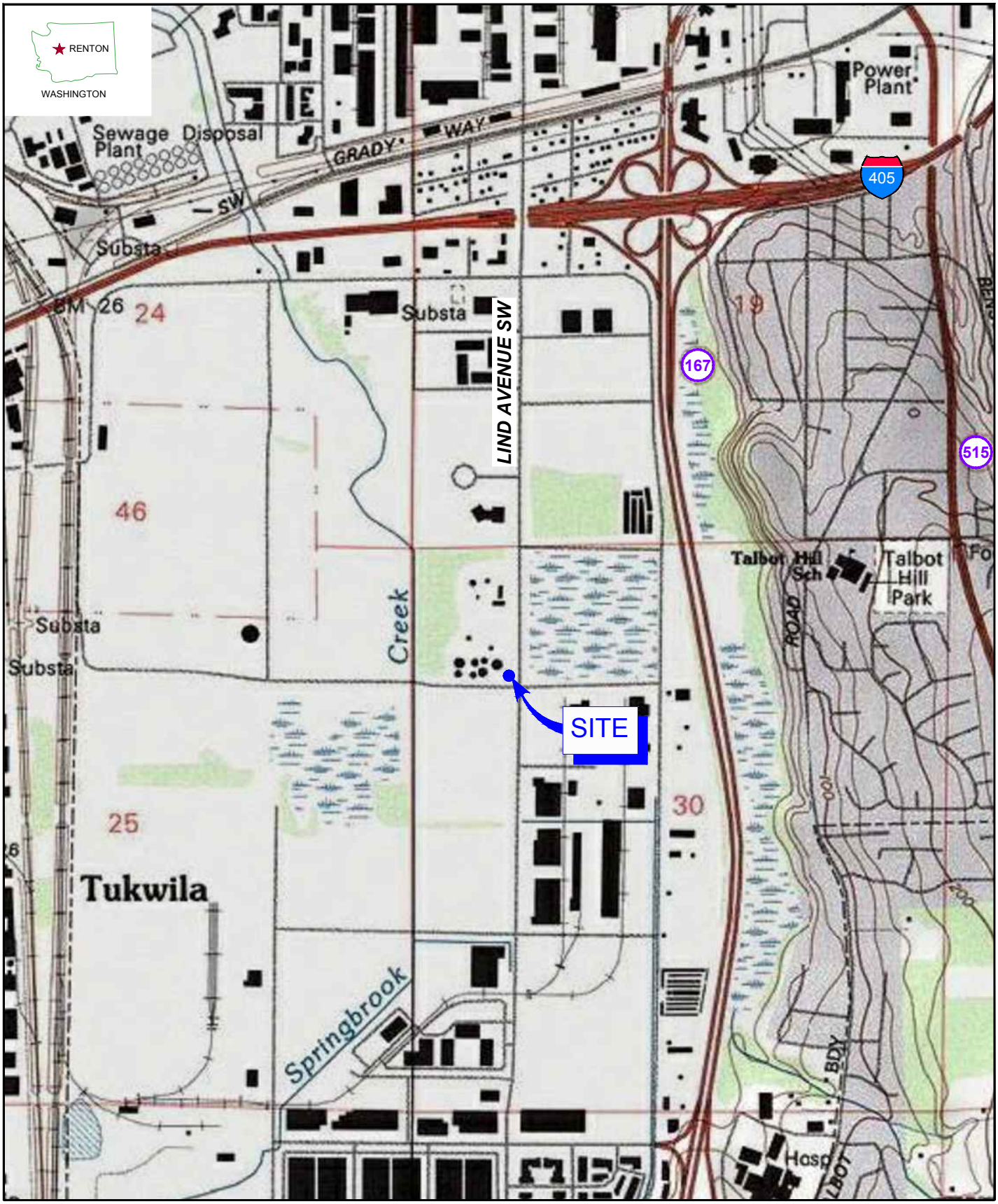
All of Which is Respectfully Submitted,

GHD

Christina McClelland, LG

Thuan Bui, EIT

Figures



Source: TOPO! CA

0 625 1250ft

PHILLIPS 66 RENTON TERMINAL
2423 LIND AVENUE SOUTHWEST
RENTON, WASHINGTON

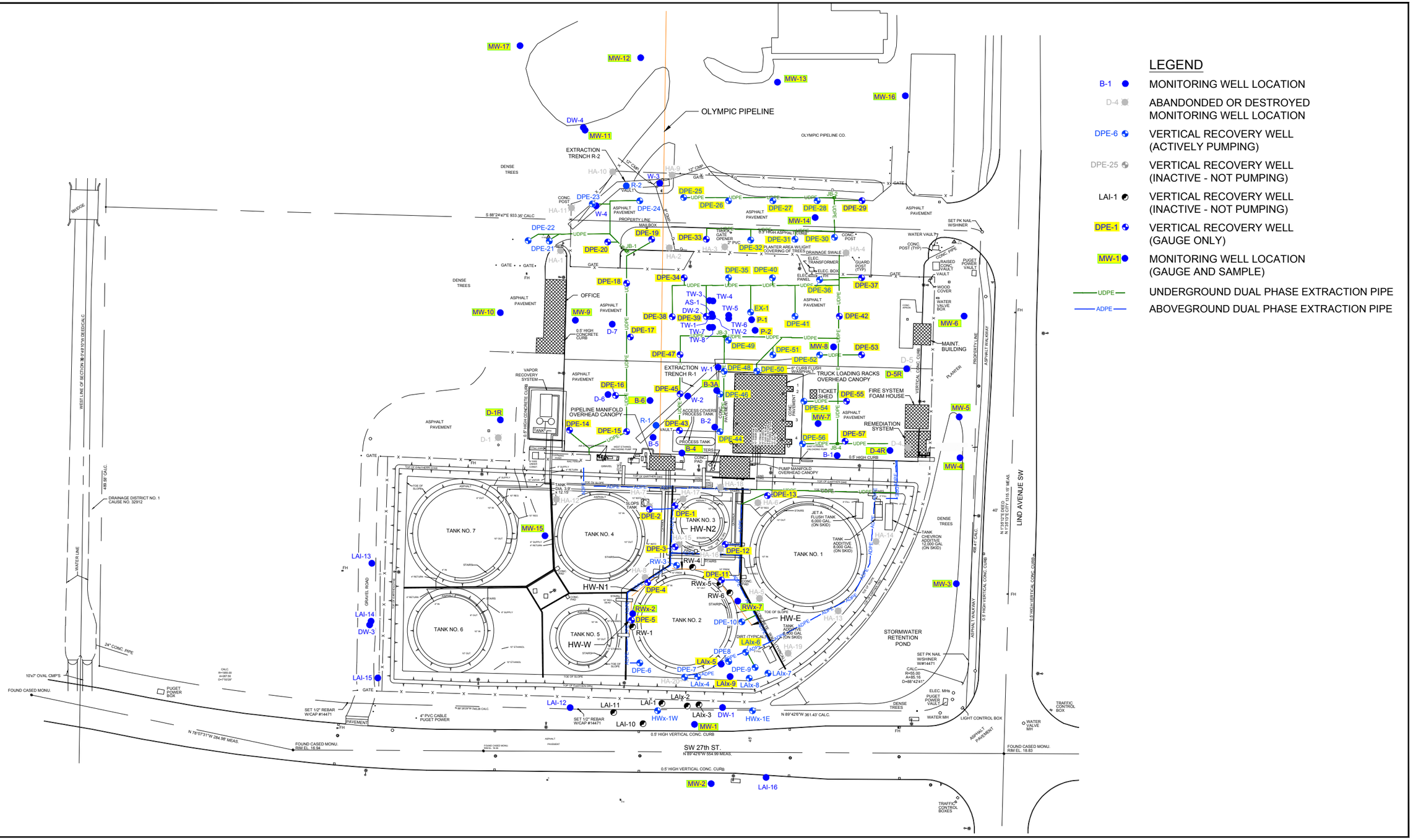
070496.17-6MN00

May 8, 2018

VICINITY MAP

FIGURE 1

CAD File: 070496.17-6MN00(053)GN-SO003.DWG



SOURCE: STATEWIDE LAND SURVEYING INC., DATED 01/26/2012.

PHILLIPS 66 RENTON TERMINAL
2423 LIND AVENUE SOUTHWEST
RENTON, WASHINGTON

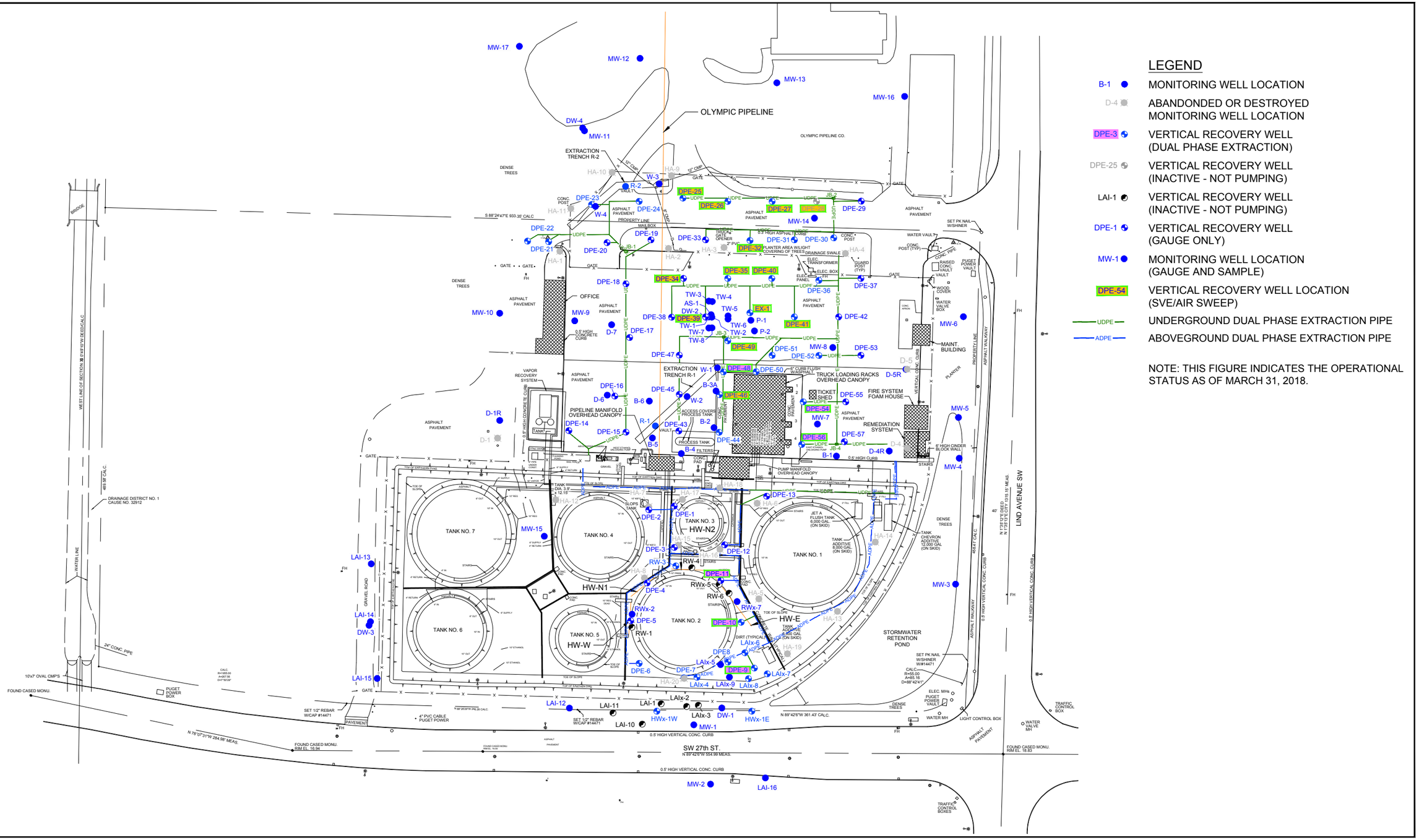
070496.17-6MN00

May 8, 2018

SITE PLAN WITH MONITORING LOCATIONS

FIGURE 2A

CAD File: 070496.17-6MN00(053)GN-SO004.DWG


LEGEND
B-1 MONITORING WELL LOCATION
D-4 ABANDONDED OR DESTROYED MONITORING WELL LOCATION
DPE-3 VERTICAL RECOVERY WELL (DUAL PHASE EXTRACTION)
DPE-25 VERTICAL RECOVERY WELL (INACTIVE - NOT PUMPING)
LAI-1 VERTICAL RECOVERY WELL (INACTIVE - NOT PUMPING)
DPE-1 VERTICAL RECOVERY WELL (GAUGE ONLY)
MW-1 MONITORING WELL LOCATION (GAUGE AND SAMPLE)
DPE-54 VERTICAL RECOVERY WELL LOCATION (SVE/AIR SWEEP)
UDPE UNDERGROUND DUAL PHASE EXTRACTION PIPE
ADPE ABOVEGROUND DUAL PHASE EXTRACTION PIPE
NOTE: THIS FIGURE INDICATES THE OPERATIONAL STATUS AS OF MARCH 31, 2018.
OLYMPIC PIPELINE
OLYMPIC PIPELINE CO.
EXTRACTION TRENCH R-2
EXTRACTION TRENCH R-1
TANK NO. 1
TANK NO. 2
TANK NO. 3
TANK NO. 4
TANK NO. 5
TANK NO. 6
TANK NO. 7
HW-N1
HW-N2
HW-W
HW-E
PIPELINE MANIFOLD OVERHEAD CANOPY
PUMP MANIFOLD OVERHEAD CANOPY
TRUCK LOADING RACKS OVERHEAD CANOPY
TICKET SHED
FIRE SYSTEM FOAM HOUSE
REMEDIATION SYSTEM
MAINT. BUILDING
OFFICE
VAPOR RECOVERY SYSTEM
STORMWATER RETENTION POND
LIND AVENUE SW
SW 27th ST.
GRAVEL ROAD
DRAINAGE DISTRICT NO. 1 CAUSE NO. 32912
N 76°07'31"W 284.98' MEAS.
S 88°24'47"E 933.35' CALC.
N 89°42'6"W 554.39 MEAS.
N 89°42'6"W 361.43' CALC.
0.5' HIGH VERTICAL CONC. CURB
SOURCE: STATEWIDE LAND SURVEYING INC., DATED 01/26/2012.
0 50 100ft
WASHINGTON STATE PLANE NORTH ZONE 4601 IN SURVEY FT.
PHILLIPS 66 RENTON TERMINAL
2423 LIND AVENUE SOUTHWEST
RENTON, WASHINGTON
070496.17-6MN00
May 9, 2018
SITE PLAN WITH ACTIVE REMEDIATION LOCATIONS
FIGURE 2B
CAD File: 070496.17-6MN00(053)GN-SO005.DWG

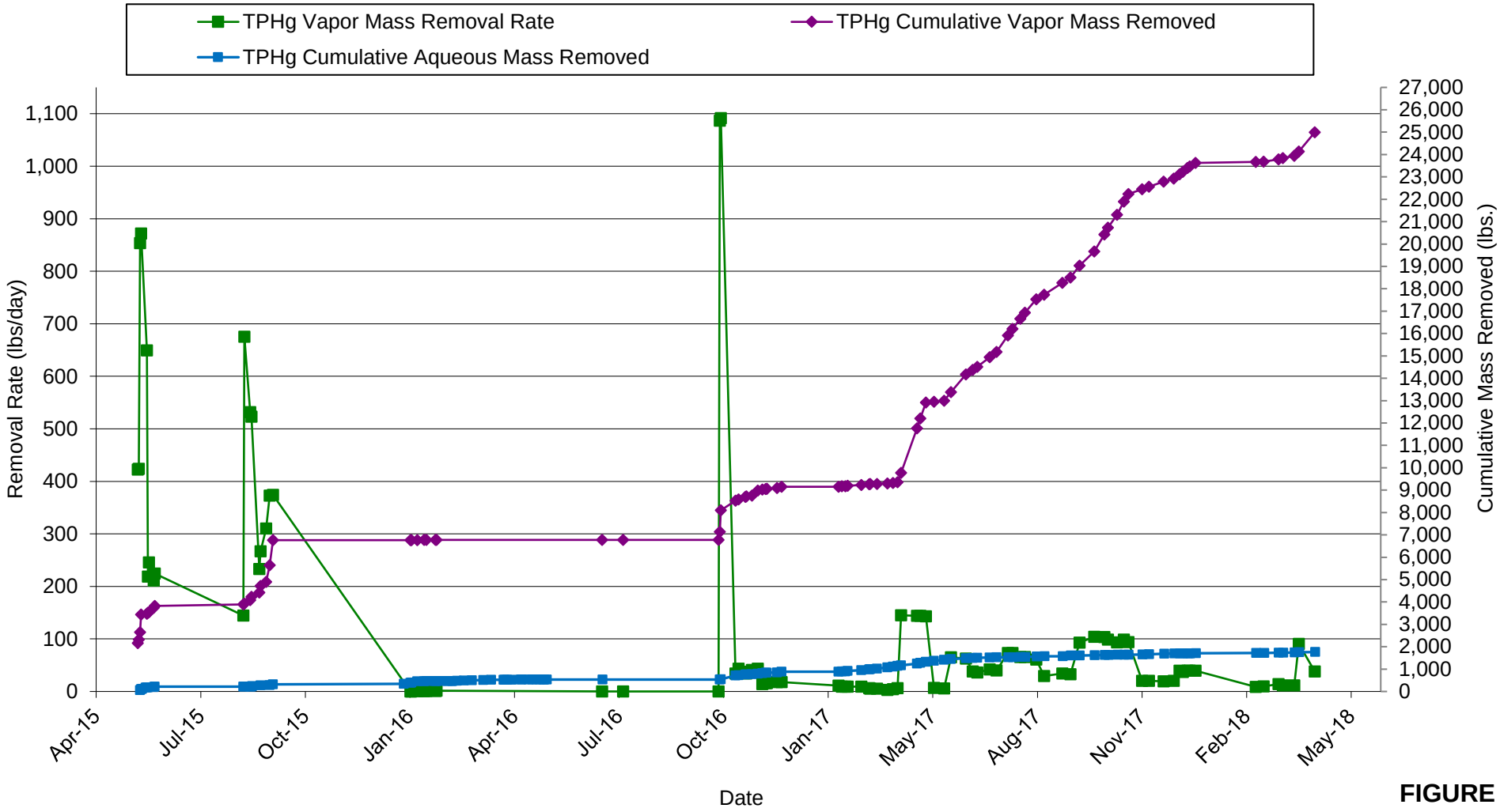


FIGURE 3

Phillips 66 Renton Terminal
2423 Lind Avenue Southwest
Renton, Washington

TPHg MASS REMOVAL VS. TIME

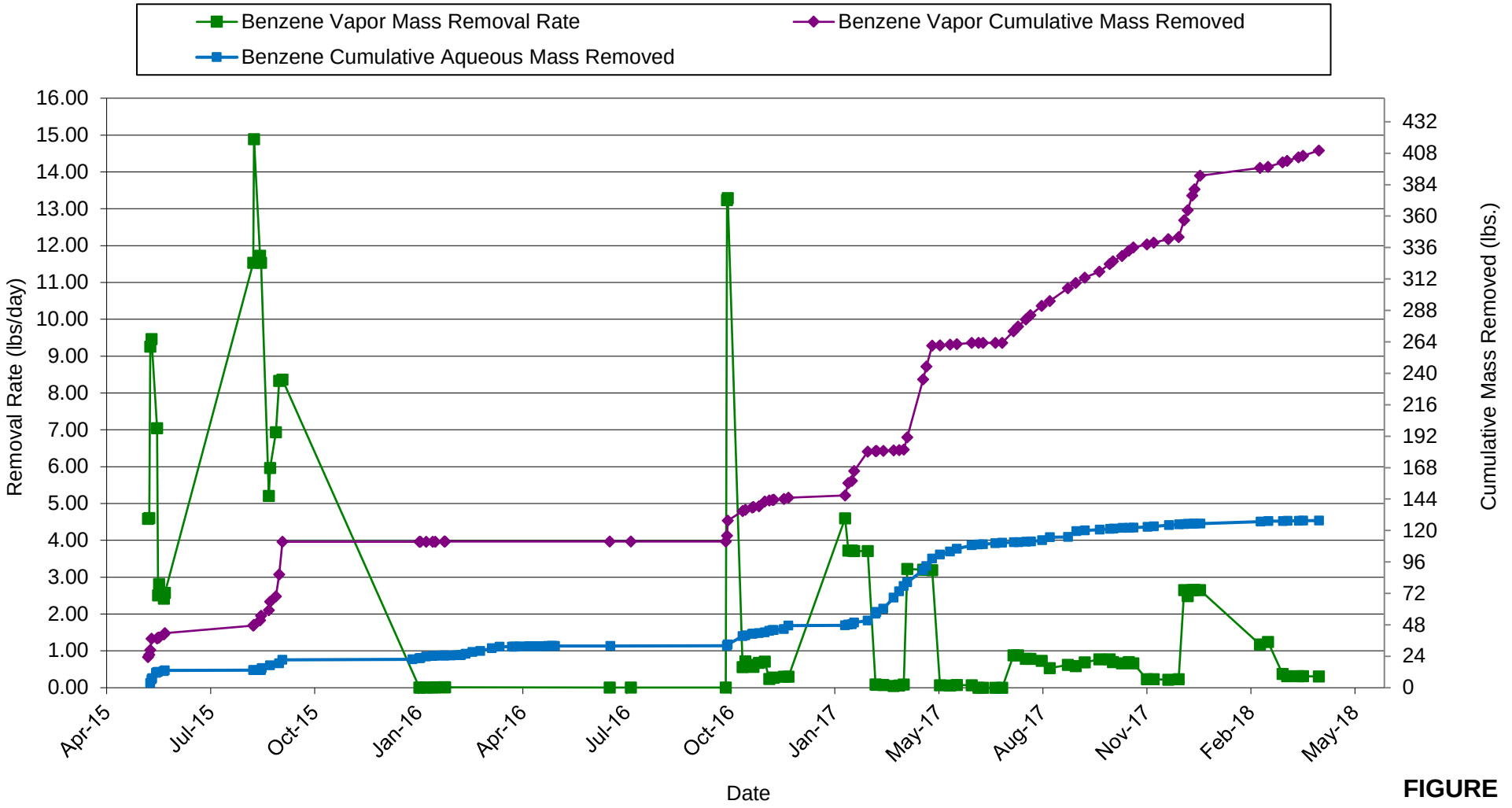
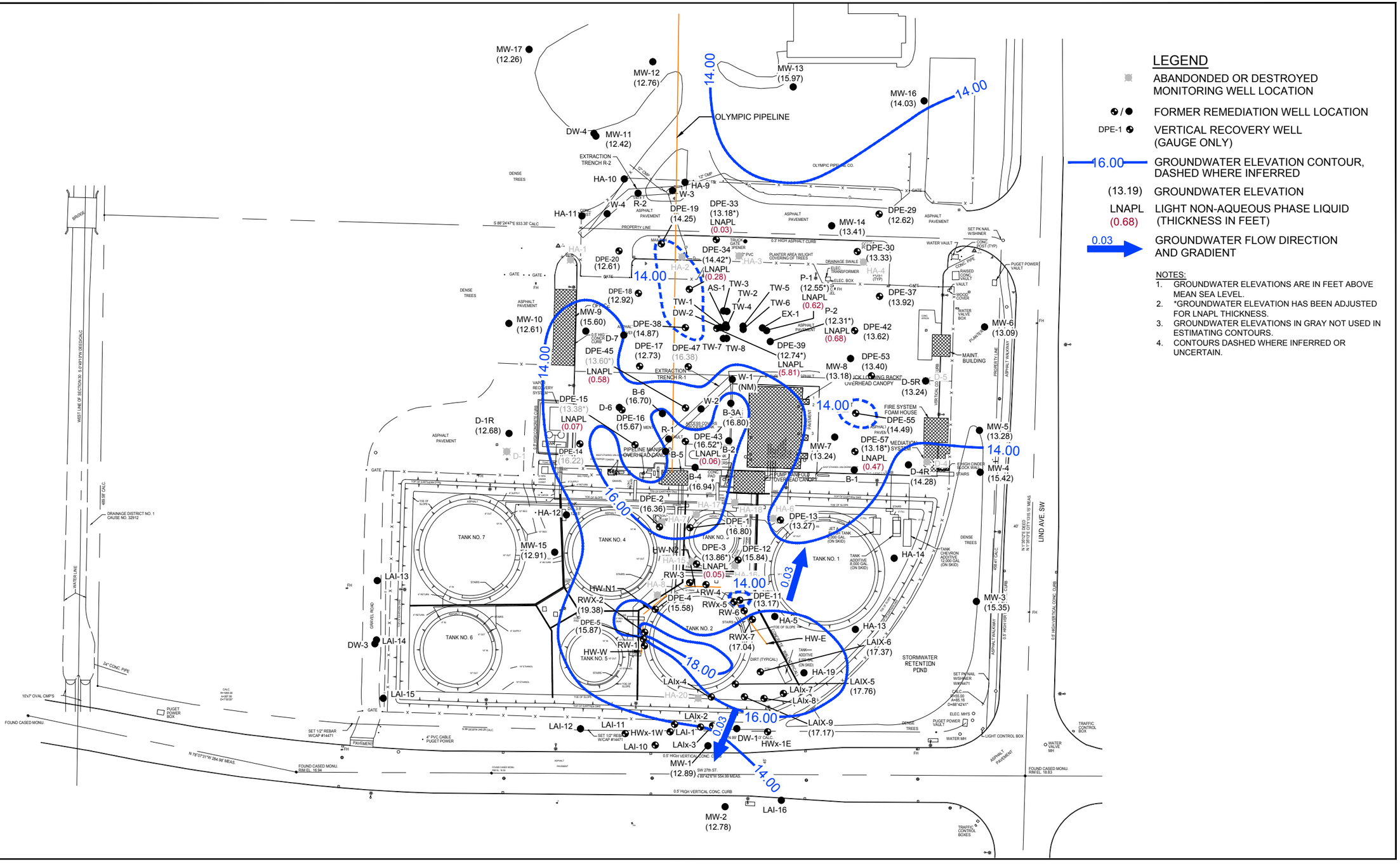


FIGURE 4

Phillips 66 Renton Terminal
2423 Lind Avenue Southwest
Renton, Washington

BENZENE MASS REMOVAL VS. TIME



LEGEND

- ABANDONED OR DESTROYED MONITORING WELL LOCATION
- / FORMER REMEDIATION WELL LOCATION
- DPE-1 VERTICAL RECOVERY WELL (GAUGE ONLY)
- 16.00 GROUNDWATER ELEVATION CONTOUR, DASHED WHERE INFERRED
- (13.19) GROUNDWATER ELEVATION
- LNAPL (0.68) LIGHT NON-AQUEOUS PHASE LIQUID (THICKNESS IN FEET)
- 0.03 GROUNDWATER FLOW DIRECTION AND GRADIENT

NOTES:

1. GROUNDWATER ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.
2. *GROUNDWATER ELEVATION HAS BEEN ADJUSTED FOR LNAPL THICKNESS.
3. GROUNDWATER ELEVATIONS IN GRAY NOT USED IN ESTIMATING CONTOURS.
4. CONTOURS DASHED WHERE INFERRED OR UNCERTAIN.

SOURCE: STATEWIDE LAND SURVEYING INC., DATED 1/26/12.

0 50 100ft

PHILLIPS 66 RENTON TERMINAL
2423 LIND AVENUE SOUTHWEST
RENTON, WASHINGTON

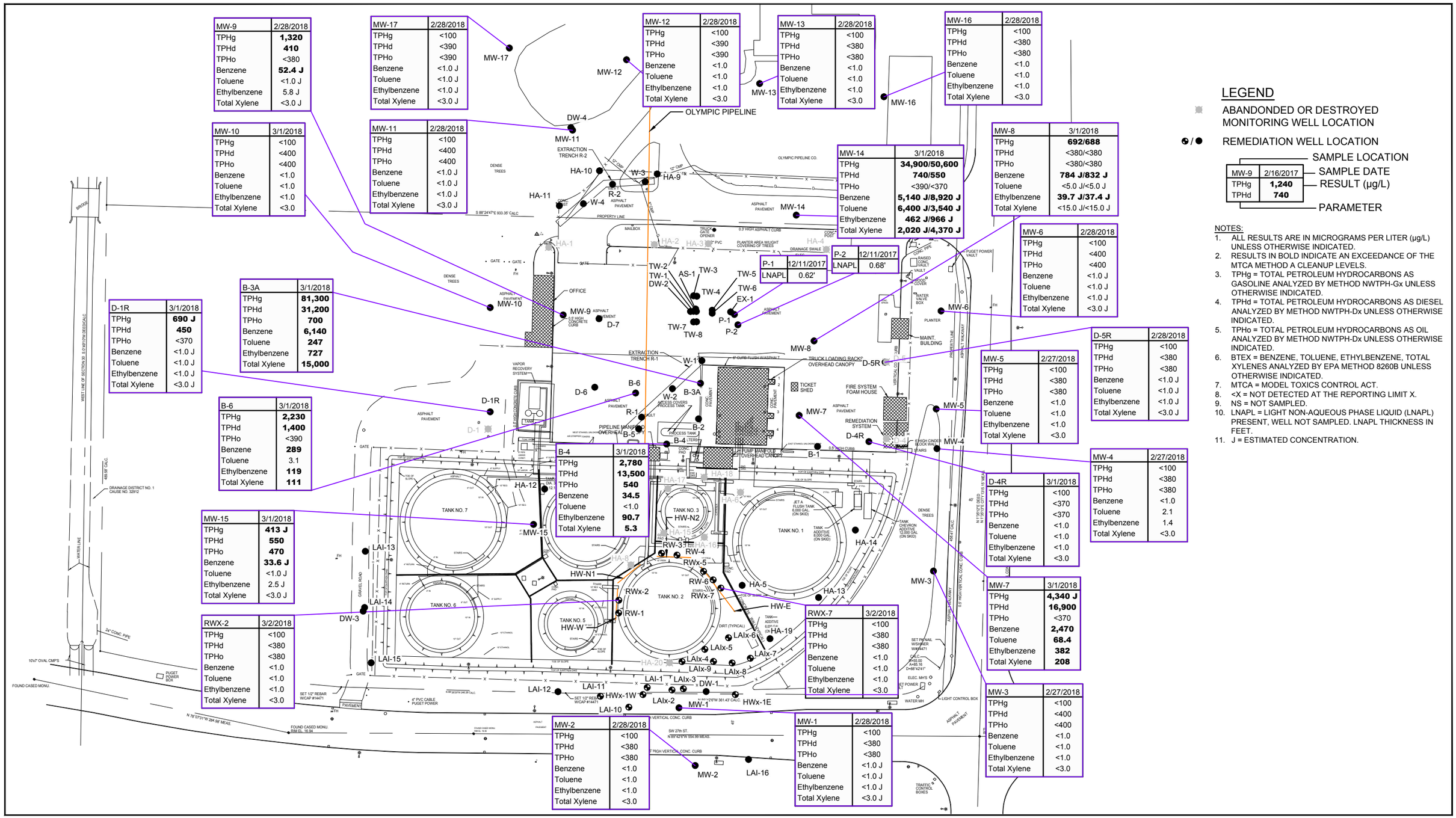
GROUNDWATER ELEVATION CONTOUR MAP FEBRUARY 26 AND 27, 2018

070496.17-6MN00

May 9, 2018

FIGURE 5

CAD File: 070496.17-6MN00(053)GN-SO001.DWG



SOURCE: STATEWIDE LAND SURVEYING INC., DATED 1/26/12.

0 50 100ft

PHILLIPS 66 RENTON TERMINAL
2423 LIND AVENUE SOUTHWEST
RENTON, WASHINGTON

GROUNDWATER ANALYTICAL DATA - FIRST QUARTER 2018

070496.17-6MN00

May 22, 2018

FIGURE 6

CAD File: 070496.17-6MN00(053)GN-SO002.DWG

Tables

Table 1

Groundwater Extraction System Analytical Data
Phillips 66 Company
Renton Terminal
Renton, Washington

Influent

Date (mm/dd/yy)	TPHg Conc. (µg/L)	TPHd Conc. (µg/L)	TPHmo Conc. (µg/L)	Benzene Conc. (µg/L)	Toluene Conc. (µg/L)	Ethylbenzene Conc. (µg/L)	Xylenes Conc. (µg/L)
05/08/15	393,000	46,900	11,400 b	13,000	23,400	3,200	19,700
05/27/15	153,000	80,800	6,600	10,200	23,900	6,220	39,900
06/16/15	660,000	304,000	12,000	22,100	39,200	4,180	24,600
09/03/15	145,000	59,700	3,900	8,150	11,500	1,740	13,200
09/16/15	107,000	77,600	4,600	8,440	14,300	1,970	14,100
11/13/15	57,700	8,300	<420	3,040	5,140	659	7,670
01/15/16	61,800	5,200	1,100	1,230	5,340	1,270	9,350
01/21/16	80,800	1,300	<420	1,540	10,900	1,350	9,860
02/08/16	8,500	1,100 b	<410	762	801 f	25.6	1,390 g
03/04/16	69,200	1,500	<380	7,730	10,700	236	9,260
04/11/16	16,300	1,300	<370	1,400	790	<20	2,670
04/19/16	NM	NM	NM	NM	NM	NM	NM
05/10/16	13,400	1,200	<390	998	352	<5.0	2,730
07/14/16	NM	NM	NM	NM	NM	NM	NM
09/14/16	NM	NM	NM	NM	NM	NM	NM
10/10/16	91,400	7,900	760	6,820	10,500	1,430	9,520
11/02/16	123,000	19,500	730	4,660	<100	<100	<300
12/06/16	168,000	61,400	1,900	12,200	28,700	<3,140	23,800
01/01/17	SYSTEM OFF						
02/27/17	163,000	5,500	<390	9,450	28,800	2,700	19,600
03/27/17	118,000	3,300	590	16,200	19,400	2,350	14,600
04/20/17	144,000	5,800	<400	16,300	20,800	2,230	15,300
05/11/17	92,900	4,300	<400	5,870	11,100	1,290	14,000
06/08/17	49,900	2,000	<400	2,530	4,690	279	5,930
07/10/17	25,000	2,600	<380	1,530	1,360	18.4	3,490
08/23/17	47,700	5,200	<380	6,880	5,210	443	3,910
09/21/17	13,500	1,700	<380	1,120	605	69.1	2,010
10/16/17	22,500	2,700	<380	1,080	664	30.4	2,110
11/20/17	40,400	13,600	520	2,110	4,450	164	4,490
12/11/17	28,000	6,800	<380	1,560	2,670	56.1	3,220
01/01/18			SYSTEM OFF				
02/16/18	49,800	2,200	<390	6,050	7,610	708.0	5,380
03/13/18	18,400	2,500	<370	186	71	1.2	2,570
Regulatory Limits (µg/L)):	N/A						

Influent-2 (Post-air stripper)

Date (mm/dd/yy)	TPHg Conc. (µg/L)	TPHd Conc. (µg/L)	TPHmo Conc. (µg/L)	Benzene Conc. (µg/L)	Toluene Conc. (µg/L)	Ethylbenzene Conc. (µg/L)	Xylenes Conc. (µg/L)
05/08/15							
05/27/15							
06/16/15							
09/03/15							
09/16/15							
11/13/15							
01/15/16							
01/21/16	NA - Air stripper not installed						
02/08/16							
03/04/16							
04/11/16							
04/19/16							
05/10/16							
07/14/16							
09/14/16							
10/10/16	6,380	10,600	1,400	342	583	47.5	637
11/02/16	17,400	6,300	<380	340	832	82.6	683
12/06/16	7,130	4,500	<400	304	541	5.2	1,040
01/01/17	SYSTEM OFF						
02/27/17	7,630	1,100	<400	305	1,080	71.1	980
03/27/17	10,500	2,400	<420	1,160	1,300	175	1,340
04/20/17	11,600	3,200	<400	1,180	1,490	129	1,370
05/11/17	8,490	6,100	460	211	317	23.4	879
06/08/17	744	1,800	<400	13.6	1.7	<1.0	125
07/10/17	142	480	<390	1.7	<1.0	<1.0	8.2
08/23/17	3,850	2,800	<400	392	235	10.9	358
09/21/17	809	1,200	<370	13.3	8.8	1.5	84.2
10/16/17	551	780	<390	11.7	6.2	<1.0	47.6
11/20/17	951	770	<380	11.6	1.9	<1.0	197
12/11/17	654	820	<430	1.2	<1.0	<1.0	81.4
01/01/18	SYSTEM OFF						
02/16/18	1,050	1,700	<400	175.0	152.0	6.8	92.3
03/13/18	1,090	1,700	<370	1.0	<1.0	<1.0	61.8
Regulatory Limits (µg/L)):							

Midfluent 1

Date (mm/dd/yy)	TPHg Conc. (µg/L)	TPHd Conc. (µg/L)	TPHmo Conc. (µg/L)	Benzene Conc. (µg/L)	Toluene Conc. (µg/L)	Ethylbenzene Conc. (µg/L)	Xylenes Conc. (µg/L)
05/08/15	131	<400	<400	<1.0	<1.0	<1.0	<3.0
05/27/15	1,280	2,300	530	<1.0	<1.0	1.4	9.3
06/16/15	18,100 c,d	99,400	4,700	<25.0	255	647	4,150
09/03/15	1,760	2,800	<400	25.5	27.1	5.7	52.6
09/16/15	836	2,900	<400	<1.0	1.2	1.1	7.6
11/13/15	364 b	<410	<410	<1.0	2.5	<1.0	17.6
01/15/16	<100	<400	<400	<1.0	<1.0 f	<1.0 f	<3.0 g
01/21/16	Not sampled						
02/08/16	1,360	<430 i	<430 i	108	68.4	<1.0	207 g
03/04/16	3,630	<410	<410	500	375	18.9	573
04/11/16	<100	<410	<410	3.7	<1.0	<1.0	4.4
04/19/16	NM	NM	NM	NM	NM	NM	NM
05/10/16	<100	<400	<400	1.6	<1.0	<1.0	<3.0
07/14/16	NM	NM	NM	NM	NM	NM	NM
09/14/16	NM	NM	NM	NM	NM	NM	NM
10/10/16	<100	850	<430	<1.0	<1.0	<1.0	<3.0
11/02/16	701	690	1,800	<1.0	<1.0	<1.0	<3.0
12/06/16	647	4,500	<400	4.0	3.9	<1.0	9.2
01/01/17	SYSTEM OFF						
02/27/17	291	<400	<400	13.2	39.8	2.3	34.3
03/27/17	2,110	740	<400	232	249	33.1	280
04/20/17	2,360	1,100	<550	217	250	19.0	222
05/11/17	543	3,100	<400	43.9	25.5	1.1	44.9
06/08/17	146	<400	<400	25.9	5.7	<1.0	14.8
07/10/17	<100	<400	<400	23.3	5.2	<1.0	<3.0
08/23/17	842	1,000	<390	112	48.7	1.5	74.0
09/21/17	<100	2,100	<380	16.7	3.8	<1.0	<3.0
10/16/17	279	<400	<400	18.4	5.5	<1.0	17.5
11/20/17	<100	520	<390	12.5	3.3	<1.0	<3.0
12/11/17	<100	750	<380	11.1	2.4	<1.0	<3.0
01/01/18			SYSTEM OFF				
02/16/18	<100	400	400	12.9	2.5	<1.0	<3.0
03/13/18	<100	<370	<370	12.0	1.0	<1.9	<1.0
Regulatory Limits (µg/L)):	N/A						

Midfluent 2

Date (mm/dd/yy)	TPHg Conc. (µg/L)	TPHd Conc. (µg/L)	TPHmo Conc. (µg/L)	Benzene Conc. (µg/L)	Toluene Conc. (µg/L)	Ethylbenzene Conc. (µg/L)	Xylenes Conc. (µg/L)
05/08/15	<100	<400	<400	<1.0	<1.0	<1.0	<3.0
05/27/15	<100	<400	<400	<1.0	<1.0	<1.0	<3.0
06/16/15	5,600	32,600	1,700	<2.0	6.2	19	122
09/03/15	<100	540	<400	<1.0	<1.0	<1.0	<3.0
09/16/15	<100	<400	<400	<1.0	<1.0	<1.0	<3.0
11/13/15	<100	<400	<400	<1.0	2.4	<1.0	4.5
01/15/16	<100	<430	530	<1.0	<1.0	<1.0	<3.0
01/21/16	Not sampled						
02/08/16	<100	<410	<410	<1.0	<1.0	<1.0	<3.0
03/04/16	<100	<400	<400	<1.0	<1.0	<1.0	<3.0
04/11/16	<100	<400	<400	<1.0	<1.0	<1.0	<3.0
04/19/16	NM	NM	NM	NM	NM	NM	NM
05/10/16	<100	<380	<380	<1.0	<1.0	<1.0	<3.0
07/14/16	NM	NM	NM	NM	NM	NM	NM
09/14/16	NM	NM	NM	NM	NM	NM	NM
10/10/16	<100	<390	<390	<1.0	<1.0	<1.0	<3.0
11/02/16	<100	<390	560	7	16	2.7	44
12/06/16	<100	<400	<400	<1.0	<1.0	<1.0	<3.0
01/01/17	SYSTEM OFF						
02/27/17	<100	<400	<400	<1.0	<1.0	<1.0	<3.0
03/27/17	<100	<410	<410	1.3	1.4	<1.0	<3.0
04/20/17	<100	<400	<400	4.5	4.6	<1.0	3.9
05/11/17	<100	<400	<400	<1.0	<1.0	<1.0	<3.0
06/08/17	<100	<400	<400	<1.0	<1.0	<1.0	<3.0
07/10/17	<100	<390	<390	<1.0	<1.0	<1.0	<3.0
08/23/17	<100	<400	<400	6.1	2.5	<1.0	4.3
09/21/17	<100	390	<370	<1.0	<1.0	<1.0	<3.0
10/16/17	<100	<370	<370	2.7	<4.0	<1.0	<3.0
11/20/17	<100	<380	<380	2.2	<1.0	<1.0	<3.0
12/11/17	<100	<370	<370	<1.0	<1.0	<1.0	<3.0
01/01/18			SYSTEM OFF				
02/16/18	<100	400	<400	<1.0	<1.0	<1.0	<3.0
03/13/18	<100	370	<370	<1.0	<1.0	<1.0	<3.0
Regulatory Limits (µg/L)):	N/A						

Effluent

Date (mm/dd/yy)	TPHg Conc. (µg/L)	TPHd Conc. (µg/L)	TPHmo Conc. (µg/L)	Benzene Conc. (µg/L)	Toluene Conc. (µg/L)	Ethylbenzene Conc. (µg/L)	Xylenes Conc. (µg/L)	pH[a]	FOG Conc. (µg/L)
05/08/15	<100	<400	<400	<1.0	8.9	2.3	10.5	NM	<6,800
05/27/15	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	7.3	<6,500
06/16/15	463	2,000	<420	<1.0	<1.0	<1.0	<3.0	NM	<6,600
09/03/15	<100	<400	<400	<1.0	<1.0	<1.0	<6.6	7.1	NM
09/16/15	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	NM	<6,400
11/13/15	407	<400	<400	<1.0	2.1	1.3	19.5	7.2	<19,200
01/15/16	<100 h	<400	<400	<1.0	<1.0	<1.0	<3.0	9.9	<6,600 e
01/21/16	Not sampled								
02/08/16	<100	<430	<430	<1.0	<1.0	<1.0	<3.0	6.2	<6,700
03/04/16	<100 e	<400	<400	<1.0	<1.0	<1.0	<3.0	6.0	<6,800
04/11/16	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	NM	<6,500
04/19/16	NM	NM	NM	NM	NM	NM	NM	6.1	NM
05/10/16	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	6.6	<6,400
07/14/16	<250	<190	<290	<0.5	<0.5	<0.5	<1.5	9.3	NM
09/14/16	<250	<180	<270	<0.5	<0.5	<0.5	<1.5	NM	<19,200
10/10/16	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	9.4	<6,400
11/02/16	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	7.1	<6,300
12/06/16	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	6.3	<6,300
01/01/17	SYSTEM OFF								
02/27/17	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	6.2	<6,500
03/27/17	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	7.2	<6,400
04/20/17	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	7.5	<6,700
05/11/17	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	7.4	<6,500
06/08/17	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	7.8	<6,500
07/10/17	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	7.6	<6,700
08/23/17	<100	450	<360	<1.0	<1.0	<1.0	<3.0	6.3	<6,300
09/21/17	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	7.3	<6,400
10/16/17	<100	<390	<390	<1.0	8.4	<1.0	<3.0	6.8	<6,200
11/20/17	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	7.9	<6,400
12/11/17	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	8.2	<6,400
01/01/18					SYSTEM OFF				
02/16/18	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	8.4	<6,500
03/13/18	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	7.5	<6,300
Regulatory Limits (µg/L)):	N/A			<70	<1,400	<1,700	<2,200	5.5-12	<100,000

Notes and Abbreviations:

mm/dd/yy = month/day/year
Conc. = concentration
TPHg = total petroleum hydrocarbons quantified as gasoline
TPHd = total petroleum hydrocarbons quantified as diesel
TPHmo = total petroleum hydrocarbons quantified as motor oil
FOG = fats, oil, and grease
µg/L = micrograms per liter
<X.X = not detected at or below the detection limit indicated
NM = no measured
TBD = Sample taken during this time and are awaiting results
TPHg analyzed by Method NWTPHd-X.
TPHg analyzed by Method NWTPHg-X.
Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B.
FOG analyzed by Method 1664 HEM.

a = pH measured in the field.
b = The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits. (D6)
c = The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low. (CL)
d = Analyte concentration exceeded the calibration range. The reported results is estimated. (E)
e = Laboratory adjusted pH to 2. (1M)
f = Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. (M1)
g = Analyte recovery in the matrix spike was outside QC limits for one or more of the constituents analytes used in the calculated result. (MS)
h = Post-analysis pH measurements indicates insufficient VOA sample preservation. (pH)
i = Result confirmed by second analysis. (C0)

Table 2

Groundwater Extraction System Operational Data
Phillips 66 Company
Renton Terminal
Renton, Washington

				Water Extraction				Product Extraction		TPPH			Benzene		
Date (mm/dd/yy)	Hour Meter Reading	SV-3102 hrs	Total Uptime	Totalizer Reading (gallons)	Cumulative Flow (gallons)	Average Flow Rate (gpd)	Average Flow Rate (gpm)	Product Tank Level (inches)	Product recovery (gallons)	Influent Conc. (µg/L)	Removal Rate (ppd)	Cumulative Recovery (pounds)	Influent Conc. (µg/L)	Removal Rate (ppd)	Cumulative Recovery (pounds)
05/08/15	NM		NA	0	0	NA	NA	0	0	393,000	NM	0	13,000	NM	0
05/28/15	NM		NM	42,164	42,164	2,108	1.5	NM	NM	153,000	6.91	0	10,200	0.229	0
06/01/15	NM		NM	119,025	119,025	16,694	11.6	18.0	90	NM	21.3	0	NM	1.42	0
06/02/15	NM		NM	130,343	130,343	11,186	7.8	18.0	90	NM	14.3	0	NM	0.95	0
06/03/15	93		NM	143,175	143,175	12,213	8.5	18.0	90	NM	15.6	56	NM	1.04	3.5
06/04/15	117		100%	174,111	174,111	32,517	22.6	18.0	90	NM	41.5	98	NM	2.77	6.3
06/05/15	131		69%	190,602	190,602	19,529	13.6	18.0	90	NM	24.9	112	NM	1.66	7.3
06/08/15	194		83%	248,551	248,551	18,324	12.7	19.0	95	NM	23.4	174	NM	1.56	11.4
06/09/15	208		58%	260,576	260,576	12,025	8.4	19.5	97	NM	15.4	183	NM	1.02	12.0
06/10/15	213		23%	267,688	267,688	8,001	5.6	19.5	97	NM	10.2	185	NM	0.68	12.1
06/11/15	214		5%	NM	NM	NM	NM	20.0	100	NM	NM	NM	NM	NM	NM
06/15/15	235		21%	295,654	295,654	6,645	4.6	21.0	105	NM	8.5	193	NM	0.57	12.6
06/16/15	243		38%	304,658	304,658	10,373	7.2	25.0	125	660,000	57.1	212	22,100	1.91	13.3
09/02/15	268		1%	329,320	329,320	316	0.2	2.0	135	NM	1.7	213	NM	0.06	13.3
09/03/15	268		0%	333,120	333,120	4,800	3.3	2.0	135	145,000	5.8	213	8,150	0.33	13.3
09/08/15	271		2%	337,021	337,021	747	0.5	5.3	151	NM	0.9	214	NM	0.05	13.3
09/09/15	276		22%	343,401	343,401	6,586	4.6	6.3	156	NM	8.0	215	NM	0.45	13.4
09/10/15	293		97%	366,411	366,411	31,557	21.9	7.0	160	NM	38.2	242	NM	2.15	14.9
09/16/15	NM		NM	368,733	368,733	374	0.3	7.0	160	107,000	0.3	NM	8,440	0.03	NM
09/17/15	324		18%	394,204	394,204	23,288	16.2	12.8	188	NM	20.8	269	NM	1.64	17.1
09/18/15	NM		NM	407,869	407,869	15,869	11.0	16.0	204	NM	14.2	NM	NM	1.12	NM
09/22/15	NM		NM	409,896	409,896	486	0.3	19.0	219	NM	0.4	NM	NM	0.03	NM
09/24/15	NM		NM	423,762	423,762	7,006	4.9	20.0	224	NM	6.3	NM	NM	0.49	NM
09/25/15	391		35%	430,097	430,097	6,693	4.6	0.0	224	NM	6.0	288	NM	0.47	18.5
09/28/15	463		101%	468,461	468,461	12,962	9.0	6.0	254	NM	11.6	323	NM	0.91	21.3
09/28/15	470		97%	NM	NM	NM	NM	NM	254	NM	NM	NM	NM	NM	NM
11/04/15	NM		NM	472,794	NM	NM	NM	NM	254	NM	NM	NM	NM	NM	NM
11/04/15	458		NM	472,814	NM	NM	NM	NM	254	NM	NM	NM	NM	NM	NM
01/14/16	NM		NM	472,820	NM	NM	NM	NM	254	NM	NM	NM	NM	NM	NM
01/15/16	NM		NM	475,012	470,653	1,948	1.4	NM	254	NM	NM	NM	NM	NM	NM
01/19/16	NM		NM	476,154	NM	NM	NM	NM	254	NM	NM	NM	NM	NM	NM
01/20/16	NM		NM	477,419	471,918	1,080	0.8	NM	254	NM	NM	NM	NM	NM	NM
01/21/16	516		NM	489,519	484,018	12,410	8.6	2.0	264	80,800	8.4	343	1,540	0.16	21.7
01/26/16	NM		NM	537,500	531,999	10,028	7.0	2.0	264	NM	6.8	NM	NM	0.13	NM
01/27/16	658		100%	549,300	543,799	10,554	7.3	5.0	279	NM	7.1	385	NM	0.14	22.5
01/28/16	679		98%	566,046	560,545	18,722	13.0	6.0	284	NM	12.6	396	NM	0.24	22.7
02/01/16	775		100%	NM	NM	NM	NM	NM	284	NM	NM	NM	NM	NM	NM
02/02/16	804		100%	649,526	644,025	16,375	11.4	6.0	284	NM	11.0	453	NM	0.21	23.8
02/08/16	945		99%	718,614	713,113	11,628	8.1	6.0	284	8,500	0.8	458	762	0.07	24.2
02/10/16	993		98%	738,027	732,526	9,541	6.6	6.0	284	NM	0.7	460	NM	0.06	24.3
02/17/16	1,107		68%	779,343	773,842	5,873	4.1	6.0	284	NM	0.4	462	NM	0.04	24.5
02/18/16	1,131		100%	783,228	777,727	3,872	2.7	6.0	284	NM	0.3	462	NM	0.02	24.5
02/19/16	1,153		100%	787,922	782,421	5,082	3.5	6.0	284	NM	0.4	462	NM	0.03	24.5
02/24/16	1,275		100%	800,538	795,037	2,499	1.7	6.0	284	NM	0.2	463	NM	0.02	24.6
02/29/16	1,393		100%	811,196	805,695	2,162	1.5	6.0	284	NM	0.2	464	NM	0.01	24.7
03/03/16	1,467		100%	818,810	813,309	2,468	1.7	6.0	284	NM	0.2	464	NM	0.02	24.7
03/04/16	1,489		98%	822,699	817,198	4,148	2.9	6.0	284	69,200	2.4	467	7,730	0.27	25.0
03/08/16	1,586		100%	836,974	831,473	3,541	2.5	6.0	284	NM	2.0	475	NM	0.23	25.9
03/14/16	1,729		99%	858,572	853,071	3,596	2.5	6.0	284	NM	2.1	487	NM	0.23	27.3
03/21/16	1,854	81	74%	874,773	869,272	2,313	1.6	6.0	284	NM	1.3	494	NM	0.15	28.1
03/31/16	2,095	1,637	100%	905,470	899,969	3,057	2.1	6.0	284	NM	1.8	512	NM	0.20	30.1
04/07/16	2,262	1,948	100%	924,033	918,532	2,668	1.9	6.0	284	NM	1.5	523	NM	0.17	31.3
04/11/16	2,359	0.841	101%	931,356	925,855	1,812	1.3	6.0	NM	16,300	NM	NM	1,400	NM	NM
04/18/16	2,521		98%	935,543	930,042	620	0.4	6.0	284	NM	0.1	524	NM	0.01	31.3
04/19/16	2,545		87%	935,960	930,459	417	0.3	6.0	284	NM	0.1	524	NM	0.00	31.3
04/21/16	2,590		94%	939,503	934,002	1,890	1.3	6.3	286	NM	0.3	524	NM	0.02	31.4
04/25/16	2,686		100%	945,414	939,913	1,478	1.0	6.3	286	NM	0.2	525	NM	0.02	31.4
05/03/16	2,860		90%	960,595	955,094	2,094	1.5	8.0	294	NM	0.3	527	NM	0.02	31.6
05/04/16	2,866		30%	961,300	955,799	2,820	2.0	8.0	294	NM	0.4	527	NM	0.03	31.6
05/10/16	3,014		100%	968,802	963,301	1,217	0.8	8.3	295	13,400	0.1	528	998	0.01	31.7
05/13/16	3,085		100%	972,250	966,749	1,166	0.8	8.3	295	NM	0.1	528	NM	0.01	31.7
05/17/16	3,181		100%	975,853	970,352	901	0.6	8.3	295	NM	0.1	529	NM	0.01	31.8
05/20/16	3,251		100%	979,324	973,823	1,190	0.8	8.3	295	NM	0.1	529	NM	0.01	31.8
05/23/16	3,326		100%	982,934	977,433	1,155	0.8	8.3	295	NM	0.1	529	NM	0.01	31.8
05/24/16	3,345		100%	984,358	978,857	1,799	1.2	8.3	295	NM	0.2	530	NM	0.01	31.8
05/26/16	3,399		100%	986,561	981,060	979	0.7	8.3	295	NM	0.1	530	NM	0.01	31.8
07/14/16	3,402		NA	988,514	983,013	15,624	10.9	NM	NM	NM	1.7	530	NM	0.13	31.9
08/01/16	NM		NA	988,514	983,013	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM
10/10/16	3,415		NA	990,903	985,402	NA	NA	0.0	295	91,400	NM	NM	6,820	NM	NM
10/24/16	3,419		NA	992,031	986,530	NA	NA	0.0	295	NM	NM	NM	NM	NM	NM
10/25/16	3,427		33%	996,053	990,552	12,066	8.4	0.0	295	NM	9.2	533	NM	0.69	32.1
10/26/16	3,449	3,154	100%	1,012,766	1,007,265	18,232	12.7	0.0	295	NM	13.9	546	NM	1.04	33.0
11/02/16	--	--	--	--	--	--	--	--	--	123,000	NM	NM	4,660	NM	NM
11/08/16	3,578	3,453	95%	1,173,110	1,167,609	12,870	8.9	0.0	595	NM	13.2	711	NM	0.50	39.3
11/11/16	3,578	3,484	52%	1,190,561	1,185,060	13,510	9.4	1.0	600	NM	13.9	728	NM	0.53	40.0
11/17/16	3,578	3,552	47%	1,218,771	1,213,270	9,956	6.9	5.5	623	NM	10.2	757	NM	0.39	41.0
11/18/16	3,578	3,569	71%	1,225,541	1,220,040	9,558	6.6	12.0	655	NM	9.8	764	NM	0.37	41.3
11/23/16	3,578	3,588	16%	1,234,871	1,229,370	11,785	8.2	14.0	665	NM	12.1	774	NM	0.46	41.7
11/28/16	3,578	3,711	100%	1,249,041	1,243,540	2,765	1.9	15.0	670	NM	2.8	788	NM	0.11	42.2
12/02/16	3,578	3,780	72%	1,280,241	1,274,740	10,852	7.5	0.0	810	NM	11.1	820	NM	0.42	43.4
12/05/16	3,578	3,813	46%	1,294,611	1,289,110	10,451	7.3	10.5	863	NM	10.7	835	NM	0.41	44.0
12/06/16	3,578	3,834	88%	1,294,871	1,289,370	297	0.2	10.5	863	168,000	0.4	836	12,200	0.03	44.0
12/15/16	3,578	3,869	16%	1,301,001	1,295,500	4,203	2.9	0.0	1003	NM	5.9	844	NM	0.43	44.6
12/19/16	3,578	3,947	81%	1,328,511	1,323,010	8,465	5.9	0.0	1003	NM	11.9	883	NM	0.86	47.4
02/07/17	3,578	3,951	0%	1,330,662	1,325,161	12,906	9.0	0.0	1003	NM	17.6	886	NM	1.02	47.6
02/10/17	3,578	4,011	83%	1,336,888	1,331,387	2,490	1.7	0.0	1003	NM	3.4	894	NM	0.20	48.1
02/13/17	3,578	4,022	15%	1,341,190	1,335,689	9,386	6.5	0.0	1003	NM	12.8	900	NM	0.74	48.4
02/15/17	3,578	4,068	96%	1,357,847	1,352,346	8,691	6.0	4.0	1023	NM	11.8	923	NM	0.69	49.8
02/27/17	3,578	4,162	33%	1,377,574	1,372,073	5,037	3.5	0.0	1173	163,000	6.9	949	9,450	0.40	51.3
03/06/17	3,578	4,284	73%	1,415,527	1,410,026	7,466	5.2	0.0	1173	NM	7.4	987	NM	1.01	56.4
03/07/17	3,578	4,310	100%	1,425,028	1,419,527	8,770	6.1	0.0	1173	NM	8.6	996	NM	1.19	57.7
03/13/17	3,578	4,346	25%	1,443,676	1,438,175	12,432	8.6	0.0	1173	NM	12.2	1,015	NM	1.68	60.3

Table 2

Groundwater Extraction System Operational Data
Phillips 66 Company
Renton Terminal
Renton, Washington

				Water Extraction				Product Extraction		TPPH			Benzene		
Date (mm/dd/yy)	Hour Meter Reading	SV-3102 hrs	Total Uptime	Totalizer Reading (gallons)	Cumulative Flow (gallons)	Average Flow Rate (gpd)	Average Flow Rate (gpm)	Product Tank Level (inches)	Product recovery (gallons)	Influent Conc. (µg/L)	Removal Rate (ppd)	Cumulative Recovery (pounds)	Influent Conc. (µg/L)	Removal Rate (ppd)	Cumulative Recovery (pounds)
03/22/17	3,578	4,523	82%	1,506,046	1,500,545	8,457	5.9	0.0	1173	NM	8.3	1,076	NM	1.14	68.7
03/27/17	3,578	4,632	91%	1,542,554	1,537,053	8,038	5.6	6.0	1203	118,000	7.9	1,112	16,200	1.09	73.6
03/31/17	3,578	4,730	100%	1,571,505	1,566,004	7,090	4.9	15.5	1250	NM	7.0	1,140	NM	0.96	77.5
04/03/17	3,578	4,797	93%	1,593,739	1,588,238	7,964	5.5	19.0	1267	NM	9.6	1,167	NM	1.08	80.6
04/17/17	3,578	5,122	97%	1,660,630	1,655,129	4,940	3.4	0.0	1472	NM	5.9	1,248	NM	0.67	89.7
04/20/17	3,578	5,193	99%	1,683,196	1,677,695	7,628	5.3	0.0	1472	144,000	9.2	1,275	16,300	1.04	92.7
04/25/17	3,578	5,310	98%	1,725,915	1,720,414	8,763	6.1	12.0	1532	NM	10.5	1,326	NM	1.19	98.5
05/02/17	3,578	5,419	65%	1,786,988	1,781,487	13,447	9.3	0.0	1815	NM	10.4	1,373	NM	0.66	101.5
05/11/17	3,578	5,633	99%	1,837,690	1,832,189	5,686	3.9	2.0	1825	92,900	4.4	1,413	5,870	0.28	104.0
05/17/17	3,578	5,770	95%	1,879,057	1,873,556	7,247	5.0	2.0	1825	NM	5.6	1,445	NM	0.35	106.0
05/30/17	3,578	6,068	96%	1,934,549	1,929,048	4,469	3.1	2.0	1825	NM	3.5	1,488	NM	0.22	108.8
06/05/17	3,578	6,192	86%	1,958,982	1,953,481	4,729	3.3	2.0	1825	NM	2.0	1,498	NM	0.10	109.3
06/09/17	3,578	6,283	95%	1,972,708	1,967,207	3,620	2.5	2.0	1825	49,900	1.5	1,504	2,530	0.08	109.6
06/20/17	3,578	6,524	91%	2,010,460	2,004,959	3,760	2.6	2.0	1825	NM	1.6	1,519	NM	0.08	110.4
06/26/17	3,578	6,662	96%	2,024,580	2,019,079	2,456	1.7	2.0	1825	NM	1.0	1,525	NM	0.05	110.7
7/6/17 12:00	3,578	6,900	100%	2,048,780	2,043,279	2,440	1.7	2.0	1825	NM	0.5	1,530	NM	0.03	111.0
7/10/17 10:00	3,578	6,994	100%	2,056,292	2,050,791	1,918	1.3	2.0	1825	25,000	0.4	1,532	1,530	0.02	111.1
7/17/17 11:20	3,578	7,156	99%	2,085,700	2,080,199	4,357	3.0	2.0	1825	NM	0.9	1,538	NM	0.06	111.4
7/21/17 12:00	3,578	7,252	100%	2,105,609	2,100,108	4,977	3.5	2.0	1825	NM	1.0	1,542	NM	0.06	111.7
7/31/17 9:00	3,578	7,483	99%	2,180,003	2,174,502	7,729	5.4	2.0	1825	NM	1.6	1,558	NM	0.10	112.6
8/7/17 7:30	3,578	7,559	46%	2,218,824	2,213,323	12,259	8.5	2.0	1825	NM	4.9	1,573	NM	0.70	114.9
8/23/17 8:50	3,578	7,570	3%	2,223,756	2,218,255	10,761	7.5	0.0	1825	47,700	4.3	1,575	6,880	0.62	115.1
8/30/17 14:15	3,578	7,737	99%	2,300,587	2,295,086	11,042	7.7	0.0	1825	NM	4.4	1,606	NM	0.63	119.6
9/7/17 8:00	3,578	7,870	97%	2,352,720	2,347,219	9,407	6.5	0.0	1825	NM	1.1	1,611	NM	0.09	120.0
9/20/17 9:52	3,578	8,013	88%	2,411,690	2,406,189	9,897	6.9	0.0	1825	13,500	1.1	1,618	1,120	0.09	120.6
9/29/17 9:35	3,578	8,183	82%	2,480,603	2,475,102	9,729	6.8	0.0	1825	NM	1.1	1,626	NM	0.09	121.2
10/2/17 14:20	3,578	8,255	99%	2,504,617	2,499,116	8,005	5.6	0.0	1825	NM	1.5	1,630	NM	0.07	121.5
10/10/17 16:30	3,578	8,396	78%	2,560,141	2,554,640	9,451	6.6	0.0	1825	NM	1.8	1,641	NM	0.09	122.0
10/16/17 9:30	3,578	8,535	100%	2,569,277	2,563,776	1,577	1.1	0.0	1825	22,500	0.3	1,643	1,080	0.01	122.0
10/20/17 6:30	3,578	8,621	92%	2,582,850	2,577,349	3,788	2.6	0.0	1825	NM	0.7	1,645	NM	0.03	122.2
11/1/17 14:45	3,578	8,860	97%	2,616,164	2,610,663	3,345	2.3	0.0	1825	NM	1.1	1,656	NM	0.06	122.8
11/7/17 8:00	3,578	8,993	97%	2,638,991	2,633,490	4,119	2.9	0.0	1825	NM	1.4	1,664	NM	0.07	123.2
11/20/17 14:25	3,578	9,267	88%	2,695,549	2,690,048	4,954	3.4	0.0	1825	40,400	1.7	1,683	2,110	0.09	124.1
11/29/17 13:45	3,578	9,425	99%	2,725,691	2,720,190	4,579	3.2	0.0	1825	NM	1.5	1,693	NM	0.08	124.7
12/4/17 9:15	3,578	9,540	100%	2,742,200	2,736,699	3,445	2.4	0.0	1825	NM	0.8	1,697	NM	0.04	124.9
12/7/17 11:30	3,578	9,612	100%	2,749,640	2,744,139	2,480	1.7	0.0	1825	NM	0.6	1,699	NM	0.03	125.0
12/11/17 14:05	3,578	9,711	100%	2,759,399	2,753,898	2,366	1.6	0.0	1825	28,000	0.6	1,701	1,560	0.03	125.1
12/13/17 8:23	3,578	9,754	100%	2,763,143	2,757,642	2,090	1.5	0.0	1825	NM	0.5	1,702	NM	0.03	125.2
12/18/17 10:15	3,578	9,846	100%	2,770,770	2,765,269	1,990	1.4	0.0	1825	NM	0.5	1,704	NM	0.03	125.3
12/20/17 13:30	3,578							**SYSTEM OFF**							
2/9/18 13:00	3,578	9,962	100%	2,800,314	2,794,813	6,113	4.2	0.0	1825	NM	2.5	1,716	NM	0.31	126.8
2/16/18 13:00	3,578	9,978	23%	2,807,927	2,802,426	11,420	7.9	0.0	1825	49,800	4.7	1,719	6,050	0.58	127.1
3/1/18 8:10	3,578	10,191	99%	2,873,717	2,868,216	7,413	5.1	0.0	1825	NM	1.1	1,729	NM	0.01	127.2
3/5/18 9:10	3,578	10,279	98%	2,900,156	2,894,655	7,211	5.0	0.0	1825	NM	1.1	1,733	NM	0.01	127.3
3/15/18 9:00	3,578	10,478	87%	2,990,663	2,985,162	10,915	7.6	0.0	1825	18,400	1.7	1,747	186	0.02	127.4
3/19/18 8:00	3,578	10,566	100%	3,024,765	3,019,264	9,301	6.5	0.0	1825	NM	1.4	1,752	NM	0.01	127.5
4/2/18 7:30	3,578	10,723	47%	3,089,084	3,083,583	9,832	6.8	0.0	1825	NM	1.5	1,762	NM	0.02	127.6
Regulatory Limits:						<72,000	50	**Total recovery (gallons):**	1825	**Total recovery (pounds):**		1,762	**Total recovery (pounds):**		127.6

Abbreviations and Notes:

(mm/dd/yy) = Month/day/year
conc = Concentration
TPPH = Total Purgeable Petroleum Hydrocarbon analyzed by method NWTPHg-X
Benzene analyzed by EPA method 8260
Average Flow Rate (gpm) = (Cumulative Flow - Previous Cumulative Flow)/[(Date Sampled - Previous Date Sampled)*1440 (minutes/day)]
Removal Rate (pounds/day) = [Influent Concentration (µg/Liter)]*[Average Flow Rate (gallons/minute)]*[3.785 (liters/gallon)]*[1440 (minutes/day)]
Cumulative Recovery (pounds) = [Previous Cumulative Recovery (pounds)] + {[Removal Rate (pounds/day)]
NA = Not applicable
NM = not measured
NS = Not sampled
L = liter
gpm = gallon per minute
µg/L = micrograms p = liter
g = grams
cc = cubic centimeter
lb = pound
Density: = 0.73 g/cc TPHg
= 0.88 g/cc Benzene

Table 3

Soil Vapor Extraction System Analytical Data
Phillips 66 Company
Renton Terminal
Renton, Washington

	Influent					Effluent				
Date (mm/dd/yy)	**TPHg Conc. (ppmv)**	**Benzene Conc. (ppmv)**	**Toluene Conc. (ppmv)**	**Ethylbenzene Conc. (ppmv)**	**Xylenes Conc. (ppmv)**	**TPHg Conc. (ppmv)**	**Benzene Conc. (ppmv)**	**Toluene Conc. (ppmv)**	**Ethylbenzene Conc. (ppmv)**	**Xylenes Conc. (ppmv)**
05/08/15	**1,500**	**26.2 a**	**49.0**	**5.4**	**29.3**	**1.4**	**0.014 a**	**0.042**	**0.008**	**0.049**
05/28/15	**2,890**	**40.2 a**	**54.4**	**5.3**	**48.0**	**4.0**	<0.019 a	**0.045**	<0.019	**0.163**
06/10/15	**830**	**12.2 a**	**35.7**	**2.3**	**19.8**	**2.3**	<0.018 a	**0.049**	<0.018	**0.143**
09/03/15	**3,000**	**84.8 a**	**68.8**	**8.7**	**52.8**	**2.0**	**0.035 a**	**0.081**	**0.032**	**0.246**
09/16/15	**1,310**	**37.5 a**	**29.3**	**3.1**	**18.5**	<1.7	<0.020 a	<0.020	<0.020	<0.040
01/27/16	**2.3**	**0.080 a**	**0.17**	**0.019**	**0.16**	<1.4	<0.017 a	<0.017	<0.017	<0.034
02/08/16	<8.4	<0.10 a	**0.49**	**0.11**	**1.13**	**8.1**	**0.067 a**	**0.50**	**0.13**	**1.23**
07/14/16	**1.1**	**0.025 a**	**0.040**	<0.0084	<0.0254	**2.7**	<0.0084 a	<0.0084	<0.0084	<0.0254
10/25/16	**3,600**	**56.2 a**	**215**	**34.8**	**174.9**	**31.8**	**0.39 a**	**1.4**	**0.22**	**1.09**
11/02/16	<213	<4.5 a	**9.5**	<1.8	**13.0**	<0.92	<0.019 a	<0.019	<0.0077	**0.02**
12/06/16	**77.5**	**1.7 a**	**8.5**	**1.7**	**8.9**	**1.7**	**0.0011 a**	**0.0029**	<0.00071	**0.0016**
01/01/17	**SYSTEM OFF**					**SYSTEM OFF**				
02/27/17	**64.1**	**33.4 a**	**28.5**	**3.3**	**21.8**	<20.3	<0.085 a	<0.170	<0.170	<0.510
03/27/17	**30.7**	**0.56 a**	**2.2**	**0.15**	**1.35**	**0.89**	**0.0032**	**0.0046**	<0.00077	**0.0038**
04/25/17	**712**	**20.3 a**	**37.9**	**4.3**	**27.6**	**0.72**	**0.0084**	**0.015**	**0.0016**	**0.0094**
05/11/17	**34.3**	**0.44 a**	**1.6**	**0.19**	**1.76**	**0.89**	**0.0007**	**0.020**	<0.00056	**0.00248**
06/08/17	**174**	<0.0037 a	**9.8**	**0.89**	**17.3**	**4.2**	**0.0059**	**0.028**	**0.021**	**0.127**
07/10/17	**318**	**4.9 a**	**10.1**	**2.3**	**17.8**	**1.5**	**0.0051**	**0.013**	**0.0042**	**0.036**
08/23/17	**143**	**3.3 a**	**4.1**	**0.7**	**5.1**	**2.4**	**0.0060**	**0.015**	**0.0034**	**0.0272**
09/22/17	**452**	**4.3 a**	**3.1**	**1.2**	**13.4**	**2.7**	**0.0047**	**0.80**	**0.0033**	**0.0225**
10/16/17	**409**	**3.7 a**	**5.4**	**0.93**	**7.7**	<0.19	**0.0035**	**0.0056**	**0.0017**	**0.0094**
11/20/17	**89.3**	**1.3 a**	**2.2**	**0.32**	**3.56**	**2.0**	**0.0030**	**0.0098**	**0.0043**	**0.1370**
12/11/17	**183**	**15.7 a**	**16.5**	**1.2**	**5.6**	**0.52**	**0.011**	**0.0065**	**0.00053**	**0.0025**
01/01/18	**SYSTEM OFF**					**SYSTEM OFF**				
02/16/18	**42**	**7.0 a**	**16.2**	**0.5**	**12.0**	**2.00**	**0.005**	**0.0380**	**0.00300**	**0.0121**
03/13/18	**62**	**2.1 a**	**3.5**	**0.5**	**3.5**	**0.87**	**0.002**	**0.0016**	**<0.00039**	**0.0017**
Regulatory Limits (ppmv):	**N/A**					**N/A**				

Notes and Abbreviations:

mm/dd/yy = month/day/year
Conc. = concentration
N/A = not applicable
TPHg = total petroleum hydrocarbons quantified as gasoline
µg/L = micrograms per liter
<X.X = not detected at or below the detection limit indicated
ppmv = parts per million by volume
TBD = Sample taken during this time and are awaiting results

TPHg analyzed by Method TO-14M.
Benzene, toluene, ethylbenzene, and total xylenes analyzed by Method TO-14M.

Table 4

Soil Vapor Extraction System Operational Data
Phillips 66 Company
Renton Terminal
Renton, Washington

			Soil Vapor Extraction										TPPH				Benzene		
Date (mm/dd/yy)	Oxidizer Hour Meter Reading	Total Uptime	SVE Influent Vacuum (in. Hg)	SVE Influent Vacuum (in. WC)	Knock Out Vacuum (in. Hg)	Influent-2 Differential Pressure (in. WC)	Influent-2 Flow (scfm)	Influent-2 Temperature (°F)	Influent-2 Concentration (Field) (ppmv)	Influent-2 Concentration (Lab) (ppmv)	Oxidizer Temperature (°F)	Stack Temperature (°F)	Removal rate (ppd)	Cumulative Recovery (pounds)	Emission rate (ppd)	Destruction efficiency (%)	Removal rate (ppd)	Cumulative Recovery (pounds)	Emission rate (ppd)
05/08/15	0.0	NA	NM	NM	NM	NM	NM	NM	NM	1500	NM	NM	NM	NM	NM	NM	NM	NM	NM
05/28/15	NM	NM	8.0	108.8	NM	NM	NM	151	1,360		1,435	NM	NM	NM	NM	NM	NM	NM	NM
06/01/15	123	NM	8.5	115.6	10.0	NM	392	143	780		1,452	863	422	2,165	0.58	99.9%	4.6	23	0.0022
06/02/15	132	37%	6.5	88.4	8.0	NM	393	147	900		1,409	832	424	2,324	0.59	99.9%	4.6	25	0.0022
06/03/15	141	36%	7.0	95.2	8.0	NM	792	153	1,200		1,425	882	853	2,644	1.18	99.9%	9.3	29	0.0044
06/04/15	163	96%	6.0	81.6	8.0	NM	809	155	6,400		1,416	867	872	3,443	1.21	99.9%	9.5	37	0.0045
06/05/15	163	0%	SVE system not running due to problem with transfer pump from air water separator																
06/08/15	163	0%	SVE system not running due to problem with transfer pump from air water separator																
06/09/15	164	1%	12.0	163.2	14.5	NM	602	159	1,300		1,440	863	649	3,470	0.90	99.9%	7.0	38	0.0033
06/10/15	169	23%	9.0	122.4	10.0	NM	707	151	1,800		1,458	885	219	3,516	0.61	99.7%	2.5	38	0.0037
06/11/15	171	10%	7.0	95.2	7.0	NM	793	140	1,428		1,432	878	245	3,536	0.68	99.7%	2.8	38	0.0042
06/15/15	194	23%	9.0	122.4	10.0	NM	681	166	1,500		1,407	857	211	3,739	0.58	99.7%	2.4	41	0.0036
06/16/15	203	43%	8.0	108.8	9.0	NM	725	150	2,100		1,436	869	225	3,823	0.62	99.7%	2.6	42	0.0038
09/02/15	215	NA	4.0	54.4	5.0	0.30	467	NM	NM		1,423	854	145	3,895	0.40	99.7%	11.5	47	0.0024
09/03/15	216	5%	8.0	108.8	9.0	0.50	603	NM	1,800		1,411	844	675	3,923	0.45	99.9%	14.9	48	0.0061
09/08/15	223	6%	6.5	88.4	7.5	0.30	475	130	2,000		1,403	822	532	4,078	0.35	99.9%	11.7	51	0.0048
09/09/15	230	30%	6.0	81.6	7.0	0.30	467	150	1,550		1,439	846	523	4,231	0.35	99.9%	11.5	55	0.0048
09/10/15	248	103%	SVE system turned off due to leaking carbon vessel.																
09/16/15	250	1%	6.5	88.4	8.0	0.30	477	125	1,200		1,409	825	233	4,425	0.30	99.9%	5.2	59	0.0028
09/17/15	276	99%	8	109	9.0	0.40	546	135	1,941		1,441	844	267	4,715	0.35	99.9%	6.0	66	0.0032
09/22/15	290	12%	7.5	102.0	8.5	0.55	635	145	1,700		1,405	832	310	4,896	0.40	99.9%	6.9	70	0.0037
09/24/15	NM	NM	NM	NM	NM	0.45	575	NM	NM		1,440	852	281	NM	0.36	99.9%	6.3	NM	0.0033
09/25/15	338	68%	5.0	68.0	7.0	0.80	763	150	1,600		1,428	856	373	5,641	0.48	99.9%	8.3	86	0.0044
09/28/15	410	101%	5.5	74.8	6.5	0.80	766	145	900		1,426	867	374	6,765	0.49	99.9%	8.4	111	0.0045
01/21/16	NM	NM	SVE system turned off to replace fittings.																
01/26/16	419	7%	NM	NM	NM	NM	NM	NM	NM		1,447	759	NM	NM	NM	NM	NM	NM	NM
01/27/16	426	26%	6.0	81.6	7.5	0.03	147	160	22		1,440	842	0.13	6,765	0.04	69.6%	0.0034	111	0.0007
01/28/16	447	98%	6.0	81.6	7.5	0.03	147	160	68		1,426	849	0.13	6,765	0.04	69.6%	0.0034	111	0.0007
02/02/16	572	100%	6.0	81.6	7.5	0.04	169	160	48		1,421	847	0.15	6,766	0.27	48.1%	0.0039	111	0.0008
02/08/16	717	100%	6.0	81.6	7.5	0.04	169	160	12		1,427	846	0.53	6,769	0.27	50.0%	0.0049	111	0.0033
02/10/16	767	100%	6.5	88.4	7.5	NM	NM	160	96		1,419	845	1.00	6,771	0.00	100.0%	0.0093	112	0.0062
02/17/16	858	100%	SVE system turned off.																
02/18/16	859	4%	2.0	27.2	4.0	NM	NM	145	1.2		1,461	873	1.00	6,775	0.50	50.0%	0.0093	112	0.0062
02/19/16	878	100%	3.0	40.8	5.5	0.30	467	150	1.2		1,435	855	1.46	6,776	0.73	50.0%	0.0136	112	0.0091
02/24/16	880	2%	SVE system turned off.																
07/11/16	07/14/16		System startup and troubleshooting after air stripper installation																
07/14/16	887	NM	NM	NM	NM	0.1	270	NM	0.7		1,437	887	0.11	6,776	0.27	NA	0.0020	112	0.0003
08/01/16	890	NM	0.0	0.0	0.0	0.3	471	140	NM		1,448	855	0.19	6,776	0.47	NA	0.0034	112	0.0006
10/10/16	NM	NM	SVE system turned off.																
10/24/16	907	NA	5.0	68.0	6.0	0.5	603	150	240		1,415	851	0.25	6,776	0.61	NA	0.0044	112	0.0007
10/25/16	915	33%	5.0	68.0	7.5	0.9	809	150	1,400		1,425	864	1,087	7,138	9.6	99.1%	13.2	116	0.046
10/26/16	936	100%	5.5	74.8	7.0	0.9	813	145	80.2		1,426	871	1,091	8,093	9.6	99.1%	13.3	128	0.046
11/02/16	--	--	--	--	--	--	--	--	--		--	--	49	--	0.2	99.6%	0.8	--	0.002
11/08/16	1,244	98%	6.0	81.6	6.5	0.3	428	--	205		1,431	852	34	8,530	0.1	99.6%	0.6	135	0.001
11/11/16	1,276	53%	8.0	108.8	8.0	0.4	549	130	406		1,447	864	44	8,588	0.2	99.6%	0.7	136	0.002
11/17/16	1,345	48%	4.5	61.2	5.0	0.3	473	135	118		1,419	846	38	8,696	0.2	99.6%	0.6	138	0.001
11/18/16	1,363	75%	11.0	149.6	11.0	0.3	430	140	557		1,414	839	34	8,722	0.1	99.6%	0.6	138	0.001
11/23/16	1,384	18%	4.5	61.2	3.0	0.4	513	130	112		1,466	865	41	8,758	0.2	99.6%	0.7	139	0.001
11/28/16	1,509	100%	4.0	54.4	6.0	0.4	544	140	184		1,446	854	43	8,983	0.2	99.6%	0.7	142	0.002
12/02/16	1,580	74%	9.0	122.4	7.5	0.3	477	125	312		1,436	NM	14	9,024	0.3	97.8%	0.2	143	0.0001
12/05/16	1,613	46%	7.0	95.2	7.5	0.4	551	125	357		1,425	842	16	9,046	0.3	97.8%	0.3	143	0.0001
12/06/16	1,634	88%	8.0	108.8	10.5	0.4	546	135	99		1,438	849	16	9,059	0.3	97.8%	0.270	144	0.0001
12/15/16	1,672	18%	9.5	129.2	10.0	0.5	611	135	638		1,460	873	18	9,087	0.4	97.8%	0.3	144	0.0001
12/19/16	1,750	81%	NM	NM	NM	NM	NM	NM	NM		NM	NM	18	9,145	0.4	97.8%	0.3	145	0.0001
02/07/17	1,759	1%	0.0	0.0	0.0	0.3	473	NM	44	NM	1,445	848	11	9,149	1.8	84.2%	4.6	147	0.006
02/10/17	1,820	85%	3.5	47.6	3.0	0.2	383	145	212	NM	1,420	835	9	9,172	1.5	84.2%	3.7	156	0.005
02/13/17	1,831	15%	4.0	54.4	5.0	0.2	383	145	140	NM	1,428	NM	9	9,176	1.5	84.2%	3.7	158	0.005
02/15/17	1,879	100%	5.0	68.0	5.5	0.2	382	150	243	NM	1,418	847	9	9,195	1.4	84.2%	3.7	165	0.005
02/27/17	1,975	33%	7.5	102.0	8.0	0.2	382	150	181	64.1	1,425	838	9	9,231	1.4	84.2%	3.7	180	0.005
03/06/17	2,100	74%	6.5	88.4	8.5	0.4	549	130	51	NM	1,449	853	6	9,264	0.2	97.1%	0.1	181	0.0005
03/07/17	2,126	100%	9.0	122.4	6.0	0.3	473	135	410	NM	1,435	844	5	9,270	0.2	97.1%	0.1	181	0.0004
03/13/17	2,165	27%	8.5	115.6	9.5	0.3	471	140	101	NM	1,464	866	5	9,279	0.2	97.1%	0.1	181	0.0004
03/22/17	2,347	84%	11.0	149.6	10.0	0.1	270	150	132	NM	1,448	863	3	9,302	0.1	97.1%	0.04	181	0.0003
03/27/17	2,459	93%	8.0	108.8	9.0	0.2	382	148	62	30.7	1,417	837	4	9,322	0.1	97.1%	0.1	181	0.0004
03/31/17	2,558	100%	5.0	68.0	3.5	0.4	546	135	235	NM	1,428	857	6	9,348	0.2	97.1%	0.1	182	0.0005
04/03/17	2,628	97%	5.0	68.0	3.5	0.4	546	135	41	NM	1,442	864	145	9,771	0.1	99.9%	3.2	191	0.0013
04/17/17	2,959	99%	5.0	68.0	6.0	0.4	542	145	183	NM	1,452	856	144	11,756	0.1	99.9%	3.2	235	0.0013
04/20/17	3,033	100%	4.0	54.4	5.0	0.4	542	145	218	NM	1,445	858	144	12,200	0.1	99.9%	3.2	245	0.0013
04/25/17	3,152	99%	4.0	54.4	4.0	0.4	540	150	330	712	1,432	846	143	12,910	0.1	99.9%	3.2	261	0.0013

Table 4

Soil Vapor Extraction System Operational Data
Phillips 66 Company
Renton Terminal
Renton, Washington

			Soil Vapor Extraction										TPPH				Benzene		
Date (mm/dd/yy)	Oxidizer Hour Meter Reading	Total Uptime	SVE Influent Vacuum (in. Hg)	SVE Influent Vacuum (in. WC)	Knock Out Vacuum (in. Hg)	Influent-2 Differential Pressure (in. WC)	Influent-2 Flow (scfm)	Influent-2 Temperature (°F)	Influent-2 Concentration (Field) (ppmv)	Influent-2 Concentration (Lab) (ppmv)	Oxidizer Temperature (°F)	Stack Temperature (°F)	Removal rate (ppd)	Cumulative Recovery (pounds)	Emission rate (ppd)	Destruction efficiency (%)	Removal rate (ppd)	Cumulative Recovery (pounds)	Emission rate (ppd)
05/02/17	3,264	67%	5.0	68.0	6.0	0.4	541	147	88	NM	1,422	853	7	12,943	0.2	97.4%	0.1	261	0.0001
05/11/17	3,482	100%	5.5	74.8	6.5	0.3	469	145	33.2	34	1,423	845	6	12,997	0.2	97.4%	0.1	262	0.0001
05/17/17	3,622	97%	3.0	40.8	5.5	0.4	551	125	227.5	315.6*	1,413	871	65	13,376	0.2	99.7%	0.1	262	0.0001
05/30/17	3,925	97%	3.0	40.8	3.5	0.35	522	110	231	322.2*	1,433	847	63	14,168	0.2	99.7%	0.1	263	0.0001
06/05/17	4,053	89%	2.0	27.2	2.0	0.45	587	120	357	NM	1,432	852	38	14,371	0.9	97.6%	0.00063	263	0.0010
06/09/17	4,145	96%	2.0	27.2	2.5	0.4	555	116	319	174	1,426	845	36	14,509	0.9	97.6%	0.00060	263	0.0010
06/20/17	4,391	93%	1.0	13.6	1.5	0.55	643	130	180	NM	1,463	869	42	14,937	1.0	97.6%	0.00069	263	0.0011
06/26/17	4,532	98%	1.0	13.6	1.0	0.5	616	125	139	NM	1,444	863	40	15,172	1.0	97.6%	0.00066	263	0.0011
07/06/17	4,775	100%	1.0	13.6	1.0	0.5	619	120	276	NM	1,440	860	73	15,915	0.3	99.5%	0.88205	272	0.0009
07/10/17	4,871	100%	0.5	6.8	1.0	0.5	619	120	345	318	1,420	849	73	16,209	0.3	99.5%	0.88205	276	0.0009
07/17/17	5,037	99%	2.5	34.0	2.5	0.40	551	125	406	NM	1,415	826	65	16,661	0.3	99.5%	0.78555	281	0.0008
07/21/17	5,135	100%	2.5	34.0	2.5	0.40	551	125	571	NM	1,432	835	65	16,928	0.3	99.5%	0.78555	284	0.0008
07/31/17	5,370	98%	1.0	13.6	3.0	0.35	513	130	600	NM	1,410	810	61	17,524	0.3	99.5%	0.73169	291	0.0008
08/07/17	5,538	100%	1.0	13.6	1.0	0.40	551	125	NM	NM	1,415	822	29	17,730	0.5	98.3%	0.52904	295	0.0010
08/23/17	5,913	98%	1.0	13.6	1.5	0.55	646	125	283	143	1,433	845	34	18,268	0.6	98.3%	0.62036	305	0.0011
08/30/17	6,083	100%	2.0	27.2	2.0	0.50	613	130	325.5	NM	1,430	842	33	18,500	0.5	98.3%	0.58898	309	0.0011
09/07/17	6,221	96%	2.0	27.2	2.0	0.40	551	125	359	NM	1,411	820	93	19,034	0.6	99.4%	0.68936	313	0.0008
09/20/17	6,368	92%	NM	NM	2.0	0.50	616	125	333	452	1,418	834	104	19,670	0.6	99.4%	0.77073	318	0.0008
09/29/17	6,543	84%	NM	NM	2.0	0.50	613	130	227	NM	1,448	843	103	20,424	0.6	99.4%	0.76745	323	0.0008
10/02/17	6,618	100%	NM	NM	2.0	0.55	646	125	278	NM	1,429	843	99	20,734	0.0	100%	0.69555	325	0.0007
10/10/17	6,766	83%	2.0	27.2	2.0	0.50	613	130	NM	NM	1,440	847	94	21,311	0.0	100%	0.66037	330	0.0006
10/16/17	6,907	98%	NM	NM	2.0	0.55	646	125	239	409	1,427	840	99	21,890	0.0	100%	0.69555	334	0.0007
10/20/17	6,995	92%	2.7	36.7	2.5	0.50	616	125	420	NM	1,428	834	94	22,235	0.0	100%	0.66318	336	0.0006
11/01/17	7,242	100%	2.0	27.2	1.5	0.50	613	130	342	NM	1,452	861	20	22,445	0.5	97.8%	0.23202	338	0.0005
11/07/17	7,377	94%	1.5	20.4	1.5	0.50	613	130	199	NM	1,427	844	20	22,560	0.5	97.8%	0.23202	340	0.0005
11/20/17	7,659	93%	2.0	27.2	2.0	0.45	579	135	68	89	1,435	851	19	22,787	0.4	97.8%	0.21919	342	0.0005
11/29/17	7,823	100%	NM	NM	2.0	0.50	613	130	125	NM	1,440	884	20	22,926	0.5	97.8%	0.23202	344	0.0005
12/04/17	7,940	98%	2.0	27.2	NM	0.45	579	135	84	NM	1,435	845	40	23,119	0.1	99.7%	2.64711	357	0.0019
12/07/17	8,014	100%	2.0	27.5	2.0	0.40	544	140	78	NM	1,431	845	37	23,234	0.1	99.7%	2.48530	364	0.0017
12/11/17	8,115	100%	2.0	27.2	2.0	0.45	579	135	188	183	1,420	836	40	23,400	0.1	99.7%	2.64711	376	0.0019
12/13/17	8,158	100%	2.0	27.2	NM	0.45	582	130	146	NM	1,426	844	40	23,471	0.1	99.7%	2.65831	380	0.0019
12/18/17	8,253	100%	2.0	27.2	2.0	0.45	579	135	88	NM	1,429	850	40	23,628	0.1	99.7%	2.64711	391	0.0019
12/20/18	**SYSTEM OFF**																		
02/09/18	8,374	100%	2.0	27.2	2.0	0.45	577	140	123	NM	1,433	848	9	23,673	0.4	95.2%	1.17531	397	0.0008
02/16/18	8,389	21%	2.0	27.2	2.0	0.50	611	135	113	42	1,456	857	9	23,679	0.5	95.2%	1.24408	398	0.0009
03/01/18	8,607	99%	2.0	27.2	2.0	0.50	613	130	61	NM	1,428	850	14	23,786	0.2	98.6%	0.37480	401	0.0003
03/05/18	8,699	100%	2.0	27.2	2.0	0.35	511	135	49	NM	1,424	844	12	23,836	0.2	98.6%	0.31226	402	0.0003
03/15/18	8,906	90%	2.5	34.0	2.5	0.35	511	135	94	62	1,416	830	12	23,937	0.2	98.6%	0.31226	405	0.0003
03/19/18	8,996	100%	3.0	40.8	3.0	0.35	511	135	403	476.1*	1,425	837	91	24,129	0.2	99.8%	0.31226	406	0.0003
04/02/18	9,318	98%	2.0	27.2	2.0	0.30	497	80	195	205.8*	1,422	833	38	24,994	0.2	99.6%	0.30346	410	0.0002
Regulatory Limits (ppmv):							**<1,500**				**>1,400**					**>97% when inlet concentrations exceed 200 ppmv**			**<0.085**

Abbreviations and Notes:

(mm/dd/yy) = Month/day/year
ALS = Air liquid separator
SVE = Soil vapor extraction
conc = Concentration
TPPH = Total Purgeable Petroleum Hydrocarbon analyzed by method NWTPHg-X
°F = Degrees Farenheit
NA = Not applicable
NM = not measured
NS = Not sampled
L = liter
gpm = gallon per minute
µg/L = microgran = liter
g = grams
cc = cubic centimeter
lb = pound

* = not actual analytical data. These value was estimated by taking 70% of the extrapolated value using historical PID vs. analytical data. This was done to estimate removal rate after air sweep was implemented.
Density: = 0.73 g/cc TPHg
= 0.88 g/cc Benzene

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
R-1	1/27/1993	16.94	--	--	0.05	5.22	11.76
R-1	3/12/1993	16.94	--	--	0.10	11.80	5.22
R-1	6/30/1993	16.94	--	--	0.01	6.88	10.07
R-1	12/23/1994	16.94	--	--	--	3.43	13.51
R-1	2/3/1995	16.94	--	--	0.10	4.10	12.92
R-1	2/22/1995	16.94	--	--	0.13	5.28	11.76
R-1	3/24/1995	16.94	--	--	0.40	5.55	11.69
R-1	4/27/1995	16.94	--	--	0.32	5.62	11.56
R-1	5/15/1995	16.94	--	--	0.47	4.91	12.38
R-1	6/16/1995	16.94	--	--	0.44	5.29	11.98
R-1	8/25/1995	16.94	--	--	0.20	5.85	11.24
R-1	9/26/1995	16.94	--	--	0.19	7.67	9.41
R-1	10/20/1995	16.94	--	--	0.02	6.17	10.79
R-1	4/4/1996	16.94	--	--	0.15	3.82	13.23
R-1	4/16/1996	16.94	--	--	0.14	3.14	13.91
R-1	5/10/1996	16.94	--	--	0.11	2.72	14.30
R-1	5/15/1996	16.94	--	--	0.06	2.67	14.32
R-1	5/22/1996	16.94	--	--	--	7.83	9.11
R-1	6/5/1996	16.94	--	--	--	8.62	8.32
R-1	6/24/1996	16.94	--	--	--	8.50	8.44
R-1	7/15/1996	16.94	--	--	--	8.63	8.31
R-1	8/23/1996	16.94	--	--	--	8.53	8.41
R-1	9/18/1996	16.94	--	--	--	8.34	8.60
R-1	1/3/1997	16.94	--	--	--	3.11	13.83
R-1	3/12/1997	16.94	--	--	--	8.91	8.03
R-1	4/2/1997	16.94	--	--	0.05	11.04	5.94
R-1	7/8/1997	16.94	--	--	--	5.71	11.23
R-1	8/26/1997	16.94	--	--	--	11.02	5.92
R-1	9/17/1997	16.94	--	--	--	10.84	6.10
R-1	4/30/1998	16.94	--	--	0.02	4.60	12.36
R-1	5/24/2001	16.94	--	--	--	10.75	6.19
R-1	11/24/2002	19.83	--	--	--	5.90	13.93
R-1	6/29/2007	19.83	--	--	--	5.66	14.17
R-1	10/22/2007	19.83			Not Monitored		
R-1	11/28/2007	19.83			Not Monitored		
R-1	12/13/2007	19.83	--	--	--	9.10	10.73
R-1	1/21/2008	19.83	--	--	--	6.98	12.85
R-1	2/24/2008	19.83			Not Monitored		
R-1	3/24/2008	19.83	--	--	--	5.35	14.48
R-1	8/25/2008	19.83			Not Monitored		
R-1	2/18/2009	19.83			Not Monitored		
R-1	8/25/2009	19.83			Not Monitored		
R-1	3/22/2010	16.94	--	--	--	4.75	12.19
R-1	8/23/2010	16.94	5.35	11.59	0.02	5.37	11.59
R-1	2/7/2011	16.94	--	--	--	4.56	12.38
R-2	1/27/1993	17.52	--	--	--	6.15	11.37
R-2	3/12/1993	17.52	--	--	--	7.20	10.32
R-2	2/22/1995	17.52	--	--	--	7.66	9.86
R-2	5/15/1995	17.52	--	--	--	7.87	9.65
R-2	6/16/1995	17.52	--	--	0.01	7.51	10.02
R-2	9/26/1995	17.52	--	--	0.01	7.81	9.72
R-2	10/20/1995	17.52	--	--	0.06	7.63	9.94
R-2	4/4/1996	17.52	--	--	--	5.55	11.97
R-2	4/16/1996	17.52	--	--	--	5.29	12.23
R-2	5/10/1996	17.52	--	--	--	5.21	12.31
R-2	5/15/1996	17.52	--	--	--	5.10	12.42
R-2	5/22/1996	17.52	--	--	0.02	7.59	9.95
R-2	6/5/1996	17.52	--	--	0.18	7.80	9.86
R-2	6/24/1996	17.52	--	--	0.03	7.72	9.82
R-2	7/15/1996	17.52	--	--	0.04	7.60	9.95
R-2	8/23/1996	17.52	--	--	0.02	7.77	9.77
R-2	9/18/1996	17.52	--	--	0.04	7.87	9.68
R-2	1/3/1997	17.52	--	--	--	4.25	13.27
R-2	3/12/1997	17.52	--	--	0.02	8.02	9.52
R-2	4/2/1997	17.52	--	--	0.11	7.72	9.88
R-2	7/8/1997	17.52	--	--	--	6.47	11.05
R-2	8/19/1997	17.52	--	--	0.02	7.76	9.78
R-2	9/17/1997	17.52	--	--	--	7.67	9.85
R-2	4/30/1998	17.52	--	--	0.03	6.43	11.11
R-2	5/24/2001	17.52	--	--	0.35	8.25	9.53
R-2	11/24/2002	20.28	--	--	--	6.69	13.59
R-2	6/29/2007	20.28	--	--	--	6.72	13.56
R-2	10/22/2007	20.28			Not Monitored		
R-2	11/28/2007	20.28			Not Monitored		
R-2	12/13/2007	20.28	--	--	--	7.76	12.52
R-2	1/21/2008	20.28	--	--	--	5.83	14.45
R-2	2/24/2008	20.28			Not Monitored		
R-2	3/24/2008	20.28	--	--	--	6.19	14.09
R-2	8/25/2008	20.28			Not Monitored		
R-2	2/18/2009	20.28			Not Monitored		
R-2	8/25/2009	20.28			Not Monitored		
R-2	3/22/2010	17.52	--	--	--	5.68	11.84
R-2	8/23/2010	17.52	--	--	--	6.85	10.67
R-2	2/7/2011	17.52	--	--	--	7.87	9.65
W-1	1/27/1993	18.86	--	--	0.19	5.71	13.29
W-1	3/12/1993	18.86	--	--	0.06	8.24	10.67
W-1	4/14/1993	18.86	--	--	--	8.22	10.64
W-1	6/30/1993	18.86	--	--	0.08	8.25	10.67

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
W-1	12/15/1993	18.86	--	--	--	8.60	10.26
W-1	2/8/1994	18.86	--	--	0.13	6.51	12.45
W-1	7/8/1994	18.86	--	--	--	8.64	10.22
W-1	8/12/1994	18.86	--	--	--	8.63	10.23
W-1	12/23/1994	18.86	--	--	--	5.48	13.38
W-1	2/3/1995	18.86	--	--	--	5.24	13.62
W-1	2/22/1995	18.86	--	--	0.03	7.13	11.75
W-1	3/24/1995	18.86	--	--	0.14	7.04	11.93
W-1	4/27/1995	18.86	--	--	--	6.75	12.11
W-1	5/15/1995	18.86	--	--	0.39	6.88	12.27
W-1	6/16/1995	18.86	--	--	0.45	7.34	11.86
W-1	8/25/1995	18.86	--	--	0.18	7.89	11.11
W-1	10/20/1995	18.86	--	--	0.12	8.60	10.35
W-1	4/4/1996	18.86	--	--	0.07	5.81	13.10
W-1	4/16/1996	18.86	--	--	0.12	5.07	13.88
W-1	5/10/1996	18.86	--	--	0.09	4.75	14.18
W-1	5/15/1996	18.86	--	--	0.11	4.74	14.20
W-1	5/22/1996	18.86	--	--	0.07	8.08	10.83
W-1	6/5/1996	18.86	--	--	0.02	8.12	10.76
W-1	6/24/1996	18.86	--	--	0.01	8.28	10.59
W-1	7/15/1996	18.86	--	--	0.08	8.52	10.40
W-1	8/23/1996	18.86	--	--	--	8.63	10.23
W-1	9/18/1996	18.86	--	--	--	8.63	10.23
W-1	1/3/1997	18.86	--	--	--	4.97	13.89
W-1	3/12/1997	18.86	--	--	--	8.08	10.78
W-1	4/2/1997	18.86	--	--	0.03	8.14	10.74
W-1	5/1/1997	18.86	--	--	--	8.18	10.68
W-1	8/19/1997	18.86	--	--	--	8.57	10.29
W-1	9/17/1997	18.86	--	--	--	8.20	10.66
W-1	4/30/1998	18.86	--	--	0.08	6.70	12.22
W-1	7/28/1999	18.86	--	--	0.12	7.18	11.77
W-1	5/23/2000	18.86	--	--	--	6.91	11.95
W-1	5/24/2001	18.86	--	--	0.01	8.45	10.42
W-1	6/5/2002	18.86	--	--	--	6.42	12.44
W-1	5/29/2003	18.86	--	--	sheen	7.91	10.95
W-1	6/16/2004	18.86	--	--	0.02	7.65	11.23
W-1	6/20/2005	18.86	--	--	--	6.31	12.55
W-1	6/5/2006	18.86	--	--	--	5.99	12.87
W-1	10/23/2006	18.86	--	--	--	8.22	10.64
W-1	3/14/2007	21.89	--	--	--	5.41	16.48
W-1	9/10/2007	21.89	--	--	--	8.63	13.26
W-1	11/28/2007	21.89	--	--	--	8.62	13.27
W-1	12/13/2007	21.89	--	--	--	6.92	14.97
W-1	1/21/2008	21.89	--	--	--	8.00	13.89
W-1	2/24/2008	21.89	--	--	--	6.65	15.24
W-1	3/24/2008	21.89	--	--	--	7.37	14.52
W-1	6/2/2008	21.89	--	--	--	8.49	13.40
W-1	8/25/2008	21.89	--	--	--	8.61	13.28
W-1	2/18/2009	21.89			Not Monitored		
W-1	8/25/2009	21.89			Not Monitored		
W-1	3/22/2010	21.89	--	--	--	5.35	16.54
W-1	8/23/2010	21.89	--	--	--	7.40	14.49
W-1	2/7/2011	21.89	--	--	--	6.60	15.29
W-1	5/27/2011	21.89	--	--	--	8.42	13.47
W-1	8/16/2011	21.89	--	--	--	8.50	13.39
W-1	11/14/2011	21.89	--	--	--	8.61	13.28
W-1	2/20/2012	21.89	--	--	--	8.07	13.82
W-1	8/22/2012	21.89	--	--	--	7.79	14.10
W-1	11/5/2012	21.89	--	--	--	8.61	13.28
W-1	1/28/2013	21.89	--	--	--	5.29	16.60
W-1	5/9/2013	21.89	--	--	--	8.07	13.82
W-1	8/19/2013	21.89			DRY		
W-1	11/25/2013	21.89	--	--	--	8.18	13.71
W-1	2/14/2014	21.89	--	--	--	8.06	13.83
W-1	5/5/2014	21.89	--	--	--	7.96	13.93
W-1	8/19/2014	21.89			DRY		
W-1	11/21/2014	21.89	--	--	--	6.96	14.93
W-1	12/11/2017	21.89	---	---	---	4.96	16.93
W-1	2/26/2018	21.89	---	---	---	---	---
W-2	1/27/1993	18.28	--	--	0.16	5.11	13.29
W-2	3/12/1993	18.28	--	--	0.02	7.94	10.36
W-2	4/14/1993	18.28	--	--	0.02	7.96	10.34
W-2	6/30/1993	18.28	--	--	0.09	7.65	10.70
W-2	12/15/1993	18.28	--	--	--	8.04	10.24
W-2	2/8/1994	18.28	--	--	0.13	5.93	12.45
W-2	7/8/1994	18.28	--	--	--	8.69	9.59
W-2	8/12/1994	18.28	--	--	--	8.98	9.30
W-2	9/21/1994	18.28	--	--	0.18	9.38	9.04
W-2	11/4/1994	18.28	--	--	0.37	9.51	9.05
W-2	12/23/1994	18.28	--	--	--	4.92	13.36
W-2	2/3/1995	18.28	--	--	--	5.16	13.12
W-2	2/22/1995	18.28	--	--	0.06	6.57	11.76
W-2	3/24/1995	18.28	--	--	0.14	6.48	11.91
W-2	4/27/1995	18.28	--	--	--	5.65	12.63
W-2	5/15/1995	18.28	--	--	0.57	6.48	12.23
W-2	6/16/1995	18.28	--	--	0.60	6.93	11.80
W-2	8/25/1995	18.28	--	--	0.22	7.36	11.09
W-2	10/20/1995	18.28	--	--	--	7.67	10.61
W-2	4/4/1996	18.28	--	--	0.02	5.19	13.11

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
W-2	4/16/1996	18.28	--	--	--	4.40	13.88
W-2	5/10/1996	18.28	--	--	--	4.10	14.18
W-2	5/15/1996	18.28	--	--	--	4.08	14.20
W-2	5/22/1996	18.28	--	--	--	7.59	10.69
W-2	6/5/1996	18.28	--	--	--	7.69	10.59
W-2	6/24/1996	18.28	--	--	--	8.08	10.20
W-2	7/15/1996	18.28	--	--	--	8.45	9.83
W-2	8/23/1996	18.28	--	--	--	8.80	9.48
W-2	9/18/1996	18.28	--	--	--	8.98	9.30
W-2	1/3/1997	18.28	--	--	--	4.48	13.80
W-2	3/12/1997	18.28	--	--	--	7.57	10.71
W-2	4/2/1997	18.28	--	--	--	7.60	10.68
W-2	5/1/1997	18.28	--	--	--	7.72	10.56
W-2	8/19/1997	18.28	--	--	--	8.10	10.18
W-2	9/18/1997	18.28	--	--	0.07	7.40	10.93
W-2	4/30/1998	18.28	--	--	0.07	6.11	12.22
W-2	7/29/1999	18.28	--	--	--	6.50	11.78
W-2	5/23/2000	18.28	--	--	--	6.33	11.95
W-2	5/24/2001	18.28	--	--	--	8.10	10.18
W-2	6/5/2002	18.28	--	--	0.02	5.87	12.43
W-2	5/28/2003	18.28	--	--	sheen	7.32	10.96
W-2	6/15/2004	18.28	--	--	--	8.55	9.73
W-2	6/22/2005	18.28	--	--	--	5.71	12.57
W-2	6/5/2006	18.28	--	--	--	5.38	12.90
W-2	10/23/2006	18.28	--	--	--	7.63	10.65
W-2	3/14/2007	21.30	--	--	--	4.82	16.48
W-2	9/10/2007	21.30	--	--	--	8.97	12.33
W-2	11/28/2007	21.30	--	--	--	8.15	13.15
W-2	12/13/2007	21.30	--	--	--	7.65	13.65
W-2	1/21/2008	21.30	--	--	--	7.58	13.72
W-2	2/24/2008	21.30	--	--	--	6.04	15.26
W-2	3/24/2008	21.30	--	--	--	6.78	14.52
W-2	6/2/2008	21.30	--	--	--	8.25	13.05
W-2	8/25/2008	21.30	--	--	--	8.51	12.79
W-2	2/18/2009	21.30			Not Monitored		
W-2	8/25/2009	21.30			Not Monitored		
W-2	3/22/2010	21.30	--	--	--	4.78	16.52
W-2	8/23/2010	21.30	--	--	--	6.79	14.51
W-2	2/7/2011	21.30	--	--	--	5.99	15.31
W-2	5/27/2011	21.30	--	--	--	7.61	13.69
W-2	8/8/2011	21.30	--	--	--	8.38	12.92
W-2	11/14/2011	21.30	--	--	--	8.46	12.84
W-2	2/20/2012	21.30	--	--	--	7.60	13.70
W-2	8/22/2012	21.30	--	--	--	7.20	14.10
W-2	11/5/2012	21.30	--	--	--	8.39	12.91
W-2	5/9/2013	21.30	--	--	--	7.56	13.74
W-2	8/19/2013	21.30	--	--	--	8.71	12.59
W-2	11/25/2013	21.30	--	--	--	7.72	13.58
W-2	2/14/2014	21.30	--	--	--	7.60	13.70
W-2	5/5/2014	21.30	--	--	--	7.58	13.72
W-2	8/19/2014	21.30	--	--	--	8.91	12.39
W-2	11/21/2014	21.30	--	--	--	6.37	14.93
W-3	1/27/1993	17.10	--	--	--	5.42	11.68
W-3	3/12/1993	17.10	--	--	--	6.11	10.99
W-3	4/14/1993	17.10	--	--	--	5.88	11.22
W-3	12/15/1993	17.10	--	--	--	5.59	11.51
W-3	11/4/1994	17.10	--	--	--	7.72	9.38
W-3	2/22/1995	17.10	--	--	--	5.82	11.28
W-3	6/16/1995	17.10	--	--	--	6.37	10.73
W-3	10/20/1995	17.10	--	--	--	6.17	10.93
W-3	4/4/1996	17.10	--	--	--	5.19	11.91
W-3	4/16/1996	17.10	--	--	--	4.86	12.24
W-3	5/10/1996	17.10	--	--	--	4.83	12.27
W-3	5/15/1996	17.10	--	--	--	4.71	12.39
W-3	5/22/1996	17.10	--	--	--	5.78	11.32
W-3	6/5/1996	17.10	--	--	--	6.07	11.03
W-3	6/24/1996	17.10	--	--	--	6.30	10.80
W-3	7/15/1996	17.10	--	--	--	6.65	10.45
W-3	9/18/1996	17.10	--	--	--	6.37	10.73
W-3	1/3/1997	17.10	--	--	--	3.72	13.38
W-3	4/2/1997	17.10	--	--	0.04	5.83	11.30
W-3	5/1/1997	17.10	--	--	--	5.80	11.30
W-3	4/29/1998	17.10	--	--	--	5.81	11.29
W-3	7/30/1999	17.10	--	--	--	6.11	10.99
W-3	5/23/2000	17.10	--	--	--	5.55	11.55
W-3	5/22/2001	17.10	--	--	--	6.10	11.00
W-3	6/4/2002	17.10	--	--	--	5.78	11.32
W-3	5/28/2003	17.10	--	--	--	6.26	10.84
W-3	6/16/2004	17.10	--	--	0.02	6.23	10.89
W-3	6/21/2005	17.10	--	--	--	5.75	11.35
W-3	6/5/2006	17.10	--	--	--	5.43	11.67
W-3	10/23/2006	17.10	--	--	--	6.22	10.88
W-3	3/14/2007	19.95	--	--	--	4.74	15.21
W-3	9/10/2007	19.95	--	--	--	6.55	13.40
W-3	11/28/2007	19.95	--	--	--	8.84	11.11
W-3	12/13/2007	19.95	--	--	--	5.79	14.16
W-3	1/21/2008	19.95	--	--	--	5.44	14.51
W-3	2/24/2008	19.95	--	--	--	5.77	14.18
W-3	3/24/2008	19.95	--	--	--	5.75	14.20

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
W-3	6/2/2008	19.95	--	--	--	6.20	13.75
W-3	8/25/2008	19.95	--	--	--	5.79	14.16
W-3	2/18/2009	19.95			Not Monitored		
W-3	8/25/2009	19.95			Not Monitored		
W-3	3/22/2010	19.95	--	--	--	4.61	15.34
W-3	8/23/2010	19.95	--	--	--	5.84	14.11
W-3	2/7/2011	19.95	--	--	--	4.69	15.26
W-3	5/27/2011	19.95			Not Monitored		
W-3	8/8/2011	19.95			Dry		
W-3	11/14/2011	19.95			Dry		
W-3	2/20/2012	19.95			Dry		
W-3	8/22/2012	19.95			Dry		
W-3	11/5/2012	19.95	--	--	--	4.98	14.97
W-3	1/28/2013	19.95	--	--	--	4.01	15.94
W-3	5/9/2013	19.95	DRY				
W-3	8/19/2013	19.95	DRY				
W-3	5/5/2014	19.95	--	--	--	3.61	16.34
W-3	8/19/2014	19.95			DRY		
W-3	11/21/2014	19.95	--	--	--	4.59	15.36
W-4	1/27/1993	18.03	--	--	--	4.43	13.60
W-4	3/12/1993	18.03	--	--	--	7.43	10.60
W-4	4/14/1993	18.03	--	--	--	7.32	10.71
W-4	12/15/1993	18.03	--	--	--	6.59	11.44
W-4	11/4/1994	18.03	--	--	--	8.20	9.83
W-4	2/22/1995	18.03	--	--	--	7.17	10.86
W-4	6/16/1995	18.03	--	--	--	7.55	10.48
W-4	10/20/1995	18.03	--	--	--	7.67	10.36
W-4	4/4/1996	18.03	--	--	--	6.12	11.91
W-4	4/16/1996	18.03	--	--	--	5.74	12.29
W-4	5/10/1996	18.03	--	--	--	5.99	12.04
W-4	5/15/1996	18.03	--	--	--	5.67	12.36
W-4	5/22/1996	18.03	--	--	--	7.20	10.83
W-4	6/5/1996	18.03	--	--	--	7.41	10.62
W-4	6/24/1996	18.03	--	--	--	7.49	10.54
W-4	7/15/1996	18.03	--	--	--	7.73	10.30
W-4	1/3/1997	18.03	--	--	--	4.80	13.23
W-4	4/2/1997	18.03	--	--	--	7.37	10.66
W-4	5/1/1997	18.03	--	--	--	7.34	10.69
W-4	4/29/1998	18.03	--	--	--	6.84	11.19
W-4	7/30/1999	18.03	--	--	--	7.30	10.73
W-4	5/23/2001	18.03	--	--	0.03	7.71	10.34
W-4	6/4/2002	18.03	--	--	--	6.84	11.19
W-4	5/28/2003	18.03	--	--	sheen	7.68	10.35
W-4	6/15/2004	18.03	--	--	0.02	7.65	10.40
W-4	6/21/2005	18.03	--	--	--	6.78	11.25
W-4	6/5/2006	18.03	--	--	--	6.23	11.80
W-4	10/23/2006	18.03	--	--	--	7.67	10.36
W-4	3/14/2007	20.91	--	--	--	5.70	15.21
W-4	9/10/2007	20.91	--	--	--	8.20	12.71
W-4	11/28/2007	20.91	--	--	--	7.68	13.23
W-4	12/13/2007	20.91	--	--	--	7.40	13.51
W-4	1/21/2008	20.91	--	--	--	6.30	14.61
W-4	2/24/2008	20.91	--	--	--	6.81	14.10
W-4	3/24/2008	20.91	--	--	--	6.78	14.13
W-4	6/2/2008	20.91	--	--	--	7.69	13.22
W-4	8/25/2008	20.91	--	--	--	8.00	12.91
W-4	2/18/2009	20.91			Not Monitored		
W-4	8/25/2009	20.91			Not Monitored		
W-4	3/22/2010	20.91	--	--	--	5.89	15.02
W-4	8/23/2010	20.91	--	--	--	7.11	13.80
W-4	2/7/2011	20.91	--	--	--	6.01	14.90
W-4	5/27/2011	20.91			Not Monitored		
W-4	8/8/2011	20.91	--	--	--	7.81	13.1
W-4	11/14/2011	20.91	--	--	--	7.89	13.02
W-4	2/20/2012	20.91	--	--	--	7.90	13.01
W-4	8/22/2012	20.91	--	--	--	7.55	13.36
W-4	5/9/2013	20.91	--	--	--	7.86	13.05
W-4	5/5/2014	20.91	--	--	--	4.91	16.00
W-4	8/19/2014	20.91	--	--	--	7.85	13.06
B-1	1/27/1993	18.62	--	--	--	5.55	13.07
B-1	3/12/1993	18.62	--	--	--	6.64	11.98
B-1	4/14/1993	18.62	--	--	--	5.65	12.97
B-1	6/30/1993	18.62	--	--	--	6.81	11.81
B-1	12/15/1993	18.62	--	--	--	7.82	10.80
B-1	11/4/1994	18.62	--	--	--	8.80	9.82
B-1	2/22/1995	18.62	--	--	--	4.54	14.08
B-1	5/15/1995	18.62	--	--	--	6.25	12.37
B-1	6/16/1995	18.62	--	--	--	7.00	11.62
B-1	10/20/1995	18.62	--	--	--	7.75	10.87
B-1	4/4/1996	18.62	--	--	--	5.13	13.49
B-1	4/16/1996	18.62	--	--	--	4.93	13.69
B-1	5/10/1996	18.62	--	--	--	4.73	13.89
B-1	5/15/1996	18.62	--	--	--	4.73	13.89
B-1	5/22/1996	18.62	--	--	--	5.03	13.59
B-1	6/5/1996	18.62	--	--	--	5.88	12.74
B-1	6/24/1996	18.62	--	--	--	6.80	11.82
B-1	7/15/1996	18.62	--	--	--	7.48	11.14
B-1	1/3/1997	18.62	--	--	--	3.55	15.07

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
B-1	3/12/1997	18.62	--	--	--	4.62	14.00
B-1	4/2/1997	18.62	--	--	--	4.93	13.69
B-1	5/1/1997	18.62	--	--	--	5.52	13.10
B-1	8/19/1997	18.62	--	--	--	7.51	11.11
B-1	9/17/1997	18.62	--	--	--	6.80	11.82
B-1	5/1/1998	18.62	--	--	--	6.42	12.20
B-1	5/23/2000	18.62	--	--	--	6.53	12.09
B-1	5/24/2001	18.62	--	--	--	6.65	11.97
B-1	6/5/2002	18.62	--	--	--	6.52	12.10
B-1	5/29/2003	18.62	--	--	--	6.81	11.81
B-1	6/15/2004	18.62	--	--	--	7.43	11.19
B-1	6/20/2005	18.62	--	--	--	6.43	12.19
B-1	6/5/2006	18.62	--	--	--	6.13	12.49
B-1	10/23/2006	18.62	--	--	--	7.86	10.76
B-1	3/14/2007	21.61	--	--	--	5.00	16.61
B-1	9/10/2007	21.61	--	--	--	8.00	13.61
B-1	12/13/2007	21.61	--	--	--	5.97	15.64
B-1	1/21/2008	21.61	--	--	--	5.09	16.52
B-1	2/24/2008	21.61	--	--	--	5.63	15.98
B-1	3/24/2008	21.61	--	--	--	6.20	15.41
B-1	6/2/2008	21.61	--	--	--	7.17	14.44
B-1	8/25/2008	21.61	--	--	--	7.95	13.66
B-1	2/18/2009	21.61			Not Monitored		
B-1	8/25/2009	21.61			Not Monitored		
B-1	3/22/2010	21.61	--	--	--	5.09	16.52
B-1	8/23/2010	21.61	--	--	--	7.50	14.11
B-1	2/7/2011	21.61	--	--	--	5.00	16.61
B-1	5/27/2011	21.61	--	--	--	6.73	14.88
B-1	11/14/2011	21.61	--	--	--	7.58	14.03
B-1	2/20/2012	21.61	--	--	--	4.82	16.79
B-1	8/22/2012	21.61	--	--	--	7.50	14.11
B-1	11/5/2012	21.61	--	--	--	7.21	14.40
B-1	1/28/2013	21.61	--	--	--	4.93	16.68
B-1	5/9/2013	21.61	--	--	--	5.64	15.97
B-1	8/19/2013	21.61	--	--	--	7.96	13.65
B-1	11/25/2013	21.61	--	--	--	6.03	15.58
B-1	2/14/2014	21.61	--	--	--	5.45	16.16
B-1	5/5/2014	21.61	--	--	--	4.23	17.38
B-1	8/19/2014	21.61	--	--	--	7.75	13.86
B-1	11/21/2014	21.61	--	--	--	5.71	15.90
B-2	1/27/1993	18.60	--	--	1.08	6.20	13.21
B-2	3/12/1993	18.60	--	--	0.24	8.15	10.63
B-2	4/14/1993	18.60	--	--	1.25	8.82	10.72
B-2	6/30/1993	18.60	--	--	0.75	8.47	10.69
B-2	12/15/1993	18.60	--	--	0.21	8.62	10.14
B-2	2/8/1994	18.60	--	--	0.50	6.63	12.35
B-2	7/8/1994	18.60	--	--	--	8.95	9.65
B-2	8/12/1994	18.60	--	--	--	9.34	9.26
B-2	9/21/1994	18.60	--	--	0.10	9.70	8.98
B-2	11/4/1994	18.60	--	--	0.12	9.68	9.01
B-2	12/23/1994	18.60	--	--	--	5.18	13.42
B-2	2/3/1995	18.60			Not Monitored		
B-2	2/22/1995	18.60	--	--	0.03	6.03	12.59
B-2	5/15/1995	18.60	--	--	0.04	6.46	12.17
B-2	6/16/1995	18.60	--	--	--	6.92	11.68
B-2	10/20/1995	18.60	--	--		8.10	10.50
B-2	4/4/1996	18.60	--	--	0.83	5.40	13.82
B-2	4/16/1996	18.60	--	--	--	4.80	13.80
B-2	5/10/1996	18.60	--	--	0.43	4.88	14.04
B-2	5/15/1996	18.60	--	--	0.42	4.85	14.07
B-2	5/22/1996	18.60	--	--	0.05	7.14	11.50
B-2	6/5/1996	18.60	--	--	--	5.62	12.98
B-2	6/24/1996	18.60	--	--	--	8.17	10.43
B-2	7/15/1996	18.60	--	--	--	8.65	9.95
B-2	8/23/1996	18.60	--	--	--	9.08	9.52
B-2	9/18/1996	18.60	--	--	--	9.33	9.27
B-2	1/3/1997	18.60	--	--	--	3.91	14.69
B-2	3/12/1997	18.60	--	--	--	7.05	11.55
B-2	4/2/1997	18.60	--	--	--	7.15	11.45
B-2	5/1/1997	18.60	--	--	--	7.49	11.11
B-2	7/8/1997	18.60	--	--	0.02	6.03	12.59
B-2	8/19/1997	18.60	--	--	--	8.43	10.17
B-2	8/26/1997	18.60	--	--	--	8.52	10.08
B-2	9/18/1997	18.60	--	--	--	7.70	10.90
B-2	4/29/1998	18.60	--	--	--	6.47	12.13
B-2	7/30/1999	18.60	--	--	--	7.00	11.60
B-2	5/23/2000	18.60	--	--	--	6.67	11.93
B-2	5/24/2001	18.60	--	--	0.14	8.24	10.47
B-2	6/5/2002	18.60	--	--	0.31	6.56	12.27
B-2	5/29/2003	18.60	--	--	--	7.75	10.85
B-2	6/15/2004	18.60	--	--	--	8.76	9.84
B-2	6/20/2005	18.60	--	--	0.29	6.34	12.48
B-2	6/5/2006	18.60	--	--	0.02	8.87	9.75
B-2	10/23/2006	18.60	--	--	--	8.15	10.45
B-2	3/14/2007	21.82	--	--	--	5.23	16.59
B-2	9/10/2007	21.82	--	--	--	9.31	12.51
B-2	11/28/2007	21.82	3.85	17.97	1.50	5.35	17.60
B-2	12/13/2007	21.82	4.16	17.66	3.37	7.53	16.82
B-2	1/21/2008	21.82	--	--	--	7.08	14.74

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
B-2	2/24/2008	21.82	--	--	--	6.48	15.34
B-2	3/24/2008	21.82	--	--	--	7.19	14.63
B-2	6/2/2008	21.82	--	--	--	8.47	13.35
B-2	8/25/2008	21.82	--	--	--	8.85	12.97
B-2	2/18/2009	21.82			Not Monitored		
B-2	8/25/2009	21.82			Not Monitored		
B-2	3/22/2010	21.82	--	--	--	5.29	16.53
B-2	8/23/2010	21.82	--	--	--	7.37	14.45
B-2	2/7/2011	21.82	--	--	--	6.27	15.55
B-2	5/27/2011	21.82	--	--	--	7.26	14.56
B-2	11/14/2011	21.82	--	--	--	8.71	13.11
B-2	2/20/2012	21.82	--	--	--	7.12	14.70
B-2	8/22/2012	21.82	--	--	--	7.68	14.14
B-2	11/5/2012	21.82	--	--	--	8.78	13.04
B-2	1/28/2013	21.82	--	--	--	5.08	16.74
B-2	5/9/2013	21.82	--	--	--	7.00	14.82
B-2	8/19/2013	21.82	--	--	--	9.02	12.80
B-2	11/25/2013	21.82	--	--	--	7.72	14.10
B-2	2/14/2014	21.82	--	--	--	7.12	14.70
B-2	5/5/2014	21.82	--	--	--	6.77	15.05
B-2	8/19/2014	21.82	--	--	--	9.21	12.61
B-2	11/21/2014	21.82	--	--	--	6.64	15.18
B-3	1/27/1993	18.73	--	--	4.64	10.18	12.03
B-3	3/12/1993	18.73	--	--	3.49	11.64	9.71
B-3	4/14/1993	18.73	--	--	2.64	10.75	9.96
B-3	6/30/1993	18.73	--	--	2.36	11.21	9.29
B-3	12/15/1993	18.73	--	--	0.68	11.05	8.19
B-3	2/8/1994	18.73	--	--	4.07	11.48	10.30
B-3	7/8/1994	18.73	--	--	2.37	11.58	8.93
B-3	8/12/1994	18.73	--	--	1.70	11.55	8.46
B-3	9/21/1994	18.73	--	--	0.82	11.60	7.75
B-3	11/4/1994	18.73	--	--	1.20	11.60	8.03
B-3	12/23/1994	18.73	--	--	6.00	11.95	11.28
B-3	2/3/1995	18.73	--	--	0.05	5.00	13.77
B-3	2/22/1995	18.73	--	--	8.63	13.68	11.52
B-3	3/24/1995	18.73	--	--	6.30	11.60	11.86
B-3	4/27/1995	18.73	--	--	3.70	9.90	11.61
B-3	5/15/1995	18.73	--	--	5.06	11.46	11.07
B-3	6/16/1995	18.73	--	--	4.53	11.48	10.65
B-3	8/25/1995	18.73	--	--	3.44	11.47	9.84
B-3	10/20/1995	18.73	--	--	0.55	9.91	9.23
B-3	4/4/1996	18.73	--	--	6.34	11.12	12.37
B-3	4/16/1996	18.73	--	--	5.28	10.04	12.65
B-3	5/10/1996	18.73	--	--	3.09	7.49	13.56
B-3	5/15/1996	18.73	--	--	2.52	6.93	13.69
B-3	5/22/1996	18.73	--	--	0.44	7.69	11.37
B-3	6/5/1996	18.73	--	--	1.54	9.31	10.58
B-3	6/24/1996	18.73	--	--	3.35	11.78	9.46
B-3	7/15/1996	18.73	--	--	2.77	11.59	9.22
B-3	8/23/1996	18.73	--	--	2.11	11.66	8.65
B-3	9/18/1996	18.73	--	--	1.96	11.63	8.57
B-3	1/3/1997	18.73	--	--	0.45	5.00	14.07
B-3	3/12/1997	18.73	--	--	0.61	8.15	11.04
B-3	4/2/1997	18.73	--	--	--	7.62	11.11
B-3	5/1/1997	18.73	--	--	1.20	7.93	11.70
B-3	7/8/1997	18.73	--	--	5.02	11.00	11.50
B-3	8/19/1997	18.73	--	--	2.52	11.12	9.50
B-3	8/26/1997	18.73	--	--	2.77	11.57	9.24
B-3	9/18/1997	18.73	--	--	0.37	10.28	8.73
B-3	4/30/1998	18.73	--	--	5.56	11.59	11.31
B-3	7/28/1999	18.73	--	--	4.77	11.63	10.68
B-3	5/23/2000	18.73	--	--	3.73	10.63	10.90
B-3	5/24/2001	18.73	--	--	2.00	10.81	9.42
B-3	6/5/2002	18.73	--	--	5.48	11.45	11.39
B-3	5/27/2003	18.73	--	--	3.55	11.42	9.97
B-3	6/15/2004	18.73	--	--	2.35	11.50	8.99
B-3	6/20/2005	18.73	--	--	3.52	9.30	12.07
B-3	6/5/2006	18.73	--	--	0.02	5.82	12.93
B-3	10/23/2006	18.73	--	--	0.91	9.05	10.36
B-3	3/14/2007	21.77	--	--	0.08	5.56	16.27
B-3	9/10/2007	21.77	--	--	0.08	10.21	11.62
B-3A	11/28/2007	21.77	--	--	--	8.60	13.17
B-3A	12/13/2007	21.77	--	--	--	7.96	13.81
B-3A	1/21/2008	21.77	--	--	--	7.09	14.68
B-3A	2/24/2008	21.77	--	--	--	6.69	15.08
B-3A	3/24/2008	21.77	--	--	--	7.38	14.39
B-3A	6/2/2008	21.85	--	--	--	8.62	13.23
B-3A	8/25/2008	21.85	--	--	--	8.93	12.92
B-3A	2/18/2009	21.85			Not Monitored		
B-3A	8/25/2009	21.85			Not Monitored		
B-3A	3/22/2010	21.85	--	--	--	5.31	16.54
B-3A	8/23/2010	21.85	7.31	14.54	0.23	7.54	14.48
B-3A	2/7/2011	21.85	--	--	--	6.56	15.29
B-3A	5/27/2011	21.85	--	--	--	7.75	14.10
B-3A	8/8/2011	21.85	--	--	--	8.61	13.24
B-3A	11/14/2011	21.85	--	--	--	8.87	12.98
B-3A	2/20/2012	21.85	--	--	--	7.69	14.16
B-3A	8/22/2012	21.85	--	--	--	7.79	14.06

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
B-3A	11/5/2012	21.85	--	--	--	9.07	12.78
B-3A	1/28/2013	21.85	--	--	--	5.31	16.54
B-3A	5/9/2013	21.85	--	--	--	7.54	14.31
B-3A	8/19/2013	21.85	9.08	12.77	0.03	9.11	12.76
B-3A	11/25/2013	21.85	--	--	--	8.04	13.81
B-3A	2/14/2014	21.85	--	--	--	7.67	14.18
B-3A	5/5/2014	21.85	--	--	--	7.41	14.44
B-3A	8/19/2014	21.85	--	--	--	9.51	12.34
B-3A	11/21/2014	21.85	--	--	--	6.79	15.06
B-3A	11/14/2016	21.85	---	---	---	5.55	16.30
B-3A	11/18/2016	---	---	---	---	---	---
B-3A	2/16/2017	21.85	---	---	---	4.43	17.42
B-3A	5/25/2017	21.85	---	---	---	5.23	16.62
B-3A	9/26/2017	21.85	---	---	---	8.69	13.16
B-3A	12/14/2017	21.85	---	---	---	4.97	16.88
B-3A	2/26/2018	21.85	---	---	---	5.05	16.80
B-4	1/27/1993	18.09	--	--	0.59	5.16	13.37
B-4	3/12/1993	18.09	--	--	0.03	7.48	10.63
B-4	4/14/1993	18.09	--	--	0.07	7.23	10.91
B-4	6/30/1993	18.09	--	--	--	7.20	10.89
B-4	12/15/1993	18.09	--	--	0.30	8.01	10.31
B-4	2/8/1994	18.09	--	--	0.78	6.29	12.39
B-4	7/8/1994	18.09	--	--	--	8.42	9.67
B-4	8/12/1994	18.09	--	--	--	8.79	9.30
B-4	9/21/1994	18.09	--	--	--	9.07	9.02
B-4	11/4/1994	18.09	--	--	--	8.94	9.15
B-4	12/23/1994	18.09	--	--	0.34	4.69	13.66
B-4	2/3/1995	18.09	--	--	0.90	5.00	13.77
B-4	2/22/1995	18.09	--	--	0.64	5.77	12.80
B-4	3/24/1995	18.09	--	--	0.90	6.09	12.68
B-4	4/27/1995	18.09	--	--	0.50	6.00	12.47
B-4	5/15/1995	18.09	--	--	0.44	6.24	12.18
B-4	6/16/1995	18.09	--	--	0.03	6.42	11.69
B-4	8/25/1995	18.09	--	--	--	7.14	10.95
B-4	10/20/1995	18.09	--	--	--	7.12	10.97
B-4	4/4/1996	18.09	--	--	--	5.03	13.06
B-4	4/16/1996	18.09	--	--	0.49	4.75	13.71
B-4	5/10/1996	18.09	--	--	0.92	4.71	14.07
B-4	5/15/1996	18.09	--	--	0.87	4.61	14.13
B-4	5/22/1996	18.09	--	--	0.68	7.10	11.50
B-4	6/5/1996	18.09	--	--	0.10	7.17	11.00
B-4	6/24/1996	18.09	--	--	--	7.67	10.42
B-4	7/15/1996	18.09	--	--	--	8.13	9.96
B-4	8/23/1996	18.09	--	--	--	8.59	9.50
B-4	9/18/1996	18.09	--	--	--	8.78	9.31
B-4	1/3/1997	18.09	--	--	1.61	4.46	14.84
B-4	3/12/1997	18.09	--	--	0.10	6.45	11.72
B-4	4/2/1997	18.09	--	--	0.01	6.54	11.56
B-4	5/1/1997	18.09	--	--	--	6.87	11.22
B-4	8/19/1997	18.09	--	--	--	7.87	10.22
B-4	8/26/1997	18.09	--	--	--	8.08	10.01
B-4	9/18/1997	18.09	--	--	--	7.40	10.69
B-4	4/30/1998	18.09	--	--	0.02	5.93	12.18
B-4	7/29/1999	18.09	--	--	--	6.42	11.67
B-4	5/23/2000	18.09	--	--	--	6.10	11.99
B-4	5/23/2001	18.09	--	--	--	7.46	10.63
B-4	6/5/2002	18.09	--	--	0.48	6.18	12.27
B-4	5/29/2003	18.09	--	--	sheen	7.10	10.99
B-4	6/15/2004	18.09	--	--	0.05	8.20	9.93
B-4	6/20/2005	18.09	--	--	0.48	5.95	12.50
B-4	6/5/2006	18.09	--	--	0.55	5.67	12.83
B-4	10/23/2006	18.09	--	--	0.04	7.60	10.52
B-4	3/14/2007	21.28	--	--	0.21	4.66	16.78
B-4	9/10/2007	21.28	--	--	--	8.78	12.50
B-4	11/28/2007	21.28	--	--	--	7.62	13.66
B-4	12/13/2007	21.28	--	--	--	6.82	14.46
B-4	1/21/2008	21.28			Not Monitored		
B-4	2/24/2008	21.28	--	--	--	5.88	15.40
B-4	3/24/2008	21.28	--	--	--	6.52	14.76
B-4	6/2/2008	21.28	--	--	--	7.96	13.32
B-4	8/25/2008	21.28	--	--	--	8.35	12.93
B-4	2/18/2009	21.28			Not Monitored		
B-4	8/25/2009	21.28			Not Monitored		
B-4	3/22/2010	21.28	4.64	16.64	0.46	5.10	16.53
B-4	8/23/2010	21.28	6.79	14.49	0.46	7.25	14.38
B-4	2/7/2011	21.28	5.46	15.82	0.19	5.65	15.77
B-4	5/27/2011	21.28	6.72	14.56	0.09	6.81	14.47
B-4	2/20/2012	21.28	--	--	--	6.49	14.79
B-4	8/22/2012	21.28	--	--	--	7.14	14.14
B-4	11/5/2012	21.28	--	--	--	7.91	13.37
B-4	1/28/2013	21.28	--	--	--	4.71	16.57
B-4	5/9/2013	21.28	6.46	14.82	0.13	6.59	14.79
B-4	8/19/2013	21.28	--	--	--	8.51	12.77
B-4	11/25/2013	21.28	--	--	--	7.09	14.19
B-4	2/14/2014	21.28	--	--	--	6.53	14.75
B-4	5/5/2014	21.28	--	--	--	6.78	14.50
B-4	8/19/2014	21.28	--	--	--	8.66	12.62
B-4	11/21/2014	21.28	--	--	--	6.08	15.20
B-4	11/14/2016	21.28	---	---	---	4.52	16.76

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
B-4	11/17/2016	---	---	---	---	---	---
B-4	2/16/2017	21.28	3.28	18.00	0.80	4.08	17.84
B-4	5/24/2017	21.28	4.08	17.20	0.41	4.49	17.12
B-4	9/26/2017	21.28	---	---	---	8.22	13.06
B-4	12/14/2017	21.28	---	---	---	3.90	17.38
B-4	2/26/2018	21.28	---	---	---	4.34	16.94
B-5	1/27/1993	17.97	--	--	--	4.48	13.49
B-5	3/12/1993	17.97	--	--	--	7.98	9.99
B-5	4/14/1993	17.97	--	--	--	7.64	10.33
B-5	6/30/1993	17.97	--	--	--	7.03	10.94
B-5	12/15/1993	17.97	--	--	--	7.35	10.62
B-5	2/8/1994	17.97	--	--	0.03	5.40	12.59
B-5	7/8/1994	17.97	--	--	0.05	8.58	9.43
B-5	8/12/1994	17.97	--	--	0.01	8.78	9.20
B-5	9/21/1994	17.97	--	--	0.06	9.02	9.00
B-5	11/4/1994	17.97	--	--	0.07	8.96	9.06
B-5	12/23/1994	17.97	--	--	0.01	4.23	13.75
B-5	2/3/1995	17.97	--	--	0.04	4.30	13.70
B-5	2/22/1995	17.97	--	--	0.34	5.74	12.49
B-5	3/24/1995	17.97	--	--	0.78	5.93	12.63
B-5	4/27/1995	17.97	--	--	0.90	6.00	12.65
B-5	5/15/1995	17.97	--	--	0.90	6.30	12.35
B-5	6/16/1995	17.97	--	--	0.84	6.73	11.87
B-5	8/25/1995	17.97	--	--	0.07	6.87	11.15
B-5	10/20/1995	17.97	--	--	--	7.39	10.58
B-5	4/4/1996	17.97	--	--	--	4.24	13.73
B-5	4/16/1996	17.97	--	--	--	3.85	14.12
B-5	5/10/1996	17.97	--	--	--	3.63	14.34
B-5	5/15/1996	17.97	--	--	--	3.60	14.37
B-5	5/22/1996	17.97	--	--	--	7.46	10.51
B-5	6/5/1996	17.97	--	--	0.01	7.77	10.21
B-5	6/24/1996	17.97	--	--	--	7.57	10.40
B-5	7/15/1996	17.97	--	--	--	8.35	9.62
B-5	8/23/1996	17.97	--	--	--	8.62	9.35
B-5	9/18/1996	17.97	--	--	--	8.75	9.22
B-5	1/3/1997	17.97	--	--	--	2.95	15.02
B-5	3/12/1997	17.97	--	--	--	7.38	10.59
B-5	4/2/1997	17.97	--	--	--	7.43	10.54
B-5	5/1/1997	17.97	--	--	--	7.68	10.29
B-5	8/19/1997	17.97	--	--	--	7.56	10.41
B-5	8/26/1997	17.97	--	--	--	7.88	10.09
B-5	9/17/1997	17.97	--	--	--	7.53	10.44
B-5	4/29/1998	17.97	--	--	--	5.61	12.36
B-5	7/29/1999	17.97	--	--	--	6.09	11.88
B-5	5/23/2000	17.97	--	--	--	5.95	12.02
B-5	5/23/2001	17.97	--	--	--	7.95	10.02
B-5	6/5/2002	17.97	--	--	--	5.27	12.70
B-5	5/29/2003	17.97	--	--	sheen	6.82	11.15
B-5	6/15/2004	17.97	--	--	--	7.37	10.60
B-5	6/22/2005	17.97	--	--	--	5.29	12.68
B-5	6/5/2006	17.97	--	--	--	4.91	13.06
B-5	10/23/2006	17.97	--	--	--	7.24	10.73
B-5	3/14/2007	20.95	--	--	--	4.16	16.79
B-5	9/10/2007	20.95	--	--	--	8.77	12.18
B-5	11/28/2007	20.95	3.45	17.50	0.38	3.83	17.41
B-5	12/13/2007	20.94	--	--	--	7.56	13.38
B-5	1/21/2008	20.94	--	--	--	6.77	14.17
B-5	2/24/2008	20.94	--	--	--	5.56	15.38
B-5	3/24/2008	20.94	--	--	--	6.24	14.70
B-5	6/2/2008	20.95	--	--	--	8.21	12.74
B-5	8/25/2008	20.95	--	--	--	7.86	13.09
B-5	2/18/2009	20.95			Not Monitored		
B-5	8/25/2009	20.95			Not Monitored		
B-5	3/22/2010	20.95	--	--	--	4.25	16.70
B-5	8/23/2010	20.95	6.38	14.57	0.30	6.68	14.50
B-5	2/7/2011	20.95	--	--	--	5.41	15.54
B-5	5/27/2011	20.95	--	--	--	7.39	13.56
B-5	11/14/2011	20.95	--	--	--	8.15	12.80
B-5	2/20/2012	20.95	--	--	--	7.13	13.82
B-5	8/22/2012	20.95	--	--		6.80	14.15
B-5	11/5/2012	20.95	--	--	--	7.71	13.24
B-5	1/28/2013	20.95	--	--	--	4.03	16.92
B-5	5/9/2013	20.95	--	--	--	6.92	14.03
B-5	8/19/2013	20.95	8.57	12.38	0.01	8.58	12.38
B-5	11/25/2013	20.95	--	--	--	7.69	13.26
B-5	2/14/2014	20.95	--	--	--	6.97	13.98
B-5	5/5/2014	20.95	--	--	--	6.65	14.30
B-5	8/19/2014	20.95	--	--	--	8.67	12.28
B-5	11/21/2014	20.95	--	--	--	5.78	15.17
B-5	2/16/2017	20.95	2.93	18.02	0.03	2.96	18.01
B-6	1/27/1993	17.94	--	--	--	6.15	11.79
B-6	3/12/1993	17.94	--	--	--	7.86	10.08
B-6	4/14/1993	17.94	--	--	--	7.89	10.05
B-6	6/30/1993	17.94	--	--	--	7.26	10.68
B-6	12/15/1993	17.94	--	--	--	7.69	10.25
B-6	2/8/1994	17.94	--	--	--	5.61	12.33
B-6	7/8/1994	17.94	--	--	--	8.52	9.42

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
B-6	8/12/1994	17.94	--	--	0.76	9.38	9.13
B-6	9/21/1994	17.94	--	--	1.37	10.08	8.89
B-6	11/4/1994	17.94	--	--	1.76	10.48	8.78
B-6	12/23/1994	17.94	--	--	--	4.77	13.17
B-6	2/3/1995	17.94	--	--	0.05	4.79	13.19
B-6	2/22/1995	17.94	--	--	0.01	5.07	12.88
B-6	3/24/1995	17.94	--	--	0.77	6.97	11.55
B-6	4/27/1995	17.94	--	--	0.10	3.65	14.37
B-6	5/15/1995	17.94	--	--	0.46	6.10	12.19
B-6	6/16/1995	17.94	--	--	0.69	6.71	11.75
B-6	8/25/1995	17.94	--	--	0.37	7.20	11.02
B-6	10/20/1995	17.94	--	--	0.18	7.54	10.54
B-6	4/4/1996	17.94	--	--	1.46	5.79	13.25
B-6	4/16/1996	17.94	--	--	2.24	5.92	13.70
B-6	5/10/1996	17.94	--	--	2.20	5.64	13.95
B-6	5/15/1996	17.94	--	--	2.33	5.72	13.97
B-6	5/17/1996	17.94			Not Monitored		
B-6	5/22/1996	17.94	--	--	--	7.34	10.60
B-6	6/5/1996	17.94	--	--	0.41	8.00	10.25
B-6	6/24/1996	17.94	--	--	0.25	8.20	9.93
B-6	7/15/1996	17.94	--	--	0.59	8.77	9.61
B-6	8/23/1996	17.94	--	--	0.92	9.34	9.29
B-6	9/18/1996	17.94	--	--	0.91	9.51	9.11
B-6	1/3/1997	17.94	--	--	--	3.71	14.23
B-6	3/12/1997	17.94	--	--	--	7.01	10.93
B-6	4/2/1997	17.94	--	--	--	7.56	10.38
B-6	5/1/1997	17.94	--	--	--	7.65	10.29
B-6	8/19/1997	17.94	--	--	--	7.81	10.13
B-6	9/17/1997	17.94	--	--	--	7.00	10.94
B-6	4/29/1998	17.94	--	--	--	5.89	12.05
B-6	7/29/1999	17.94	--	--	--	6.15	11.79
B-6	5/24/2001	17.94	--	--	--	8.05	9.89
B-6	6/5/2002	17.94	--	--	0.10	5.65	12.37
B-6	5/29/2003	17.94	--	--	--	7.08	10.86
B-6	6/15/2004	17.94	--	--	--	8.42	9.52
B-6	6/22/2005	17.94	--	--	--	5.44	12.50
B-6	6/5/2006	17.94	--	--	--	5.10	12.84
B-6	10/23/2006	17.94	--	--	--	7.34	10.60
B-6	3/14/2007	21.00	--	--	--	4.46	16.54
B-6	9/10/2007	21.00	--	--	--	8.76	12.24
B-6	11/28/2007	21.00	--	--	--	9.50	11.50
B-6	12/13/2007	21.00	--	--	--	1.79	19.21
B-6	1/21/2008	21.00	--	--	--	11.60	9.40
B-6	2/24/2008	21.00	--	--	--	5.78	15.22
B-6	3/24/2008	21.00	--	--	--	6.47	14.53
B-6	6/2/2008	21.00	--	--	--	7.99	13.01
B-6	8/25/2008	21.00	--	--	--	8.11	12.89
B-6	2/18/2009	21.00			Not Monitored		
B-6	8/25/2009	21.00			Not Monitored		
B-6	3/22/2010	21.00	--	--	--	4.31	16.69
B-6	8/23/2010	21.00	--	--	--	6.40	14.60
B-6	2/7/2011	21.00	--	--	--	5.60	15.40
B-6	5/27/2011	21.00				7.01	13.99
B-6	8/8/2011	21.00	--	--	--	6.24	14.76
B-6	11/14/2011	21.00	--	--	--	8.19	12.81
B-6	2/20/2012	21.00	--	--	--	7.34	13.66
B-6	8/22/2012	21.00	--	--	--	6.92	14.08
B-6	11/5/2012	21.00	--	--	--	7.90	13.10
B-6	1/28/2013	21.00	--	--	--	4.42	16.58
B-6	5/9/2013	21.00	--	--	--	7.26	13.74
B-6	8/19/2013	21.00	--	--	--	8.63	12.37
B-6	11/25/2013	21.00	--	--	--	7.69	13.31
B-6	2/14/2014	21.00	--	--	--	7.29	13.71
B-6	5/5/2014	21.00	--	--	--	7.16	13.84
B-6	8/19/2014	21.00	--	--	--	8.69	12.31
B-6	11/21/2014	21.00	--	--	--	5.96	15.04
B-6	11/14/2016	21.00	---	---	---	4.11	16.89
B-6	11/17/2016	---	---	---	---	---	---
B-6	2/16/2017	21.00	---	---	---	3.37	17.63
B-6	5/25/2017	21.00	---	---	---	4.38	16.62
B-6	9/26/2017	21.00	7.8	13.20	0.05	7.85	13.19
B-6	12/14/2017	21.00	---	---	---	4.26	16.74
B-6	2/26/2018	21.00	---	---	---	4.30	16.70
D-1	1/27/1993	18.03	--	--	--	5.53	12.50
D-1	3/12/1993	18.03	--	--	--	6.65	11.38
D-1	4/14/1993	18.03	--	--	--	5.84	12.19
D-1	12/15/1993	18.03	--	--	--	6.59	11.44
D-1	11/4/1994	18.03	--	--	--	7.55	10.48
D-1	2/22/1995	18.03	--	--	--	5.90	12.13
D-1	6/16/1995	18.03	--	--	--	6.86	11.17
D-1	10/20/1995	18.03	--	--	--	6.60	11.43
D-1	4/4/1996	18.03	--	--	--	6.44	11.59
D-1	4/16/1996	18.03	--	--	--	6.36	11.67
D-1	5/1/1997	18.03	--	--	--	6.06	11.97
D-1R	11/14/2011	20.13	--	--	--	8.66	11.47
D-1R	2/20/2012	20.13	--	--	--	7.31	12.82
D-1R	8/22/2012	20.13	--	--	--	9.49	10.64

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
D-1R	11/5/2012	20.13	--	--	--	7.77	12.36
D-1R	1/28/2013	20.13	--	--	--	7.78	12.35
D-1R	5/9/2013	20.13	--	--	--	8.33	11.80
D-1R	8/19/2013	20.13	--	--	--	10.28	9.85
D-1R	11/25/2013	20.13	--	--	--	7.91	12.22
D-1R	2/14/2014	20.13	--	--	--	7.25	12.88
D-1R	5/5/2014	20.13	--	--	--	6.46	13.67
D-1R	8/19/2014	20.13	--	--	--	8.99	11.14
D-1R	11/21/2014	20.13	--	--	--	7.61	12.52
D-1R	11/14/2016	20.13	---	---	---	7.22	12.91
D-1R	11/16/2016	---	---	---	---	---	---
D-1R	2/16/2017	20.13	---	---	---	6.68	13.45
D-1R	5/24/2017	20.13	---	---	---	7.61	12.52
D-1R	9/26/2017	20.13	---	---	---	9.56	10.57
D-1R	9/28/2017	---	---	---	---	---	---
D-1R	12/14/2017	20.13	---	---	---	7.31	12.82
D-1R	2/26/2018	20.13	---	---	---	7.45	12.68
D-4	11/4/1994	17.82	--	--	--	6.44	11.38
D-4	2/22/1995	17.82	--	--	--	3.95	13.87
D-4	6/16/1995	17.82	--	--	--	6.37	11.45
D-4	10/20/1995	17.82	--	--	--	6.10	11.72
D-4	4/4/1996	17.82	--	--	--	5.17	12.65
D-4	4/16/1996	17.82	--	--	--	5.40	12.42
D-4	4/30/1998	17.82	--	--	--	5.68	12.14
D-4	6/5/2002	17.82			Dry		
D-4	5/27/2003	17.82			Dry		
D-4	6/15/2004	17.82			Dry		
D-4	6/21/2005	17.82	--	--	--	5.90	11.92
D-4	6/5/2006	17.82	--	--	--	4.77	13.05
D-4	10/23/2006	17.82	--	--	--	5.82	DRY
D-4	3/14/2007	21.09	--	--	--	5.30	15.79
D-4	9/10/2007	21.09	--	--	--	5.57	15.52
D-4	11/28/2007	21.09	--	--	--	4.10	16.99
D-4	12/13/2007	21.09	--	--	--	5.00	16.09
D-4	1/21/2008	21.09	--	--	--	6.00	15.09
D-4	2/24/2008	21.09	--	--	--	4.15	16.94
D-4	3/24/2008	21.09	--	--	--	3.47	17.62
D-4	6/2/2008	21.09			Dry		
D-4	8/25/2008	21.09	--	--	--	2.89	18.20
D-4	2/18/2009	21.09			Not Monitored		
D-4	8/25/2009	21.09			Not Monitored		
D-4	3/22/2010	21.09	--	--	--	5.41	15.68
D-4	8/23/2010	21.09	--	--	--	5.75	15.34
D-4	2/7/2011	21.09	--	--	--	2.93	18.16
D-4	5/27/2011	21.09	--	--	--	4.87	16.22
D-4	8/8/2011	21.09			Dry		
D-4	10/13/2011			Decomissioned Well and Replaced With D-4R			
D-4R	11/14/2011	21.27	--	--	--	9.06	12.21
D-4R	2/20/2012	21.27	--	--	--	7.85	13.42
D-4R	8/22/2012	21.27	--	--	--	10.22	11.05
D-4R	11/5/2012	21.27	--	--	--	8.37	12.90
D-4R	1/28/2013	21.27	--	--	--	8.11	13.16
D-4R	5/9/2013	21.27	--	--	--	8.71	12.56
D-4R	8/19/2013	21.27	--	--	--	10.97	10.30
D-4R	11/25/2013	21.27	--	--	--	8.38	12.89
D-4R	2/14/2014	21.27	--	--	--	7.71	13.56
D-4R	5/5/2014	21.27	--	--	--	7.11	14.16
D-4R	8/19/2014	21.27	--	--	--	9.56	11.71
D-4R	11/21/2014	21.27	--	--	--	7.90	13.37
D-4R	11/14/2016	21.27	---	---	---	6.69	14.58
D-4R	11/16/2016	---	---	---	---	---	---
D-4R	2/16/2017	21.27	---	---	---	5.23	16.04
D-4R	5/24/2017	21.27	---	---	---	7.10	14.17
D-4R	9/26/2017	21.27	---	---	---	10.23	11.04
D-4R	9/27/2017	---	---	---	---	---	---
D-4R	12/13/2017	21.27	---	---	---	6.36	14.91
D-4R	2/26/2018	21.27	---	---	---	6.99	14.28
D-5	1/27/1993	18.12	--	--	--	5.51	12.61
D-5	4/14/1993	18.12	--	--	--	5.58	12.54
D-5	12/15/1993	18.12	--	--	--	6.55	11.57
D-5	11/4/1994	18.12	--	--	--	6.56	11.56
D-5	2/22/1995	18.12	--	--	--	4.10	14.02
D-5	6/16/1995	18.12	--	--	--	6.77	11.35
D-5	10/20/1995	18.12	--	--	--	6.55	11.57
D-5	4/4/1996	18.12	--	--	--	4.51	13.61
D-5	4/16/1996	18.12	--	--	--	4.94	13.18
D-5	5/1/1997	18.12	--	--	--	6.50	11.62
D-5	4/30/1998	18.12	--	--	--	6.61	11.51
D-5	5/27/2003	18.12			Dry		
D-5	6/15/2004	18.12			Dry		
D-5	6/21/2005	18.12			Dry		
D-5	6/5/2006	18.12	--	--	--	6.51	11.61
D-5	10/23/2006	18.12			Dry		
D-5	3/14/2007	21.33			Dry		
D-5	9/10/2007	21.33			Dry		

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
D-5	11/28/2007	21.33	--	--	--	6.74	14.59
D-5	12/13/2007	21.33	--	--	--	2.30	19.03
D-5	1/21/2008	21.33			Not Monitored		
D-5	2/24/2008	21.33	--	--	--	6.23	15.10
D-5	3/24/2008	21.33			Dry		
D-5	6/2/2008	21.33			Dry		
D-5	8/25/2008	21.33	--	--	--	6.91	14.42
D-5	2/18/2009	21.33			Not Monitored		
D-5	8/25/2009	21.33			Not Monitored		
D-5	3/22/2010	21.33			Dry		
D-5	8/23/2010	21.33	--	--	--	6.82	14.51
D-5	2/7/2011	21.33	--	--	--	6.90	14.43
D-5	5/27/2011	21.33			Not Monitored		
D-5	8/8/2011	21.33			Dry		
D-5	10/6/2011			Decomissioned Well and Replaced With D-5R			
D-5R	11/14/2011	21.45	--	--	--	9.39	12.06
D-5R	2/20/2012	21.45	--	--	--	8.33	13.12
D-5R	8/22/2012	21.45	--	--	--	10.44	11.01
D-5R	11/5/2012	21.45	--	--	--	8.79	12.66
D-5R	1/28/2013	21.45	--	--	--	8.83	12.62
D-5R	5/9/2013	21.45	--	--	--	9.16	12.29
D-5R	8/19/2013	21.45	--	--	--	11.11	10.34
D-5R	11/25/2013	21.45	--	--	--	8.80	12.65
D-5R	2/14/2014	21.45	--	--	--	8.21	13.24
D-5R	5/5/2014	21.45	--	--	--	7.65	13.80
D-5R	8/19/2014	21.45	--	--	--	9.72	11.73
D-5R	11/21/2014	21.45	--	--	--	8.32	13.13
D-5R	11/14/2016	21.45	---	---	---	8.15	13.30
D-5R	11/17/2016	---	---	---	---	---	---
D-5R	11/17/2016	---	---	---	---	---	---
D-5R	2/16/2017	21.45	---	---	---	7.30	14.15
D-5R	5/24/2017	21.45	---	---	---	8.34	13.11
D-5R	9/26/2017	21.45	---	---	---	10.24	11.21
D-5R	9/27/2017	---	---	---	---	---	---
D-5R	12/13/2017	21.45	---	---	---	8.10	13.35
D-5R	2/26/2018	21.45	---	---	---	8.21	13.24
D-6	1/27/1993	17.74	--	--	1.00	5.54	12.95
D-6	3/12/1993	17.74	--	--	--	6.79	10.95
D-6	4/14/1993	17.74	--	--	--	5.68	12.06
D-6	6/30/1993	17.74	--	--	--	6.58	11.16
D-6	12/15/1993	17.74	--	--	--	7.14	10.60
D-6	2/8/1994	17.74	--	--	--	5.27	12.47
D-6	7/8/1994	17.74	--	--	--	7.43	10.31
D-6	12/23/1994	17.74	--	--	--	5.14	12.60
D-6	2/3/1995	17.74	--	--	--	4.34	13.40
D-6	2/22/1995	17.74	--	--	--	4.79	12.95
D-6	3/24/1995	17.74	--	--	--	4.55	13.19
D-6	4/27/1995	17.74	--	--	--	6.64	11.10
D-6	5/15/1995	17.74	--	--	--	5.19	12.55
D-6	6/16/1995	17.74	--	--	--	5.67	12.07
D-6	8/25/1995	17.74	--	--	--	6.42	11.32
D-6	10/20/1995	17.74	--	--	--	4.81	12.93
D-6	4/4/1996	17.74	--	--	--	1.58	16.16
D-6	4/16/1996	17.74	--	--	--	1.21	16.53
D-6	5/10/1996	17.74	--	--	--	3.50	14.24
D-6	5/15/1996	17.74	--	--	--	3.28	14.46
D-6	5/22/1996	17.74	--	--	--	5.59	12.15
D-6	6/5/1996	17.74	--	--	--	6.09	11.65
D-6	6/24/1996	17.74	--	--	--	6.55	11.19
D-6	7/15/1996	17.74	--	--	--	7.10	10.64
D-6	8/23/1996	17.74	--	--	--	7.73	10.01
D-6	9/18/1996	17.74	--	--	--	7.09	10.65
D-6	1/3/1997	17.74	--	--	--	2.77	14.97
D-6	3/12/1997	17.74	--	--	--	1.61	16.13
D-6	4/2/1997	17.74	--	--	--	5.97	11.77
D-6	5/1/1997	17.74	--	--	--	5.89	11.85
D-6	8/19/1997	17.74	--	--	--	7.28	10.46
D-6	9/17/1997	17.74	--	--	--	7.38	10.36
D-6	4/30/1998	17.74	--	--	--	5.49	12.25
D-6	5/23/2000	17.74	--	--	--	5.82	11.92
D-6	5/23/2001	17.74	--	--	--	6.92	10.82
D-6	6/5/2002	17.74	--	--	--	4.67	13.07
D-6	5/27/2003	17.74	--	--	--	6.72	11.02
D-6	6/15/2004	17.74	--	--	--	8.52	9.22
D-6	6/22/2005	17.74	--	--	--	4.67	13.07
D-6	6/5/2006	17.74	--	--	--	2.62	15.12
D-6	10/23/2006	17.74	--	--	--	6.95	10.79
D-6	3/14/2007	20.61	--	--	--	4.62	15.99
D-6	9/10/2007	20.61	--	--	--	7.92	12.69
D-6	11/28/2007	20.61	--	--	--	7.80	12.81
D-6	12/13/2007	20.61	--	--	--	6.26	14.35
D-6	1/21/2008	20.61	--	--	--	6.03	14.58
D-6	2/24/2008	20.61	--	--	--	5.93	14.68
D-6	3/24/2008	20.61	--	--	--	5.76	14.85
D-6	6/2/2008	20.61	--	--	--	6.75	13.86
D-6	8/25/2008	20.61	--	--	--	7.51	13.10
D-6	2/18/2009	20.61			Not Monitored		

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
D-6	8/25/2009	20.61			Not Monitored		
D-6	3/22/2010	20.61	--	--	--	3.85	16.76
D-6	8/23/2010	20.61	--	--	--	5.99	14.62
D-6	2/7/2011	20.61	--	--	--	3.50	17.11
D-6	5/27/2011	20.61	--	--	--	5.40	15.21
D-6	8/8/2011	20.61	--	--	--	7.05	13.56
D-6	11/14/2011	20.61	--	--	--	5.95	14.66
D-6	2/20/2012	20.61	--	--	--	5.60	15.01
D-6	8/22/2012	20.61	--	--	--	6.52	14.09
D-6	11/5/2012	20.61	--	--	--	7.26	13.35
D-6	5/9/2013	20.61	--	--	--	5.48	15.13
D-6	8/19/2013	20.61	--	--	--	7.64	12.97
D-6	11/25/2013	20.61	--	--	--	6.26	14.35
D-6	2/14/2014	20.61	--	--	--	6.22	14.39
D-6	5/5/2014	20.61	--	--	--	4.36	16.25
D-6	8/19/2014	20.61	--	--	--	7.69	12.92
D-6	11/21/2014	20.61	--	--	--	6.79	13.82
D-7	1/27/1993	17.69	--	--	--	5.07	12.62
D-7	3/12/1993	17.69	--	--	--	6.38	11.31
D-7	4/14/1993	17.69	--	--	--	6.38	11.31
D-7	12/15/1993	17.69	--	--	--	7.37	10.32
D-7	7/8/1994	17.69	--	--	--	7.14	10.55
D-7	8/12/1994	17.69	--	--	--	7.14	10.55
D-7	11/4/1994	17.69	--	--	--	7.94	9.75
D-7	12/23/1994	17.69	--	--	--	7.14	10.55
D-7	2/3/1995	17.69	--	--	--	4.59	13.10
D-7	2/22/1995	17.69	--	--	--	5.31	12.38
D-7	3/24/1995	17.69	--	--	--	5.35	12.34
D-7	4/27/1995	17.69	--	--	--	5.18	12.51
D-7	5/15/1995	17.69	--	--	--	5.50	12.19
D-7	6/16/1995	17.69	--	--	--	5.95	11.74
D-7	8/25/1995	17.69	--	--	--	6.59	11.10
D-7	10/20/1995	17.69	--	--	--	6.00	11.69
D-7	3/24/1996	17.69	--	--	--	5.35	12.34
D-7	4/4/1996	17.69	--	--	--	4.30	13.39
D-7	4/16/1996	17.69	--	--	--	4.01	13.68
D-7	4/2/1997	17.69	--	--	--	6.04	11.65
D-7	5/1/1997	17.69	--	--	--	6.30	11.39
D-7	4/30/1998	17.69	--	--	--	5.85	11.84
D-7	5/23/2000	17.69	--	--	--	6.11	11.58
D-7	5/23/2001	17.69	--	--	--	6.85	10.84
D-7	6/4/2002	17.69	--	--	--	5.51	12.18
D-7	5/27/2003	17.69	--	--	--	6.36	11.33
D-7	6/15/2004	17.69	--	--	--	7.24	10.45
D-7	6/22/2005	17.69	--	--	--	5.11	12.58
D-7	6/5/2006	17.69	--	--	--	4.74	12.95
D-7	10/23/2006	17.69	--	--	--	7.04	10.65
D-7	3/14/2007	20.49	--	--	--	3.83	16.66
D-7	9/10/2007	20.49	--	--	--	7.67	12.82
D-7	11/28/2007	20.49	--	--	--	6.92	13.57
D-7	12/13/2007	20.49	--	--	--	2.36	18.13
D-7	1/21/2008	20.49	--	--	--	9.97	10.52
D-7	2/24/2008	20.49	--	--	--	6.03	14.46
D-7	3/24/2008	20.49			Not Monitored		
D-7	6/2/2008	20.49	--	--	--	6.25	14.24
D-7	8/25/2008	20.49	--	--	--	7.42	13.07
D-7	2/18/2009	20.49			Not Monitored		
D-7	8/25/2009	20.49			Not Monitored		
D-7	3/22/2010	20.49	--	--	--	4.41	16.08
D-7	8/23/2010	20.49	--	--	--	5.96	14.53
D-7	2/7/2011	20.49	--	--	--	5.36	15.13
D-7	5/27/2011	20.49	--	--	--	5.92	14.57
D-7	8/8/2011	20.49	--	--	--	6.85	13.64
D-7	11/14/2011	20.49	--	--	--	4.81	15.68
D-7	2/20/2012	20.49	--	--	--	5.04	15.45
D-7	8/22/2012	20.49	--	--	--	6.73	13.76
D-7	11/5/2012	20.49	--	--	--	7.06	13.43
D-7	1/28/2013	20.49	--	--	--	3.53	16.96
D-7	5/9/2013	20.49	--	--	--	5.85	14.64
D-7	8/19/2013	20.49	--	--	--	7.41	13.08
D-7	11/25/2013	20.49	--	--	--	6.18	14.31
D-7	2/14/2014	20.49	--	--	--	5.29	15.20
D-7	5/5/2014	20.49	--	--	--	4.56	15.93
D-7	8/19/2014	20.49	--	--	--	7.42	13.07
D-7	11/21/2014	20.49	--	--	--	5.30	15.19
DPE-1	11/15/2016	---	---	---	---	8.90	---
DPE-1	2/16/2017	---	---	---	---	7.73	---
DPE-1	5/24/2017	15.46	---	---	---	8.97	6.49
DPE-1	7/11/2017	---	---	---	---	11.01	---
DPE-1	9/26/2017	25.66	12.4	13.26	0.02	12.42	13.26
DPE-1	12/11/2017	25.66	---	---	---	6.88	18.78
DPE-1	2/26/2018	25.66	---	---	---	8.86	16.80
DPE-2	11/15/2016	---	---	---	---	8.81	---
DPE-2	2/16/2017	---	---	---	---	8.14	---
DPE-2	5/24/2017	16.28	---	---	---	9.38	6.90
DPE-2	7/11/2017	---	---	---	---	11.39	---

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
DPE-2	9/26/2017	25.15	---	---	---	12.37	12.78
DPE-2	12/11/2017	25.15	---	---	---	6.21	18.94
DPE-2	2/26/2018	25.15	---	---	---	8.79	16.36
DPE-3	11/15/2016	---	---	---	---	8.44	---
DPE-3	2/16/2017	---	7.95	---	6.26	14.21	---
DPE-3	5/15/2017	---	9.24	---	6.09	15.33	---
DPE-3	5/24/2017	28.42	8.84	19.58	0.34	9.18	19.51
DPE-3	7/11/2017	---	11.42	---	0.01	11.43	---
DPE-3	9/26/2017	25.16	13.25	11.91	0.22	13.47	11.87
DPE-3	12/11/2017	25.16	---	---	---	9.28	15.88
DPE-3	2/26/2018	25.16	11.29	13.87	0.05	11.34	13.86
DPE-4	11/15/2016	---	---	---	---	9.94	---
DPE-4	2/16/2017	---	---	---	---	8.91	---
DPE-4	5/24/2017	17.82	---	---	---	9.48	8.34
DPE-4	7/11/2017	---	---	---	---	11.22	---
DPE-4	9/26/2017	25.25	---	---	---	12.19	13.06
DPE-4	12/11/2017	25.25	---	---	---	7.57	17.68
DPE-4	2/26/2018	25.25	---	---	---	9.67	15.58
DPE-5	11/15/2016	---	---	---	---	7.01	---
DPE-5	2/16/2017	---	---	---	---	8.64	---
DPE-5	5/24/2017	17.28	---	---	---	9.83	7.45
DPE-5	7/11/2017	---	---	---	---	12.66	---
DPE-5	9/26/2017	25.91	---	---	---	13.77	12.14
DPE-5	12/11/2017	25.91	---	---	---	7.90	18.01
DPE-5	2/26/2018	25.91	---	---	---	10.04	15.87
DPE-6	7/11/2017	---	---	---	---	13.98	---
DPE-7	7/11/2017	---	13.97	---	0.39	14.36	---
DPE-8	7/11/2017	---	---	---	---	18.96	---
DPE-9	7/11/2017	---	---	---	---	18.39	---
DPE-10	7/11/2017	---	---	---	---	19.01	---
DPE-11	11/15/2016	---	11.25	---	0.06	11.31	---
DPE-11	2/16/2017	---	11.21	---	0.35	11.56	---
DPE-11	5/24/2017	23.12	---	---	---	13.11	10.01
DPE-11	7/11/2017	---	---	---	---	12.84	---
DPE-11	9/26/2017	25.08	---	---	---	---	---
DPE-11	12/11/2017	25.08	---	---	---	10.27	14.81
DPE-11	2/26/2018	25.08	---	---	---	11.91	13.17
DPE-12	11/15/2016	---	---	---	---	8.91	---
DPE-12	2/16/2017	---	7.71	---	0.02	7.73	---
DPE-12	5/24/2017	15.46	11.38	4.08	0.33	11.71	4.01
DPE-12	7/11/2017	---	---	---	---	10.47	---
DPE-12	9/26/2017	24.72	---	---	---	12.85	11.87
DPE-12	12/11/2017	24.72	---	---	---	6.15	18.57
DPE-12	2/26/2018	24.72	---	---	---	8.88	15.84
DPE-13	11/15/2016	---	---	---	---	11.24	---
DPE-13	2/16/2017	---	---	---	---	11.28	---
DPE-13	5/24/2017	22.56	---	---	---	12.07	10.49
DPE-13	7/11/2017	---	---	---	---	13.51	---
DPE-13	9/26/2017	24.92	---	---	---	14.28	10.64
DPE-13	12/11/2017	24.92	---	---	---	9.69	15.23
DPE-13	2/26/2018	24.92	---	---	---	11.65	13.27
DPE-14	11/15/2016	---	---	---	---	2.50	---
DPE-14	2/16/2017	---	---	---	---	2.56	---
DPE-14	5/24/2017	5.12	---	---	---	4.97	0.15
DPE-14	7/11/2017	---	---	---	---	7.60	---
DPE-14	9/26/2017	20.67	9.45	11.22	0.03	9.48	11.21
DPE-14	12/11/2017	20.67	---	---	---	4.77	15.90
DPE-14	2/26/2018	20.67	---	---	---	4.45	16.22
DPE-15	11/15/2016	---	---	---	---	6.81	---
DPE-15	2/16/2017	---	7.04	---	0.04	7.08	---
DPE-15	5/24/2017	14.16	7.9	6.26	0.21	8.11	6.22
DPE-15	9/26/2017	20.62	9.92	10.7	0.24	10.16	10.65
DPE-15	12/11/2017	20.62	7.55	13.07	0.02	7.57	13.07
DPE-15	2/26/2018	20.62	7.17	13.45	0.07	7.24	13.38
DPE-16	11/15/2016	---	---	---	---	6.84	---
DPE-16	2/16/2017	---	---	---	---	5.77	---
DPE-16	5/24/2017	11.54	---	---	---	6.81	4.73
DPE-16	7/11/2017	---	---	---	---	8.26	---
DPE-16	9/26/2017	20.44	---	---	---	8.57	11.87
DPE-16	12/11/2017	20.44	---	---	---	4.87	15.57
DPE-16	2/26/2018	20.44	---	---	---	4.77	15.67
DPE-17	11/15/2016	---	---	---	---	6.71	---
DPE-17	2/16/2017	---	---	---	---	6.93	---
DPE-17	5/24/2017	13.86	---	---	---	7.86	6.00
DPE-17	7/11/2017	---	---	---	---	9.26	---
DPE-17	9/26/2017	20.43	---	---	---	9.79	10.64

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
DPE-17	12/11/2017	20.43	---	---	---	7.62	12.81
DPE-17	2/26/2018	20.43	---	---	---	7.70	12.73
DPE-18	11/15/2016	---	---	---	---	6.30	---
DPE-18	2/16/2017	---	6.06	---	0.01	6.07	---
DPE-18	5/24/2017	12.14	---	---	---	7.53	4.61
DPE-18	9/26/2017	20.18	---	---	---	9.42	10.76
DPE-18	12/11/2017	20.18	---	---	---	6.69	13.49
DPE-18	2/26/2018	20.18	---	---	---	7.26	12.92
DPE-19	11/15/2016	---	---	---	---	7.40	---
DPE-19	2/16/2017	---	---	---	---	6.74	---
DPE-19	5/24/2017	13.48	---	---	---	8.17	5.31
DPE-19	7/11/2017	---	---	---	---	9.62	---
DPE-19	9/26/2017	21.98	---	---	---	11.11	10.87
DPE-19	12/11/2017	21.98	---	---	---	7.60	14.38
DPE-19	2/26/2018	21.98	---	---	---	7.73	14.25
DPE-20	11/15/2016	---	---	---	---	7.38	---
DPE-20	2/16/2017	---	---	---	---	7.12	---
DPE-20	5/24/2017	14.24	---	---	---	8.02	6.22
DPE-20	7/11/2017	---	---	---	---	9.40	---
DPE-20	9/26/2017	20.49	---	---	---	10.02	10.47
DPE-20	12/11/2017	20.49	---	---	---	7.68	12.81
DPE-20	2/26/2018	20.49	---	---	---	7.88	12.61
DPE-21	7/11/2017	---	---	---	---	8.37	---
DPE-22	7/11/2017	---	---	---	---	9.39	---
DPE-23	7/11/2017	---	9.93	---	0.01	9.94	---
DPE-24	7/11/2017	---	---	---	---	10.25	---
DPE-25	7/8/2016	---	8.71	---	3.31	12.02	---
DPE-25	5/30/2017	---	7.45	---	4.51	11.96	---
DPE-25	7/11/2017	---	7.9	---	3.49	11.39	---
DPE-25	12/11/2017	---	7.42	---	0.29	7.71	---
DPE-26	7/8/2016	---	8.7	---	2.49	11.19	---
DPE-26	5/30/2017	---	7.42	---	4.44	11.86	---
DPE-26	7/11/2017	---	8.1	---	4.66	12.76	---
DPE-26	12/11/2017	---	5.08	---	8.03	13.11	---
DPE-27	7/8/2016	---	8.89	---	1.72	10.61	---
DPE-27	7/11/2017	---	8.14	---	2.68	10.82	---
DPE-27	12/11/2017	---	5.28	---	5.02	10.30	---
DPE-28	7/8/2016	---	8.79	---	1.41	10.20	---
DPE-28	7/11/2017	---	7.5	---	2.25	9.75	---
DPE-28	12/11/2017	---	4.94	---	0.31	5.25	---
DPE-29	11/15/2016	---	---	---	---	6.34	---
DPE-29	2/16/2017	---	---	---	---	5.80	---
DPE-29	5/24/2017	11.60	---	---	---	7.42	4.18
DPE-29	7/11/2017	---	---	---	---	7.73	---
DPE-29	9/26/2017	20.93	---	---	---	7.33	13.60
DPE-29	12/11/2017	20.93	---	---	---	5.82	15.11
DPE-29	2/26/2018	20.93	---	---	---	8.31	12.62
DPE-30	11/15/2016	---	---	---	---	8.51	---
DPE-30	2/16/2017	---	---	---	---	8.14	---
DPE-30	5/24/2017	16.28	---	---	---	9.22	7.06
DPE-30	7/11/2017	---	---	---	---	10.11	---
DPE-30	9/26/2017	22.67	---	---	---	11.53	11.14
DPE-30	12/11/2017	22.67	---	---	---	7.32	15.35
DPE-30	2/26/2018	22.67	---	---	---	9.34	13.33
DPE-31	7/8/2016	---	9.99	---	0.11	10.10	---
DPE-31	7/11/2017	---	9.08	---	0.26	9.34	---
DPE-31	12/11/2017	---	---	---	---	5.82	---
DPE-32	7/8/2016	---	9.32	---	2.29	11.61	---
DPE-32	5/30/2017	---	7.32	---	4.86	12.18	---
DPE-32	7/11/2017	---	8.21	---	4.7	12.91	---
DPE-32	12/11/2017	---	5.18	---	7.77	12.95	---
DPE-33	11/15/2016	---	6.96	---	0.63	7.59	---
DPE-33	2/16/2017	---	6.64	---	0.45	7.09	---
DPE-33	5/24/2017	14.18	7.85	6.33	0.45	8.30	6.24
DPE-33	7/11/2017	---	9.25	---	0.43	9.68	---
DPE-33	9/26/2017	21.05	10.09	10.96	0.33	10.42	10.89
DPE-33	12/11/2017	21.05	5.55	15.5	0.05	5.60	15.49
DPE-33	2/26/2018	21.05	7.86	13.19	0.03	7.89	13.18
DPE-34	11/15/2016	---	5.5	---	3.07	8.57	---
DPE-34	2/16/2017	---	4.43	---	4.5	8.93	---
DPE-34	5/16/2017	---	5.16	---	4.42	9.58	---
DPE-34	5/24/2017	17.86	5.69	12.17	4.15	9.84	8.02
DPE-34	7/11/2017	---	6.21	---	3.47	9.68	---
DPE-34	9/26/2017	20.62	8.72	11.9	0.54	9.26	11.79

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
DPE-34	12/11/2017	20.62	4.02	16.6	0.33	4.35	16.53
DPE-34	2/26/2018	20.62	6.14	14.48	0.28	6.42	14.42
DPE-35	7/11/2016	---	8.82	---	2.48	11.30	---
DPE-35	5/30/2017	---	7.38	---	5.42	12.80	---
DPE-35	7/11/2017	---	7.93	---	5.56	13.49	---
DPE-35	12/11/2017	---	5.03	---	8.49	13.52	---
DPE-36	7/11/2016	---	8.94	---	0.77	9.71	---
DPE-36	7/11/2017	---	7.69	---	1.69	9.38	---
DPE-36	12/11/2017	---	6.15	---	0.06	6.21	---
DPE-37	11/15/2016	---	---	---	---	6.62	---
DPE-37	2/16/2017	---	---	---	---	6.06	---
DPE-37	5/24/2017	12.12	---	---	---	7.11	5.01
DPE-37	7/11/2017	---	---	---	---	7.74	---
DPE-37	9/26/2017	20.80	---	---	---	9.21	11.59
DPE-37	12/11/2017	20.80	---	---	---	3.45	17.35
DPE-37	2/26/2018	20.80	---	---	---	6.88	13.92
DPE-38	11/15/2016	---	4.65	---	1.7	6.35	---
DPE-38	2/16/2017	---	3.43	---	4.17	7.60	---
DPE-38	5/16/2017	---	3.69	---	5.66	9.35	---
DPE-38	5/24/2017	15.20	4.79	10.41	0.01	4.80	10.41
DPE-38	7/11/2017	---	---	---	---	5.32	---
DPE-38	9/26/2017	20.28	---	---	---	7.09	13.19
DPE-38	12/11/2017	20.28	---	---	---	2.87	17.41
DPE-38	2/26/2018	20.28	---	---	---	5.41	14.87
DPE-39	11/15/2016	---	6.46	---	3.89	10.35	---
DPE-39	2/16/2017	---	6	---	5.99	11.99	---
DPE-39	5/16/2017	---	6.45	---	5.6	12.05	---
DPE-39	5/24/2017	23.98	6.74	17.24	7.36	14.10	15.77
DPE-39	7/11/2017	---	7.75	---	6.57	14.32	---
DPE-39	9/26/2017	20.96	9.82	11.14	2.22	12.04	10.70
DPE-39	12/11/2017	20.96	4.85	16.11	8.59	13.44	14.39
DPE-39	2/26/2018	20.96	7.06	13.9	5.81	12.87	12.74
DPE-40	7/11/2016	---	8.75	---	1.7	10.45	---
DPE-40	7/11/2017	---	7.57	---	3.37	10.94	---
DPE-40	12/11/2017	---	4.82	---	6.89	11.71	---
DPE-41	7/11/2016	---	9.29	---	1.42	10.71	---
DPE-41	7/11/2017	---	7.93	---	3.25	11.18	---
DPE-41	12/11/2017	---	5.37	---	6.61	11.98	---
DPE-42	11/15/2016	---	---	---	---	5.81	---
DPE-42	2/16/2017	---	---	---	---	5.00	---
DPE-42	5/24/2017	10.00	---	---	---	6.58	3.42
DPE-42	7/11/2017	---	---	---	---	8.78	---
DPE-42	9/26/2017	20.94	---	---	---	9.30	11.64
DPE-42	12/11/2017	20.94	---	---	---	5.27	15.67
DPE-42	2/26/2018	20.94	---	---	---	7.32	13.62
DPE-43	11/15/2016	---	5.07	---	2.68	7.75	---
DPE-43	2/16/2017	---	4.23	---	4.35	8.58	---
DPE-43	5/16/2017	---	4.57	---	5.96	10.53	---
DPE-43	5/24/2017	17.16	5.73	11.43	0.63	6.36	11.30
DPE-43	7/11/2017	---	6.84	---	0.02	6.86	---
DPE-43	9/26/2017	21.15	8.2	12.95	0.07	8.27	12.88
DPE-43	12/11/2017	21.15	---	---	---	3.12	18.03
DPE-43	2/26/2018	21.15	4.62	16.53	0.06	4.68	16.52
DPE-44	7/11/2017	---	---	---	---	6.60	---
DPE-44	12/11/2017	---	---	---	---	5.55	---
DPE-45	11/15/2016	---	6.65	---	0.37	7.02	---
DPE-45	2/16/2017	---	6.54	---	0.54	7.08	---
DPE-45	5/24/2017	14.16	7.41	6.75	0.79	8.20	6.59
DPE-45	7/11/2017	---	8.89	---	0.82	9.71	---
DPE-45	9/26/2017	21.10	9.95	11.15	0.68	10.63	11.01
DPE-45	12/11/2017	21.10	6.91	14.19	0.25	7.16	14.14
DPE-45	2/26/2018	21.10	7.36	13.74	0.6	7.96	13.60
DPE-46	7/8/2016	---	9.25	---	9.95	19.20	---
DPE-46	5/16/2017	---	7.33	---	6.22	13.55	---
DPE-46	7/11/2017	---	9.02	---	1.18	10.20	---
DPE-46	12/11/2017	---	5.71	---	0.55	6.26	---
DPE-47	11/15/2016	---	---	---	---	4.75	---
DPE-47	2/16/2017	---	---	---	---	3.57	---
DPE-47	5/24/2017	7.14	---	---	---	4.68	2.46
DPE-47	7/11/2017	---	---	---	---	6.06	---
DPE-47	9/26/2017	21.06	---	---	---	7.93	13.13
DPE-47	12/11/2017	21.06	---	---	---	3.47	17.59
DPE-47	2/26/2018	21.06	---	---	---	4.68	16.38
DPE-48	7/8/2016	---	10.3	---	1.45	11.75	---
DPE-48	7/11/2017	---	9.96	---	2.19	12.15	---
DPE-48	12/11/2017	---	---	---	---	7.42	---

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
DPE-49	7/8/2016	---	9.4	---	3.14	12.54	---
DPE-49	5/16/2017	---	7.58	---	3.47	11.05	---
DPE-49	7/11/2017	---	8.5	---	3.88	12.38	---
DPE-49	12/11/2017	---	5.78	---	7.74	13.52	---
DPE-50	7/8/2016	---	10.38	---	0.92	11.30	---
DPE-50	7/11/2017	---	---	---	---	9.87	---
DPE-50	12/11/2017	---	7.31	---	0.02	7.33	---
DPE-51	7/8/2016	---	10.4	---	0.18	10.58	---
DPE-51	7/11/2017	---	9.46	---	0.24	9.70	---
DPE-52	7/8/2016	---	9.65	---	2.8	12.45	---
DPE-52	5/15/2017	---	7.96	---	3.62	11.58	---
DPE-52	7/11/2017	---	9.13	---	0.07	9.20	---
DPE-52	12/11/2017	---	6.98	---	0.02	7.00	---
DPE-53	11/15/2016	---	---	---	---	7.19	---
DPE-53	2/16/2017	---	---	---	---	6.76	---
DPE-53	5/24/2017	13.52	---	---	---	7.97	5.55
DPE-53	7/11/2017	---	---	---	---	8.37	---
DPE-53	9/26/2017	21.15	---	---	---	10.14	11.01
DPE-53	12/11/2017	21.15	---	---	---	6.07	15.08
DPE-53	2/26/2018	21.15	---	---	---	7.75	13.40
DPE-54	7/11/2016	---	9.86	---	2.33	12.19	---
DPE-54	5/30/2017	---	8	---	6.03	14.03	---
DPE-54	7/11/2017	---	8.86	---	2.87	11.73	---
DPE-54	12/11/2017	---	6.94	---	1.88	8.82	---
DPE-55	11/15/2016	---	---	---	---	6.13	---
DPE-55	2/16/2017	---	---	---	---	4.67	---
DPE-55	5/24/2017	9.34	---	---	---	7.78	1.56
DPE-55	7/11/2017	---	---	---	---	9.75	---
DPE-55	9/26/2017	21.62	---	---	---	10.91	10.71
DPE-55	12/11/2017	21.62	---	---	---	6.73	14.89
DPE-55	2/26/2018	21.62	---	---	---	7.13	14.49
DPE-56	7/11/2016	---	9.81	---	3.19	13.00	---
DPE-56	5/15/2017	---	7.98	---	5.19	13.17	---
DPE-56	7/11/2017	---	9.44	---	0.59	10.03	---
DPE-56	12/11/2017	---	7.37	---	0.39	7.76	---
DPE-57	11/15/2016	---	6.94	---	2.78	9.72	---
DPE-57	2/16/2017	---	6.65	---	3.17	9.82	---
DPE-57	5/15/2017	---	7.6	---	3.2	10.80	---
DPE-57	5/24/2017	19.64	8.3	11.34	1.38	9.68	11.06
DPE-57	7/11/2017	---	---	---	---	8.87	---
DPE-57	9/26/2017	21.46	10.01	11.45	0.35	10.36	11.38
DPE-57	12/11/2017	21.46	6.48	14.98	0.25	6.73	14.93
DPE-57	2/26/2018	21.46	8.19	13.27	0.47	8.66	13.18
HA-1	1/27/1993	19.50	--	--	--	5.94	13.56
HA-1	3/12/1993	19.50	--	--	--	8.54	10.96
HA-1	4/14/1993	19.50	--	--	--	6.47	13.03
HA-1	12/15/1993	19.50	--	--	--	5.54	13.96
HA-1	11/4/1994	19.50	--	--	--	10.30	9.20
HA-1	2/22/1995	19.50	--	--	--	5.11	14.39
HA-1	6/16/1995	19.50	--	--	--	8.33	11.17
HA-1	10/20/1995	19.50	--	--	--	5.48	14.02
HA-1	4/4/1996	19.50	--	--	--	5.81	13.69
HA-1	4/16/1996	19.50	--	--	--	5.78	13.72
HA-1	5/1/1997	19.50	--	--	--	5.59	13.91
HA-1	9/17/1997	19.50	--	--	--	5.50	14.00
HA-1	4/29/1998	19.50	--	--	--	5.83	13.67
HA-1	5/24/2000	19.50	--	--	--	6.20	13.30
HA-1	5/23/2001	19.50	--	--	--	6.30	13.20
HA-1	6/4/2002	19.50	--	--	--	6.40	13.10
HA-1	5/28/2003	19.50	--	--	--	6.45	13.05
HA-1	6/15/2004	19.50	--	--	--	5.80	13.70
HA-1	6/22/2005	19.50	--	--	--	5.77	13.73
HA-1	6/5/2006	19.50	--	--	--	5.00	14.50
HA-1	10/23/2006	19.50	--	--	--	5.97	13.53
HA-1	3/14/2007	20.76	--	--	--	3.42	17.34
HA-1	9/10/2007	20.76	--	--	--	4.46	16.30
HA-1	11/28/2007	20.76	--	--	--	7.32	13.44
HA-1	12/13/2007	20.76	--	--	--	3.83	16.93
HA-1	1/21/2008	20.76	--	--	--	3.87	16.89
HA-1	2/24/2008	20.76	--	--	--	4.46	16.30
HA-1	3/24/2008	20.76	--	--	--	3.06	17.70
HA-1	6/2/2008	20.76	--	--	--	4.83	15.93
HA-1	8/25/2008	20.76	--	--	--	3.33	17.43
HA-1	2/18/2009	20.76			Not Monitored		
HA-1	8/25/2009	20.76			Not Monitored		
HA-1	3/22/2010	20.76	--	--	--	3.94	16.82
HA-1	8/23/2010	20.76	--	--	--	6.68	14.08
HA-1	2/7/2011	20.76	--	--	--	3.88	16.88
HA-1	5/27/2011	20.76	--	--	--	3.76	17.00
HA-1	8/8/2011	20.76	--	--	--	6.10	14.66
HA-1	11/14/2011	20.76	--	--	--	4.01	16.75
HA-1	2/20/2012	20.76	--	--	--	3.01	17.75

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-1	8/22/2012	20.76	--	--	--	7.42	13.34
HA-1	11/5/2012	20.76	--	--	--	2.98	17.78
HA-1	1/28/2013	20.76	--	--	--	3.17	17.59
HA-1	5/9/2013	20.76	--	--	--	4.37	16.39
HA-1	8/19/2013	20.76	--	--	--	7.83	12.93
HA-1	11/25/2013	20.76	--	--	--	3.61	17.15
HA-1	2/14/2014	20.76	--	--	--	2.12	18.64
HA-1	5/5/2014	20.76	--	--	--	3.24	17.52
HA-1	8/19/2014				Decomissioned Well		
HA-2	1/27/1993	18.17	--	--	--	5.80	12.37
HA-2	4/14/1993	18.17	--	--	--	7.12	11.05
HA-2	12/15/1993	18.17	--	--	--	7.84	10.33
HA-2	11/4/1994	18.17	--	--	--	8.45	9.72
HA-2	2/22/1995	18.17	--	--	--	6.39	11.78
HA-2	6/16/1995	18.17	--	--	--	7.03	11.14
HA-2	10/20/1995	18.17	--	--	--	7.29	10.88
HA-2	4/4/1996	18.17	--	--	--	5.43	12.74
HA-2	4/16/1996	18.17	--	--	--	5.17	13.00
HA-2	4/2/1997	18.17	--	--	--	6.80	11.37
HA-2	5/1/1997	18.17	--	--	--	6.98	11.19
HA-2	9/18/1997	18.17	--	--	--	7.34	10.83
HA-2	4/30/1998	18.17	--	--	--	6.74	11.43
HA-2	7/30/1999	18.17	--	--	--	7.03	11.14
HA-2	5/23/2000	18.17	--	--	--	6.94	11.23
HA-2	5/23/2001	18.17	--	--	--	7.50	10.67
HA-2	6/4/2002	18.17	--	--	--	6.45	11.72
HA-2	5/27/2003	18.17	--	--	sheen	7.40	10.77
HA-2	6/16/2004	18.17	--	--	--	7.84	10.33
HA-2	6/21/2005	18.17	--	--	--	6.41	11.76
HA-2	6/5/2006	18.17	--	--	--	6.22	11.95
HA-2	10/23/2006	18.17	--	--	--	7.84	10.33
HA-2	3/14/2007	21.09	--	--	--	5.69	15.40
HA-2	9/10/2007	21.09	--	--	--	7.89	13.20
HA-2	11/28/2007	21.09	--	--	--	7.53	13.56
HA-2	12/13/2007	21.09	6.95	14.14	0.36	7.31	14.05
HA-2	1/21/2008	21.09	--	--	--	6.35	14.74
HA-2	2/24/2008	21.09	--	--	--	6.31	14.78
HA-2	3/24/2008	21.09	--	--	--	6.65	14.44
HA-2	6/2/2008	21.09	--	--	--	7.12	13.97
HA-2	8/25/2008	21.09	--	--	--	7.77	13.32
HA-2	2/18/2009	21.09			Not Monitored		
HA-2	8/25/2009	21.09			Not Monitored		
HA-2	3/22/2010	21.09	--	--	--	5.93	15.16
HA-2	8/23/2010	21.09	--	--	--	6.61	14.48
HA-2	2/7/2011	21.09	--	--	--	6.20	14.89
HA-2	5/27/2011	21.09	--	--	--	6.35	14.74
HA-2	8/8/2011	21.09	--	--	--	7.22	13.87
HA-2	11/14/2011	21.09	--	--	--	7.70	13.39
HA-2	2/20/2012	21.09	--	--	--	6.10	14.99
HA-2	8/22/2012	21.09	--	--	--	7.29	13.80
HA-2	11/5/2012	21.09	--	--	--	7.37	13.72
HA-2	1/28/2013	21.09	--	--	--	5.42	15.67
HA-2	5/9/2013	21.09	--	--	--	6.54	14.55
HA-2	8/19/2013	21.09	--	--	--	7.66	13.43
HA-2	11/25/2013	21.09	--	--	--	4.56	16.53
HA-2	2/14/2014	21.09	--	--	--	6.25	14.84
HA-2	5/5/2014	21.09	--	--	--	5.04	16.05
HA-2	8/19/2014				Decomissioned Well		
HA-3	1/27/1993	21.03	--	--	--	8.65	12.38
HA-3	3/12/1993	21.03	--	--	--	9.01	12.02
HA-3	4/14/1993	21.03	--	--	--	8.61	12.42
HA-3	12/15/1993	21.03	--	--	--	9.22	11.81
HA-3	11/4/1994	21.03	--	--	--	10.26	10.77
HA-3	2/22/1995	21.03	--	--	--	8.35	12.68
HA-3	6/16/1995	21.03	--	--	--	9.31	11.72
HA-3	10/20/1995	21.03	--	--	--	9.46	11.57
HA-3	4/4/1996	21.03	--	--	--	7.95	13.08
HA-3	4/16/1996	21.03	--	--	--	8.10	12.93
HA-3	4/2/1997	21.03	--	--	--	6.70	14.33
HA-3	5/1/1997	21.03	--	--	--	8.44	12.59
HA-3	9/18/1997	21.03	--	--	--	9.34	11.69
HA-3	4/30/1998	21.03	--	--	--	9.20	11.83
HA-3	5/23/2000	21.03	--	--	--	9.25	11.78
HA-3	5/23/2001	21.03	--	--	--	9.18	11.85
HA-3	6/4/2002	21.03	--	--	--	9.07	11.96
HA-3	5/27/2003	21.03	--	--	--	9.30	11.73
HA-3	6/22/2005	21.03	--	--	--	8.94	12.09
HA-3	6/5/2006	21.03	--	--	--	8.91	12.12
HA-3	10/23/2006	21.03	--	--	--	9.66	11.37
HA-3	3/14/2007	21.09	--	--	--	5.42	15.67
HA-3	9/10/2007	21.09	--	--	--	6.70	14.39
HA-3	11/28/2007	21.09	--	--	--	6.91	14.18
HA-3	12/13/2007	21.09	5.90	15.19	0.90	6.80	14.97
HA-3	1/21/2008	21.09	--	--	--	5.96	15.13
HA-3	2/24/2008	21.09	--	--	--	5.77	15.32
HA-3	3/24/2008	21.09	--	--	--	6.07	15.02
HA-3	6/2/2008	21.09	--	--	--	6.36	14.73
HA-3	8/25/2008	21.09	--	--	--	6.30	14.79
HA-3	2/18/2009	21.09			Not Monitored		

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-3	8/25/2009	21.09			Not Monitored		
HA-3	3/22/2010	21.09	--	--	--	5.44	15.65
HA-3	8/23/2010	21.09	--	--	--	6.34	14.75
HA-3	2/7/2011	21.09	--	--	--	5.31	15.78
HA-3	5/27/2011	21.09	--	--	--	5.67	15.42
HA-3	8/8/2011	21.09	--	--	--	6.45	14.64
HA-3	11/14/2011	21.09	--	--	--	6.33	14.76
HA-3	2/20/2012	21.09	--	--	--	5.20	15.89
HA-3	8/22/2012	21.09	--	--	--	6.56	14.53
HA-3	11/5/2012	21.09	--	--	--	5.41	15.68
HA-3	1/28/2013	21.09	--	--	--	5.47	15.62
HA-3	5/9/2013	21.09	--	--	--	5.97	15.12
HA-3	8/19/2013	21.09	--	--	--	6.60	14.49
HA-3	11/25/2013	21.09	--	--	--	4.07	17.02
HA-3	2/14/2014	21.09	--	--	--	4.68	16.41
HA-3	5/5/2014	21.09	--	--	--	4.66	16.43
HA-3	8/19/2014				Decomissioned Well		
HA-4	1/27/1993	20.24	--	--	--	7.68	12.56
HA-4	3/12/1993	20.24	--	--	--	8.56	11.68
HA-4	4/14/1993	20.24	--	--	--	8.02	12.22
HA-4	12/15/1993	20.24	--	--	--	8.41	11.83
HA-4	11/4/1994	20.24	--	--	--	10.14	10.10
HA-4	2/22/1995	20.24	--	--	--	7.09	13.15
HA-4	6/16/1995	20.24	--	--	--	8.78	11.46
HA-4	10/20/1995	20.24	--	--	--	8.54	11.70
HA-4	4/4/1996	20.24	--	--	--	7.68	12.56
HA-4	4/16/1996	20.24	--	--	--	7.11	13.13
HA-4	4/2/1997	20.24	--	--	--	8.00	12.24
HA-4	5/1/1997	20.24	--	--	--	5.49	14.75
HA-4	9/18/1997	20.24	--	--	--	7.70	12.54
HA-4	4/30/1998	20.24	--	--	--	8.67	11.57
HA-4	5/23/2000	20.24	--	--	--	7.35	12.89
HA-4	5/23/2001	20.24	--	--	--	8.95	11.29
HA-4	6/4/2002	20.24	--	--	--	6.45	13.79
HA-4	5/27/2003	20.24	--	--	--	8.64	11.60
HA-4	6/16/2004	20.24	--	--	--	8.67	11.57
HA-4	6/22/2005	20.24	--	--	--	8.58	11.66
HA-4	6/5/2006	20.24	--	--	--	8.04	12.20
HA-4	10/23/2006	20.24	--	--	--	9.00	11.24
HA-4	3/14/2007	21.05	--	--	--	5.06	15.99
HA-4	9/10/2007	21.05	--	--	--	6.77	14.28
HA-4	11/28/2007	21.05	--	--	--	5.42	15.63
HA-4	12/13/2007	21.05	--	--	--	6.20	14.85
HA-4	1/21/2008	21.05	--	--	--	5.08	15.97
HA-4	2/24/2008	21.05	--	--	--	5.78	15.27
HA-4	3/24/2008	21.05	--	--	--	5.15	15.90
HA-4	6/2/2008	21.05	--	--	--	6.37	14.68
HA-4	8/25/2008	21.05	--	--	--	4.15	16.90
HA-4	2/18/2009	21.05			Not Monitored		
HA-4	8/25/2009	21.05			Not Monitored		
HA-4	3/22/2010	21.05	--	--	--	5.69	15.36
HA-4	8/23/2010	21.05	--	--	--	6.75	14.30
HA-4	2/7/2011	21.05	--	--	--	5.17	15.88
HA-4	5/27/2011	21.05	--	--	--	5.61	15.44
HA-4	8/8/2011	21.05	--	--	--	6.63	14.42
HA-4	11/14/2011	21.05	--	--	--	4.71	16.34
HA-4	2/20/2012	21.05	--	--	--	4.90	16.15
HA-4	8/22/2012	21.05	--	--	--	10.72	10.33
HA-4	11/5/2012	21.05	--	--	--	3.98	17.07
HA-4	1/28/2013	21.05	--	--	--	3.54	17.51
HA-4	5/9/2013	21.05	--	--	--	6.08	14.97
HA-4	8/19/2013	21.05	--	--	--	6.88	14.17
HA-4	11/25/2013	21.05	--	--	--	5.83	15.22
HA-4	2/14/2014	21.05	--	--	--	3.65	17.40
HA-4	5/5/2014	21.05	--	--	--	4.84	16.21
HA-4	8/19/2014				Decomissioned Well		
HA-5	1/27/1993	18.07	--	--	--	4.50	13.57
HA-5	3/12/1993	18.07	--	--	--	6.22	11.85
HA-5	4/14/1993	18.07	--	--	--	5.13	12.94
HA-5	12/15/1993	18.07	--	--	--	6.39	11.68
HA-5	11/4/1994	18.07	--	--	--	7.86	10.21
HA-5	2/22/1995	18.07	--	--	--	3.67	14.40
HA-5	6/16/1995	18.07	--	--	--	6.70	11.37
HA-5	10/20/1995	18.07	--	--	--	6.41	11.66
HA-5	4/4/1996	18.07	--	--	--	4.88	13.19
HA-5	4/16/1996	18.07	--	--	--	4.91	13.16
HA-5	5/1/1997	18.07	--	--	--	5.04	13.03
HA-5	9/18/1997	18.07	--	--	--	5.90	12.17
HA-5	5/1/1998	18.07	--	--	--	5.98	12.09
HA-5	7/29/1999	18.07	--	--	--	6.53	11.54
HA-5	5/23/2000	18.07	--	--	--	6.22	11.85
HA-5	5/22/2001	18.07	--	--	--	6.09	11.98
HA-5	6/5/2002	18.07	--	--	--	6.08	11.99
HA-5	11/24/2002	21.13	--	--	--	6.80	14.33
HA-5	1/17/2003	21.13	4.37	16.76	0.00	4.37	16.76
HA-5	1/20/2003	21.13	--	--	--	4.58	16.55
HA-5	1/31/2003	21.13	--	--	--	4.49	16.64
HA-5	2/7/2003	21.13	--	--	--	4.46	16.67
HA-5	2/12/2003	21.13	--	--	--	4.93	16.20

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-5	2/18/2003	21.13	--	--	--	5.30	15.83
HA-5	2/21/2003	21.13	--	--	--	5.14	15.99
HA-5	2/24/2003	21.13	--	--	--	5.23	15.90
HA-5	3/4/2003	21.13	--	--	--	5.55	15.58
HA-5	3/12/2003	21.13	--	--	--	5.24	15.89
HA-5	3/14/2003	21.13	5.25	15.88	0.01	5.26	15.88
HA-5	3/26/2003	21.13	--	--	--	4.41	16.72
HA-5	3/28/2003	21.13	--	--	--	4.98	16.15
HA-5	4/2/2003	21.13	--	--	--	5.00	16.13
HA-5	4/4/2003	21.13	--	--	--	5.44	15.69
HA-5	4/8/2003	21.13	--	--	--	5.49	15.64
HA-5	4/11/2003	21.13	--	--	--	5.53	15.60
HA-5	4/15/2003	21.13	--	--	--	5.06	16.07
HA-5	4/17/2003	21.13	--	--	--	5.70	15.43
HA-5	4/22/2003	21.13	--	--	--	5.54	15.59
HA-5	4/25/2003	21.13	--	--	--	5.92	15.21
HA-5	5/2/2003	21.13	--	--	--	5.98	15.15
HA-5	5/6/2003	21.13	--	--	--	6.02	15.11
HA-5	5/9/2003	21.13	--	--	--	6.34	14.79
HA-5	5/23/2003	21.13	--	--	--	6.95	14.18
HA-5	5/28/2003	21.13	--	--	--	6.85	14.28
HA-5	6/13/2003	21.13	--	--	--	7.22	13.91
HA-5	6/18/2003	21.13	--	--	--	7.16	13.97
HA-5	6/27/2003	21.13	--	--	--	7.14	13.99
HA-5	7/7/2003	21.13	--	--	--	7.47	13.66
HA-5	7/16/2003	21.13	--	--	--	7.57	13.56
HA-5	7/31/2003	21.13	7.82	13.31	0.01	7.83	13.31
HA-5	8/5/2003	21.13	--	--	--	7.90	13.23
HA-5	8/11/2003	21.13	--	--	--	9.01	12.12
HA-5	8/22/2003	21.13	9.24	11.89	0.01	9.25	11.89
HA-5	8/26/2003	21.13	--	--	--	8.19	12.94
HA-5	9/2/2003	21.13	--	--	--	8.48	12.65
HA-5	9/9/2003	21.13	--	--	--	8.93	12.20
HA-5	9/19/2003	21.13	8.80	12.33	0.01	8.81	12.33
HA-5	10/14/2003	21.13			Not Monitored		
HA-5	11/20/2003	21.13			Not Monitored		
HA-5	12/3/2003	21.13	--	--	--	4.44	16.69
HA-5	1/19/2004	21.13	--	--	--	3.99	17.14
HA-5	2/24/2004	21.13	--	--	--	5.26	15.87
HA-5	3/15/2004	21.13	--	--	--	6.11	15.02
HA-5	4/19/2004	21.13	--	--	--	6.62	14.51
HA-5	5/17/2004	21.13	--	--	--	7.15	13.98
HA-5	6/16/2004	18.07	--	--	--	7.01	11.06
HA-5	6/22/2004	21.13	--	--	--	6.98	14.15
HA-5	8/18/2004	21.13	8.10	13.03	0.01	8.11	13.03
HA-5	9/21/2004	21.13	--	--	--	6.97	14.16
HA-5	10/19/2004	21.13	--	--	--	6.28	14.85
HA-5	11/23/2004	21.13	--	--	--	6.52	14.61
HA-5	12/21/2004	21.13	--	--	--	4.56	16.57
HA-5	1/13/2005	21.13	--	--	--	5.84	15.29
HA-5	4/28/2005	21.13	--	--	--	4.88	16.25
HA-5	6/1/2005	21.13	--	--	--	5.17	15.96
HA-5	6/20/2005	18.07	--	--	--	5.82	12.25
HA-5	6/29/2005	21.13	--	--	--	6.59	14.54
HA-5	7/20/2005	21.13	--	--	--	7.00	14.13
HA-5	8/22/2005	21.13	--	--	--	7.20	13.93
HA-5	9/12/2005	21.13	--	--	--	7.82	13.31
HA-5	10/12/2005	21.13	--	--	--	8.35	12.78
HA-5	11/21/2005	21.13	6.02	15.11	0.01	6.03	15.11
HA-5	12/27/2005	21.13			Not Monitored		
HA-5	1/30/2006	21.13	--	--	--	6.10	15.03
HA-5	2/16/2006	21.13	--	--	--	3.97	17.16
HA-5	3/13/2006	21.13	--	--	--	4.94	16.19
HA-5	4/18/2006	21.13	--	--	--	5.28	15.85
HA-5	5/12/2006	21.13	--	--	--	5.70	15.43
HA-5	6/5/2006	18.07	--	--	--	5.42	12.65
HA-5	6/9/2006	21.13	--	--	--	5.31	15.82
HA-5	7/13/2006	21.13	--	--	--	6.39	14.74
HA-5	8/16/2006	21.13	--	--	--	7.35	13.78
HA-5	9/19/2006	21.13	--	--	--	7.80	13.33
HA-5	10/13/2006	21.13	--	--	--	7.52	13.61
HA-5	10/23/2006	18.07	--	--	--	7.54	10.53
HA-5	11/20/2006	21.13	--	--	--	3.70	17.43
HA-5	12/8/2006	21.13	--	--	--	4.69	16.44
HA-5	1/19/2007	21.13	--	--	--	3.22	17.91
HA-5	2/19/2007	21.13	--	--	--	5.25	15.88
HA-5	3/14/2007	21.13	--	--	--	4.38	16.75
HA-5	3/15/2007	21.13	--	--	--	4.31	16.82
HA-5	4/16/2007	21.13	--	--	--	4.76	16.37
HA-5	5/14/2007	21.13	--	--	--	6.05	15.08
HA-5	6/29/2007	21.13	--	--	--	7.17	13.96
HA-5	7/20/2007	21.13	--	--	--	7.57	13.56
HA-5	8/21/2007	21.13	--	--	--	8.15	12.98
HA-5	9/10/2007	21.13	--	--	--	8.24	12.89
HA-5	10/22/2007	21.13	--	--	--	6.92	14.21
HA-5	11/28/2007	21.13	--	--	--	6.33	14.80
HA-5	12/13/2007	21.13	--	--	--	5.08	16.05
HA-5	1/21/2008	21.13	--	--	--	4.96	16.17
HA-5	2/24/2008	21.13	--	--	--	5.73	15.40
HA-5	3/24/2008	21.13	--	--	--	8.99	12.14
HA-5	6/2/2008	21.13	--	--	--	7.04	14.09

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-5	8/25/2008	21.13	--	--	--	7.65	13.48
HA-5	2/18/2009	21.13			Not Monitored		
HA-5	8/25/2009	21.13			Not Monitored		
HA-5	3/22/2010	21.13	--	--	--	5.56	15.57
HA-5	8/23/2010	21.13	--	--	--	7.47	13.66
HA-5	2/7/2011	21.13	--	--	--	6.63	14.50
HA-5	5/27/2011	21.13			Not Monitored		
HA-5	8/8/2011	21.13	--	--	--	7.35	13.78
HA-5	11/14/2011	21.13	--	--	--	7.03	14.1
HA-5	2/20/2012	21.13	--	--	--	4.63	16.5
HA-5	8/22/2012	21.13	--	--	--	7.10	14.03
HA-5	11/5/2012	21.13	--	--	--	5.78	15.35
HA-5	1/28/2013	21.13	--	--	--	4.33	16.80
HA-5	5/9/2013	21.13	--	--	--	5.26	15.87
HA-5	8/19/2013	21.13	--	--	--	7.81	13.32
HA-5	11/25/2013	21.13	--	--	--	5.50	15.63
HA-5	2/14/2014	21.13	--	--	--	4.85	16.28
HA-5	5/5/2014	21.13	--	--	--	3.78	17.35
HA-5	8/19/2014	21.13	--	--	--	7.59	13.54
HA-5	11/21/2014	21.13	--	--	--	5.25	15.88
HA-6	1/27/1993	18.16	--	--	--	4.58	13.58
HA-6	3/12/1993	18.16	--	--	--	6.46	11.70
HA-6	4/14/1993	18.16	--	--	--	5.55	12.61
HA-6	12/15/1993	18.16	--	--	--	7.15	11.01
HA-6	11/4/1994	18.16	--	--	--	8.42	9.74
HA-6	2/22/1995	18.16	--	--	--	4.98	13.18
HA-6	5/15/1995	18.16	--	--	--	5.86	12.30
HA-6	6/16/1995	18.16	--	--	--	6.62	11.54
HA-6	10/20/1995	18.16	--	--	--	6.86	11.30
HA-6	4/4/1996	18.16	--	--	--	4.68	13.48
HA-6	4/16/1996	18.16	--	--	--	4.60	13.56
HA-6	5/10/1996	18.16	--	--	--	4.20	13.96
HA-6	5/15/1996	18.16	--	--	--	4.02	14.14
HA-6	5/22/1996	18.16	--	--	--	4.97	13.19
HA-6	6/5/1996	18.16	--	--	--	5.79	12.37
HA-6	6/24/1996	18.16	--	--	--	6.78	11.38
HA-6	7/15/1996	18.16	--	--	--	7.51	10.65
HA-6	8/23/1996	18.16	--	--	--	8.09	10.07
HA-6	9/18/1996	18.16	--	--	--	8.37	9.79
HA-6	1/3/1997	18.16	--	--	--	2.84	15.32
HA-6	3/12/1997	18.16	--	--	--	4.54	13.62
HA-6	4/2/1997	18.16	--	--	--	4.85	13.31
HA-6	5/1/1997	18.16	--	--	--	5.35	12.81
HA-6	8/19/1997	18.16	--	--	--	7.40	10.76
HA-6	8/26/1997	18.16	--	--	--	7.60	10.56
HA-6	9/17/1997	18.16	--	--	--	6.44	11.72
HA-6	5/1/1998	18.16	--	--	--	5.95	12.21
HA-6	7/30/1999	18.16	--	--	--	6.54	11.62
HA-6	5/22/2000	18.16	--	--	--	6.21	11.95
HA-6	5/22/2001	18.16	--	--	--	6.36	11.80
HA-6	6/5/2002	18.16	--	--	--	6.00	12.16
HA-6	11/24/2002	21.43	--	--	--	7.12	14.31
HA-6	5/28/2003	18.16	--	--	sheen	6.93	11.23
HA-6	6/16/2004	18.16	--	--	--	7.45	10.71
HA-6	1/13/2005	21.43	--	--	--	5.56	15.87
HA-6	4/28/2005	21.43	--	--	--	4.81	16.62
HA-6	6/1/2005	21.43	--	--	--	5.05	16.38
HA-6	6/20/2005	18.16	--	--	--	5.76	12.40
HA-6	6/29/2005	21.43	--	--	--	6.52	14.91
HA-6	7/20/2005	21.43	--	--	--	7.21	14.22
HA-6	8/22/2005	21.43	--	--	--	7.40	14.03
HA-6	9/12/2005	21.43	--	--	--	7.82	13.61
HA-6	10/12/2005	21.43	--	--	--	8.62	12.81
HA-6	11/21/2005	21.43	--	--	--	6.57	14.86
HA-6	12/27/2005	21.43	--	--	--	5.69	15.74
HA-6	1/30/2006	21.43	--	--	--	2.46	18.97
HA-6	2/16/2006	21.43	--	--	--	3.62	17.81
HA-6	3/13/2006	21.43	--	--	--	4.62	16.81
HA-6	4/18/2006	21.43	--	--	--	5.01	16.42
HA-6	5/12/2006	21.43	--	--	--	5.43	16.00
HA-6	6/5/2006	18.16	--	--	--	5.39	12.77
HA-6	6/9/2006	21.43	--	--	--	5.20	16.23
HA-6	7/13/2006	21.43	--	--	--	6.60	14.83
HA-6	8/16/2006	21.43	--	--	--	7.35	14.08
HA-6	9/19/2006	21.43	--	--	--	7.91	13.52
HA-6	10/13/2006	21.43	--	--	--	7.72	13.71
HA-6	10/23/2006	18.16	--	--	--	7.72	10.44
HA-6	11/20/2006	21.43	--	--	--	4.22	17.21
HA-6	12/8/2006	21.43	--	--	--	3.59	17.84
HA-6	1/19/2007	21.43	--	--	--	3.13	18.30
HA-6	2/19/2007	21.43	--	--	--	5.36	16.07
HA-6	3/14/2007	21.43	--	--	--	4.37	17.06
HA-6	3/15/2007	21.43	--	--	--	4.25	17.18
HA-6	4/16/2007	21.43	--	--	--	4.50	16.93
HA-6	5/14/2007	21.43	--	--	--	6.20	15.23
HA-6	6/29/2007	21.43	--	--	--	7.25	14.18
HA-6	7/20/2007	21.43	--	--	--	7.71	13.72
HA-6	8/21/2007	21.43	--	--	--	8.35	13.08
HA-6	9/10/2007	21.43	--	--	--	8.46	12.97
HA-6	10/22/2007	21.43	--	--	--	7.55	13.88

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-6	11/28/2007	21.43	--	--	--	6.62	14.81
HA-6	12/13/2007	21.43	--	--	--	5.49	15.94
HA-6	1/21/2008	21.43	--	--	--	5.21	16.22
HA-6	2/24/2008	21.43	--	--	--	5.73	15.70
HA-6	3/24/2008	21.43	--	--	--	6.05	15.38
HA-6	6/2/2008	21.43	--	--	--	7.24	14.19
HA-6	8/25/2008	21.43	--	--	--	8.00	13.43
HA-6	2/18/2009	21.43			Not Monitored		
HA-6	8/25/2009	21.43			Not Monitored		
HA-6	3/22/2010	21.43	--	--	--	4.96	16.47
HA-6	8/23/2010	21.43	--	--	--	7.32	14.11
HA-6	2/7/2011	21.43	--	--	--	4.81	16.62
HA-6	5/27/2011	21.43	--	--	--	5.64	15.79
HA-6	8/8/2011	21.43	--	--	--	7.61	13.82
HA-6	11/14/2011	21.43	--	--	--	7.38	14.05
HA-6	2/20/2012	21.43	--	--	--	4.80	16.63
HA-6	8/22/2012	21.43	--	--	--	7.24	14.19
HA-6	11/5/2012	21.43	--	--	--	7.00	14.43
HA-6	5/9/2013	21.43	--	--	--	5.52	15.91
HA-6	8/19/2013	21.43	--	--	--	8.08	13.35
HA-6	11/25/2013	21.43	--	--	--	5.84	15.59
HA-6	2/14/2014	21.43	--	--	--	5.26	16.17
HA-6	5/5/2014	21.43	--	--	--	4.24	17.19
HA-6	8/19/2014				Decomissioned Well		
HA-7	1/27/1993	18.44	--	--	2.22	6.33	13.78
HA-7	3/12/1993	18.44	--	--	0.61	7.30	11.60
HA-7	4/14/1993	18.44	--	--	1.23	7.00	12.36
HA-7	6/30/1993	18.44	--	--	0.84	7.36	11.71
HA-7	12/15/99	18.44	--	--	0.55	7.80	11.05
HA-7	2/8/1994	18.44	--	--	0.50	6.14	12.68
HA-7	8/12/1994	18.44	--	--	0.53	9.09	9.75
HA-7	9/21/1994	18.44	--	--	0.47	9.39	9.40
HA-7	11/4/1994	18.44	--	--	0.51	9.15	9.67
HA-7	12/23/1994	18.44	--	--	0.19	4.07	14.51
HA-7	2/3/1995	18.44	--	--	0.40	3.94	14.80
HA-7	2/22/1995	18.44	--	--	0.48	4.75	14.05
HA-7	3/24/1995	18.44	--	--	0.45	5.30	13.48
HA-7	4/27/1995	18.44	--	--	0.50	5.85	12.97
HA-7	5/15/1995	18.44	--	--	0.55	6.44	12.41
HA-7	6/16/1995	18.44	--	--	0.58	7.16	11.72
HA-7	8/25/1995	18.44	--	--	0.42	7.72	11.04
HA-7	10/20/1995	18.44	--	--	0.40	7.45	11.29
HA-7	4/4/1996	18.44	--	--	0.63	5.38	13.53
HA-7	4/16/1996	18.44	--	--	0.62	5.17	13.74
HA-7	5/10/1996	18.44	--	--	0.64	4.89	14.03
HA-7	5/15/1996	18.44	--	--	0.63	4.62	14.29
HA-7	5/22/1996	18.44	--	--	0.86	6.35	12.74
HA-7	6/5/1996	18.44	--	--	0.72	6.92	12.06
HA-7	6/24/1996	18.44	--	--	0.67	7.72	11.22
HA-7	7/15/1996	18.44	--	--	0.57	8.32	10.55
HA-7	8/23/1996	18.44	--	--	0.55	8.90	9.95
HA-7	9/18/1996	18.44	--	--	0.57	9.19	9.68
HA-7	1/3/1997	18.44	--	--	0.66	3.67	15.27
HA-7	3/12/1997	18.44	--	--	0.83	5.86	13.20
HA-7	4/2/1997	18.44	--	--	0.78	6.17	12.86
HA-7	5/1/1997	18.44	--	--	0.83	6.58	12.48
HA-7	7/8/1997	18.44	--	--	0.06	5.67	12.82
HA-7	8/19/1997	18.44	--	--	--	7.62	10.82
HA-7	8/26/1997	18.44	--	--	0.05	7.93	10.55
HA-7	9/18/1997	18.44	--	--	0.06	8.70	9.79
HA-7	4/30/1998	18.44	--	--	0.08	6.07	12.43
HA-7	7/29/1999	18.44	--	--	--	6.82	11.62
HA-7	5/22/2000	18.44	--	--	--	6.18	12.26
HA-7	5/22/2001	18.44	--	--	--	6.74	11.70
HA-7	6/5/2002	18.44	--	--	--	6.11	12.33
HA-7	11/24/2002	21.60	--	--	--	7.25	14.35
HA-7	5/28/2003	18.44	--	--	sheen	7.08	11.36
HA-7	6/15/2004	18.44	--	--	--	7.83	10.61
HA-7	1/13/2005	21.60	--	--	--	5.70	15.90
HA-7	4/28/2005	21.60			Not Monitored		
HA-7	6/1/2005	21.60			Not Monitored		
HA-7	6/20/2005	18.44	--	--	--	5.71	12.73
HA-7	6/29/2005	21.60			Not Monitored		
HA-7	7/20/2005	21.60			Not Monitored		
HA-7	8/22/2005	21.60			Not Monitored		
HA-7	9/12/2005	21.60			Not Monitored		
HA-7	10/12/2005	21.60			Not Monitored		
HA-7	11/21/2005	21.60			Not Monitored		
HA-7	12/27/2005	21.60			Not Monitored		
HA-7	1/30/2006	21.60			Not Monitored		
HA-7	2/16/2006	21.60			Not Monitored		
HA-7	3/13/2006	21.60			Not Monitored		
HA-7	4/18/2006	21.60			Not Monitored		
HA-7	5/12/2006	21.60			Not Monitored		
HA-7	6/5/2006	18.44	--	--	--	5.28	13.16
HA-7	6/9/2006	21.60			Not Monitored		
HA-7	7/13/2006	21.60			Not Monitored		
HA-7	8/16/2006	21.60			Not Monitored		
HA-7	9/19/2006	21.60			Not Monitored		
HA-7	10/13/2006	21.60			Not Monitored		

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-7	10/23/2006	18.44	--	--	--	7.86	10.58
HA-7	11/20/2006	21.60			Not Monitored		
HA-7	12/8/2006	21.60			Not Monitored		
HA-7	1/19/2007	21.60			Not Monitored		
HA-7	1/19/2007	21.60			Not Monitored		
HA-7	1/19/2007	21.60			Not Monitored		
HA-7	3/14/2007	21.60	--	--	--	4.47	17.13
HA-7	4/16/2007	21.60			Not Monitored		
HA-7	5/14/2007	21.60			Not Monitored		
HA-7	6/29/2007	21.60	--	--	--	7.35	14.25
HA-7	7/20/2007	21.60			Not Monitored		
HA-7	8/21/2007	21.60			Not Monitored		
HA-7	9/10/2007	21.60	--	--	--	8.78	12.82
HA-7	10/22/2007	21.60			Not Monitored		
HA-7	11/28/2007	21.60	--	--	--	7.02	14.58
HA-7	12/13/2007	21.60			Not Monitored		
HA-7	1/21/2008	21.60	--	--	--	5.27	16.33
HA-7	2/24/2008	21.60	--	--	--	5.97	15.63
HA-7	3/24/2008	21.60	--	--	--	6.34	15.26
HA-7	6/2/2008	21.60	--	--	--	7.62	13.98
HA-7	8/25/2008	21.60	--	--	--	8.27	13.33
HA-7	2/18/2009	21.60			Not Monitored		
HA-7	8/25/2009	21.60			Not Monitored		
HA-7	3/22/2010	21.60	--	--	--	5.19	16.41
HA-7	8/23/2010	21.60	--	--	--	7.38	14.22
HA-7	2/7/2011	21.60	--	--	--	4.97	16.63
HA-7	5/27/2011	21.60	--	--	--	5.97	15.63
HA-7	8/8/2011	21.60	--	--	--	7.91	13.69
HA-7	11/14/2011	21.60	--	--	--	7.68	13.92
HA-7	2/20/2012	21.60	--	--	--	5.31	16.29
HA-7	8/22/2012	21.60	--	--	--	7.36	14.24
HA-7	11/5/2012	21.60	--	--	--	7.19	14.41
HA-7	1/28/2013	21.60	--	--	--	4.54	17.06
HA-7	5/9/2013	21.60	--	--	--	6.02	15.58
HA-7	8/19/2013	21.60	--	--	--	8.41	13.19
HA-7	11/25/2013	21.60	--	--	--	6.39	15.21
HA-7	2/14/2014	21.60	--	--	--	5.23	16.37
HA-7	5/5/2014	21.60	--	--	--	4.74	16.86
HA-7	8/19/2014				Decomissioned Well		
HA-8	1/27/1993	18.88	--	--	--	4.60	14.28
HA-8	3/12/1993	18.88	--	--	--	6.79	12.09
HA-8	4/14/1993	18.88	--	--	--	5.20	13.68
HA-8	12/15/1993	18.88	--	--	--	7.18	11.70
HA-8	11/4/1994	18.88	--	--	--	8.85	10.03
HA-8	2/22/1995	18.88	--	--	--	4.03	14.85
HA-8	6/16/1995	18.88	--	--	--	7.13	11.75
HA-8	10/20/1995	18.88	--	--	--	7.09	11.79
HA-8	4/4/1996	18.88	--	--	--	5.32	13.56
HA-8	4/16/1996	18.88	--	--	--	5.18	13.70
HA-8	5/1/1997	18.88	--	--	--	5.01	13.87
HA-8	8/26/1997	18.88	--	--	--	7.99	10.89
HA-8	9/18/1997	18.88	--	--	--	6.90	11.98
HA-8	5/1/1998	18.88	--	--	--	6.25	12.63
HA-8	7/29/1999	18.88	--	--	--	7.93	10.95
HA-8	5/22/2000	18.88	--	--	--	6.10	12.78
HA-8	5/22/2001	18.88	--	--	--	6.65	12.23
HA-8	6/5/2002	18.88	--	--	--	6.54	12.34
HA-8	11/24/2002	21.97	--	--	--	7.40	14.57
HA-8	1/31/2003	21.97	--	--	--	4.04	17.93
HA-8	2/7/2003	21.97	--	--	--	4.16	17.81
HA-8	2/12/2003	21.97	--	--	--	4.71	17.26
HA-8	2/18/2003	21.97	--	--	--	4.99	16.98
HA-8	2/21/2003	21.97	--	--	--	5.16	16.81
HA-8	2/24/2003	21.97	--	--	--	5.21	16.76
HA-8	3/4/2003	21.97	--	--	--	5.89	16.08
HA-8	3/12/2003	21.97	--	--	--	5.36	16.61
HA-8	3/14/2003	21.97	5.21	16.76	0.01	5.22	16.76
HA-8	3/26/2003	21.97	--	--	--	4.74	17.23
HA-8	3/28/2003	21.97	--	--	--	5.21	16.76
HA-8	4/2/2003	21.97	--	--	--	5.25	16.72
HA-8	4/4/2003	21.97	--	--	--	5.57	16.40
HA-8	4/8/2003	21.97	--	--	--	5.57	16.40
HA-8	4/11/2003	21.97	--	--	--	5.77	16.20
HA-8	4/15/2003	21.97	--	--	--	5.41	16.56
HA-8	4/17/2003	21.97	--	--	--	5.91	16.06
HA-8	4/22/2003	21.97	--	--	--	6.07	15.90
HA-8	4/25/2003	21.97	--	--	--	6.37	15.60
HA-8	5/2/2003	21.97	--	--	--	6.44	15.53
HA-8	5/6/2003	21.97	--	--	--	6.62	15.35
HA-8	5/9/2003	21.97	--	--	--	6.92	15.05
HA-8	5/23/2003	21.97	--	--	--	7.38	14.59
HA-8	5/28/2003	21.97	--	--	--	7.34	14.63
HA-8	6/13/2003	21.97	--	--	--	7.66	14.31
HA-8	6/18/2003	21.97	--	--	--	7.60	14.37
HA-8	6/27/2003	21.97	--	--	--	7.65	14.32
HA-8	7/7/2003	21.97	--	--	--	8.51	13.46
HA-8	7/16/2003	21.97	--	--	--	8.24	13.73
HA-8	7/31/2003	21.97	--	--	--	8.61	13.36
HA-8	8/5/2003	21.97	--	--	--	9.62	12.35
HA-8	8/11/2003	21.97	--	--	--	9.70	12.27

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-8	8/22/2003	21.97	10.02	11.95	0.01	10.03	11.95
HA-8	8/26/2003	21.97	--	--	--	8.99	12.98
HA-8	9/2/2003	21.97	--	--	--	9.02	12.95
HA-8	9/9/2003	21.97	9.51	12.46	0.01	9.52	12.46
HA-8	9/19/2003	21.97	10.40	11.57	0.10	10.50	11.55
HA-8	10/14/2003	21.97			Not Monitored		
HA-8	11/20/2003	21.97	7.22	14.75	0.32	7.54	14.67
HA-8	12/3/2003	21.97	4.65	17.32	0.57	5.22	17.18
HA-8	1/19/2004	21.97	4.23	17.74	0.55	4.78	17.60
HA-8	2/24/2004	21.97	5.08	16.89	0.53	5.61	16.76
HA-8	3/15/2004	21.97	6.15	15.82	0.51	6.66	15.69
HA-8	4/19/2004	21.97	6.98	14.99	0.50	7.48	14.87
HA-8	5/17/2004	21.97	7.74	14.23	0.49	8.23	14.11
HA-8	6/15/2004	18.88	--	--	0.51	8.21	11.05
HA-8	6/22/2004	21.97	7.57	14.40	0.51	8.08	14.27
HA-8	8/18/2004	21.97	8.71	13.26	0.49	9.20	13.14
HA-8	9/21/2004	21.97	7.67	14.30	0.17	7.84	14.26
HA-8	10/19/2004	21.97	6.89	15.08	0.16	7.05	15.04
HA-8	11/23/2004	21.97	6.89	15.08	0.11	7.00	15.05
HA-8	12/21/2004	21.97	5.08	16.89	0.15	5.23	16.85
HA-8	1/13/2005	21.97	--	--	--	6.02	15.95
HA-8	4/28/2005	21.97	--	--	--	8.63	13.34
HA-8	6/1/2005	21.97	5.55	13.33	0.11	5.66	16.39
HA-8	6/20/2005	18.88	--	--	0.11	6.27	12.69
HA-8	6/29/2005	21.97	7.08	11.80	0.12	7.20	14.86
HA-8	7/20/2005	21.97	7.55	14.42	0.15	7.70	14.38
HA-8	8/22/2005	21.97	7.85	14.12	0.05	7.90	14.11
HA-8	9/12/2005	21.97			Dry		
HA-8	10/12/2005	21.97	9.14	12.83	3.61	9.22	15.46
HA-8	11/21/2005	21.97	7.49	14.48	0.02	7.51	14.48
HA-8	12/27/2005	21.97	5.04	16.93	0.06	5.10	16.92
HA-8	1/30/2006	21.97	2.30	19.67	0.06	2.36	19.66
HA-8	2/16/2006	21.97	4.11	17.86	0.06	4.17	17.85
HA-8	3/13/2006	21.97	4.98	16.99	0.06	5.04	16.98
HA-8	4/18/2006	21.97	--	--	--	5.12	16.85
HA-8	5/12/2006	21.97	--	--	--	5.89	16.08
HA-8	6/5/2006	18.88	--	--	0.06	5.38	13.55
HA-8	6/9/2006	21.97	--	--	--	5.40	16.57
HA-8	7/13/2006	21.97	--	--	--	6.80	15.17
HA-8	8/16/2006	21.97	--	--	--	7.80	14.17
HA-8	9/19/2006	21.97	--	--	--	8.54	13.43
HA-8	10/13/2006	21.97	--	--	--	8.20	13.77
HA-8	10/23/2006	18.88	--	--	0.02	8.26	10.64
HA-8	11/20/2006	21.97	3.85	18.12	0.03	3.88	18.11
HA-8	12/8/2006	21.97	3.65	18.32	0.02	3.67	18.32
HA-8	1/19/2007	21.97	3.22	18.75	0.04	3.24	18.76
HA-8	2/19/2007	21.97	5.28	16.69	0.03	5.31	16.68
HA-8	3/15/2007	21.97	4.18	17.79	0.02	4.20	17.79
HA-8	4/16/2007	21.97	4.88	17.09	0.03	4.91	17.08
HA-8	5/14/2007	21.97	6.60	15.37	0.05	6.65	15.36
HA-8	6/29/2007	21.97	--	--	--	7.72	14.25
HA-8	7/20/2007	21.97	--	--	--	8.13	13.84
HA-8	8/21/2007	21.97	--	--	--	8.88	13.09
HA-8	9/10/2007	21.97	--	--	--	8.98	12.99
HA-8	10/22/2007	21.97	--	--	--	7.83	14.14
HA-8	11/28/2007	21.97	--	--	--	6.72	15.25
HA-8	12/13/2007	21.97	--	--	--	5.80	16.17
HA-8	1/21/2008	21.97	--	--	--	5.76	16.21
HA-8	2/24/2008	21.97	--	--	--	6.29	15.68
HA-8	3/24/2008	21.97	--	--	--	6.41	15.56
HA-8	6/2/2008	21.97	--	--	--	7.64	14.33
HA-8	8/25/2008	21.97	--	--	--	8.34	13.63
HA-8	2/18/2009	21.97			Not Monitored		
HA-8	8/25/2009	21.97			Not Monitored		
HA-8	3/22/2010	21.97	--	--	--	5.80	16.17
HA-8	8/23/2010	21.97	--	--	--	8.13	13.84
HA-8	2/7/2011	21.97	--	--	--	4.94	17.03
HA-8	5/27/2011	21.97			Not Monitored		
HA-8	8/8/2011	21.97	--	--	--	8.00	13.97
HA-8	11/14/2011	21.97	--	--	--	7.72	14.25
HA-8	2/20/2012	21.97	--	--	--	5.13	16.84
HA-8	8/22/2012	21.97	--	--	--	7.73	14.24
HA-8	11/5/2012	21.97	--	--	--	6.80	15.17
HA-8	1/28/2013	21.97	--	--	--	4.90	17.07
HA-8	5/9/2013	21.97	--	--	--	6.08	15.89
HA-8	8/19/2013	21.97	--	--	--	8.50	13.47
HA-8	11/25/2013	21.97	--	--	--	6.29	15.68
HA-8	2/14/2014	21.97	--	--	--	5.35	16.62
HA-8	5/5/2014	21.97	--	--	--	4.43	17.54
HA-8	8/19/2014				Decomissioned Well		
HA-9	1/27/1993	19.40	--	--	--	7.00	12.40
HA-9	3/12/1993	19.40	--	--	--	7.95	11.45
HA-9	4/14/1993	19.40	--	--	--	7.74	11.66
HA-9	12/15/1993	19.40	--	--	--	7.82	11.58
HA-9	11/4/1994	19.40	--	--	--	9.75	9.65
HA-9	2/22/1995	19.40	--	--	--	7.61	11.79
HA-9	6/16/1995	19.40	--	--	--	8.17	11.23
HA-9	10/20/1995	19.40	--	--	--	8.08	11.32
HA-9	4/4/1996	19.40	--	--	--	7.30	12.10
HA-9	4/16/1996	19.40	--	--	--	7.28	12.12

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-9	4/2/1997	19.40	--	--	--	7.76	11.64
HA-9	5/1/1997	19.40	--	--	--	7.78	11.62
HA-9	9/18/1997	19.40	--	--	--	7.95	11.45
HA-9	4/29/1998	19.40	--	--	--	7.99	11.41
HA-9	7/28/1999	19.40	--	--	--	8.23	11.17
HA-9	5/24/2000	19.40	--	--	--	9.25	10.15
HA-9	5/23/2001	19.40	--	--	--	7.92	11.48
HA-9	6/4/2002	19.40	--	--	--	8.01	11.39
HA-9	11/24/2002	21.32	--	--	--	8.20	13.12
HA-9	5/28/2003	19.40	--	--	sheen	8.05	11.35
HA-9	6/17/2004	19.40	--	--	--	8.18	11.22
HA-9	6/20/2005	19.40	--	--	--	7.98	11.42
HA-9	6/5/2006	19.40	--	--	--	7.62	11.78
HA-9	10/23/2006	19.40	--	--	--	8.32	11.08
HA-9	3/14/2007	21.32	--	--	--	6.08	15.24
HA-9	6/29/2007	21.32	--	--	--	7.04	14.28
HA-9	7/20/2007	21.32			Not Monitored		
HA-9	8/21/2007	21.32			Not Monitored		
HA-9	9/10/2007	21.32	--	--	--	7.13	14.19
HA-9	10/22/2007	21.32			Not Monitored		
HA-9	11/28/2007	21.32			Not Monitored		
HA-9	12/13/2007	21.32	--	--	--	6.66	14.66
HA-9	1/21/2008	21.32	--	--	--	6.35	14.97
HA-9	2/24/2008	21.32	--	--	--	6.67	14.65
HA-9	3/24/2008	21.32	--	--	--	6.62	14.70
HA-9	6/2/2008	21.32	--	--	--	6.90	14.42
HA-9	8/25/2008	21.32	--	--	--	7.08	14.24
HA-9	2/18/2009	21.32			Not Monitored		
HA-9	8/25/2009	21.32			Not Monitored		
HA-9	3/22/2010	21.32	--	--	--	6.14	15.18
HA-9	8/23/2010	21.32	--	--	--	7.17	14.15
HA-9	2/7/2011	21.32	--	--	--	6.03	15.29
HA-9	5/27/2011	21.32	--	--	--	7.01	14.31
HA-9	8/8/2011	21.32	--	--	--	7.16	14.16
HA-9	11/14/2011	21.32	--	--	--	6.96	14.36
HA-9	2/20/2012	21.32	--	--	--	6.15	15.17
HA-9	8/22/2012	21.32	--	--	--	7.15	14.17
HA-9	11/5/2012	21.32	--	--	--	6.50	14.82
HA-9	1/28/2013	21.32	--	--	--	4.77	16.55
HA-9	5/9/2013	21.32	--	--	--	6.67	14.65
HA-9	8/19/2013	21.32	--	--	--	7.24	14.08
HA-9	11/25/2013	21.32	--	--	--	6.59	14.73
HA-9	2/14/2014	21.32	DRY				21.32
HA-9	5/5/2014	21.32	--	--	--	5.34	15.98
HA-9	8/19/2014	21.32	--	--	--	7.09	14.23
HA-9	11/21/2014	21.32	--	--	--	6.26	15.06
HA-10	1/27/1993	19.40	--	--	--	6.88	12.52
HA-10	3/12/1993	19.40	--	--	--	8.94	10.46
HA-10	4/14/1993	19.40	--	--	--	8.73	10.67
HA-10	12/15/1993	19.40	--	--	--	8.05	11.35
HA-10	2/22/1995	19.40	--	--	--	8.14	11.26
HA-10	6/16/1995	19.40	--	--	--	9.18	10.22
HA-10	10/20/1995	19.40	--	--	--	7.83	11.57
HA-10	4/4/1996	19.40	--	--	--	7.67	11.73
HA-10	4/16/1996	19.40	--	--	--	7.29	12.11
HA-10	7/15/1996	19.40	--	--	--	9.40	10.00
HA-10	4/2/1997	19.40	--	--	--	8.74	10.66
HA-10	5/1/1997	19.40	--	--	--	8.26	11.14
HA-10	5/23/2001	19.40	--	--	--	8.86	10.54
HA-10	6/6/2002	19.40	--	--	--	9.80	9.60
HA-10	11/24/2002	21.15	--	--	--	8.49	12.66
HA-10	5/27/2003	19.40	--	--	--	9.31	10.09
HA-10	6/17/2004	19.40	--	--	--	9.17	10.23
HA-10	6/21/2005	19.40	--	--	--	8.58	10.82
HA-10	6/5/2006	19.40	--	--	--	7.84	11.56
HA-10	10/23/2006	19.40	--	--	--	9.09	10.31
HA-10	3/14/2007	21.15	--	--	--	6.21	14.94
HA-10	6/29/2007	21.15	--	--	--	7.79	13.36
HA-10	7/20/2007	21.15			Not Monitored		
HA-10	8/21/2007	21.15			Not Monitored		
HA-10	9/10/2007	21.15	--	--	--	8.20	12.95
HA-10	10/22/2007	21.15			Not Monitored		
HA-10	11/28/2007	21.15	--	--	--	7.50	13.65
HA-10	12/13/2007	21.15	--	--	--	7.35	13.80
HA-10	1/21/2008	21.15	--	--	--	6.79	14.36
HA-10	2/24/2008	21.15	--	--	--	6.70	14.45
HA-10	3/24/2008	21.15	--	--	--	7.21	13.94
HA-10	6/2/2008	21.15	--	--	--	7.85	13.30
HA-10	8/25/2008	21.15	--	--	--	6.51	14.64
HA-10	2/18/2009	21.15			Not Monitored		
HA-10	8/25/2009	21.15			Not Monitored		
HA-10	3/22/2010	21.15	--	--	--	6.32	14.83
HA-10	8/23/2010	21.15	--	--	--	7.55	13.60
HA-10	2/7/2011	21.15	--	--	--	7.11	14.04
HA-10	5/27/2011	21.15	--	--	--	6.97	14.18
HA-10	8/8/2011	21.15	--	--	--	8.07	13.08
HA-10	2/20/2012	21.15	--	--	--	6.92	14.23
HA-10	8/22/2012	21.15	--	--	--	8.03	13.12
HA-10	11/5/2012	21.15	--	--	--	5.61	15.54
HA-10	1/28/2013	21.15	--	--	--	5.56	15.59

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-10	5/9/2013	21.15	--	--	--	7.48	13.67
HA-10	8/19/2013	21.15	--	--	--	8.31	12.84
HA-10	11/25/2013	21.15	--	--	--	7.43	13.72
HA-10	2/14/2014	21.15	--	--	--	5.65	15.50
HA-10	5/5/2014	21.15	--	--	--	5.41	15.74
HA-10	8/19/2014	21.15	--	--	--	7.62	13.53
HA-11	1/27/1993	18.51	--	--	--	5.80	12.71
HA-11	3/12/1993	18.51	--	--	--	7.97	10.54
HA-11	4/14/1993	18.51	--	--	--	7.33	11.18
HA-11	12/15/1993	18.51	--	--	--	7.18	11.33
HA-11	11/4/1994	18.51	--	--	--	9.77	8.74
HA-11	2/22/1995	18.51	--	--	--	7.49	11.02
HA-11	6/16/1995	18.51	--	--	--	8.25	10.26
HA-11	10/20/1995	18.51	--	--	--	7.62	10.89
HA-11	4/4/1996	18.51	--	--	--	6.95	11.56
HA-11	4/16/1996	18.51	--	--	--	6.60	11.91
HA-11	4/2/1997	18.51	--	--	--	7.95	10.56
HA-11	5/1/1997	18.51	--	--	--	7.96	10.55
HA-11	4/29/1998	18.51	--	--	--	7.89	10.62
HA-11	7/28/1999	18.51	--	--	--	8.08	10.43
HA-11	5/24/2000	18.51	--	--	--	7.75	10.76
HA-11	5/23/2001	18.51	--	--	--	8.40	10.11
HA-11	6/4/2002	18.51	--	--	--	7.77	10.74
HA-11	11/24/2002	20.69	--	--	--	8.33	12.36
HA-11	5/27/2003	18.51	--	--	--	8.33	10.18
HA-11	6/21/2005	18.51	--	--	--	7.85	10.66
HA-11	6/5/2006	18.51	--	--	--	7.57	10.94
HA-11	10/23/2006	18.51	--	--	--	8.60	9.91
HA-11	3/14/2007	20.69	--	--	--	6.21	14.48
HA-11	6/29/2007	20.69	--	--	--	7.64	13.05
HA-11	7/20/2007	20.69			Not Monitored		
HA-11	8/21/2007	20.69			Not Monitored		
HA-11	9/10/2007	20.69	--	--	--	8.18	12.51
HA-11	10/22/2007	20.69			Not Monitored		
HA-11	11/28/2007	20.69	--	--	--	7.41	13.28
HA-11	12/13/2007	20.69	--	--	--	3.94	16.75
HA-11	1/21/2008	20.69	--	--	--	6.69	14.00
HA-11	2/24/2008	20.69	--	--	--	6.83	13.86
HA-11	3/24/2008	20.69	--	--	--	7.06	13.63
HA-11	6/2/2008	20.69	--	--	--	7.58	13.11
HA-11	8/25/2008	20.69	--	--	--	8.09	12.60
HA-11	2/18/2009	20.69			Not Monitored		
HA-11	8/25/2009	20.69			Not Monitored		
HA-11	3/22/2010	20.69	--	--	--	6.55	14.14
HA-11	8/23/2010	20.69	--	--	--	7.22	13.47
HA-11	2/7/2011	20.69	--	--	--	6.99	13.70
HA-11	5/27/2011	20.69	--	--	--	7.24	13.45
HA-11	8/8/2011	20.69			Dry		
HA-11	11/14/2011	20.69	--	--	--	8.72	11.97
HA-11	2/20/2012	20.69	--	--	--	6.75	13.94
HA-11	8/22/2012	20.69	--	--	--	7.80	12.89
HA-11	11/5/2012	20.69	--	--	--	7.03	13.66
HA-11	1/28/2013	20.69	--	--	--	6.38	14.31
HA-11	5/9/2013	20.69	--	--	--	7.62	13.07
HA-11	8/19/2013	20.69	--	--	--	8.06	12.63
HA-11	11/25/2013	20.69	--	--	--	7.05	13.64
HA-11	2/14/2014	20.69	--	--	--	6.45	14.24
HA-11	5/5/2014	20.69	--	--	--	6.17	14.52
HA-11	8/19/2014	20.69	--	--	--	7.83	12.86
HA-11	11/21/2014	20.69			DRY		
HA-12	1/27/1993	19.91	--	--	--	4.01	15.90
HA-12	3/12/1993	19.91	--	--	--	7.36	12.55
HA-12	4/14/1993	19.91	--	--	--	5.92	13.99
HA-12	12/15/1993	19.91	--	--	--	7.02	12.89
HA-12	11/4/1994	19.91	--	--	--	9.06	10.85
HA-12	2/22/1995	19.91	--	--	--	3.80	16.11
HA-12	6/16/1995	19.91	--	--	--	7.40	12.51
HA-12	10/20/1995	19.91	--	--	--	7.40	12.51
HA-12	4/4/1996	19.91	--	--	--	5.65	14.26
HA-12	4/16/1996	19.91	--	--	--	5.26	14.65
HA-12	5/1/1997	19.91	--	--	--	6.13	13.78
HA-12	8/26/1997	19.91	--	--	--	8.58	11.33
HA-12	9/18/1997	19.91	--	--	--	8.70	11.21
HA-12	5/1/1998	19.91	--	--	--	6.65	13.26
HA-12	7/29/1999	19.91	--	--	--	7.46	12.45
HA-12	5/22/2000	19.91	--	--	--	7.63	12.28
HA-12	5/22/2001	19.91	--	--	--	7.29	12.62
HA-12	6/5/2002	19.91	--	--	--	7.06	12.85
HA-12	11/24/2002	22.47	--	--	--	7.43	15.04
HA-12	5/28/2003	19.91	--	--	--	7.84	12.07
HA-12	6/16/2004	19.91	--	--	--	8.43	11.48
HA-12	6/21/2005	19.91	--	--	--	6.67	13.24
HA-12	6/5/2006	19.91	--	--	--	5.91	14.00
HA-12	10/23/2006	19.91	--	--	--	8.71	11.20
HA-12	3/14/2007	22.47	--	--	--	5.11	17.36
HA-12	6/29/2007	22.47	--	--	--	8.07	14.40
HA-12	7/20/2007	22.47			Not Monitored		
HA-12	8/21/2007	22.47			Not Monitored		
HA-12	9/10/2007	22.47	--	--	--	9.38	13.09

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-12	10/22/2007	22.47			Not Monitored		
HA-12	11/28/2007	22.47	--	--	--	7.50	14.97
HA-12	12/13/2007	22.47			Not Monitored		
HA-12	1/21/2008	22.47	--	--	--	4.09	18.38
HA-12	2/24/2008	22.47	--	--	--	6.81	15.66
HA-12	3/24/2008	22.47	--	--	--	6.87	15.60
HA-12	6/2/2008	22.47	--	--	--	8.14	14.33
HA-12	8/25/2008	22.47	--	--	--	8.67	13.80
HA-12	2/18/2009	22.47			Not Monitored		
HA-12	8/25/2009	22.47	--	--	--	8.67	13.80
HA-12	3/22/2010	22.47	--	--	--	6.00	16.47
HA-12	8/23/2010	22.47			Dry		
HA-12	2/7/2011	22.47	--	--	--	5.46	17.01
HA-12	5/27/2011	22.47	--	--	--	6.34	16.13
HA-12	8/8/2011	22.47	--	--	--	8.39	14.08
HA-12	11/14/2011	22.47	--	--	--	8.05	14.42
HA-12	2/20/2012	22.47	--	--	--	5.20	17.27
HA-12	8/22/2012	22.47	--	--	--	Dry	--
HA-12	11/5/2012	22.47	--	--	--	6.02	16.45
HA-12	1/28/2013	22.47	--	--	--	5.32	17.15
HA-12	5/9/2013	22.47	--	--	--	6.68	15.79
HA-12	8/19/2013	22.47	--	--	--	8.02	14.45
HA-12	11/25/2013	22.47	--	--	--	6.83	15.64
HA-12	2/14/2014	22.47	--	--	--	5.63	16.84
HA-12	5/5/2014	22.47	--	--	--	5.32	17.15
HA-12	8/19/2014	22.47	--	--	--	Dry	--
HA-13	1/27/1993	19.56	--	--	--	5.32	14.24
HA-13	3/12/1993	19.56	--	--	--	8.23	11.33
HA-13	4/14/1993	19.56	--	--	--	7.08	12.48
HA-13	12/15/1993	19.56	--	--	--	6.34	13.22
HA-13	11/4/1994	19.56	--	--	--	8.93	10.63
HA-13	2/22/1995	19.56	--	--	--	4.54	15.02
HA-13	6/16/1995	19.56	--	--	--	8.83	10.73
HA-13	10/20/1995	19.56	--	--	--	8.23	11.33
HA-13	4/4/1996	19.56	--	--	--	7.06	12.50
HA-13	4/16/1996	19.56	--	--	--	7.31	12.25
HA-13	5/1/1997	19.56	--	--	--	7.01	12.55
HA-13	9/18/1997	19.56	--	--	--	6.93	12.63
HA-13	4/30/1998	19.56	--	--	--	8.26	11.30
HA-13	7/28/1999	19.56	--	--	--	8.62	10.94
HA-13	5/22/2000	19.56	--	--	--	8.45	11.11
HA-13	5/22/2001	19.56	--	--	--	8.20	11.36
HA-13	6/4/2002	19.56	--	--	--	8.41	11.15
HA-13	11/24/2002	22.73	--	--	--	8.60	14.13
HA-13	1/17/2003	22.73	--	--	--	6.30	16.43
HA-13	1/31/2003	22.73	--	--	--	4.49	18.24
HA-13	2/7/2003	22.73	--	--	--	6.27	16.46
HA-13	2/12/2003	22.73	--	--	--	6.78	15.95
HA-13	2/18/2003	22.73	--	--	--	7.13	15.60
HA-13	2/21/2003	22.73	--	--	--	6.99	15.74
HA-13	2/24/2003	22.73	--	--	--	6.98	15.75
HA-13	3/4/2003	22.73	--	--	--	7.49	15.24
HA-13	3/12/2003	22.73	--	--	--	6.48	16.25
HA-13	3/14/2003	22.73	--	--	--	5.16	17.57
HA-13	3/26/2003	22.73	--	--	--	5.65	17.08
HA-13	3/28/2003	22.73	--	--	--	6.34	16.39
HA-13	4/2/2003	22.73	--	--	--	6.74	15.99
HA-13	4/4/2003	22.73	--	--	--	7.08	15.65
HA-13	4/8/2003	22.73	--	--	--	7.17	15.56
HA-13	4/11/2003	22.73	--	--	--	7.31	15.42
HA-13	4/15/2003	22.73	--	--	--	6.93	15.80
HA-13	4/17/2003	22.73	--	--	--	7.32	15.41
HA-13	4/22/2003	22.73	--	--	--	7.52	15.21
HA-13	4/25/2003	22.73	--	--	--	7.81	14.92
HA-13	5/2/2003	22.73	--	--	--	8.04	14.69
HA-13	5/6/2003	22.73	--	--	--	8.13	14.60
HA-13	5/9/2003	22.73	--	--	--	8.36	14.37
HA-13	5/23/2003	22.73	--	--	--	8.93	13.80
HA-13	5/27/2003	19.56	--	--	--	8.89	10.67
HA-13	5/28/2003	22.73	--	--	--	8.98	13.75
HA-13	6/13/2003	22.73	--	--	--	6.08	16.65
HA-13	6/18/2003	22.73	--	--	--	9.12	13.61
HA-13	6/27/2003	22.73	--	--	--	9.07	13.66
HA-13	7/7/2003	22.73	--	--	--	9.55	13.18
HA-13	7/16/2003	22.73	--	--	--	9.42	13.31
HA-13	7/31/2003	22.73	--	--	--	9.59	13.14
HA-13	8/5/2003	22.73	--	--	--	9.63	13.10
HA-13	8/11/2003	22.73	--	--	--	10.75	11.98
HA-13	8/22/2003	22.73	--	--	--	11.26	11.47
HA-13	8/26/2003	22.73	--	--	--	9.87	12.86
HA-13	9/2/2003	22.73	--	--	--	10.31	12.42
HA-13	9/9/2003	22.73	--	--	--	10.46	12.27
HA-13	9/19/2003	22.73	--	--	--	10.46	12.27
HA-13	10/14/2003	22.73			Not Monitored		
HA-13	11/20/2003	22.73	--	--	--	5.70	17.03
HA-13	12/3/2003	22.73	--	--	--	5.91	16.82
HA-13	1/19/2004	22.73	--	--	--	5.91	16.82
HA-13	2/24/2004	22.73	--	--	--	6.92	15.81
HA-13	3/15/2004	22.73	--	--	--	7.81	14.92
HA-13	4/19/2004	22.73	--	--	--	8.56	14.17

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-13	5/17/2004	22.73	--	--	--	9.07	13.66
HA-13	6/16/2004	19.56	--	--	--	7.99	11.57
HA-13	6/22/2004	22.73	--	--	--	8.98	13.75
HA-13	8/18/2004	22.73	'--	--	--	9.79	12.94
HA-13	9/21/2004	22.73	--	--	--	8.64	14.09
HA-13	10/19/2004	22.73	--	--	--	8.16	14.57
HA-13	11/23/2004	22.73	--	--	--	8.62	14.11
HA-13	12/21/2004	22.73	--	--	--	6.84	15.89
HA-13	1/13/2005	22.73	--	--	--	7.80	14.93
HA-13	4/28/2005	22.73	--	--	--	7.07	15.66
HA-13	6/1/2005	22.73	--	--	--	7.83	14.90
HA-13	6/21/2005	19.56	--	--	--	8.34	11.22
HA-13	6/29/2005	22.73	--	--	--	8.77	13.96
HA-13	7/20/2005	22.73	--	--	--	9.05	13.68
HA-13	8/22/2005	22.73	--	--	--	9.28	13.45
HA-13	9/12/2005	22.73	--	--	--	9.61	13.12
HA-13	10/12/2005	22.73	--	--	--	9.96	12.77
HA-13	11/21/2005	22.73	--	--	--	7.78	14.95
HA-13	12/27/2005	22.73	--	--	--	5.36	17.37
HA-13	1/30/2006	22.73	--	--	--	3.60	19.13
HA-13	2/16/2006	22.73	--	--	--	6.05	16.68
HA-13	3/13/2006	22.73	--	--	--	7.26	15.47
HA-13	4/18/2006	22.73	--	--	--	7.70	15.03
HA-13	5/12/2006	22.73	--	--	--	8.21	14.52
HA-13	6/5/2006	19.56	--	--	--	7.74	11.82
HA-13	6/9/2006	22.73	--	--	--	7.80	14.93
HA-13	7/13/2006	22.73	--	--	--	8.82	13.91
HA-13	8/16/2006	22.73	--	--	--	9.84	12.89
HA-13	9/19/2006	22.73	--	--	--	9.70	13.03
HA-13	10/13/2006	22.73	--	--	--	9.46	13.27
HA-13	10/23/2006	19.56	--	--	--	9.45	10.11
HA-13	11/20/2006	22.73	--	--	--	4.85	17.88
HA-13	12/8/2006	22.73	--	--	--	5.67	17.06
HA-13	1/19/2007	22.73	--	--	--	5.08	17.65
HA-13	2/19/2007	22.73	--	--	--	7.39	15.34
HA-13	3/14/2007	22.73	--	--	--	6.28	16.45
HA-13	3/15/2007	22.73	--	--	--	6.36	16.37
HA-13	4/16/2007	22.73	--	--	--	7.18	15.55
HA-13	5/14/2007	22.73	--	--	--	8.40	14.33
HA-13	6/29/2007	22.73	--	--	--	9.26	13.47
HA-13	7/20/2007	22.73	--	--	--	9.51	13.22
HA-13	8/21/2007	22.73	--	--	--	9.89	12.84
HA-13	9/10/2007	22.73	--	--	--	9.91	12.82
HA-13	10/22/2007	22.73	--	--	--	8.11	14.62
HA-13	11/28/2007	22.73	--	--	--	8.22	14.51
HA-13	12/13/2007	22.73	6.32	16.41	0.01	6.33	16.41
HA-13	1/21/2008	22.73	--	--	--	6.83	15.90
HA-13	2/24/2008	22.73	--	--	--	7.55	15.18
HA-13	3/24/2008	22.73	--	--	--	7.89	14.84
HA-13	6/2/2008	22.73	--	--	--	9.03	13.70
HA-13	8/25/2008	22.73	--	--	--	9.29	13.44
HA-13	2/18/2009	22.73			Not Monitored		
HA-13	8/25/2009	22.73			Not Monitored		
HA-13	3/22/2010	22.73	--	--	--	7.52	15.21
HA-13	8/23/2010	22.73	--	--	--	9.35	13.38
HA-13	2/7/2011	22.73	--	--	--	6.48	16.25
HA-13	5/27/2011	22.73	--	--	--	7.55	15.18
HA-13	8/8/2011	22.73	--	--	--	9.21	13.52
HA-13	11/14/2011	22.73	--	--	--	8.69	14.04
HA-13	2/20/2012	22.73	--	--	--	5.17	17.56
HA-13	8/22/2012	22.73	--	--	--	9.11	13.62
HA-13	11/5/2012	22.73	--	--	--	4.28	18.45
HA-13	1/28/2013	22.73	--	--	--	6.19	16.54
HA-13	5/9/2013	22.73	--	--	--	7.57	15.16
HA-13	8/19/2013	22.73	--	--	--	9.51	13.22
HA-13	11/25/2013	22.73	--	--	--	7.19	15.54
HA-13	2/14/2014	22.73	--	--	--	5.07	17.66
HA-13	5/5/2014	22.73	--	--	--	4.48	18.25
HA-13	8/19/2014	22.73	--	--	--	9.33	13.40
HA-13	11/21/2014	22.73	--	--	--	7.26	15.47
HA-14	1/27/1993	20.02	--	--	--	6.10	13.92
HA-14	3/12/1993	20.02	--	--	--	8.80	11.22
HA-14	4/14/1993	20.02	--	--	--	7.04	12.98
HA-14	12/15/1993	20.02	--	--	--	8.56	11.46
HA-14	11/4/1994	20.02	--	--	--	8.35	11.67
HA-14	2/22/1995	20.02	--	--	--	5.10	14.92
HA-14	6/16/1995	20.02	--	--	--	9.51	10.51
HA-14	10/20/1995	20.02	--	--	--	8.77	11.25
HA-14	4/4/1996	20.02	--	--	--	7.52	12.50
HA-14	4/16/1996	20.02	--	--	--	6.01	14.01
HA-14	5/1/1997	20.02	--	--	--	6.92	13.10
HA-14	9/18/1997	20.02	--	--	--	8.17	11.85
HA-14	4/30/1998	20.02	--	--	--	9.05	10.97
HA-14	7/29/1999	20.02	--	--	--	9.49	10.53
HA-14	5/22/2000	20.02	--	--	--	9.22	10.80
HA-14	5/22/2001	20.02	--	--	--	9.03	10.99
HA-14	6/4/2002	20.02	--	--	--	8.41	11.61
HA-14	11/24/2002	23.47	--	--	--	9.67	13.80
HA-14	5/27/2003	20.02	--	--	--	9.48	10.54
HA-14	6/16/2004	20.02	--	--	--	9.69	10.33

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-14	9/21/2004	23.47	--	--	--	9.24	14.23
HA-14	6/1/2005	23.47	--	--	--	8.68	14.79
HA-14	6/21/2005	20.02	--	--	--	9.15	10.87
HA-14	6/29/2005	23.47	--	--	--	9.32	14.15
HA-14	7/20/2005	23.47	--	--	--	9.63	13.84
HA-14	8/22/2005	23.47	--	--	--	10.50	12.97
HA-14	9/12/2005	23.47			Not Monitored		
HA-14	10/12/2005	23.47			Not Monitored		
HA-14	11/21/2005	23.47			Not Monitored		
HA-14	12/27/2005	23.47			Not Monitored		
HA-14	1/30/2006	23.47			Not Monitored		
HA-14	2/16/2006	23.47			Not Monitored		
HA-14	3/13/2006	23.47			Not Monitored		
HA-14	4/18/2006	23.47			Not Monitored		
HA-14	5/12/2006	23.47			Not Monitored		
HA-14	6/5/2006	20.02	--	--	--	7.96	12.06
HA-14	6/9/2006	23.47			Not Monitored		
HA-14	7/13/2006	23.47			Not Monitored		
HA-14	8/16/2006	23.47			Not Monitored		
HA-14	9/19/2006	23.47			Not Monitored		
HA-14	10/13/2006	23.47	--	--	--	10.26	13.21
HA-14	10/23/2006	20.02	--	--	--	10.18	9.84
HA-14	11/20/2006	23.47	--	--	--	9.27	14.20
HA-14	12/8/2006	23.47	--	--	--	5.12	18.35
HA-14	1/19/2007	23.47	--	--	--	5.01	18.46
HA-14	2/19/2007	23.47	--	--	--	8.00	15.47
HA-14	3/14/2007	23.47	--	--	--	7.13	16.34
HA-14	3/15/2007	23.47	--	--	--	6.85	16.62
HA-14	4/16/2007	23.47	--	--	--	7.87	15.60
HA-14	5/14/2007	23.47	--	--	--	9.10	14.37
HA-14	6/29/2007	23.47	--	--	--	8.70	14.77
HA-14	7/20/2007	23.47	--	--	--	10.08	13.39
HA-14	8/21/2007	23.47	--	--	--	10.12	13.35
HA-14	9/10/2007	23.47	--	--	--	10.41	13.06
HA-14	10/22/2007	23.47	--	--	--	8.76	14.71
HA-14	11/28/2007	23.47	--	--	--	6.79	16.68
HA-14	12/13/2007	23.47	7.72	15.75	0.07	7.79	15.73
HA-14	1/21/2008	23.47	--	--	--	6.54	16.93
HA-14	2/24/2008	23.47	--	--	--	8.21	15.26
HA-14	3/24/2008	23.47	--	--	--	8.61	14.86
HA-14	6/2/2008	23.47	--	--	--	9.68	13.79
HA-14	8/25/2008	23.47	--	--	--	8.67	14.80
HA-14	2/18/2009	23.47			Not Monitored		
HA-14	8/25/2009	23.47	--	--	--	10.41	13.06
HA-14	3/22/2010	23.47	--	--	--	8.15	15.32
HA-14	8/23/2010	23.47	--	--	--	9.94	13.53
HA-14	2/7/2011	23.47	--	--	--	7.35	16.12
HA-14	5/27/2011	23.47	--	--	--	8.28	15.19
HA-14	8/8/2011	23.47	--	--	--	9.89	13.58
HA-14	11/14/2011	23.47	--	--	--	10.31	13.16
HA-14	2/20/2012	23.47	--	--	--	6.90	16.57
HA-14	8/22/2012	23.47	--	--	--	9.83	13.64
HA-14	11/5/2012	23.47			DRY		
HA-14	1/28/2013	23.47	--	--	--	7.34	16.13
HA-14	5/9/2013	23.47	--	--	--	8.22	15.25
HA-14	8/19/2013	23.47	--	--	--	10.15	13.32
HA-14	11/25/2013	23.47	--	--	--	8.16	15.31
HA-14	2/14/2014	23.47	--	--	--	7.90	15.57
HA-14	5/5/2014	23.47	--	--	--	6.91	16.56
HA-14	8/19/2014	23.47	--	--	--	9.17	14.30
HA-14	11/21/2014	23.47	--	--	--	8.11	15.36
HA-15	1/31/2003	22.87	--	--	--	5.56	17.31
HA-15	2/7/2003	22.87	--	--	--	5.31	17.56
HA-15	2/12/2003	22.87	--	--	--	5.64	17.23
HA-15	2/18/2003	22.87	--	--	--	6.09	16.78
HA-15	2/21/2003	22.87	--	--	--	7.92	14.95
HA-15	2/24/2003	22.87	--	--	--	6.04	16.83
HA-15	3/4/2003	22.87	--	--	--	6.62	16.25
HA-15	3/12/2003	22.87	--	--	--	6.02	16.85
HA-15	3/26/2003	22.87	--	--	--	5.46	17.41
HA-15	3/28/2003	22.87	--	--	--	5.96	16.91
HA-15	4/2/2003	22.87	--	--	--	5.91	16.96
HA-15	4/4/2003	22.87	--	--	--	6.22	16.65
HA-15	4/8/2003	22.87	--	--	--	6.42	16.45
HA-15	4/11/2003	22.87	--	--	--	6.63	16.24
HA-15	4/15/2003	22.87	--	--	--	6.28	16.59
HA-15	4/17/2003	22.87	--	--	--	6.49	16.38
HA-15	4/22/2003	22.87	--	--	--	6.66	16.21
HA-15	4/25/2003	22.87	--	--	--	7.07	15.80
HA-15	5/2/2003	22.87	--	--	--	7.06	15.81
HA-15	5/6/2003	22.87	--	--	--	7.32	15.55
HA-15	5/9/2003	22.87	--	--	--	7.52	15.35
HA-15	5/23/2003	22.87	--	--	--	7.83	15.04
HA-15	5/28/2003	22.87			DRY		
HA-15	6/13/2003	22.87			DRY		
HA-15	6/18/2003	22.87			DRY		
HA-15	6/27/2003	22.87			DRY		
HA-15	7/7/2003	22.87			DRY		
HA-15	7/16/2003	22.87			DRY		
HA-15	7/31/2003	22.87			DRY		

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-15	8/5/2003	22.87			DRY		
HA-15	8/11/2003	22.87			DRY		
HA-15	8/22/2003	22.87			DRY		
HA-15	8/26/2003	22.87			DRY		
HA-15	9/2/2003	22.87			DRY		
HA-15	9/9/2003	22.87			DRY		
HA-15	9/19/2003	22.87			DRY		
HA-15	10/14/2003	22.87			DRY		
HA-15	11/20/2003	22.87			DRY		
HA-15	12/3/2003	22.87	--	--	--	6.08	16.79
HA-15	1/19/2004	22.87	--	--	--	5.49	17.38
HA-15	2/24/2004	22.87	--	--	--	6.32	16.55
HA-15	3/15/2004	22.87	--	--	--	7.32	15.55
HA-15	4/19/2004	22.87	--	--	--	7.80	15.07
HA-15	5/17/2004	22.87			DRY		
HA-15	6/22/2004	22.87			DRY		
HA-15	8/18/2004	22.87			DRY		
HA-15	9/21/2004	22.87			DRY		
HA-15	10/19/2004	22.87			DRY		
HA-15	11/23/2004	22.87			DRY		
HA-15	12/21/2004	22.87	--	--	--	6.03	16.84
HA-15	1/13/2005	22.87	--	--	--	6.73	16.14
HA-15	4/28/2005	22.87	--	--	--	5.93	16.94
HA-15	6/1/2005	22.87	--	--	--	6.06	16.81
HA-15	6/29/2005	22.87	--	--	--	7.53	15.34
HA-15	7/20/2005	22.87			DRY		
HA-15	8/22/2005	22.87			DRY		
HA-15	9/12/2005	22.87			DRY		
HA-15	10/12/2005	22.87			DRY		
HA-15	11/21/2005	22.87	--	--	--	7.65	15.22
HA-15	12/27/2005	22.87	--	--	--	6.63	16.24
HA-15	1/30/2006	22.87	--	--	--	3.40	19.47
HA-15	2/16/2006	22.87	--	--	--	4.91	17.96
HA-15	3/13/2006	22.87	--	--	--	5.88	16.99
HA-15	4/18/2006	22.87	--	--	--	6.29	16.58
HA-15	5/12/2006	22.87	--	--	--	6.67	16.20
HA-15	6/9/2006	22.87	--	--	--	6.26	16.61
HA-15	7/13/2006	22.87	--	--	--	7.40	15.47
HA-15	8/16/2006	22.87			DRY		
HA-15	9/19/2006	22.87			DRY		
HA-15	10/13/2006	22.87			DRY		
HA-15	11/20/2006	22.87	--	--	--	4.87	18.00
HA-15	12/8/2006	22.87	--	--	--	4.53	18.34
HA-15	1/19/2007	22.87	--	--	--	4.21	18.66
HA-15	2/19/2007	22.87	--	--	--	6.55	16.32
HA-15	3/15/2007	22.87	--	--	--	5.30	17.57
HA-15	4/16/2007	22.87	--	--	--	5.83	17.04
HA-15	5/14/2007	22.87	--	--	--	7.30	15.57
HA-15	6/29/2007	22.87	--	--	--	7.83	15.04
HA-15	7/20/2007	22.87			DRY		
HA-15	8/21/2007	22.87	--	--	--	7.85	15.02
HA-15	9/10/2007	22.87			DRY		
HA-15	10/22/2007	22.87			DRY		
HA-15	11/28/2007	22.87	--	--	--	7.62	15.25
HA-15	12/13/2007	22.87	--	--	--	6.53	16.34
HA-15	1/21/2008	22.87	--	--	--	6.46	16.41
HA-15	2/24/2008	22.87	--	--	--	6.95	15.92
HA-15	3/24/2008	22.87	--	--	--	7.24	15.63
HA-15	8/25/2008	22.87			DRY		
HA-15	2/18/2009	22.87	--	--	--	7.35	15.52
HA-15	8/25/2009	22.87			DRY		
HA-15	3/22/2010	22.87	--	--	--	6.26	16.61
HA-15	8/23/2010	22.87			DRY		
HA-15	2/7/2011	22.87	--	--	--	5.90	16.97
HA-15	5/27/2011	22.87			Not Monitored		
HA-15	8/8/2011	22.87	--	--	--	6.30	16.57
HA-15	11/14/2011	22.87			DRY		
HA-15	2/20/2012	22.87	--	--	--	5.41	17.46
HA-15	8/22/2012	22.87	--	--	--	7.81	15.06
HA-15	11/5/2012	22.87	--	--	--	7.84	15.03
HA-15	1/28/2013	22.87	--	--	--	5.26	17.61
HA-15	5/9/2013	22.87	--	--	--	6.58	16.29
HA-15	8/19/2013	22.87	--	--	--	7.84	15.03
HA-15	11/25/2013	22.87	--	--	--	6.68	16.19
HA-15	2/14/2014	22.87	--	--	--	6.23	16.64
HA-15	5/5/2014	22.87	--	--	--	5.20	17.67
HA-15	8/19/2014				Decomissioned Well		
HA-16	12/5/2002	22.07	7.60	14.47	0.05	7.65	14.46
HA-16	12/11/2002	22.07	7.40	14.67	0.68	8.08	14.50
HA-16	12/13/2002	22.07	7.33	14.74	0.96	8.29	14.50
HA-16	12/17/2002	22.07	6.67	15.40	1.54	8.21	15.02
HA-16	1/2/2003	22.07	5.60	16.47	0.22	5.82	16.42
HA-16	1/6/2003	22.07	5.08	16.99	0.02	5.10	16.99
HA-16	1/7/2003	22.07	5.05	17.02	0.02	5.07	17.02
HA-16	1/8/2003	22.07	4.95	17.12	0.03	4.98	17.11
HA-16	1/9/2003	22.07	4.92	17.15	0.02	4.94	17.15
HA-16	1/10/2003	22.07	4.94	17.13	0.02	4.96	17.13
HA-16	1/14/2003	22.07	3.09	18.98	2.03	5.12	18.47
HA-16	1/15/2003	22.07	5.00	17.07	0.05	5.05	17.06
HA-16	1/16/2003	22.07	4.92	17.15	0.04	4.96	17.14

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-16	1/17/2003	22.07	4.95	17.12	0.02	4.97	17.12
HA-16	1/20/2003	22.07	4.98	17.09	0.04	5.02	17.08
HA-16	5/28/2003	22.07	7.35	14.72	0.77	8.12	14.53
HA-16	12/21/2004	22.07	--	--	--	5.23	16.84
HA-16	1/13/2005	22.07	--	--	--	6.10	15.97
HA-16	4/28/2005	22.07	--	--	--	5.40	16.67
HA-16	6/1/2005	22.07	--	--	--	5.66	16.41
HA-16	6/29/2005	22.07	--	--	--	7.14	14.93
HA-16	7/20/2005	22.07	7.77	14.30	0.01	7.78	14.30
HA-16	8/22/2005	22.07	--	--	--	8.00	14.07
HA-16	9/12/2005	22.07	--	--	--	8.58	13.49
HA-16	10/12/2005	22.07	--	--	--	9.29	12.78
HA-16	11/21/2005	22.07	--	--	--	6.99	15.08
HA-16	12/27/2005	22.07	--	--	--	6.14	15.93
HA-16	1/31/2006	22.07	2.75	19.32	0.01	2.76	19.32
HA-16	2/16/2006	22.07	--	--	--	4.26	17.81
HA-16	3/13/2006	22.07	--	--	--	5.25	16.82
HA-16	4/18/2006	22.07	--	--	--	5.71	16.36
HA-16	5/12/2006	22.07	--	--	--	6.10	15.97
HA-16	6/9/2006	22.07	--	--	--	5.75	16.32
HA-16	7/13/2006	22.07	--	--	--	7.00	15.07
HA-16	8/16/2006	22.07	--	--	--	8.00	14.07
HA-16	9/19/2006	22.07	--	--	--	8.60	13.47
HA-16	10/13/2006	22.07	--	--	--	8.36	13.71
HA-16	11/20/2006	22.07	--	--	--	4.42	17.65
HA-16	12/8/2006	22.07	--	--	--	3.96	18.11
HA-16	1/19/2007	22.07	--	--	--	3.66	18.41
HA-16	2/19/2007	22.07	--	--	--	5.84	16.23
HA-16	3/15/2007	22.07	--	--	--	4.60	17.47
HA-16	4/16/2007	22.07	--	--	--	5.13	16.94
HA-16	5/14/2007	22.07	--	--	--	6.70	15.37
HA-16	6/29/2007	22.07	--	--	--	7.91	14.16
HA-16	7/20/2007	22.07	--	--	--	8.37	13.70
HA-16	8/21/2007	22.07	--	--	--	9.05	13.02
HA-16	9/10/2007	22.07	--	--	--	9.11	12.96
HA-16	10/22/2007	22.07	--	--	--	7.95	14.12
HA-16	11/28/2007	22.07	--	--	--	7.20	14.87
HA-16	12/13/2007	22.07	5.77	16.30	0.01	5.78	16.30
HA-16	1/21/2008	22.07	--	--	--	5.75	16.32
HA-16	2/24/2008	22.07	--	--	--	6.32	15.75
HA-16	3/24/2008	22.07	--	--	--	6.65	15.42
HA-16	8/25/2008	22.07	--	--	--	8.60	13.47
HA-16	2/18/2009	22.07	--	--	--	6.64	15.43
HA-16	8/25/2009	22.07	--	--	--	9.87	12.20
HA-16	3/22/2010	22.07	--	--	--	5.53	16.54
HA-16	8/23/2010	22.07	--	--	--	8.08	13.99
HA-16	2/7/2011	22.07	--	--	--	5.18	16.89
HA-16	5/27/2011	22.07	--	--	--	6.08	15.99
HA-16	8/8/2011	22.07	--	--	--	8.15	13.92
HA-16	11/14/2011	22.07	--	--	--	7.85	14.22
HA-16	2/20/2012	22.07	--	--	--	4.61	17.46
HA-16	8/22/2012	22.07	--	--	--	7.85	14.22
HA-16	11/5/2012	22.07	--	--	--	7.17	14.90
HA-16	1/28/2013	22.07	--	--	--	4.73	17.34
HA-16	5/9/2013	22.07	--	--	--	5.89	16.18
HA-16	8/19/2013	22.07	--	--	--	8.64	13.43
HA-16	11/25/2013	22.07	--	--	--	6.10	15.97
HA-16	2/14/2014	22.07	--	--	--	5.54	16.53
HA-16	5/5/2014	22.07	--	--	--	3.94	18.13
HA-16	8/19/2014			Decomissioned Well			
HA-17	8/11/2003	21.92			DRY		
HA-17	3/15/2004	21.92	--	--	--	6.66	15.26
HA-17	9/21/2004	21.92	--	--	--	7.75	14.17
HA-17	12/21/2004	21.92	--	--	--	5.07	16.85
HA-17	1/13/2005	21.92	--	--	--	5.85	16.07
HA-17	4/28/2005	21.92	--	--	--	4.85	17.07
HA-17	6/1/2005	21.92	--	--	--	5.09	16.83
HA-17	6/29/2005	21.92	--	--	--	6.97	14.95
HA-17	7/20/2005	21.92	--	--	--	7.63	14.29
HA-17	8/22/2005	21.92	--	--	--	7.82	14.10
HA-17	9/12/2005	21.92			DRY		
HA-17	10/12/2005	21.92			DRY		
HA-17	11/21/2005	21.92	--	--	--	6.43	15.49
HA-17	12/27/2005	21.92	--	--	--	5.10	16.82
HA-17	1/30/2006	21.92	--	--	--	2.81	19.11
HA-17	2/16/2006	21.92	--	3.68	0.01	3.69	18.24
HA-17	3/13/2006	21.92	--	--	--	4.63	17.29
HA-17	4/18/2006	21.92	--	--	--	5.00	16.92
HA-17	5/12/2006	21.92	--	--	--	5.54	16.38
HA-17	6/9/2006	21.92	--	--	--	4.97	16.95
HA-17	7/13/2006	21.92	--	--	--	9.50	12.42
HA-17	8/16/2006	21.92	--	--	--	7.50	14.42
HA-17	9/19/2006	21.92			DRY		
HA-17	10/13/2006	21.92			DRY		
HA-17	11/20/2006	21.92	--	--	--	4.12	17.80
HA-17	12/8/2006	21.92	--	--	--	3.48	18.44
HA-17	1/19/2007	21.92	--	--	--	3.02	18.90
HA-17	2/19/2007	21.92	--	--	--	5.85	16.07
HA-17	3/15/2007	21.92	--	--	--	3.97	17.95
HA-17	4/16/2007	21.92	--	--	--	4.51	17.41

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-17	5/14/2007	21.92	--	--	--	6.71	15.21
HA-17	6/29/2007	21.92	--	--	--	7.58	14.34
HA-17	7/20/2007	21.92			DRY		
HA-17	8/21/2007	21.92			DRY		
HA-17	9/10/2007	21.92			DRY		
HA-17	10/22/2007	21.82	--	--	--	7.36	14.46
HA-17	11/28/2007	21.82	--	--	--	6.95	14.87
HA-17	12/13/2007	21.82	--	--	--	5.89	15.93
HA-17	1/21/2008	21.82	--	--	--	5.45	16.37
HA-17	2/24/2008	21.82	--	--	--	6.09	15.73
HA-17	3/24/2008	21.82	--	--	--	6.41	15.41
HA-17	8/25/2008	21.82			DRY		
HA-17	2/18/2009	21.82	--	--	--	6.68	15.14
HA-17	8/25/2009	21.82	--	--	--	8.10	13.72
HA-17	3/22/2010	21.82	--	--	--	4.92	16.90
HA-17	8/23/2010	21.82			DRY		
HA-17	2/7/2011	21.82	--	--	--	4.89	16.93
HA-17	5/27/2011	21.82			Not Monitored		
HA-17	8/8/2011	21.82			Dry		
HA-17	11/14/2011	21.82	--	--	--	7.69	14.13
HA-17	2/20/2012	21.82	--	--	--	4.91	16.91
HA-17	8/22/2012	21.82	--	--	--	7.61	14.21
HA-17	11/5/2012	21.82	--	--	--	7.31	14.51
HA-17	1/28/2013	21.82	--	--	--	4.33	17.49
HA-17	5/9/2013	21.82	--	--	--	6.00	15.82
HA-17	8/19/2013	21.82			DRY		
HA-17	11/25/2013	21.82	--	--	--	6.46	15.36
HA-17	2/14/2014	21.82	--	--	--	5.27	16.55
HA-17	5/5/2014	21.82	--	--	--	4.68	17.14
HA-17	8/19/2014				Decomissioned Well		
HA-18	8/11/2003	21.51			DRY		
HA-18	3/15/2004	21.51	6.47	15.04	0.00	6.47	15.04
HA-18	12/21/2004	21.51	--	--	--	4.98	16.53
HA-18	1/13/2005	21.51	--	--	--	5.61	15.90
HA-18	4/28/2005	21.51	--	--	--	4.79	16.72
HA-18	6/1/2005	21.51	--	--	--	5.00	16.51
HA-18	6/29/2005	21.51	--	--	--	6.76	14.75
HA-18	7/20/2005	21.51	--	--	--	7.46	14.05
HA-18	8/22/2005	21.51	--	--	--	7.45	14.06
HA-18	9/12/2005	21.51	--	--	--	7.80	13.71
HA-18	10/12/2005	21.51			DRY		
HA-18	11/21/2005	21.51	--	--	--	7.00	14.51
HA-18	12/27/2005	21.51	--	--	--	5.88	15.63
HA-18	1/30/2006	21.51	--	--	--	2.52	18.99
HA-18	2/16/2006	21.51	--	--	--	3.59	17.92
HA-18	3/13/2006	21.51	--	--	--	4.52	16.99
HA-18	4/18/2006	21.51	--	--	--	5.11	16.40
HA-18	5/12/2006	21.51	--	--	--	5.39	16.12
HA-18	6/9/2006	21.51	--	--	--	5.15	16.36
HA-18	7/13/2006	21.51	--	--	--	6.21	15.30
HA-18	8/16/2006	21.51	--	--	--	7.21	14.30
HA-18	9/19/2006	21.51			DRY		
HA-18	10/13/2006	21.51	--	--	--	7.75	13.76
HA-18	11/20/2006	21.51	--	--	--	4.47	17.04
HA-18	12/8/2006	21.51	--	--	--	3.58	17.93
HA-18	1/19/2007	21.51	--	--	--	3.15	18.36
HA-18	2/19/2007	21.51	--	--	--	5.84	15.67
HA-18	3/15/2007	21.51	--	--	--	4.32	17.19
HA-18	4/16/2007	21.51	--	--	--	4.43	17.08
HA-18	5/14/2007	21.51	--	--	--	6.45	15.06
HA-18	6/29/2007	21.51	--	--	--	7.27	14.24
HA-18	7/20/2007	21.51	--	--	--	7.87	13.64
HA-18	8/21/2007	21.51			DRY		
HA-18	9/10/2007	21.51			DRY		
HA-18	10/22/2007	21.51			DRY		
HA-18	11/28/2007	21.51	--	--	--	6.92	14.59
HA-18	12/13/2007	21.51	--	--	--	5.86	15.65
HA-18	1/21/2008	21.51	--	--	--	5.62	15.89
HA-18	2/24/2008	21.51	--	--	--	4.36	17.15
HA-18	3/24/2008	21.51	--	--	--	6.29	15.22
HA-18	8/25/2008	21.51	--	--	--	8.07	13.44
HA-18	2/18/2009	21.51	--	--	--	6.32	15.19
HA-18	8/25/2009	21.51			DRY		
HA-18	3/22/2010	21.51	--	--	--	4.81	16.70
HA-18	8/23/2010	21.51	--	--	--	7.26	14.25
HA-18	2/7/2011	21.51	--	--	--	4.99	16.52
HA-18	5/27/2011	21.51			Not Monitored		
HA-18	8/8/2011	21.51	--	--	--	7.76	13.75
HA-18	11/14/2011	21.51	--	--	--	7.58	13.93
HA-18	2/20/2012	21.51	--	--	--	5.24	16.27
HA-18	11/5/2012	21.51	--	--	--	7.74	13.77
HA-18	1/28/2013	21.51	--	--	--	4.34	17.17
HA-18	8/19/2013	21.51	--	--	--	8.00	13.51
HA-18	11/25/2013	21.51	--	--	--	6.22	15.29
HA-18	2/14/2014	21.51	--	--	--	5.50	16.01
HA-18	5/5/2014	21.51	--	--	--	4.74	16.77
HA-18	8/19/2014				Decomissioned Well		
HA-19	4/2/2003	22.92	--	--	--	4.61	18.31
HA-19	4/4/2003	22.92	7.10	--	--	7.13	15.79

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-19	4/8/2003	22.92	6.61			6.62	16.31
HA-19	4/11/2003	22.92	5.69	17.23	0.00	5.69	17.23
HA-19	4/15/2003	22.92	--	--	--	4.26	18.66
HA-19	4/17/2003	22.92	--	--	--	5.62	17.30
HA-19	4/22/2003	22.92	7.21	15.71	0.01	7.22	15.71
HA-19	4/25/2003	22.92	7.23	15.69	0.00	7.23	15.69
HA-19	5/2/2003	22.92	--	--	--	7.87	15.05
HA-19	5/6/2003	22.92	--	--	--	7.80	15.12
HA-19	5/9/2003	22.92	--	--	--	8.00	14.92
HA-19	5/23/2003	22.92			DRY		
HA-19	5/28/2003	22.92			DRY		
HA-19	6/13/2003	22.92			DRY		
HA-19	6/18/2003	22.92			DRY		
HA-19	6/27/2003	22.92			DRY		
HA-19	7/7/2003	22.92			DRY		
HA-19	7/16/2003	22.92			DRY		
HA-19	7/31/2003	22.92			DRY		
HA-19	8/5/2003	22.92			DRY		
HA-19	8/11/2003	22.92			DRY		
HA-19	8/22/2003	22.92			DRY		
HA-19	8/26/2003	22.92			DRY		
HA-19	9/2/2003	22.92			DRY		
HA-19	9/9/2003	22.92			DRY		
HA-19	9/19/2003	22.92			DRY		
HA-19	10/14/2003	22.92			DRY		
HA-19	11/20/2003	22.92	--	--	--	4.74	18.18
HA-19	12/3/2003	22.92	--	--	--	5.35	17.57
HA-19	1/19/2004	22.92	5.51	17.41	0.005	5.52	17.41
HA-19	2/24/2004	22.92	7.18	15.74	0.005	7.19	15.74
HA-19	3/15/2004	22.92	--	--	--	7.94	14.98
HA-19	4/19/2004	22.92	--	--	--	8.01	14.91
HA-19	5/17/2004	22.92			DRY		
HA-19	6/22/2004	22.92			DRY		
HA-19	8/18/2004	22.92			DRY		
HA-19	9/21/2004	22.92	--	--	--	6.85	16.07
HA-19	10/19/2004	22.92	--	--	--	4.21	18.71
HA-19	11/23/2004	22.92			DRY		
HA-19	12/21/2004	22.92	--	--	--	5.13	17.79
HA-19	1/13/2005	22.92	--	--	--	7.35	15.57
HA-19	4/28/2005	22.92	--	--	--	6.97	15.95
HA-19	6/1/2005	22.92	--	--	--	7.39	15.53
HA-19	6/29/2005	22.92			DRY		
HA-19	7/20/2005	22.92			DRY		
HA-19	8/22/2005	22.92			DRY		
HA-19	9/12/2005	22.92			DRY		
HA-19	10/12/2005	22.92			DRY		
HA-19	11/21/2005	22.92	--	--	--	8.81	14.11
HA-19	12/27/2005	22.92	--	--	--	4.17	18.75
HA-19	1/30/2006	22.92	--	--	--	4.14	18.78
HA-19	2/16/2006	22.92	--	--	--	6.13	16.79
HA-19	3/13/2006	22.92	--	--	--	7.16	15.76
HA-19	4/18/2006	22.92	--	--	--	6.68	16.24
HA-19	5/12/2006	22.92	--	--	--	7.79	15.13
HA-19	6/9/2006	22.92	--	--	--	7.33	15.59
HA-19	7/13/2006	22.92	--	--	--	8.00	14.92
HA-19	8/16/2006	22.92			DRY		
HA-19	9/19/2006	22.92			DRY		
HA-19	10/16/2006	22.92			DRY		
HA-19	11/20/2006	22.92	--	--	--	4.40	18.52
HA-19	12/8/2006	22.92	--	--	--	5.54	17.38
HA-19	1/19/2007	22.92	--	--	--	5.20	17.72
HA-19	2/19/2007	22.92	--	--	--	7.20	15.72
HA-19	3/15/2007	22.92	--	--	--	6.09	16.83
HA-19	4/16/2007	22.92	--	--	--	6.99	15.93
HA-19	5/14/2007	22.92			DRY		
HA-19	6/29/2007	22.92			DRY		
HA-19	7/20/2007	22.92			DRY		
HA-19	8/21/2007	22.92			DRY		
HA-19	9/10/2007	22.92			DRY		
HA-19	10/22/2007	22.92	--	--	--	3.99	18.93
HA-19	11/28/2007	22.92	--	--	--	5.71	17.21
HA-19	12/13/2007	22.92	--	--	--	4.60	18.32
HA-19	1/21/2008	22.92	--	--	--	6.37	16.55
HA-19	2/24/2008	22.92	--	--	--	7.41	15.51
HA-19	3/24/2008	22.92	--	--	--	4.37	18.55
HA-19	8/25/2008	22.92	--	--	--	6.02	16.90
HA-19	2/18/2009	22.92	--	--	--	7.75	15.17
HA-19	8/25/2009	22.92			DRY		
HA-19	3/22/2010	22.92	--	--	--	7.48	15.44
HA-19	8/23/2010	22.92			DRY		
HA-19	2/7/2011	22.92	--	--	--	6.55	16.37
HA-19	2/7/2011	22.92	--	--	--	7.10	15.82
HA-19	8/8/2011	22.92			Dry		
HA-19	11/14/2011	22.92	--	--	--	7.23	15.69
HA-19	2/20/2012	22.92	--	--	--	5.58	17.34
HA-19	8/22/2012	22.92	--	--	--	Dry	--
HA-19	11/5/2012	22.92	--	--	--	4.92	18.00
HA-19	1/28/2013	22.92	--	--	--	6.46	16.46
HA-19	5/9/2013	22.92	--	--	--	7.34	15.58
HA-19	8/19/2013	22.92			DRY		
HA-19	11/25/2013	22.92	--	--	--	6.12	16.80

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-19	2/14/2014	22.92	--	--	--	3.67	19.25
HA-19	5/5/2014	22.92	--	--	--	4.51	18.41
HA-19	8/19/2014	22.92			DRY		
HA-19	11/21/2014	22.92	--	--	--	7.03	15.89
HA-20	11/24/2002	23.10	--	--	--	7.49	15.61
HA-20	11/27/2002	23.10	6.46	16.64	3.51	9.97	15.76
HA-20	12/5/2002	23.10	6.25	16.85	3.57	9.82	15.96
HA-20	12/11/2002	23.10	6.25	16.85	3.48	9.73	15.98
HA-20	12/13/2002	23.10	6.12	16.98	3.55	9.67	16.09
HA-20	12/17/2002	23.10	5.29	17.81	4.20	9.49	16.76
HA-20	1/3/2003	23.10	3.26	19.84	4.39	7.65	18.74
HA-20	1/6/2003	23.10	3.83	19.27	3.10	6.93	18.50
HA-20	1/7/2003	23.10	4.45	18.65	1.16	5.61	18.36
HA-20	1/8/2003	23.10	4.22	18.88	1.57	5.79	18.49
HA-20	1/9/2003	23.10	3.97	19.13	3.11	7.08	18.35
HA-20	1/10/2003	23.10	4.04	19.06	3.24	7.28	18.25
HA-20	1/13/2003	23.10	4.75	18.35	0.92	5.67	18.12
HA-20	1/14/2003	23.10	4.15	18.95	3.47	7.62	18.08
HA-20	1/15/2003	23.10	4.05	19.05	3.10	7.15	18.28
HA-20	1/16/2003	23.10	4.15	18.95	2.90	7.05	18.23
HA-20	1/17/2003	23.10	4.18	18.92	2.82	7.00	18.22
HA-20	1/20/2003	23.10	4.15	18.95	3.09	7.24	18.18
HA-20	1/22/2003	23.10	3.30	19.80	6.50	9.80	18.18
HA-20	1/23/2003	23.10	4.80	18.30	3.78	8.58	17.36
HA-20	1/24/2003	23.10	4.55	18.55	3.66	8.21	17.64
HA-20	1/27/2003	23.10	3.68	19.42	2.96	6.64	18.68
HA-20	1/28/2003	23.10	3.82	19.28	3.68	7.50	18.36
HA-20	1/29/2003	23.10	4.05	19.05	4.44	8.49	17.94
HA-20	1/30/2003	23.10	4.26	18.84	4.06	8.32	17.83
HA-20	2/3/2003	23.10	4.33	18.77	3.17	7.50	17.98
HA-20	2/6/2003	23.10	4.59	18.51	1.80	6.39	18.06
HA-20	2/11/2003	23.10	6.18	16.92	2.39	8.57	16.32
HA-20	2/18/2003	23.10	7.40	15.70	0.88	8.28	15.48
HA-20	2/21/2003	23.10	7.34	15.76	0.73	8.07	15.58
HA-20	2/26/2003	23.10	6.09	17.01	0.11	6.20	16.98
HA-20	3/4/2003	23.10	7.47	15.63	1.87	9.34	15.16
HA-20	3/12/2003	23.10	7.05	16.05	2.63	9.68	15.39
HA-20	3/14/2003	23.10	7.14	15.96	2.27	9.41	15.39
HA-20	3/26/2003	23.10	5.64	17.46	3.93	9.57	16.48
HA-20	3/28/2003	23.10	6.91	16.19	2.50	9.41	15.57
HA-20	4/2/2003	23.10	6.47	16.63	2.65	9.12	15.97
HA-20	4/4/2003	23.10	7.01	16.09	2.13	9.14	15.56
HA-20	4/8/2003	23.10	7.16	15.94	1.49	8.65	15.57
HA-20	4/11/2003	23.10	7.21	15.89	1.66	8.87	15.48
HA-20	4/15/2003	23.10	6.91	16.19	0.40	7.31	16.09
HA-20	4/17/2003	23.10	7.71	15.39	1.00	8.71	15.14
HA-20	4/22/2003	23.10	7.28	15.82	1.39	8.67	15.47
HA-20	4/25/2003	23.10	7.72	15.38	1.24	8.96	15.07
HA-20	5/2/2003	23.10	7.46	15.64	2.41	9.87	15.04
HA-20	5/6/2003	23.10	7.38	15.72	2.49	9.87	15.10
HA-20	5/9/2003	23.10	8.05	15.05	1.95	10.00	14.56
HA-20	5/23/2003	23.10	8.69	14.41	1.76	10.45	13.97
HA-20	5/28/2003	23.10	8.50	14.60	1.49	9.99	14.23
HA-20	6/13/2003	23.10	8.75	14.35	1.46	10.21	13.99
HA-20	6/18/2003	23.10	8.68	14.42	1.57	10.25	14.03
HA-20	6/27/2003	23.10	8.70	14.40	1.64	10.34	13.99
HA-20	7/7/2003	23.10	9.64	13.46	0.73	10.37	13.28
HA-20	7/16/2003	23.10	9.11	13.99	1.43	10.54	13.63
HA-20	7/31/2003	23.10	9.40	13.70	1.48	10.88	13.33
HA-20	8/5/2003	23.10	9.50	13.60	1.25	10.75	13.29
HA-20	8/11/2003	23.10	10.65	12.45	1.37	12.02	12.11
HA-20	8/22/2003	23.10	10.91	12.19	1.29	12.20	11.87
HA-20	8/26/2003	23.10	--	--	--	9.81	13.29
HA-20	9/2/2003	23.10	9.94	13.16	1.33	11.27	12.83
HA-20	9/9/2003	23.10	10.40	12.70	0.36	10.76	12.61
HA-20	9/19/2003	23.10	10.38	12.72	0.24	10.62	12.66
HA-20	10/14/2003	23.10	10.26	12.84	0.75	11.01	12.65
HA-20	11/20/2003	23.10	--	--	--	7.20	15.90
HA-20	12/3/2003	23.10	--	--	--	6.21	16.89
HA-20	1/19/2004	23.10	--	--	--	5.84	17.26
HA-20	2/24/2004	23.10	--	--	--	7.46	15.64
HA-20	3/15/2004	23.10	--	--	--	8.44	14.66
HA-20	4/19/2004	23.10	--	--	--	8.51	14.59
HA-20	5/17/2004	23.10	--	--	--	8.99	14.11
HA-20	6/22/2004	23.10	--	--	--	8.83	14.27
HA-20	8/18/2004	23.10	--	--	--	10.02	13.08
HA-20	9/21/2004	23.10	--	--	--	9.03	14.07
HA-20	10/19/2004	23.10	--	--	--	8.17	14.93
HA-20	11/23/2004	23.10	--	--	--	8.44	14.66
HA-20	12/21/2004	23.10	--	--	--	6.50	16.60
HA-20	1/13/2005	23.10	--	--	--	7.35	15.75
HA-20	4/28/2005	23.10	--	--	--	6.80	16.30
HA-20	6/1/2005	23.10	--	--	--	7.10	16.00
HA-20	6/29/2005	23.10	--	--	--	9.72	13.38
HA-20	7/20/2005	23.10	--	--	--	9.92	13.18
HA-20	8/22/2005	23.10	--	--	--	9.10	14.00
HA-20	9/12/2005	23.10	--	--	--	9.73	13.37
HA-20	10/12/2005	23.10	--	--	--	10.26	12.84
HA-20	11/21/2005	23.10	--	--	--	8.09	15.01
HA-20	12/27/2005	23.10	--	--	--	7.20	15.90

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HA-20	1/30/2006	23.10	--	--	--	4.50	18.60
HA-20	2/16/2006	23.10	6.23	16.87	0.01	6.24	16.87
HA-20	3/13/2006	23.10	--	--	--	7.14	15.96
HA-20	4/18/2006	23.10	--	--	--	7.40	15.70
HA-20	5/12/2006	23.10	--	--	--	7.69	15.41
HA-20	6/9/2006	23.10	--	--	--	7.38	15.72
HA-20	7/13/2006	23.10	--	--	--	8.37	14.73
HA-20	8/16/2006	23.10	--	--	--	9.13	13.97
HA-20	9/19/2006	23.10	--	--	--	9.75	13.35
HA-20	10/16/2006	23.10	--	--	--	9.55	13.55
HA-20	11/20/2006	23.10	--	--	--	5.70	17.40
HA-20	12/8/2006	23.10	--	--	--	5.71	17.39
HA-20	1/19/2007	23.10	--	--	--	5.42	17.68
HA-20	2/19/2007	23.10	--	--	--	7.20	15.90
HA-20	3/15/2007	23.10	--	--	--	6.37	16.73
HA-20	4/16/2007	23.10	--	--	--	6.78	16.32
HA-20	5/14/2007	23.10	--	--	--	8.00	15.10
HA-20	6/29/2007	23.10	--	--	--	9.11	13.99
HA-20	7/20/2007	23.10	--	--	--	9.46	13.64
HA-20	8/21/2007	23.10	--	--	--	10.09	13.01
HA-20	9/10/2007	23.10	--	--	--	10.13	12.97
HA-20	10/22/2007	23.10	--	--	--	9.04	14.06
HA-20	11/28/2007	23.10	--	--	--	8.30	14.80
HA-20	12/13/2007	23.10	--	--	--	7.10	16.00
HA-20	1/21/2008	23.10	--	--	--	7.31	15.79
HA-20	2/24/2008	23.10	--	--	--	7.83	15.27
HA-20	3/24/2008	23.10	--	--	--	8.08	15.02
HA-20	8/25/2008	23.10	--	--	--	8.34	14.76
HA-20	2/18/2009	23.10	--	--	--	7.90	15.20
HA-20	8/25/2009	23.10	--	--	--	10.30	12.80
HA-20	3/22/2010	23.10	--	--	--	8.07	15.03
HA-20	8/23/2010	23.10	--	--	--	9.67	13.43
HA-20	2/7/2011	23.10	--	--	--	0.07	23.03
HA-20	5/27/2011	23.10	--	--	--	7.96	15.14
HA-20	8/8/2011	23.10	--	--	--	9.32	13.78
HA-20	11/14/2011	23.10	--	--	--	9.06	14.04
HA-20	2/20/2012	23.10	--	--	--	7.15	15.95
HA-20	8/22/2012	23.10	--	--	--	9.08	14.02
HA-20	11/5/2012	23.10	--	--	--	8.09	15.01
HA-20	1/28/2013	23.10	--	--	--	6.49	16.61
HA-20	5/9/2013	23.10	--	--	--	7.48	15.62
HA-20	8/19/2013	23.10	--	--	--	9.72	13.38
HA-20	11/25/2013	23.10	--	--	--	8.03	15.07
HA-20	2/14/2014	23.10	--	--	--	7.49	15.61
HA-20	5/5/2014	23.10	--	--	--	6.49	16.61
HA-20	8/19/2014			Decomissioned Well			
LAI-1	1/17/2003	20.94	--	--	--	4.17	16.77
LAI-1	1/20/2003	20.94	--	--	--	4.18	16.76
LAI-1	1/31/2003	20.94	--	--	--	4.28	16.66
LAI-1	2/7/2003	20.94	4.06	16.88	0.48	4.54	16.76
LAI-1	2/12/2003	20.94	4.38	16.56	1.08	5.46	16.29
LAI-1	2/18/2003	20.94	--	--	--	5.40	15.54
LAI-1	2/21/2003	20.94	--	--	--	5.52	15.42
LAI-1	2/24/2003	20.94	--	--	--	5.96	14.98
LAI-1	3/3/2003	20.94	--	--	--	5.76	15.18
LAI-1	3/12/2003	20.94	--	--	--	5.48	15.46
LAI-1	3/14/2003	20.94	--	--	--	5.09	15.85
LAI-1	3/26/2003	20.94	--	--	--	4.76	16.18
LAI-1	3/28/2003	20.94	--	--	--	4.86	16.08
LAI-1	4/2/2003	20.94	5.21	15.73	0.01	5.22	15.73
LAI-1	4/4/2003	20.94	5.19	15.75	0.01	5.20	15.75
LAI-1	4/8/2003	20.94	5.67	15.27	0.01	5.68	15.27
LAI-1	4/11/2003	20.94	5.07	15.87	0.01	5.08	15.87
LAI-1	4/15/2003	20.94	4.62	16.32	0.01	4.63	16.32
LAI-1	4/17/2003	20.94	6.14	14.80	0.01	6.15	14.80
LAI-1	4/22/2003	20.94	--	--	--	5.21	15.73
LAI-1	4/25/2003	20.94	--	--	--	5.43	15.51
LAI-1	5/2/2003	20.94	--	--	--	5.53	15.41
LAI-1	5/6/2003	20.94	--	--	--	5.66	15.28
LAI-1	5/9/2003	20.94	--	--	--	6.15	14.79
LAI-1	5/16/2003	20.94	--	--	--	6.40	14.54
LAI-1	5/23/2003	20.94	6.50	14.44	0.01	6.51	14.44
LAI-1	5/28/2003	20.94	6.45	14.49	0.01	6.46	14.49
LAI-1	6/13/2003	20.94	6.79	14.15	0.01	6.80	14.15
LAI-1	6/18/2003	20.94	--	--	--	6.78	14.16
LAI-1	6/27/2003	20.94	--	--	--	6.81	14.13
LAI-1	7/7/2003	20.94	--	--	--	7.41	13.53
LAI-1	7/16/2003	20.94	--	--	--	6.43	14.51
LAI-1	7/31/2003	20.94	--	--	--	7.49	13.45
LAI-1	8/5/2003	20.94	--	--	--	7.61	13.33
LAI-1	8/11/2003	20.94	--	--	--	8.80	12.14
LAI-1	8/22/2003	20.94	--	--	--	8.98	11.96
LAI-1	8/26/2003	20.94	--	--	--	7.91	13.03
LAI-1	9/2/2003	20.94	--	--	--	8.07	12.87
LAI-1	9/9/2003	20.94	8.39	12.55	0.01	8.40	12.55
LAI-1	9/19/2003	20.94	--	--	--	8.27	12.67
LAI-1	10/14/2003	20.94	--	--	--	8.34	12.60
LAI-1	11/20/2003	20.94	--	--	--	4.63	16.31
LAI-1	12/3/2003	20.94	--	--	--	4.10	16.84
LAI-1	1/19/2004	20.94	--	--	--	3.82	17.12

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAI-1	2/24/2004	20.94	--	--	--	5.22	15.72
LAI-1	3/15/2004	20.94	--	--	--	6.16	14.78
LAI-1	4/19/2004	20.94	--	--	--	6.29	14.65
LAI-1	5/17/2004	20.94	--	--	--	6.81	14.13
LAI-1	6/22/2004	20.94	--	--	--	6.64	14.30
LAI-1	8/18/2004	20.94	--	--	--	7.81	13.13
LAI-1	9/21/2004	20.94	--	--	--	6.90	14.04
LAI-1	10/19/2004	20.94	--	--	--	6.00	14.94
LAI-1	11/23/2004	20.94	--	--	--	6.25	14.69
LAI-1	12/21/2004	20.94	--	--	--	4.38	16.56
LAI-1	1/13/2005	20.94	--	--	--	5.22	15.72
LAI-1	4/28/2005	20.94	--	--	--	4.72	16.22
LAI-1	6/1/2005	20.94	--	--	--	4.98	15.96
LAI-1	6/29/2005	20.94	--	--	--	6.59	14.35
LAI-1	7/20/2005	20.94	--	--	--	6.77	14.17
LAI-1	8/22/2005	20.94	--	--	--	6.95	13.99
LAI-1	9/12/2005	20.94	--	--	--	7.50	13.44
LAI-1	10/12/2005	20.94	--	--	--	8.04	12.90
LAI-1	11/21/2005	20.94	--	--	--	5.89	15.05
LAI-1	12/27/2005	20.94	--	--	--	4.99	15.95
LAI-1	1/30/2006	20.94	--	--	--	2.50	18.44
LAI-1	2/16/2006	20.94	--	--	--	4.27	16.67
LAI-1	3/13/2006	20.94	--	--	--	5.07	15.87
LAI-1	4/18/2006	20.94	--	--	--	5.25	15.69
LAI-1	5/12/2006	20.94	--	--	--	5.52	15.42
LAI-1	6/9/2006	20.94	--	--	--	5.23	15.71
LAI-1	7/13/2006	20.94	--	--	--	6.20	14.74
LAI-1	8/16/2006	20.94	--	--	--	7.00	13.94
LAI-1	9/19/2006	20.94	--	--	--	7.54	13.40
LAI-1	10/13/2006	20.94	--	--	--	7.33	13.61
LAI-1	11/20/2006	20.94	--	--	--	3.62	17.32
LAI-1	12/8/2006	20.94	--	--	--	3.70	17.24
LAI-1	1/19/2007	20.94	--	--	--	3.57	17.37
LAI-1	2/19/2007	20.94	--	--	--	5.05	15.89
LAI-1	3/15/2007	20.94	--	--	--	4.50	16.44
LAI-1	4/16/2007	20.94	--	--	--	4.75	16.19
LAI-1	5/14/2007	20.94	--	--	--	4.82	16.12
LAI-1	6/29/2007	20.94	--	--	--	6.92	14.02
LAI-1	7/20/2007	20.94	--	--	--	7.22	13.72
LAI-1	8/21/2007	20.94	--	--	--	7.88	13.06
LAI-1	9/10/2007	20.94	--	--	--	7.91	13.03
LAI-1	10/22/2007	20.94	--	--	--	6.84	14.10
LAI-1	11/28/2007	20.94	--	--	--	6.11	14.83
LAI-1	12/13/2007	20.94	--	--	--	4.96	15.98
LAI-1	1/21/2008	20.94	--	--	--	5.19	15.75
LAI-1	2/24/2008	20.94	--	--	--	5.66	15.28
LAI-1	3/24/2008	20.94	--	--	--	5.90	15.04
LAI-1	8/25/2008	20.94	--	--	--	7.45	13.49
LAI-1	2/18/2009	20.94	--	--	--	5.89	15.05
LAI-1	8/25/2009	20.94	--	--	--	8.10	12.84
LAI-1	3/22/2010	20.94	--	--	--	6.10	14.84
LAI-1	8/23/2010	20.94	--	--	--	7.52	13.42
LAI-1	2/7/2011	20.94	--	--	--	4.78	16.16
LAI-1	5/27/2011	20.94			Not Monitored		
LAI-1	8/8/2011	20.94	--	--	--	7.13	13.81
LAI-1	11/14/2011	20.94	--	--	--	8.50	12.44
LAI-1	2/20/2012	20.94	--	--	--	5.47	15.47
LAI-1	8/22/2012	20.94	--	--	--	6.91	14.03
LAI-1	11/5/2012	20.94	--	--	--	5.84	15.10
LAI-1	1/28/2013	20.94	--	--	--	4.59	16.35
LAI-1	5/9/2013	20.94	--	--	--	5.57	15.37
LAI-1	8/19/2013	20.94	--	--	--	7.55	13.39
LAI-1	11/25/2013	20.94	--	--	--	6.08	14.86
LAI-1	2/14/2014	20.94	--	--	--	5.62	15.32
LAI-1	5/5/2014	20.94	--	--	--	4.68	16.26
LAI-1	8/19/2014	20.94	--	--	--	7.33	13.61
LAI-1	11/21/2014	20.94	--	--	--	4.87	16.07
LAI-2	1/17/2003	20.89	--	--	--	4.14	16.75
LAI-2	1/20/2003	20.89	--	--	--	4.25	16.64
LAI-2	1/31/2003	20.89	--	--	--	4.55	16.34
LAI-2	2/7/2003	20.89	--	--	--	4.41	16.48
LAI-2	2/12/2003	20.89	--	--	--	4.71	16.18
LAI-2	2/18/2003	20.89	--	--	--	5.44	15.45
LAI-2	2/21/2003	20.89	--	--	--	5.61	15.28
LAI-2	2/24/2003	20.89	--	--	--	5.89	15.00
LAI-2	3/3/2003	20.89	--	--	--	5.17	15.72
LAI-2	3/12/2003	20.89	--	--	--	5.37	15.52
LAI-2	3/14/2003	20.89	--	--	--	5.24	15.65
LAI-2	3/26/2003	20.89	--	--	--	4.61	16.28
LAI-2	3/28/2003	20.89	--	--	--	4.72	16.17
LAI-2	4/2/2003	20.89	--	--	--	5.51	15.38
LAI-2	4/4/2003	20.89	--	--	--	5.48	15.41
LAI-2	4/8/2003	20.89	--	--	--	5.55	15.34
LAI-2	4/11/2003	20.89	--	--	--	5.19	15.70
LAI-2	4/15/2003	20.89	--	--	--	4.80	16.09
LAI-2	4/17/2003	20.89	--	--	--	5.96	14.93
LAI-2	4/22/2003	20.89	--	--	--	5.33	15.56
LAI-2	4/25/2003	20.89	--	--	--	5.49	15.40
LAI-2	5/2/2003	20.89	--	--	--	5.78	15.11
LAI-2	5/6/2003	20.89	--	--	--	5.42	15.47

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAI-2	5/9/2003	20.89	--	--	--	6.30	14.59
LAI-2	5/16/2003	20.89	--	--	--	6.54	14.35
LAI-2	5/23/2003	20.89	--	--	--	6.63	14.26
LAI-2	5/28/2003	20.89	--	--	--	6.51	14.38
LAI-2	6/13/2003	20.89	--	--	--	6.91	13.98
LAI-2	6/18/2003	20.89	--	--	--	6.86	14.03
LAI-2	6/27/2003	20.89	--	--	--	6.87	14.02
LAI-2	7/7/2003	20.89	--	--	--	7.40	13.49
LAI-2	7/16/2003	20.89	--	--	--	6.52	14.37
LAI-2	7/31/2003	20.89	--	--	--	7.48	13.41
LAI-2	8/5/2003	20.89	--	--	--	7.56	13.33
LAI-2	8/11/2003	20.89	--	--	--	8.81	12.08
LAI-2	8/22/2003	20.89	--	--	--	8.99	11.90
LAI-2	8/26/2003	20.89	--	--	--	7.86	13.03
LAI-2	9/2/2003	20.89	8.03	12.86	0.01	8.04	12.86
LAI-2	9/9/2003	20.89	--	--	--	8.46	12.43
LAI-2	9/19/2003	20.89	--	--	--	8.15	12.74
LAI-2	10/14/2003	20.89	--	--	--	8.25	12.64
LAI-2	11/20/2003	20.89	--	--	--	4.82	16.07
LAI-2	12/3/2003	20.89	--	--	--	4.13	16.76
LAI-2	1/19/2004	20.89	--	--	--	3.80	17.09
LAI-2	2/24/2004	20.89	--	--	--	5.26	15.63
LAI-2	3/15/2004	20.89	--	--	--	6.21	14.68
LAI-2	4/19/2004	20.89	--	--	--	6.31	14.58
LAI-2	5/17/2004	20.89	--	--	--	6.75	14.14
LAI-2	6/22/2004	20.89	--	--	--	6.61	14.28
LAI-2	8/18/2004	20.89	--	--	--	7.82	13.07
LAI-2	9/21/2004	20.89	--	--	--	6.81	14.08
LAI-2	10/19/2004	20.89	--	--	--	5.96	14.93
LAI-2	11/23/2004	20.89	--	--	--	6.34	14.55
LAI-2	12/21/2004	20.89	--	--	--	4.35	16.54
LAI-2	1/13/2005	20.89	--	--	--	5.15	15.74
LAI-2	4/28/2005	20.89	--	--	--	4.68	16.21
LAI-2	6/1/2005	20.89	--	--	--	4.95	15.94
LAI-2	6/29/2005	20.89	--	--	--	6.69	14.20
LAI-2	7/20/2005	20.89	--	--	--	6.80	14.09
LAI-2	8/22/2005	20.89	--	--	--	6.93	13.96
LAIx-2	9/12/2005	20.67	--	--	--	10.23	10.44
LAIx-2	10/12/2005	20.67	--	--	--	9.91	10.76
LAIx-2	11/21/2005	20.67	--	--	--	8.23	12.44
LAIx-2	12/27/2005	20.67	--	--	--	6.92	13.75
LAIx-2	1/30/2006	20.67	--	--	--	5.34	15.33
LAIx-2	2/16/2006	20.67	7.39	13.28	0.01	7.40	13.28
LAIx-2	3/13/2006	20.67	--	--	--	7.71	12.96
LAIx-2	4/18/2006	20.67	--	--	--	7.89	12.78
LAIx-2	5/12/2006	20.67	--	--	--	8.83	11.84
LAIx-2	6/9/2006	20.67	--	--	--	8.16	12.51
LAIx-2	7/13/2006	20.67	--	--	--	9.43	11.24
LAIx-2	8/16/2006	20.67	--	--	--	10.17	10.50
LAIx-2	9/19/2006	20.67	--	--	--	9.65	11.02
LAIx-2	10/13/2006	20.67	--	--	--	9.62	11.05
LAIx-2	11/20/2006	20.67	--	--	--	5.33	15.34
LAIx-2	12/8/2006	20.67	--	--	--	6.14	14.53
LAIx-2	1/19/2007	20.67	--	--	--	5.75	14.92
LAIx-2	2/19/2007	20.67	--	--	--	7.51	13.16
LAIx-2	3/15/2007	20.67	--	--	--	6.50	14.17
LAIx-2	4/16/2007	20.67	--	--	--	7.14	13.53
LAIx-2	5/14/2007	20.67	--	--	--	8.17	12.50
LAIx-2	6/29/2007	20.67	--	--	--	8.86	11.81
LAIx-2	7/20/2007	20.67	--	--	--	9.13	11.54
LAIx-2	8/21/2007	20.67	--	--	--	9.30	11.37
LAIx-2	9/10/2007	20.67	--	--	--	9.18	11.49
LAIx-2	10/22/2007	20.67	--	--	--	7.30	13.37
LAIx-2	11/28/2007	20.67	--	--	--	6.72	13.95
LAIx-2	12/13/2007	20.67	--	--	--	4.96	15.71
LAIx-2	1/21/2008	20.67	--	--	--	5.24	15.43
LAIx-2	2/24/2008	20.67	--	--	--	5.94	14.73
LAIx-2	3/24/2008	20.67	--	--	--	6.37	14.30
LAIx-2	8/25/2008	20.67	--	--	--	7.96	12.71
LAIx-2	2/18/2009	20.67	--	--	--	6.04	14.63
LAIx-2	8/25/2009	20.67	--	--	--	8.78	11.89
LAIx-2	3/22/2010	20.67	--	--	--	6.42	14.25
LAIx-2	8/23/2010	20.67	--	--	--	8.20	12.47
LAIx-2	2/7/2011	20.67	--	--	--	4.80	15.87
LAIx-2	5/27/2011	20.67	--	--	--	6.65	14.02
LAIx-2	8/8/2011	20.67	--	--	--	7.41	13.26
LAIx-2	11/14/2011	20.67	--	--	--	6.94	13.73
LAIx-2	2/20/2012	20.67	--	--	--	5.54	15.13
LAIx-2	8/22/2012	20.67	--	--	--	6.94	13.73
LAIx-2	11/5/2012	20.67	--	--	--	5.65	15.02
LAIx-2	1/28/2013	20.67	--	--	--	4.64	16.03
LAIx-2	5/9/2013	20.67	--	--	--	8.38	12.29
LAIx-2	8/19/2013	20.67	--	--	--	10.60	10.07
LAIx-2	11/25/2013	20.67	--	--	--	7.92	12.75
LAIx-2	2/14/2014	20.67	--	--	--	7.42	13.25
LAIx-2	5/5/2014	20.67	--	--	--	6.19	14.48
LAIx-2	8/19/2014	20.67	--	--	--	9.12	11.55
LAIx-2	11/21/2014	20.67	--	--	--	6.89	13.78
LAI-3	1/17/2003	20.74	--	--	--	4.37	16.37

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAI-3	1/20/2003	20.74	--	--	--	4.28	16.46
LAI-3	1/31/2003	20.74	--	--	--	4.94	15.80
LAI-3	2/7/2003	20.74	--	--	--	4.41	16.33
LAI-3	2/12/2003	20.74	--	--	--	4.70	16.04
LAI-3	2/18/2003	20.74	--	--	--	5.21	15.53
LAI-3	2/21/2003	20.74	--	--	--	5.58	15.16
LAI-3	2/24/2003	20.74	--	--	--	5.66	15.08
LAI-3	3/3/2003	20.74	--	--	--	5.13	15.61
LAI-3	3/12/2003	20.74	--	--	--	5.32	15.42
LAI-3	3/14/2003	20.74	--	--	--	5.16	15.58
LAI-3	3/26/2003	20.74	--	--	--	4.65	16.09
LAI-3	3/28/2003	20.74	--	--	--	4.75	15.99
LAI-3	4/2/2003	20.74	--	--	--	5.57	15.17
LAI-3	4/4/2003	20.74	--	--	--	5.53	15.21
LAI-3	4/8/2003	20.74	--	--	--	5.69	15.05
LAI-3	4/11/2003	20.74	--	--	--	5.15	15.59
LAI-3	4/15/2003	20.74	--	--	--	4.75	15.99
LAI-3	4/17/2003	20.74	--	--	--	6.08	14.66
LAI-3	4/22/2003	20.74	--	--	--	5.27	15.47
LAI-3	4/25/2003	20.74	--	--	--	5.45	15.29
LAI-3	5/2/2003	20.74	--	--	--	5.76	14.98
LAI-3	5/6/2003	20.74	--	--	--	5.61	15.13
LAI-3	5/9/2003	20.74	--	--	--	6.30	14.44
LAI-3	5/16/2003	20.74	--	--	--	6.53	14.21
LAI-3	5/23/2003	20.74	--	--	--	6.57	14.17
LAI-3	5/28/2003	20.74	--	--	--	6.44	14.30
LAI-3	6/13/2003	20.74	--	--	--	6.85	13.89
LAI-3	6/18/2003	20.74	--	--	--	6.81	13.93
LAI-3	6/27/2003	20.74	--	--	--	6.83	13.91
LAI-3	7/7/2003	20.74	--	--	--	7.32	13.42
LAI-3	7/16/2003	20.74	--	--	--	6.47	14.27
LAI-3	7/31/2003	20.74	--	--	--	7.37	13.37
LAI-3	8/5/2003	20.74	--	--	--	7.49	13.25
LAI-3	8/11/2003	20.74	--	--	--	7.68	13.06
LAI-3	8/22/2003	20.74	--	--	--	8.74	12.00
LAI-3	8/26/2003	20.74	--	--	--	7.74	13.00
LAI-3	9/2/2003	20.74	--	--	--	8.03	12.71
LAI-3	9/9/2003	20.74	--	--	--	8.45	12.29
LAI-3	9/19/2003	20.74	--	--	--	8.10	12.64
LAI-3	10/14/2003	20.74	--	--	--	8.20	12.54
LAI-3	11/20/2003	20.74	--	--	--	4.77	15.97
LAI-3	12/3/2003	20.74	--	--	--	4.08	16.66
LAI-3	1/19/2004	20.74	--	--	--	3.55	17.19
LAI-3	2/24/2004	20.74	--	--	--	5.23	15.51
LAI-3	3/15/2004	20.74	--	--	--	6.20	14.54
LAI-3	4/19/2004	20.74	--	--	--	6.21	14.53
LAI-3	5/17/2004	20.74	--	--	--	6.66	14.08
LAI-3	6/22/2004	20.74	--	--	--	6.46	14.28
LAI-3	8/18/2004	20.74	--	--	--	7.76	12.98
LAI-3	9/21/2004	20.74	--	--	--	6.70	14.04
LAI-3	10/19/2004	20.74	--	--	--	5.82	14.92
LAI-3	11/23/2004	20.74	--	--	--	6.14	14.60
LAI-3	12/21/2004	20.74	--	--	--	4.22	16.52
LAI-3	1/13/2005	20.74	--	--	--	5.03	15.71
LAI-3	4/28/2005	20.74	--	--	--	4.55	16.19
LAI-3	6/1/2005	20.74	--	--	--	4.86	15.88
LAI-3	6/29/2005	20.74	--	--	--	6.69	14.05
LAI-3	7/20/2005	20.74	--	--	--	6.71	14.03
LAI-3	8/22/2005	20.74	--	--	--	6.82	13.92
LAI-3	5/27/2011	20.74			Not Monitored		
LAIx-3	9/12/2005	20.74	--	--	--	10.31	10.43
LAIx-3	10/12/2005	20.74	--	--	--	9.99	10.75
LAIx-3	11/21/2005	20.74	8.31	12.43	0.01	8.32	12.43
LAIx-3	12/27/2005	20.74	--	--	--	7.15	13.59
LAIx-3	1/30/2006	20.74	6.00	14.74	0.01	6.01	14.74
LAIx-3	2/16/2006	20.74	--	--	--	7.85	12.89
LAIx-3	3/13/2006	20.74	--	--	--	8.18	12.56
LAIx-3	4/18/2006	20.74	--	--	--	8.36	12.38
LAIx-3	5/12/2006	20.74	--	--	--	8.87	11.87
LAIx-3	6/9/2006	20.74	--	--	--	8.65	12.09
LAIx-3	7/13/2006	20.74	--	--	--	9.90	10.84
LAIx-3	8/16/2006	20.74	--	--	--	10.63	10.11
LAIx-3	9/19/2006	20.74	--	--	--	10.25	10.49
LAIx-3	10/13/2006	20.74	--	--	--	10.28	10.46
LAIx-3	11/20/2006	20.74	--	--	--	7.14	13.60
LAIx-3	12/8/2006	20.74	--	--	--	7.84	12.90
LAIx-3	1/19/2007	20.74	--	--	--	7.61	13.13
LAIx-3	2/19/2007	20.74	--	--	--	7.86	12.88
LAIx-3	3/15/2007	20.74	--	--	--	7.34	13.40
LAIx-3	4/16/2007	20.74	--	--	--	7.86	12.88
LAIx-3	5/14/2007	20.74	--	--	--	8.61	12.13
LAIx-3	6/29/2007	20.74	--	--	--	9.27	11.47
LAIx-3	7/20/2007	20.74	--	--	--	9.59	11.15
LAIx-3	8/21/2007	20.74	--	--	--	9.80	10.94
LAIx-3	9/10/2007	20.74	--	--	--	9.92	10.82
LAIx-3	10/22/2007	20.74	--	--	--	8.48	12.26
LAIx-3	11/28/2007	20.74	--	--	--	8.10	12.64
LAIx-3	12/13/2007	20.74	--	--	--	6.13	14.61
LAIx-3	1/21/2008	20.74	--	--	--	6.73	14.01
LAIx-3	2/24/2008	20.74	--	--	--	7.31	13.43

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAIx-3	3/24/2008	20.74	--	--	--	7.45	13.29
LAIx-3	8/25/2008	20.74	--	--	--	9.91	10.83
LAIx-3	2/18/2009	20.74	--	--	--	7.68	13.06
LAIx-3	8/25/2009	20.74	--	--	--	9.83	10.91
LAIx-3	3/22/2010	20.74	--	--	--	7.60	13.14
LAIx-3	8/23/2010	20.74	--	--	--	9.31	11.43
LAIx-3	2/7/2011	20.74	--	--	--	5.73	15.01
LAIx-3	5/27/2011	20.74			Not Monitored		
LAIx-3	8/8/2011	20.74	--	--	--	9.06	11.68
LAIx-3	11/14/2011	20.74	--	--	--	7.17	13.57
LAIx-3	2/20/2012	20.74	--	--	--	7.30	13.44
LAIx-3	8/22/2012	20.74	--	--	--	9.11	11.63
LAIx-3	11/5/2012	20.74	--	--	--	6.55	14.19
LAIx-3	1/28/2013	20.74	--	--	--	6.09	14.65
LAIx-3	5/9/2013	20.74	--	--	--	7.02	13.72
LAIx-3	8/19/2013	20.74	--	--	--	9.76	10.98
LAIx-3	11/25/2013	20.74	--	--	--	7.83	12.91
LAIx-3	2/14/2014	20.74	--	--	--	6.98	13.76
LAIx-3	5/5/2014	20.74	--	--	--	5.91	14.83
LAIx-3	8/19/2014	20.74	--	--	--	8.52	12.22
LAIx-3	11/21/2014	20.74	--	--	--	6.34	14.40
LAI-4	1/22/2003	22.43	6.87	15.56	0.43	7.30	15.45
LAI-4	1/23/2003	22.43	7.48	14.95	0.20	7.68	14.90
LAI-4	1/24/2003	22.43	6.72	15.71	0.67	7.39	15.54
LAI-4	1/27/2003	22.43	4.47	17.96	4.67	9.14	16.79
LAI-4	1/28/2003	22.43	4.97	17.46	4.43	9.40	16.35
LAI-4	1/29/2003	22.43	7.40	15.03	0.05	7.45	15.02
LAI-4	1/30/2003	22.43	7.88	14.55	0.06	7.94	14.54
LAI-4	2/3/2003	22.43	6.25	16.18	2.16	8.41	15.64
LAI-4	2/6/2003	23.88	6.28	17.60	1.04	7.32	17.34
LAI-4	2/11/2003	23.88	7.54	16.34	1.44	8.98	15.98
LAI-4	2/18/2003	23.88	9.28	14.60	0.17	9.45	14.56
LAI-4	2/21/2003	23.88	9.11	14.77	0.09	9.20	14.75
LAI-4	2/26/2003	23.88	8.37	15.51	1.35	9.72	15.17
LAI-4	3/3/2003	23.88	8.57	15.31	0.86	9.43	15.10
LAI-4	3/12/2003	23.88	8.80	15.08	0.14	8.94	15.05
LAI-4	3/14/2003	23.88	8.68	15.20	0.14	8.82	15.17
LAI-4	3/26/2003	23.88	--	--	--	9.06	14.82
LAI-4	3/28/2003	23.88	--	--	--	9.28	14.60
LAI-4	4/2/2003	23.88	8.21	15.67	0.08	8.29	15.65
LAI-4	4/4/2003	23.88	8.58	15.30	0.04	8.62	15.29
LAI-4	4/8/2003	23.88	8.51	15.37	0.13	8.64	15.34
LAI-4	4/11/2003	23.88	8.78	15.10	0.14	8.92	15.07
LAI-4	4/15/2003	23.88	7.86	16.02	0.95	8.81	15.78
LAI-4	4/17/2003	23.88	9.19	14.69	0.02	9.21	14.69
LAI-4	4/22/2003	23.88	6.61	17.27	0.19	6.80	17.22
LAI-4	4/25/2003	23.88	8.96	14.92	0.25	9.21	14.86
LAI-4	5/2/2003	23.88	9.06	14.82	0.10	9.16	14.80
LAI-4	5/6/2003	23.88	8.56	15.32	1.85	10.41	14.86
LAI-4	5/9/2003	23.88	10.96	12.92	0.02	10.98	12.92
LAI-4	5/23/2003	23.88	10.17	13.71	0.02	10.19	13.71
LAI-4	5/28/2003	23.88	9.81	14.07	0.03	9.84	14.06
LAI-4	6/13/2003	23.88	10.09	13.79	0.03	10.12	13.78
LAI-4	6/18/2003	23.88	10.05	13.83	0.08	10.13	13.81
LAI-4	6/27/2003	23.88	9.92	13.96	0.82	10.74	13.76
LAI-4	7/7/2003	23.88	10.27	13.61	1.44	11.71	13.25
LAI-4	7/16/2003	23.88	9.92	13.96	2.10	12.02	13.44
LAI-4	7/31/2003	23.88	10.58	13.30	1.12	11.70	13.02
LAI-4	8/5/2003	23.88	10.32	13.56	1.97	12.29	13.07
LAI-4	8/11/2003	23.88	11.70	12.18	1.09	12.79	11.91
LAI-4	8/22/2003	23.88	11.96	11.92	1.28	13.24	11.60
LAI-4	8/26/2003	23.88	11.09	12.79	1.15	12.24	12.50
LAI-4	9/2/2003	23.88	11.04	12.84	1.32	12.36	12.51
LAI-4	9/9/2003	23.88	11.10	12.78	2.16	13.26	12.24
LAI-4	9/19/2003	23.88	11.14	12.74	1.35	12.49	12.40
LAI-4	10/14/2003	23.88	11.21	12.67	1.59	12.80	12.27
LAI-4	11/20/2003	23.88	8.21	15.67	0.09	8.30	15.65
LAI-4	12/3/2003	23.88	7.12	16.76	1.06	8.18	16.50
LAI-4	1/19/2004	23.88	6.84	17.04	0.72	7.56	16.86
LAI-4	2/24/2004	23.88	8.25	15.63	0.65	8.90	15.47
LAI-4	3/15/2004	23.88	9.42	14.46	0.09	9.51	14.44
LAI-4	4/19/2004	23.88	9.19	14.69	0.01	9.20	14.69
LAI-4	5/17/2004	23.88	--	--	--	10.05	13.83
LAI-4	6/22/2004	23.88	--	--	--	9.98	13.90
LAI-4	8/18/2004	23.88	11.20	12.68	0.05	11.25	12.67
LAI-4	9/21/2004	23.88	--	--	--	10.05	13.83
LAI-4	10/19/2004	24.88	--	--	--	9.23	15.65
LAI-4	11/23/2004	24.88	--	--	--	9.45	15.43
LAI-4	12/21/2004	24.88	--	--	--	7.60	17.28
LAI-4	1/13/2005	24.88	--	--	--	8.37	16.51
LAI-4	4/28/2005	24.88	--	--	--	8.57	16.31
LAI-4	6/1/2005	24.88	--	--	--	8.15	16.73
LAI-4	6/29/2005	24.88	--	--	--	10.05	14.83
LAI-4	7/20/2005	24.88	--	--	--	10.45	14.43
LAI-4	8/22/2005	24.88	--	--	--	10.12	14.76
LAI-4	5/27/2011	24.88			Not Monitored		
LAIx-4	9/12/2005	25.50	--	--	--	14.15	11.35
LAIx-4	10/12/2005	25.50	--	--	--	14.78	10.72
LAIx-4	11/21/2005	25.50	12.76	12.74	0.01	12.77	12.74

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAIx-4	12/27/2005	25.50	--	--	--	11.95	13.55
LAIx-4	1/30/2006	25.50	--	--	--	10.60	14.90
LAIx-4	2/16/2006	25.50	--	--	--	12.68	12.82
LAIx-4	3/13/2006	25.50	--	--	--	12.95	12.55
LAIx-4	4/18/2006	25.50	--	--	--	13.05	12.45
LAIx-4	5/12/2006	25.50	--	--	--	13.70	11.80
LAIx-4	6/9/2006	25.50	--	--	--	13.45	12.05
LAIx-4	7/13/2006	25.50	--	--	--	15.65	9.85
LAIx-4	8/16/2006	25.50	15.41	10.09	0.02	15.43	10.09
LAIx-4	9/19/2006	25.50	--	--	--	15.05	10.45
LAIx-4	10/13/2006	25.50	--	--	--	15.13	10.37
LAIx-4	11/20/2006	25.50	--	--	--	12.43	13.07
LAIx-4	12/8/2006	25.50	--	--	--	12.76	12.74
LAIx-4	1/19/2007	25.50	--	--	--	12.38	13.12
LAIx-4	2/19/2007	25.50	--	--	--	12.96	12.54
LAIx-4	3/15/2007	25.50	--	--	--	12.70	12.80
LAIx-4	4/16/2007	25.50	--	--	--	13.11	12.39
LAIx-4	5/14/2007	25.50	--	--	--	13.73	11.77
LAIx-4	6/29/2007	25.50	--	--	--	14.19	11.31
LAIx-4	7/20/2007	25.50	--	--	--	14.57	10.93
LAIx-4	8/21/2007	25.50	--	--	--	14.74	10.76
LAIx-4	9/10/2007	25.50	--	--	--	14.82	10.68
LAIx-4	10/22/2007	25.50	--	--	--	13.64	11.86
LAIx-4	11/28/2007	25.50	--	--	--	13.45	12.05
LAIx-4	12/13/2007	25.50	--	--	--	12.80	12.70
LAIx-4	1/21/2008	25.50	--	--	--	8.78	16.72
LAIx-4	2/24/2008	25.50	--	--	--	13.23	12.27
LAIx-4	3/24/2008	25.50	--	--	--	12.81	12.69
LAIx-4	8/25/2008	25.50	--	--	--	13.97	11.53
LAIx-4	2/18/2009	22.50	--	--	--	13.44	9.06
LAIx-4	8/25/2009	22.50	--	--	--	15.09	7.41
LAIx-4	3/22/2010	22.50	--	--	--	13.20	9.30
LAIx-4	8/23/2010	25.50	--	--	--	12.67	12.83
LAIx-4	2/7/2011	25.50	--	--	--	12.68	12.82
LAIx-4	5/27/2011	25.50			Not Monitored		
LAI-5	1/22/2003	23.04	6.55	16.49	4.18	10.73	15.45
LAI-5	1/23/2003	23.04	6.54	16.50	4.02	10.56	15.50
LAI-5	1/24/2003	23.04	6.40	16.64	3.92	10.32	15.66
LAI-5	1/27/2003	23.04	5.51	17.53	3.66	9.17	16.62
LAI-5	1/28/2003	23.04	6.85	16.19	0.55	7.40	16.05
LAI-5	1/29/2003	23.04	6.20	16.84	4.20	10.40	15.79
LAI-5	1/30/2003	23.04	6.31	16.73	4.04	10.35	15.72
LAI-5	2/3/2003	23.04	6.36	16.68	3.29	9.65	15.86
LAI-5	2/6/2003	24.52	7.18	17.34	3.57	10.75	16.45
LAI-5	2/11/2003	24.52	7.53	16.99	3.64	11.17	16.08
LAI-5	2/18/2003	24.52	6.50	18.02	4.75	11.25	16.83
LAI-5	2/21/2003	24.52	8.21	16.31	3.30	11.51	15.49
LAI-5	2/26/2003	24.52	7.78	16.74	3.23	11.01	15.93
LAI-5	3/4/2003	24.52	7.78	16.74	3.23	11.01	15.93
LAI-5	3/12/2003	24.52	8.32	16.20	3.36	11.68	15.36
LAI-5	3/14/2003	24.52	8.36	16.16	3.08	11.44	15.39
LAI-5	3/26/2003	24.52	--	--	--	10.01	14.51
LAI-5	3/28/2003	24.52	--	--	--	9.96	14.56
LAI-5	4/2/2003	24.52	8.52	16.00	0.83	9.35	15.79
LAI-5	4/4/2003	24.52	8.90	15.62	0.68	9.58	15.45
LAI-5	4/8/2003	24.52	8.96	15.56	0.55	9.51	15.42
LAI-5	4/11/2003	24.52	8.72	15.80	1.62	10.34	15.40
LAI-5	4/15/2003	24.52	8.01	16.51	2.43	10.44	15.90
LAI-5	4/17/2003	24.52	9.60	14.92	0.16	9.76	14.88
LAI-5	4/22/2003	24.52	9.04	15.48	0.39	9.43	15.38
LAI-5	4/25/2003	24.52	9.05	15.47	2.10	11.15	14.95
LAI-5	5/2/2003	24.52	9.48	15.04	0.24	9.72	14.98
LAI-5	5/6/2003	24.52	8.94	15.58	2.24	11.18	15.02
LAI-5	5/9/2003	24.52	10.28	14.24	0.07	10.35	14.22
LAI-5	5/23/2003	24.52	10.65	13.87	0.02	10.67	13.87
LAI-5	5/28/2003	24.52	10.36	14.16	0.09	10.45	14.14
LAI-5	6/13/2003	24.52	10.58	13.94	0.05	10.63	13.93
LAI-5	6/18/2003	24.52	10.51	14.01	0.01	10.52	14.01
LAI-5	6/27/2003	24.52	10.08	14.44	1.63	11.71	14.03
LAI-5	7/7/2003	24.52	10.52	14.00	1.85	12.37	13.54
LAI-5	7/16/2003	24.52	10.30	14.22	2.15	12.45	13.68
LAI-5	7/31/2003	24.52	10.77	13.75	1.67	12.44	13.33
LAI-5	8/5/2003	24.52	11.30	13.22	2.35	13.65	12.63
LAI-5	8/11/2003	24.52	--	--	--	12.22	12.30
LAI-5	8/22/2003	24.52	--	--	--	12.34	12.18
LAI-5	8/26/2003	24.52	12.39	12.13	1.29	13.68	11.81
LAI-5	9/2/2003	24.52	11.57	12.95	0.03	11.60	12.94
LAI-5	9/9/2003	24.52	11.14	13.38	2.49	13.63	12.76
LAI-5	9/19/2003	24.52	11.89	12.63	0.57	12.46	12.49
LAI-5	10/14/2003	24.52	12.13	12.39	0.45	12.58	12.28
LAI-5	11/20/2003	24.52	--	--	--	8.72	15.80
LAI-5	12/3/2003	24.52	7.76	16.76	0.33	8.09	16.68
LAI-5	1/19/2004	24.52	7.38	17.14	0.07	7.45	17.12
LAI-5	2/24/2004	24.52	8.65	15.87	0.11	8.76	15.84
LAI-5	3/15/2004	24.52	--	--	--	9.94	14.58
LAI-5	4/19/2004	24.52	--	--	--	10.19	14.33
LAI-5	5/17/2004	24.52	--	--	--	11.14	13.38
LAI-5	6/22/2004	24.52	11.10	13.42	0.01	11.11	13.42
LAI-5	8/18/2004	24.52	--	--	--	12.17	12.35
LAI-5	9/21/2004	24.52	--	--	--	11.16	13.36

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAI-5	10/19/2004	25.52	--	--	--	10.29	15.23
LAI-5	11/23/2004	25.52	--	--	--	10.48	15.04
LAI-5	12/21/2004	25.52	--	--	--	8.99	16.53
LAI-5	1/13/2005	25.52	--	--	--	9.47	16.05
LAI-5	4/28/2005	25.52	--	--	--	9.32	16.20
LAI-5	6/1/2005	25.52	--	--	--	9.61	15.91
LAI-5	6/29/2005	25.52	--	--	--	11.40	14.12
LAI-5	7/20/2005	25.52	--	--	--	11.47	14.05
LAI-5	8/22/2005	25.52	--	--	--	11.44	14.08
LAI-5	5/27/2011	25.52			Not Monitored		
LAIx-5	9/12/2005	25.63	--	--	--	14.18	11.45
LAIx-5	10/12/2005	25.63	--	--	--	14.58	11.05
LAIx-5	11/21/2005	25.63	--	--	--	12.08	13.55
LAIx-5	12/27/2005	25.63	11.10	14.53	0.05	11.15	14.52
LAIx-5	1/30/2006	25.63	7.33	18.30	2.73	10.06	17.62
LAIx-5	2/16/2006	25.63	12.10	13.53	0.00	12.10	13.53
LAIx-5	3/13/2006	25.63	--	--	--	12.71	12.92
LAIx-5	4/18/2006	25.63	10.60	15.03	2.69	13.29	14.36
LAIx-5	5/12/2006	25.63	11.10	14.53	3.33	14.43	13.70
LAIx-5	6/9/2006	25.63	12.54	13.09	0.01	12.55	13.09
LAIx-5	7/13/2006	25.63	13.10	12.53	0.15	13.25	12.49
LAIx-5	8/16/2006	25.63	--	--	--	13.80	11.83
LAIx-5	9/19/2006	25.63	--	--	--	14.35	11.28
LAIx-5	10/13/2006	25.63	--	--	--	13.80	11.83
LAIx-5	11/20/2006	25.63	9.82	15.81	0.27	10.09	15.74
LAIx-5	12/8/2006	25.63	9.92	15.71	0.80	10.72	15.51
LAIx-5	1/19/2007	25.63	8.94	16.69	1.31	10.25	16.36
LAIx-5	2/19/2007	25.63	10.04	15.59	0.25	10.29	15.53
LAIx-5	3/15/2007	25.63	9.29	16.34	0.25	9.54	16.28
LAIx-5	4/16/2007	25.63	10.46	15.17	0.16	10.62	15.13
LAIx-5	5/14/2007	25.63	11.63	14.00	0.02	11.65	14.00
LAIx-5	6/29/2007	25.63	--	--	--	11.88	13.75
LAIx-5	7/20/2007	25.63	--	--	--	12.59	13.04
LAIx-5	8/21/2007	25.63	--	--	--	13.18	12.45
LAIx-5	9/10/2007	25.63	--	--	--	15.47	10.16
LAIx-5	10/22/2007	25.63	--	--	--	11.95	13.68
LAIx-5	11/28/2007	25.63	--	--	--	11.37	14.26
LAIx-5	12/13/2007	25.63	10.82	14.81	0.13	10.95	14.78
LAIx-5	1/21/2008	25.63	--	--	--	11.68	13.95
LAIx-5	2/24/2008	25.63	--	--	--	10.13	15.50
LAIx-5	3/24/2008	25.63	--	--	--	11.11	14.52
LAIx-5	8/25/2008	25.63	--	--	--	12.30	13.33
LAIx-5	2/18/2009	25.63	--	--	--	10.65	14.98
LAIx-5	8/25/2009	25.63	--	--	--	12.92	12.71
LAIx-5	3/22/2010	25.63	10.79	14.84	0.01	10.80	14.84
LAIx-5	8/23/2010	25.63			DRY		
LAIx-5	2/7/2011	25.63		9.80	0.05	9.85	15.82
LAIx-5	5/27/2011	25.63			Not Monitored		
LAIX-5	11/14/2016	25.63	---	---	---	8.83	16.80
LAIX-5	2/17/2017	25.63	---	---	---	7.82	17.81
LAIX-5	5/24/2017	25.63	---	---	---	8.83	16.80
LAIX-5	9/26/2017	25.63	---	---	---	11.46	14.17
LAIX-5	9/28/2017	---	---	---	---	---	---
LAIX-5	12/11/2017	25.63	---	---	---	7.02	18.61
LAIX-5	2/26/2018	25.63	---	---	---	7.87	17.76
LAI-6	1/22/2003	22.86	6.67	16.19	3.78	10.45	15.25
LAI-6	1/23/2003	22.86	6.45	16.41	3.85	10.30	15.45
LAI-6	1/24/2003	22.86	6.32	16.54	4.00	10.32	15.54
LAI-6	1/27/2003	22.86	5.68	17.18	3.37	9.05	16.34
LAI-6	1/28/2003	22.86	6.91	15.95	0.93	7.84	15.72
LAI-6	1/29/2003	22.86	6.51	16.35	2.53	9.04	15.72
LAI-6	1/30/2003	22.86	6.36	16.50	3.60	9.96	15.60
LAI-6	2/3/2003	22.86	6.27	16.59	3.69	9.96	15.67
LAI-6	2/6/2003	22.86	5.79	17.07	3.79	9.58	16.12
LAI-6	2/11/2003	22.86	6.03	16.83	3.61	9.64	15.93
LAI-6	2/18/2003	22.86	7.98	14.88	0.42	8.40	14.78
LAI-6	2/21/2003	22.86	7.57	15.29	0.54	8.11	15.16
LAI-6	2/26/2003	22.86	7.15	15.71	0.47	7.62	15.59
LAI-6	3/3/2003	22.86	8.01	14.85	0.45	8.46	14.74
LAI-6	3/12/2003	22.86	7.46	15.40	0.23	7.69	15.34
LAI-6	3/14/2003	22.86	7.72	15.14	0.19	7.91	15.09
LAI-6	3/26/2003	22.86	6.37	16.49	1.45	7.82	16.13
LAI-6	3/28/2003	22.86	7.10	15.76	1.65	8.75	15.35
LAI-6	4/2/2003	22.86	6.65	16.21	2.15	8.80	15.67
LAI-6	4/4/2003	22.86	7.06	15.80	1.74	8.80	15.37
LAI-6	4/8/2003	22.86	7.13	15.73	1.70	8.83	15.31
LAI-6	4/11/2003	22.86	7.22	15.64	0.88	8.10	15.42
LAI-6	4/15/2003	22.86	6.56	16.30	1.82	8.38	15.85
LAI-6	4/17/2003	22.86	7.61	15.25	1.74	9.35	14.82
LAI-6	4/22/2003	22.86	7.16	15.70	1.65	8.81	15.29
LAI-6	4/25/2003	22.86	7.70	15.16	0.83	8.53	14.95
LAI-6	5/2/2003	22.86	7.61	15.25	1.65	9.26	14.84
LAI-6	5/6/2003	22.86	8.45	14.41	0.99	9.44	14.16
LAI-6	5/9/2003	22.86	8.00	14.86	1.95	9.95	14.37
LAI-6	5/23/2003	22.86	8.41	14.45	2.00	10.41	13.95
LAI-6	5/28/2003	22.86	8.23	14.63	1.78	10.01	14.19
LAI-6	6/13/2003	22.86	8.50	14.36	2.11	10.61	13.83
LAI-6	6/18/2003	22.86	8.46	14.40	2.10	10.56	13.88
LAI-6	6/27/2003	22.86	9.91	12.95	0.77	10.68	12.76

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAI-6	7/7/2003	22.86	8.98	13.88	2.08	11.06	13.36
LAI-6	7/16/2003	22.86	8.75	14.11	2.20	10.95	13.56
LAI-6	7/31/2003	22.86	9.14	13.72	2.06	11.20	13.21
LAI-6	8/5/2003	22.86	9.15	13.71	2.01	11.16	13.21
LAI-6	8/11/2003	22.86	10.24	12.62	1.97	12.21	12.13
LAI-6	8/22/2003	22.86	10.45	12.41	1.90	12.35	11.94
LAI-6	8/26/2003	22.86	9.78	13.08	0.02	9.80	13.08
LAI-6	9/2/2003	22.86	10.13	12.73	0.90	11.03	12.51
LAI-6	9/9/2003	22.86	10.48	12.38	0.79	11.27	12.18
LAI-6	9/19/2003	22.86	10.44	12.42	0.61	11.05	12.27
LAI-6	10/14/2003	22.86	9.11	13.75	0.91	10.02	13.52
LAI-6	11/20/2003	22.86	7.22	15.64	0.01	7.23	15.64
LAI-6	12/3/2003	22.86	6.30	16.56	0.35	6.65	16.47
LAI-6	1/19/2004	22.86	5.85	17.01	0.71	6.56	16.83
LAI-6	2/24/2004	22.86	7.52	15.34	0.11	7.63	15.31
LAI-6	3/15/2004	22.86	8.32	14.54	0.50	8.82	14.42
LAI-6	4/19/2004	22.86	8.52	14.34	0.02	8.54	14.34
LAI-6	5/17/2004	22.86	9.05	13.81	0.03	9.08	13.80
LAI-6	6/22/2004	22.86	--	--	--	8.85	14.01
LAI-6	8/18/2004	22.86	--	--	--	10.08	12.78
LAI-6	9/21/2004	22.86	--	--	--	8.95	13.91
LAI-6	10/19/2004	22.86	--	--	--	8.08	14.78
LAI-6	11/23/2004	22.86	--	--	--	8.49	14.37
LAI-6	12/21/2004	22.86	--	--	--	6.55	16.31
LAI-6	1/13/2005	22.86	7.26	15.60	0.01	7.27	15.60
LAI-6	4/28/2005	22.86	--	--	--	7.05	15.81
LAI-6	6/1/2005	22.86	--	--	--	7.68	15.18
LAI-6	6/29/2005	22.86	--	--	--	9.20	13.66
LAI-6	7/20/2005	22.86	--	--	--	9.43	13.43
LAI-6	8/22/2005	22.86	--	--	--	9.47	13.39
LAI-6	5/27/2011	22.86			Not Monitored		
LAIx-6	9/12/2005	25.25	--	--	--	11.56	13.69
LAIx-6	10/12/2005	25.25	--	--	--	12.27	12.98
LAIx-6	11/21/2005	25.25	--	--	--	10.37	14.88
LAIx-6	12/27/2005	25.25	--	--	--	9.88	15.37
LAIx-6	12/21/2004	25.25	--	--	--	9.88	15.37
LAIx-6	1/30/2006	25.25	7.28	17.97	0.01	7.29	17.97
LAIx-6	2/16/2006	25.25	--	--	--	8.81	16.44
LAIx-6	3/13/2006	25.25	9.54	15.71	0.54	10.08	15.58
LAIx-6	4/18/2006	25.25	--	--	--	9.80	15.45
LAIx-6	5/12/2006	25.25	--	--	--	10.11	15.14
LAIx-6	6/9/2006	25.25	--	--	--	9.77	15.48
LAIx-6	7/13/2006	25.25	--	--	--	10.75	14.50
LAIx-6	8/16/2006	25.25	--	--	--	11.43	13.82
LAIx-6	9/19/2006	25.25	--	--	--	12.00	13.25
LAIx-6	10/13/2006	25.25	--	--	--	11.84	13.41
LAIx-6	11/20/2006	25.25	--	--	--	8.31	16.94
LAIx-6	12/8/2006	25.25	--	--	--	8.28	16.97
LAIx-6	1/19/2007	25.25	--	--	--	7.89	17.36
LAIx-6	2/19/2007	25.25	--	--	--	9.58	15.67
LAIx-6	3/15/2007	25.25	--	--	--	8.85	16.40
LAIx-6	4/16/2007	25.25	--	--	--	9.25	16.00
LAIx-6	5/14/2007	25.25	--	--	--	10.30	14.95
LAIx-6	6/29/2007	25.25	--	--	--	11.93	13.32
LAIx-6	7/20/2007	25.25	--	--	--	12.50	12.75
LAIx-6	8/21/2007	25.25	--	--	--	12.97	12.28
LAIx-6	9/10/2007	25.25	--	--	--	13.00	12.25
LAIx-6	10/22/2007	25.25	--	--	--	11.44	13.81
LAIx-6	11/28/2007	25.25	--	--	--	10.84	14.41
LAIx-6	12/13/2007	25.25	--	--	--	10.82	14.43
LAIx-6	1/21/2008	25.25	--	--	--	10.11	15.14
LAIx-6	2/24/2008	25.25	--	--	--	10.45	14.80
LAIx-6	3/24/2008	25.25	--	--	--	10.59	14.66
LAIx-6	8/25/2008	25.25	--	--	--	11.98	13.27
LAIx-6	2/18/2009	25.25	--	--	--	10.38	14.87
LAIx-6	8/25/2009	25.25	--	--	--	12.63	12.62
LAIx-6	3/22/2010	25.25	--	--	--	10.67	14.58
LAIx-6	8/23/2010	25.25	--	--	--	10.80	14.45
LAIx-6	2/7/2011	25.25	--	--	--	9.46	15.79
LAIx-6	5/27/2011	25.25			Not Monitored		
LAIX-6	11/14/2016	25.25	---	---	---	8.57	16.68
LAIX-6	2/17/2017	25.25	---	---	---	3.90	21.35
LAIX-6	5/24/2017	25.25	---	---	---	8.10	17.15
LAIX-6	9/26/2017	25.25	---	---	---	11.39	13.86
LAIX-6	9/28/2017	---	---	---	---	---	---
LAIX-6	12/11/2017	25.25	---	---	---	7.31	17.94
LAIX-6	2/26/2018	25.25	---	---	---	7.88	17.37
LAI-7	1/22/2003	21.82	8.10	13.72	1.10	9.20	13.45
LAI-7	1/23/2003	21.82	7.58	14.24	1.07	8.65	13.97
LAI-7	1/24/2003	21.82	6.99	14.83	2.36	9.35	14.24
LAI-7	1/27/2003	21.82	5.18	16.64	5.30	10.48	15.32
LAI-7	1/28/2003	21.82	7.08	14.74	0.90	7.98	14.52
LAI-7	1/29/2003	21.82	7.41	14.41	0.44	7.85	14.30
LAI-7	1/30/2003	21.82	8.11	13.71	0.26	8.37	13.65
LAI-7	2/3/2003	21.82	8.90	12.92	0.06	8.96	12.91
LAI-7	2/6/2003	24.28	7.82	16.46	1.56	9.38	16.07
LAI-7	2/11/2003	24.28	8.23	16.05	1.56	9.79	15.66
LAI-7	2/18/2003	24.28	9.45	14.83	0.20	9.65	14.78
LAI-7	2/21/2003	24.28	8.57	15.71	2.34	10.91	15.13

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAI-7	2/26/2003	24.28	8.53	15.75	3.18	11.71	14.96
LAI-7	3/3/2003	24.28	9.53	14.75	0.18	9.71	14.71
LAI-7	3/12/2003	24.28	8.99	15.29	0.19	9.18	15.24
LAI-7	3/14/2003	24.28	9.18	15.10	0.18	9.36	15.06
LAI-7	3/26/2003	24.28	--	--	--	9.97	14.31
LAI-7	3/28/2003	24.28	--	--	--	9.95	14.33
LAI-7	4/2/2003	24.28	8.79	15.49	0.08	8.87	15.47
LAI-7	4/4/2003	24.28	9.04	15.24	0.08	9.12	15.22
LAI-7	4/8/2003	24.28	8.53	15.75	0.10	8.63	15.73
LAI-7	4/11/2003	24.28	9.06	15.22	0.17	9.23	15.18
LAI-7	4/15/2003	24.28	8.41	15.87	0.94	9.35	15.64
LAI-7	4/17/2003	24.28	9.55	14.73	0.17	9.72	14.69
LAI-7	4/22/2003	24.28	9.03	15.25	0.34	9.37	15.17
LAI-7	4/25/2003	24.28	9.00	15.28	0.31	9.31	15.20
LAI-7	5/2/2003	24.28	9.60	14.68	0.05	9.65	14.67
LAI-7	5/6/2003	24.28	9.17	15.11	1.19	10.36	14.81
LAI-7	5/9/2003	24.28	10.04	14.24	0.06	10.10	14.23
LAI-7	5/23/2003	24.28	10.60	13.68	0.02	10.62	13.68
LAI-7	5/28/2003	24.28	10.21	14.07	0.01	10.22	14.07
LAI-7	6/13/2003	24.28	9.90	14.38	0.55	10.45	14.24
LAI-7	6/18/2003	24.28	10.57	13.71	0.02	10.59	13.71
LAI-7	6/27/2003	24.28	10.42	13.86	0.63	11.05	13.70
LAI-7	7/7/2003	24.28	10.85	13.43	0.52	11.37	13.30
LAI-7	7/16/2003	24.28	10.43	13.85	1.65	12.08	13.44
LAI-7	7/31/2003	24.28	11.06	13.22	0.31	11.37	13.14
LAI-7	8/5/2003	24.28	10.66	13.62	0.90	11.56	13.40
LAI-7	8/11/2003	24.28	12.45	11.83	0.01	12.46	11.83
LAI-7	8/22/2003	24.28	12.40	11.88	0.20	12.60	11.83
LAI-7	8/26/2003	24.28	11.32	12.96	1.43	12.75	12.60
LAI-7	9/2/2003	24.28	11.61	12.67	0.20	11.81	12.62
LAI-7	9/9/2003	24.28	11.66	12.62	1.64	13.30	12.21
LAI-7	9/19/2003	24.28	11.66	12.62	1.35	13.01	12.28
LAI-7	10/14/2003	24.28	11.59	12.69	1.46	13.05	12.33
LAI-7	11/20/2003	24.28	--	--	--	8.67	15.61
LAI-7	12/3/2003	24.28	7.98	16.30	0.23	8.21	16.24
LAI-7	1/19/2004	24.28	7.59	16.69	0.32	7.91	16.61
LAI-7	2/24/2004	24.28	--	--	--	8.72	15.56
LAI-7	3/15/2004	24.28	--	--	--	9.71	14.57
LAI-7	4/19/2004	24.28	--	--	--	9.65	14.63
LAI-7	5/17/2004	24.28	--	--	--	10.43	13.85
LAI-7	6/22/2004	24.28	10.33	13.95	0.01	10.34	13.95
LAI-7	8/18/2004	24.28	11.28	13.00	0.88	12.16	12.78
LAI-7	9/21/2004	24.28	10.57	13.71	0.23	10.80	13.65
LAI-7	10/19/2004	24.28	--	--	--	9.53	14.75
LAI-7	11/23/2004	24.28	9.85	14.43	0.19	10.04	14.38
LAI-7	12/21/2004	24.28	8.14	16.14	0.52	8.66	16.01
LAI-7	1/13/2005	24.28	8.83	15.45	0.19	9.02	15.40
LAI-7	4/28/2005	24.28	--	--	--	8.44	15.84
LAI-7	6/1/2005	24.28	--	--	--	8.72	15.56
LAI-7	6/29/2005	24.28	--	--	--	10.41	13.87
LAI-7	7/20/2005	24.28	--	--	--	10.93	13.35
LAI-7	8/22/2005	24.28	--	--	--	10.47	13.81
LAI-7	5/27/2011	24.28			Not Monitored		
LAIx-7	9/12/2005	25.24	--	--	--	13.81	11.43
LAIx-7	10/12/2005	25.24	14.46	10.78	0.12	14.58	10.75
LAIx-7	11/21/2005	25.24	12.00	13.24	2.96	14.96	12.50
LAIx-7	12/27/2005	25.24	11.08	14.16	2.82	13.90	13.46
LAIx-7	1/30/2006	25.24	9.69	15.55	3.34	13.03	14.72
LAIx-7	2/16/2006	25.24	11.52	13.72	3.81	15.33	12.77
LAIx-7	3/13/2006	25.24	11.09	14.15	4.51	15.60	13.02
LAIx-7	4/18/2006	25.24	11.98	13.26	1.62	13.60	12.86
LAIx-7	5/12/2006	25.24	13.22	12.02	0.30	13.52	11.95
LAIx-7	6/9/2006	25.24	12.94	12.30	0.40	13.34	12.20
LAIx-7	7/13/2006	25.24	14.14	11.10	0.94	15.08	10.87
LAIx-7	8/16/2006	25.24	14.95	10.29	0.80	15.75	10.09
LAIx-7	9/19/2006	25.24	14.55	10.69	0.95	15.50	10.45
LAIx-7	10/13/2006	25.24	14.60	10.64	1.55	16.15	10.25
LAIx-7	11/20/2006	25.24	11.89	13.35	0.71	12.60	13.17
LAIx-7	12/8/2006	25.24	12.13	13.11	0.31	12.44	13.03
LAIx-7	1/19/2007	25.24	11.75	13.49	1.20	12.95	13.19
LAIx-7	2/19/2007	25.24	12.52	12.72	0.62	13.14	12.57
LAIx-7	3/15/2007	25.24	12.14	13.10	0.51	12.65	12.97
LAIx-7	4/16/2007	25.24	12.58	12.66	0.92	13.50	12.43
LAIx-7	5/14/2007	25.24	13.25	11.99	0.07	13.32	11.97
LAIx-7	6/29/2007	25.24	13.68	11.56	0.82	14.50	11.36
LAIx-7	7/20/2007	25.24	14.20	11.04	0.10	14.30	11.02
LAIx-7	8/21/2007	25.24	--	--	--	14.20	11.04
LAIx-7	9/10/2007	25.24	--	--	--	14.47	10.77
LAIx-7	10/22/2007	25.24	12.72	--	--	15.64	9.60
LAIx-7	11/28/2007	25.24	12.95	--	--	13.50	11.74
LAIx-7	12/13/2007	25.24	--	--	--	11.92	13.32
LAIx-7	1/21/2008	25.24	--	--	--	7.63	17.61
LAIx-7	2/24/2008	25.24	--	--	--	10.21	15.03
LAIx-7	3/24/2008	25.24	12.24	13.00	0.22	12.46	12.95
LAIx-7	8/25/2008	25.24	--	--	--	13.34	11.90
LAIx-7	2/18/2009	25.24	--	--	--	12.00	13.24
LAIx-7	8/25/2009	25.24	--	--	--	14.56	10.68
LAIx-7	3/22/2010	25.24	--	--	--	10.95	14.29
LAIx-7	8/23/2010	25.24	--	--	--	10.05	15.19
LAIx-7	2/7/2011	25.24	--	--	--	9.71	15.53

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAIx-7	5/27/2011	25.24			Not Monitored		
LAI-8	1/22/2003	23.08	8.10	14.98	0.91	9.01	14.75
LAI-8	1/23/2003	23.08	7.72	15.36	0.88	8.60	15.14
LAI-8	1/24/2003	23.08	7.50	15.58	1.55	9.05	15.19
LAI-8	1/27/2003	23.08	5.34	17.74	5.08	10.42	16.47
LAI-8	1/28/2003	23.08	6.90	16.18	1.75	8.65	15.74
LAI-8	1/29/2003	23.08	7.99	15.09	0.31	8.30	15.01
LAI-8	1/30/2003	23.08	7.90	15.18	0.69	8.59	15.01
LAI-8	2/3/2003	23.08	8.47	14.61	0.01	8.48	14.61
LAI-8	2/6/2003	24.50	6.46	18.04	2.95	9.41	17.30
LAI-8	2/11/2003	24.50	8.45	16.05	1.22	9.67	15.75
LAI-8	2/18/2003	24.50	6.85	17.65	5.75	12.60	16.21
LAI-8	2/21/2003	24.50	8.49	16.01	3.16	11.65	15.22
LAI-8	2/26/2003	24.50	7.92	16.58	4.02	11.94	15.58
LAI-8	3/4/2003	24.50	7.46	17.04	5.02	12.48	15.79
LAI-8	3/12/2003	24.50	8.67	15.83	3.03	11.70	15.07
LAI-8	3/14/2003	24.50	8.88	15.62	2.53	11.41	14.99
LAI-8	3/26/2003	24.50	8.63	15.87	0.88	9.51	15.65
LAI-8	3/28/2003	24.50	--	--	--	9.48	15.02
LAI-8	4/2/2003	24.50	8.97	15.53	0.14	9.11	15.50
LAI-8	4/4/2003	24.50	9.32	15.18	0.04	9.36	15.17
LAI-8	4/8/2003	24.50	9.25	15.25	0.03	9.28	15.24
LAI-8	4/11/2003	24.50	9.21	15.29	0.46	9.67	15.18
LAI-8	4/15/2003	24.50	8.57	15.93	1.13	9.70	15.65
LAI-8	4/17/2003	24.50	9.82	14.68	0.08	9.90	14.66
LAI-8	4/22/2003	24.50	9.28	15.22	0.23	9.51	15.16
LAI-8	4/25/2003	24.50	9.61	14.89	0.25	9.86	14.83
LAI-8	5/2/2003	24.50	9.71	14.79	0.40	10.11	14.69
LAI-8	5/6/2003	24.50	9.36	15.14	1.40	10.76	14.79
LAI-8	5/9/2003	24.50	--	--	--	10.23	14.27
LAI-8	5/23/2003	24.50	10.80	13.70	0.01	10.81	13.70
LAI-8	5/28/2003	24.50	10.51	13.99	0.03	10.54	13.98
LAI-8	6/13/2003	24.50	10.20	14.30	1.56	11.76	13.91
LAI-8	6/18/2003	24.50	10.35	14.15	1.85	12.20	13.69
LAI-8	6/27/2003	24.50	10.62	13.88	0.49	11.11	13.76
LAI-8	7/7/2003	24.50	10.67	13.83	2.18	12.85	13.29
LAI-8	7/16/2003	24.50	10.45	14.05	1.37	11.82	13.71
LAI-8	7/31/2003	24.50	10.96	13.54	1.79	12.75	13.09
LAI-8	8/5/2003	24.50	10.82	13.68	2.23	13.05	13.12
LAI-8	8/11/2003	24.50	12.12	12.38	1.57	13.69	11.99
LAI-8	8/22/2003	24.50	12.40	12.10	1.66	14.06	11.69
LAI-8	8/26/2003	24.50	11.44	13.06	1.44	12.88	12.70
LAI-8	9/2/2003	24.50	11.45	13.05	1.78	13.23	12.61
LAI-8	9/9/2003	24.50	11.54	12.96	1.68	13.22	12.54
LAI-8	9/19/2003	24.50	11.61	12.89	1.64	13.25	12.48
LAI-8	10/14/2003	24.50	11.58	12.92	1.60	13.18	12.52
LAI-8	11/20/2003	24.50	8.87	15.63	0.07	8.94	15.61
LAI-8	12/3/2003	24.50	8.01	16.49	0.41	8.42	16.39
LAI-8	1/19/2004	24.50	7.70	16.80	0.44	8.14	16.69
LAI-8	2/24/2004	24.50	--	--	--	9.15	15.35
LAI-8	3/15/2004	24.50	--	--	--	9.71	14.79
LAI-8	4/19/2004	24.50	--	--	--	9.91	14.59
LAI-8	5/17/2004	24.50	--	--	--	10.59	13.91
LAI-8	6/22/2004	24.50	10.48	14.02	0.030	10.51	14.01
LAI-8	8/18/2004	24.50	11.70	12.80	0.010	11.71	12.80
LAI-8	9/21/2004	24.50	--	--	--	10.60	13.90
LAI-8	10/19/2004	24.50	--	--	--	9.73	14.77
LAI-8	11/23/2004	24.50	--	--	--	10.04	14.46
LAI-8	12/21/2004	24.50	8.31	16.19	0.02	8.33	16.19
LAI-8	1/13/2005	24.50	--	--	--	8.89	15.61
LAI-8	4/28/2005	24.50	--	--	--	8.64	15.86
LAI-8	6/1/2005	24.50	--	--	--	8.88	15.62
LAI-8	6/29/2005	24.50	--	--	--	10.55	13.95
LAI-8	7/20/2005	24.50	--	--	--	11.05	13.45
LAI-8	8/22/2005	24.50	--	--	--	10.65	13.85
LAI-8	5/27/2011	24.50			Not Monitored		
LAIx-8	9/12/2005	25.59	--	--	--	12.48	13.11
LAIx-8	10/12/2005	25.59	--	--	--	14.08	11.51
LAIx-8	11/21/2005	25.59	10.74	14.85	0.01	10.75	14.85
LAIx-8	12/27/2005	25.59	--	--	--	10.11	15.48
LAIx-8	1/30/2006	25.59	--	--	--	7.88	17.71
LAIx-8	2/16/2006	25.59	--	--	--	9.34	16.25
LAIx-8	3/13/2006	25.59	--	--	--	10.00	15.59
LAIx-8	4/18/2006	25.59	--	--	--	9.72	15.87
LAIx-8	5/12/2006	25.59	--	--	--	10.59	15.00
LAIx-8	12/21/2004	25.59	--	--	--	10.59	15.00
LAIx-8	6/9/2006	25.59	--	--	--	10.10	15.49
LAIx-8	7/13/2006	25.59	--	--	--	11.30	14.29
LAIx-8	8/16/2006	25.59	--	--	--	11.95	13.64
LAIx-8	9/19/2006	25.59	--	--	--	12.49	13.10
LAIx-8	10/13/2006	25.59	--	--	--	12.30	13.29
LAIx-8	11/20/2006	25.59	--	--	--	8.90	16.69
LAIx-8	12/8/2006	25.59	--	--	--	8.92	16.67
LAIx-8	1/19/2007	25.59	--	--	--	8.57	17.02
LAIx-8	2/19/2007	25.59	--	--	--	10.06	15.53
LAIx-8	3/15/2007	25.59	--	--	--	9.35	16.24
LAIx-8	4/16/2007	25.59	--	--	--	9.75	15.84
LAIx-8	5/14/2007	25.59	--	--	--	10.77	14.82
LAIx-8	6/29/2007	25.59	--	--	--	12.07	13.52

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAIx-8	7/20/2007	25.59	--	--	--	12.52	13.07
LAIx-8	8/21/2007	25.59	--	--	--	12.97	12.62
LAIx-8	9/10/2007	25.59	--	--	--	13.24	12.35
LAIx-8	10/22/2007	25.59	--	--	--	11.91	13.68
LAIx-8	11/28/2007	25.59	--	--	--	11.50	14.09
LAIx-8	12/13/2007	25.59	11.55	14.04	0.08	11.63	14.02
LAIx-8	1/21/2008	25.59	--	--	--	11.04	14.55
LAIx-8	2/24/2008	25.59	--	--	--	11.19	14.40
LAIx-8	3/24/2008	25.59	--	--	--	11.15	14.44
LAIx-8	8/25/2008	25.59	--	--	--	7.67	17.92
LAIx-8	2/18/2009	25.59	--	--	--	11.02	14.57
LAIx-8	8/25/2009	25.59	--	--	--	12.95	12.64
LAIx-8	3/22/2010	25.59	--	--	--	10.86	14.73
LAIx-8	8/23/2010	25.59	--	--	--	10.18	15.41
LAIx-8	2/7/2011	25.59	--	--	--	9.73	15.86
LAIx-8	5/27/2011	25.59			Not Monitored		
LAI-9	1/22/2003	22.48	--	--	--	7.90	14.58
LAI-9	1/23/2003	22.48	--	--	--	8.38	14.10
LAI-9	1/24/2003	22.48	7.10	15.38	0.04	7.14	15.37
LAI-9	1/27/2003	22.48	5.32	17.16	1.54	6.86	16.78
LAI-9	1/28/2003	22.48	5.90	16.58	1.50	7.40	16.21
LAI-9	1/29/2003	22.48	--	--	--	8.44	14.04
LAI-9	1/30/2003	22.48	--	--	--	8.40	14.08
LAI-9	2/3/2003	22.48	6.57	15.91	0.70	7.27	15.74
LAI-9	2/6/2003	23.93	7.53	16.40	0.15	7.68	16.36
LAI-9	2/11/2003	23.93	7.93	16.00	0.11	8.04	15.97
LAI-9	2/18/2003	23.93	5.50	18.43	2.50	8.00	17.81
LAI-9	2/21/2003	23.93	7.63	16.30	3.68	11.31	15.38
LAI-9	2/26/2003	23.93	6.94	16.99	3.54	10.48	16.11
LAI-9	3/4/2003	23.93	6.98	16.95	3.94	10.92	15.97
LAI-9	3/12/2003	23.93	7.82	16.11	3.39	11.21	15.26
LAI-9	3/14/2003	23.93	8.09	15.84	2.21	10.30	15.29
LAI-9	3/26/2003	23.93	--	--	--	8.95	14.98
LAI-9	3/28/2003	23.93	--	--	--	9.04	14.89
LAI-9	4/2/2003	23.93	8.08	15.85	0.32	8.40	15.77
LAI-9	4/4/2003	23.93	8.34	15.59	0.48	8.82	15.47
LAI-9	4/8/2003	23.93	8.10	15.83	0.49	8.59	15.71
LAI-9	4/11/2003	23.93	8.36	15.57	0.49	8.85	15.45
LAI-9	4/15/2003	23.93	7.81	16.12	0.21	8.02	16.07
LAI-9	4/17/2003	23.93	9.11	14.82	0.13	9.24	14.79
LAI-9	4/22/2003	23.93	8.41	15.52	0.35	8.76	15.43
LAI-9	4/25/2003	23.93	8.32	15.61	0.80	9.12	15.41
LAI-9	5/2/2003	23.93	8.99	14.94	0.01	9.00	14.94
LAI-9	5/6/2003	23.93	8.66	15.27	0.85	9.51	15.06
LAI-9	5/9/2003	23.93	9.75	14.18	0.02	9.77	14.18
LAI-9	5/23/2003	23.93	--	--	--	10.10	13.83
LAI-9	5/28/2003	23.93	10.50	13.43	0.01	10.51	13.43
LAI-9	6/13/2003	23.93	9.91	14.02	0.37	10.28	13.93
LAI-9	6/18/2003	23.93	9.81	14.12	0.51	10.32	13.99
LAI-9	6/27/2003	23.93	9.91	14.02	0.33	10.24	13.94
LAI-9	7/7/2003	23.93	10.21	13.72	0.83	11.04	13.51
LAI-9	7/16/2003	23.93	10.03	13.90	0.84	10.87	13.69
LAI-9	7/31/2003	23.93	10.44	13.49	0.95	11.39	13.25
LAI-9	8/5/2003	23.93	10.25	13.68	1.19	11.44	13.38
LAI-9	8/11/2003	23.93	11.89	12.04	0.12	12.01	12.01
LAI-9	8/22/2003	23.93	11.92	12.01	0.08	12.00	11.99
LAI-9	8/26/2003	23.93	11.03	12.90	0.64	11.67	12.74
LAI-9	9/2/2003	23.93	10.96	12.97	1.03	11.99	12.71
LAI-9	9/9/2003	23.93	11.12	12.81	0.51	11.63	12.68
LAI-9	9/19/2003	23.93	10.89	13.04	1.58	12.47	12.65
LAI-9	10/14/2003	23.93	11.75	12.18	1.07	12.82	11.91
LAI-9	11/20/2003	23.93	--	--	--	8.05	15.88
LAI-9	12/3/2003	23.93	7.21	16.72	0.01	7.22	16.72
LAI-9	1/19/2004	23.93	6.83	17.10	0.01	6.84	17.10
LAI-9	2/24/2004	23.93	--	--	--	8.11	15.82
LAI-9	3/15/2004	23.93	--	--	--	9.08	14.85
LAI-9	4/19/2004	23.93	--	--	--	8.85	15.08
LAI-9	5/17/2004	23.93	--	--	--	9.91	14.02
LAI-9	8/18/2004	23.93	--	--	--	11.10	12.83
LAI-9	8/18/2004	23.93	--	--	--	11.10	12.83
LAI-9	9/21/2004	23.93	10.91	13.02	0.53	11.44	12.89
LAI-9	10/19/2004	23.93	8.92	9.35	0.43	9.35	14.90
LAI-9	11/23/2004	23.93	9.03	14.90	0.31	9.34	14.82
LAI-9	12/21/2004	23.93	7.44	16.49	0.02	7.46	16.49
LAI-9	1/13/2005	23.93	--	--	--	8.19	15.74
LAI-9	4/28/2005	23.93	--	--	--	7.73	16.20
LAI-9	6/1/2005	23.93	--	--	--	8.10	15.83
LAI-9	6/29/2005	23.93	--	--	--	9.77	14.16
LAI-9	7/20/2005	23.93	--	--	--	10.10	13.83
LAI-9	8/22/2005	23.93	--	--	--	9.96	13.97
LAI-9	5/27/2011	23.93			Not Monitored		
LAIx-9	9/12/2005	25.55	--	--	--	14.13	11.42
LAIx-9	10/12/2005	25.55	--	--	--	14.79	10.76
LAIx-9	11/21/2005	25.55	--	--	--	12.98	12.57
LAIx-9	12/27/2005	25.55	--	--	--	11.42	14.13
LAIx-9	1/30/2006	25.55	--	--	--	10.27	15.28
LAIx-9	2/16/2006	25.55	12.35	13.20	0.03	12.38	13.19
LAIx-9	3/13/2006	25.55	--	--	--	12.78	12.77
LAIx-9	4/18/2006	25.55	--	--	--	12.34	13.21

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAIx-9	5/12/2006	25.55	--	--	--	13.33	12.22
LAIx-9	6/9/2006	25.55	--	--	--	12.86	12.69
LAIx-9	7/13/2006	25.55	14.48	11.07	0.06	14.57	11.03
LAIx-9	8/16/2006	25.55	--	--	--	15.30	10.25
LAIx-9	9/19/2006	25.55	--	--	--	14.98	10.57
LAIx-9	10/13/2006	25.55	--	--	--	15.01	10.54
LAIx-9	11/20/2006	25.55	--	--	--	11.77	13.78
LAIx-9	12/8/2006	25.55	11.72	13.83	0.06	11.78	13.82
LAIx-9	1/19/2007	25.55	11.24	14.31	0.04	11.28	14.30
LAIx-9	2/19/2007	25.55	12.23	13.32	0.04	12.27	13.31
LAIx-9	3/15/2007	25.55	12.55	13.00	0.05	12.60	12.99
LAIx-9	4/16/2007	25.55	12.30	13.25	0.03	12.33	13.24
LAIx-9	5/14/2007	25.55	--	--	--	13.41	12.14
LAIx-9	6/29/2007	25.55	--	--	--	13.92	11.63
LAIx-9	7/20/2007	25.55	--	--	--	14.34	11.21
LAIx-9	8/21/2007	25.55	--	--	--	14.25	11.30
LAIx-9	9/10/2007	25.55	--	--	--	14.52	11.03
LAIx-9	10/22/2007	25.55	--	--	--	13.31	12.24
LAIx-9	11/28/2007	25.55	--	--	--	12.50	13.05
LAIx-9	12/13/2007	25.55	--	--	--	11.40	14.15
LAIx-9	1/21/2008	25.55	--	--	--	8.61	16.94
LAIx-9	2/24/2008	25.55	--	--	--	12.30	13.25
LAIx-9	3/24/2008	25.55	--	--	--	12.06	13.49
LAIx-9	8/25/2008	25.55	--	--	--	13.30	12.25
LAIx-9	2/18/2009	25.55			Dry		
LAIx-9	8/25/2009	25.55	--	--	--	14.23	11.32
LAIx-9	3/22/2010	25.55	--	--	--	12.25	13.30
LAIx-9	8/23/2010	25.55			Dry		
LAIx-9	2/7/2011	25.55	--	--	--	11.71	13.84
LAIx-9	5/27/2011	25.55			Not Monitored		
LAIX-9	11/14/2016	25.55	---	---	---	9.75	15.80
LAIX-9	2/16/2017	25.55	---	---	---	8.57	16.98
LAIX-9	5/24/2017	25.55	---	---	---	8.28	17.27
LAIX-9	9/26/2017	25.55	---	---	---	11.83	13.72
LAIX-9	12/11/2017	25.55	---	---	---	7.50	18.05
LAIX-9	2/26/2018	25.55	---	---	---	8.38	17.17
LAI-10	1/31/2003	19.87	--	--	--	4.34	15.53
LAI-10	2/12/2003	19.87	--	--	--	3.93	15.94
LAI-10	2/18/2003	19.87	--	--	--	4.51	15.36
LAI-10	2/21/2003	19.87	--	--	--	4.50	15.37
LAI-10	2/24/2003	19.87	--	--	--	4.48	15.39
LAI-10	3/3/2003	19.87	--	--	--	4.38	15.49
LAI-10	3/12/2003	19.87	--	--	--	4.31	15.56
LAI-10	3/14/2003	19.87	--	--	--	4.08	15.79
LAI-10	3/26/2003	19.87	--	--	--	4.78	15.09
LAI-10	3/28/2003	19.87	--	--	--	4.82	15.05
LAI-10	4/2/2003	19.87	--	--	--	4.25	15.62
LAI-10	4/4/2003	19.87	--	--	--	4.21	15.66
LAI-10	4/8/2003	19.87	--	--	--	4.50	15.37
LAI-10	4/11/2003	19.87	--	--	--	4.48	15.39
LAI-10	4/15/2003	19.87	--	--	--	4.09	15.78
LAI-10	4/17/2003	19.87	--	--	--	4.50	15.37
LAI-10	4/22/2003	19.87	--	--	--	4.45	15.42
LAI-10	4/25/2003	19.87	--	--	--	4.58	15.29
LAI-10	5/2/2003	19.87	--	--	--	4.23	15.64
LAI-10	5/6/2003	19.87	--	--	--	4.86	15.01
LAI-10	5/9/2003	19.87	--	--	--	5.10	14.77
LAI-10	5/16/2003	19.87	--	--	--	5.38	14.49
LAI-10	5/23/2003	19.87	--	--	--	6.50	13.37
LAI-10	5/28/2003	19.87	--	--	--	5.55	14.32
LAI-10	6/13/2003	19.87	--	--	--	6.17	13.70
LAI-10	6/18/2003	19.87	--	--	--	5.86	14.01
LAI-10	6/27/2003	19.87	--	--	--	5.89	13.98
LAI-10	7/7/2003	19.87	--	--	--	6.51	13.36
LAI-10	7/16/2003	19.87	--	--	--	5.53	14.34
LAI-10	7/31/2003	19.87	--	--	--	6.61	13.26
LAI-10	8/5/2003	19.87	--	--	--	6.68	13.19
LAI-10	8/11/2003	19.87	--	--	--	7.15	12.72
LAI-10	8/22/2003	19.87	--	--	--	8.68	11.19
LAI-10	8/26/2003	19.87	--	--	--	7.03	12.84
LAI-10	9/2/2003	19.87	--	--	--	7.15	12.72
LAI-10	9/9/2003	19.87	7.33	12.54	0.01	7.34	12.54
LAI-10	9/19/2003	19.87	--	--	--	7.37	12.50
LAI-10	10/14/2003	19.87	--	--	--	7.75	12.12
LAI-10	11/20/2003	19.87	--	--	--	4.48	15.39
LAI-10	12/3/2003	19.87	--	--	--	3.58	16.29
LAI-10	1/19/2004	19.87	--	--	--	3.29	16.58
LAI-10	2/24/2004	19.87	--	--	--	4.16	15.71
LAI-10	3/15/2004	19.87	--	--	--	5.01	14.86
LAI-10	4/19/2004	19.87	--	--	--	5.30	14.57
LAI-10	5/17/2004	19.87	--	--	--	5.79	14.08
LAI-10	6/22/2004	19.87	--	--	--	5.71	14.16
LAI-10	8/18/2004	19.87	6.71	13.16	0.01	6.72	13.16
LAI-10	9/21/2004	19.87	--	--	--	6.10	13.77
LAI-10	10/19/2004	19.87	--	--	--	5.23	14.64
LAI-10	11/23/2004	19.87	--	--	--	5.45	14.42
LAI-10	12/21/2004	19.87	--	--	--	3.99	15.88
LAI-10	1/13/2005	19.87	--	--	--	4.64	15.23
LAI-10	4/28/2005	19.87	--	--	--	4.23	15.64
LAI-10	6/1/2005	19.87	4.40	13.52	0.03	4.43	15.46

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAI-10	6/29/2005	19.87	--	--	--	5.45	14.42
LAI-10	7/20/2005	19.87	--	--	--	5.75	14.12
LAI-10	8/22/2005	19.87	6.22	13.65	0.01	6.23	13.65
LAI-10	9/12/2005	19.87	6.62	13.25	0.01	6.61	13.27
LAI-10	10/12/2005	19.87	--	--	--	7.11	12.76
LAI-10	11/21/2005	19.87	5.08	14.79	0.01	5.09	14.79
LAI-10	12/27/2005	19.87	--	--	--	4.14	15.73
LAI-10	1/30/2006	19.87	--	--	--	2.45	17.42
LAI-10	2/16/2006	19.87	--	--	--	3.62	16.25
LAI-10	3/13/2006	19.87	--	--	--	4.37	15.50
LAI-10	4/18/2006	19.87	--	--	--	4.51	15.36
LAI-10	5/12/2006	19.87	--	--	--	4.82	15.05
LAI-10	6/9/2006	19.87	--	--	--	4.57	15.30
LAI-10	7/13/2006	19.87	--	--	--	5.41	14.46
LAI-10	8/16/2006	19.87	--	--	--	6.15	13.72
LAI-10	9/19/2006	19.87	--	--	--	5.80	14.07
LAI-10	10/13/2006	19.87	--	--	--	6.60	13.27
LAI-10	11/20/2006	19.87	--	--	--	3.16	16.71
LAI-10	12/8/2006	19.87	--	--	--	3.29	16.58
LAI-10	1/19/2007	19.87	--	--	--	3.39	16.48
LAI-10	2/19/2007	19.87	--	--	--	4.37	15.50
LAI-10	3/15/2007	19.87	--	--	--	3.90	15.97
LAI-10	4/16/2007	19.87	--	--	--	4.20	15.67
LAI-10	5/14/2007	19.87	--	--	--	5.07	14.80
LAI-10	6/29/2007	19.87	--	--	--	6.06	13.81
LAI-10	7/20/2007	19.87	--	--	--	6.32	13.55
LAI-10	8/21/2007	19.87	--	--	--	7.81	12.06
LAI-10	9/10/2007	19.87	--	--	--	6.92	12.95
LAI-10	10/22/2007	19.87	--	--	--	5.99	13.88
LAI-10	11/28/2007	19.87	--	--	--	4.95	14.92
LAI-10	12/13/2007	19.87	--	--	--	4.32	15.55
LAI-10	1/21/2008	19.87	--	--	--	4.49	15.38
LAI-10	2/24/2008	19.87	--	--	--	4.89	14.98
LAI-10	3/24/2008	19.87	--	--	--	4.96	14.91
LAI-10	8/25/2008	19.87	--	--	--	5.63	14.24
LAI-10	2/18/2009	19.87	--	--	--	5.10	14.77
LAI-10	8/25/2009	19.87	--	--	--	7.22	12.65
LAI-10	3/22/2010	19.87	--	--	--	4.90	14.97
LAI-10	8/23/2010	19.87	--	--	--	6.34	13.53
LAI-10	2/7/2011	19.87	--	--	--	4.21	15.66
LAI-10	5/27/2011	19.87	--	--	--	4.78	15.09
LAI-10	8/8/2011	19.87	--	--	--	8.15	11.72
LAI-10	11/14/2011	19.87	--	--	--	5.73	14.14
LAI-10	2/20/2012	19.87	--	--	--	4.25	15.62
LAI-10	8/22/2012	19.87	--	--	--	6.09	13.78
LAI-10	11/5/2012	19.87	--	--	--	5.43	14.44
LAI-10	1/28/2013	19.87	--	--	--	3.89	15.98
LAI-10	5/9/2013	19.87	--	--	--	4.54	15.33
LAI-10	8/19/2013	19.87	--	--	--	6.69	13.18
LAI-10	11/25/2013	19.87	--	--	--	4.91	14.96
LAI-10	2/14/2014	19.87	--	--	--	3.48	16.39
LAI-10	5/5/2014	19.87	--	--	--	3.37	16.50
LAI-10	8/19/2014	19.87	--	--	--	6.47	13.40
LAI-10	11/21/2014	19.87	--	--	--	3.75	16.12
LAI-11	1/31/2003	20.61	--	--	--	4.55	16.06
LAI-11	2/12/2003	20.61	--	--	--	4.92	15.69
LAI-11	2/18/2003	20.61	--	--	--	5.41	15.20
LAI-11	2/21/2003	20.61	--	--	--	5.51	15.10
LAI-11	2/24/2003	20.61	--	--	--	5.48	15.13
LAI-11	3/3/2003	20.61	--	--	--	5.38	15.23
LAI-11	3/12/2003	20.61	--	--	--	5.32	15.29
LAI-11	3/14/2003	20.61	--	--	--	5.19	15.42
LAI-11	3/26/2003	20.61	--	--	--	4.81	15.80
LAI-11	3/28/2003	20.61	--	--	--	4.89	15.72
LAI-11	4/2/2003	20.61	--	--	--	5.28	15.33
LAI-11	4/4/2003	20.61	--	--	--	5.33	15.28
LAI-11	4/8/2003	20.61	--	--	--	5.41	15.20
LAI-11	4/11/2003	20.61	--	--	--	5.42	15.19
LAI-11	4/15/2003	20.61	--	--	--	5.08	15.53
LAI-11	4/17/2003	20.61	--	--	--	5.46	15.15
LAI-11	4/22/2003	20.61	--	--	--	5.47	15.14
LAI-11	4/25/2003	20.61	--	--	--	5.67	14.94
LAI-11	5/2/2003	20.61	--	--	--	5.12	15.49
LAI-11	5/6/2003	20.61	--	--	--	5.81	14.80
LAI-11	5/9/2003	20.61	--	--	--	6.00	14.61
LAI-11	5/16/2003	20.61	--	--	--	6.30	14.31
LAI-11	5/23/2003	20.61	--	--	--	6.58	14.03
LAI-11	5/28/2003	20.61	--	--	--	6.44	14.17
LAI-11	6/13/2003	20.61	--	--	--	6.70	13.91
LAI-11	6/18/2003	20.61	--	--	--	6.80	13.81
LAI-11	6/27/2003	20.61	--	--	--	6.81	13.80
LAI-11	7/7/2003	20.61	--	--	--	7.51	13.10
LAI-11	7/16/2003	20.61	--	--	--	6.42	14.19
LAI-11	7/31/2003	20.61	--	--	--	8.91	11.70
LAI-11	8/5/2003	20.61	--	--	--	8.51	12.10
LAI-11	8/11/2003	20.61	--	--	--	8.79	11.82
LAI-11	8/22/2003	20.61	--	--	--	8.43	12.18
LAI-11	8/26/2003	20.61	--	--	--	8.92	11.69
LAI-11	9/2/2003	20.61	--	--	--	8.95	11.66
LAI-11	9/9/2003	20.61	--	--	--	9.24	11.37

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAI-11	9/19/2003	20.61	--	--	--	8.99	11.62
LAI-11	10/14/2003	20.61	--	--	--	9.15	11.46
LAI-11	11/20/2003	20.61	--	--	--	5.31	15.30
LAI-11	12/3/2003	20.61	--	--	--	4.50	16.11
LAI-11	1/19/2004	20.61	--	--	--	4.33	16.28
LAI-11	2/24/2004	20.61	--	--	--	5.19	15.42
LAI-11	3/15/2004	20.61	--	--	--	5.94	14.67
LAI-11	4/19/2004	20.61	--	--	--	6.23	14.38
LAI-11	5/17/2004	20.61	--	--	--	6.80	13.81
LAI-11	6/22/2004	20.61	--	--	--	6.70	13.91
LAI-11	8/18/2004	20.61	--	--	--	8.19	12.42
LAI-11	9/21/2004	20.61	--	--	--	7.03	13.58
LAI-11	10/19/2004	20.61	--	--	--	6.10	14.51
LAI-11	11/23/2004	20.61	--	--	--	6.35	14.26
LAI-11	12/21/2004	20.61	--	--	--	4.81	15.80
LAI-11	1/13/2005	20.61	--	--	--	5.40	15.21
LAI-11	4/28/2005	20.61	--	--	--	5.13	15.48
LAI-11	6/1/2005	20.61	--	--	--	5.32	15.29
LAI-11	6/29/2005	20.61	--	--	--	6.28	14.33
LAI-11	7/20/2005	20.61	--	--	--	6.55	14.06
LAI-11	8/22/2005	20.61	6.94	13.67	0.01	6.95	13.67
LAI-11	9/12/2005	20.61	6.90	13.71	0.46	7.36	13.60
LAI-11	10/12/2005	20.61	8.185	12.43	0.005	8.19	12.42
LAI-11	11/21/2005	20.61	--	--	--	5.81	14.80
LAI-11	12/27/2005	20.61	--	--	--	5.24	15.37
LAI-11	1/30/2006	20.61	--	--	--	2.99	17.62
LAI-11	2/16/2006	20.61	--	--	--	4.44	16.17
LAI-11	3/13/2006	20.61	--	--	--	5.20	15.41
LAI-11	4/18/2006	20.61	--	--	--	5.43	15.18
LAI-11	5/12/2006	20.61	--	--	--	5.65	14.96
LAI-11	6/9/2006	20.61	--	--	--	5.48	15.13
LAI-11	7/13/2006	20.61	--	--	--	6.25	14.36
LAI-11	8/16/2006	20.61	--	--	--	7.05	13.56
LAI-11	9/19/2006	20.61	--	--	--	7.65	12.96
LAI-11	10/13/2006	20.61	--	--	--	7.46	13.15
LAI-11	11/20/2006	20.61	--	--	--	4.03	16.58
LAI-11	12/8/2006	20.61	--	--	--	4.12	16.49
LAI-11	1/19/2007	20.61	--	--	--	4.16	16.45
LAI-11	2/19/2007	20.61	--	--	--	5.31	15.30
LAI-11	3/15/2007	20.61	--	--	--	4.80	15.81
LAI-11	4/16/2007	20.61	--	--	--	5.10	15.51
LAI-11	5/14/2007	20.61	--	--	--	5.92	14.69
LAI-11	6/29/2007	20.61	--	--	--	6.82	13.79
LAI-11	7/20/2007	20.61	--	--	--	7.12	13.49
LAI-11	8/21/2007	20.61	--	--	--	7.76	12.85
LAI-11	9/10/2007	20.61	--	--	--	7.87	12.74
LAI-11	10/22/2007	20.61	--	--	--	7.26	13.35
LAI-11	11/28/2007	20.61	--	--	--	6.00	14.61
LAI-11	12/13/2007	20.61	--	--	--	5.06	15.55
LAI-11	1/21/2008	20.61	--	--	--	4.38	16.23
LAI-11	2/24/2008	20.61	--	--	--	5.71	14.90
LAI-11	3/24/2008	20.61	--	--	--	5.88	14.73
LAI-11	8/25/2008	20.61	--	--	--	6.40	14.21
LAI-11	2/18/2009	20.61	--	--	--	5.84	14.77
LAI-11	8/25/2009	20.61	--	--	--	7.95	12.66
LAI-11	3/22/2010	20.61	--	--	--	5.56	15.05
LAI-11	8/23/2010	20.61	--	--	--	7.36	13.25
LAI-11	2/7/2011	20.61	--	--	--	4.90	15.71
LAI-11	5/27/2011	20.61			Not Monitored		
LAI-11	8/8/2011	20.61	--	--	--	6.89	13.72
LAI-11	11/14/2011	20.61	--	--	--	6.63	13.98
LAI-11	2/20/2012	20.61	--	--	--	4.94	15.67
LAI-11	8/22/2012	20.61	--	--	--	6.86	13.75
LAI-11	11/5/2012	20.61	--	--	--	6.00	14.61
LAI-11	1/28/2013	20.61	--	--	--	4.63	15.98
LAI-11	5/9/2013	20.61	--	--	--	5.43	15.18
LAI-11	8/19/2013	20.61	--	--	--	7.41	13.20
LAI-11	11/25/2013	20.61	--	--	--	5.64	14.97
LAI-11	2/14/2014	20.61	--	--	--	4.31	16.30
LAI-11	5/5/2014	20.61	--	--	--	3.56	17.05
LAI-11	8/19/2014	20.61	--	--	--	7.27	13.34
LAI-11	11/21/2014	20.61	--	--	--	5.03	15.58
LAI-12	1/31/2003	19.34	--	--	--	3.28	16.06
LAI-12	2/12/2003	19.34	--	--	--	3.98	15.36
LAI-12	2/18/2003	19.34	--	--	--	4.50	14.84
LAI-12	2/21/2003	19.34	--	--	--	4.60	14.74
LAI-12	2/24/2003	19.34	--	--	--	4.58	14.76
LAI-12	3/3/2003	19.34	--	--	--	4.61	14.73
LAI-12	3/12/2003	19.34	--	--	--	4.38	14.96
LAI-12	3/14/2003	19.34	--	--	--	4.17	15.17
LAI-12	3/26/2003	19.34	--	--	--	4.04	15.30
LAI-12	3/28/2003	19.34	--	--	--	4.10	15.24
LAI-12	4/2/2003	19.34	--	--	--	4.34	15.00
LAI-12	4/4/2003	19.34	--	--	--	4.45	14.89
LAI-12	4/8/2003	19.34	--	--	--	4.58	14.76
LAI-12	4/11/2003	19.34	--	--	--	4.65	14.69
LAI-12	4/15/2003	19.34	--	--	--	4.25	15.09
LAI-12	4/17/2003	19.34	--	--	--	4.69	14.65
LAI-12	4/22/2003	19.34	--	--	--	4.69	14.65
LAI-12	4/25/2003	19.34	--	--	--	4.81	14.53

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAI-12	5/2/2003	19.34	--	--	--	4.98	14.36
LAI-12	5/6/2003	19.34	--	--	--	5.22	14.12
LAI-12	5/9/2003	19.34	--	--	--	5.46	13.88
LAI-12	5/16/2003	19.34	--	--	--	5.74	13.60
LAI-12	5/23/2003	19.34	--	--	--	5.27	14.07
LAI-12	5/28/2003	19.34	--	--	--	5.88	13.46
LAI-12	6/13/2003	19.34	--	--	--	5.45	13.89
LAI-12	6/18/2003	19.34	--	--	--	6.18	13.16
LAI-12	6/27/2003	19.34	--	--	--	6.22	13.12
LAI-12	7/7/2003	19.34	--	--	--	6.95	12.39
LAI-12	7/16/2003	19.34	--	--	--	5.84	13.50
LAI-12	7/31/2003	19.34	--	--	--	6.97	12.37
LAI-12	8/5/2003	19.34	--	--	--	7.05	12.29
LAI-12	8/11/2003	19.34	--	--	--	6.80	12.54
LAI-12	8/22/2003	19.34	--	--	--	8.19	11.15
LAI-12	8/26/2003	19.34	--	--	--	7.33	12.01
LAI-12	9/2/2003	19.34	--	--	--	7.45	11.89
LAI-12	9/9/2003	19.34	--	--	--	7.64	11.70
LAI-12	9/19/2003	19.34	--	--	--	7.93	11.41
LAI-12	10/14/2003	19.34	--	--	--	7.48	11.86
LAI-12	11/20/2003	19.34	--	--	--	4.06	15.28
LAI-12	12/3/2003	19.34	--	--	--	3.37	15.97
LAI-12	1/19/2004	19.34	--	--	--	3.81	15.53
LAI-12	2/24/2004	19.34	--	--	--	4.32	15.02
LAI-12	3/15/2004	19.34	--	--	--	5.13	14.21
LAI-12	4/19/2004	19.34	--	--	--	5.61	13.73
LAI-12	5/17/2004	19.34	--	--	--	6.23	13.11
LAI-12	6/22/2004	19.34	--	--	--	6.14	13.20
LAI-12	8/18/2004	19.34	--	--	--	7.15	12.19
LAI-12	9/21/2004	19.34	--	--	--	6.18	13.16
LAI-12	10/19/2004	19.34	--	--	--	5.39	13.95
LAI-12	11/23/2004	19.34	--	--	--	5.68	13.66
LAI-12	12/21/2004	19.34	--	--	--	3.86	15.48
LAI-12	1/13/2005	19.34	--	--	--	4.95	14.39
LAI-12	4/28/2005	19.34	--	--	--	4.41	14.93
LAI-12	6/1/2005	19.34	--	--	--	4.61	14.73
LAI-12	6/29/2005	19.34	--	--	--	5.77	13.57
LAI-12	7/20/2005	19.34	9.15	10.19	0.01	9.16	10.19
LAI-12	8/22/2005	19.34	6.48	12.86	0.01	6.49	12.86
LAI-12	9/12/2005	19.34	--	--	--	6.90	12.44
LAI-12	10/12/2005	19.34	7.40	11.94	0.01	7.41	11.94
LAI-12	11/21/2005	19.34	--	--	--	4.48	14.86
LAI-12	12/27/2005	19.34	--	--	--	3.95	15.39
LAI-12	1/30/2006	19.34	--	--	--	2.33	17.01
LAI-12	2/16/2006	19.34	--	--	--	3.33	16.01
LAI-12	3/13/2006	19.34	--	--	--	4.34	15.00
LAI-12	4/18/2006	19.34	--	--	--	4.69	14.65
LAI-12	5/12/2006	19.34	--	--	--	4.99	14.35
LAI-12	6/9/2006	19.34	--	--	--	4.61	14.73
LAI-12	7/13/2006	19.34	--	--	--	5.68	13.66
LAI-12	8/16/2006	19.34	--	--	--	6.41	12.93
LAI-12	9/19/2006	19.34	--	--	--	6.98	12.36
LAI-12	10/13/2006	19.34	--	--	--	6.78	12.56
LAI-12	11/20/2006	19.34	--	--	--	3.18	16.16
LAI-12	12/8/2006	19.34	--	--	--	2.89	16.45
LAI-12	1/19/2007	19.34	--	--	--	2.85	16.49
LAI-12	2/19/2007	19.34	--	--	--	4.55	14.79
LAI-12	3/15/2007	19.34	--	--	--	3.73	15.61
LAI-12	4/16/2007	19.34	--	--	--	4.19	15.15
LAI-12	5/14/2007	19.34	--	--	--	5.37	13.97
LAI-12	6/29/2007	19.34	--	--	--	6.30	13.04
LAI-12	7/20/2007	19.34	--	--	--	6.56	12.78
LAI-12	8/21/2007	19.34	--	--	--	7.19	12.15
LAI-12	9/10/2007	19.34	--	--	--	7.21	12.13
LAI-12	10/22/2007	19.34	--	--	--	6.09	13.25
LAI-12	11/28/2007	19.34	--	--	--	5.34	14.00
LAI-12	12/13/2007	19.34	--	--	--	3.97	15.37
LAI-12	1/21/2008	19.34	--	--	--	5.24	14.10
LAI-12	2/24/2008	19.34	--	--	--	5.08	14.26
LAI-12	3/24/2008	19.34	--	--	--	6.25	13.09
LAI-12	8/25/2008	19.34	--	--	--	6.82	12.52
LAI-12	2/18/2009	19.34	--	--	--	5.32	14.02
LAI-12	8/25/2009	19.34	--	--	--	7.44	11.90
LAI-12	3/22/2010	19.34	--	--	--	4.70	14.64
LAI-12	8/23/2010	19.34	--	--	--	6.62	12.72
LAI-12	2/7/2011	19.34	--	--	--	9.65	9.69
LAI-12	5/27/2011	19.34	--	--	--	4.63	14.71
LAI-12	8/8/2011	19.34	--	--	--	6.39	12.95
LAI-12	11/14/2011	19.34	--	--	--	6.19	13.15
LAI-12	2/20/2012	19.34	--	--	--	3.86	15.48
LAI-12	8/22/2012	19.34	--	--	--	6.29	13.05
LAI-12	11/5/2012	19.34	--	--	--	4.71	14.63
LAI-12	1/28/2013	19.34	--	--	--	3.73	15.61
LAI-12	5/9/2013	19.34	--	--	--	4.57	14.77
LAI-12	8/19/2013	19.34	--	--	--	6.82	12.52
LAI-12	11/25/2013	19.34	--	--	--	4.75	14.59
LAI-12	2/14/2014	19.34	--	--	--	4.04	15.30
LAI-12	5/5/2014	19.34	--	--	--	3.12	16.22
LAI-12	8/19/2014	19.34	--	--	--	6.71	12.63
LAI-12	11/21/2014	19.34	--	--	--	4.09	15.25

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAI-13	1/31/2003	21.53	--	--	--	5.25	16.28
LAI-13	2/12/2003	21.53	--	--	--	6.28	15.25
LAI-13	2/18/2003	21.53	--	--	--	6.15	15.38
LAI-13	2/21/2003	21.53	--	--	--	6.29	15.24
LAI-13	2/24/2003	21.53	--	--	--	6.65	14.88
LAI-13	3/3/2003	21.53	--	--	--	6.88	14.65
LAI-13	3/12/2003	21.53	--	--	--	6.87	14.66
LAI-13	3/14/2003	21.53	--	--	--	6.62	14.91
LAI-13	3/26/2003	21.53	6.16	15.37	0.00	6.16	15.37
LAI-13	3/28/2003	21.53	--	--	--	6.21	15.32
LAI-13	4/2/2003	21.53	--	--	--	6.25	15.28
LAI-13	4/4/2003	21.53	--	--	--	6.25	15.28
LAI-13	4/8/2003	21.53	--	--	--	6.69	14.84
LAI-13	4/11/2003	21.53	--	--	--	6.69	14.84
LAI-13	4/15/2003	21.53	--	--	--	6.61	14.92
LAI-13	4/17/2003	21.53	--	--	--	6.66	14.87
LAI-13	4/22/2003	21.53	--	--	--	6.87	14.66
LAI-13	4/25/2003	21.53	--	--	--	6.92	14.61
LAI-13	5/2/2003	21.53	--	--	--	6.71	14.82
LAI-13	5/6/2003	21.53	--	--	--	7.25	14.28
LAI-13	5/9/2003	21.53	--	--	--	7.36	14.17
LAI-13	5/16/2003	21.53	--	--	--	7.63	13.90
LAI-13	5/23/2003	21.53	--	--	--	7.78	13.75
LAI-13	5/28/2003	21.53	--	--	--	7.80	13.73
LAI-13	6/13/2003	21.53	--	--	--	8.01	13.52
LAI-13	6/18/2003	21.53	--	--	--	8.02	13.51
LAI-13	6/27/2003	21.53	--	--	--	8.06	13.47
LAI-13	7/7/2003	21.53	--	--	--	8.45	13.08
LAI-13	7/16/2003	21.53	--	--	--	7.71	13.82
LAI-13	7/31/2003	21.53	--	--	--	8.51	13.02
LAI-13	8/5/2003	21.53	--	--	--	8.54	12.99
LAI-13	8/11/2003	21.53	--	--	--	8.62	12.91
LAI-13	8/22/2003	21.53	--	--	--	9.81	11.72
LAI-13	8/26/2003	21.53	--	--	--	8.81	12.72
LAI-13	9/2/2003	21.53	--	--	--	8.88	12.65
LAI-13	9/9/2003	21.53	--	--	--	8.91	12.62
LAI-13	9/19/2003	21.53	--	--	--	10.94	10.59
LAI-13	10/14/2003	21.53	--	--	--	9.08	12.45
LAI-13	11/20/2003	21.53	--	--	--	5.94	15.59
LAI-13	12/3/2003	21.53	--	--	--	5.52	16.01
LAI-13	1/19/2004	21.53	--	--	--	5.39	16.14
LAI-13	2/24/2004	21.53	--	--	--	5.77	15.76
LAI-13	3/15/2004	21.53	--	--	--	6.66	14.87
LAI-13	4/19/2004	21.53	--	--	--	7.58	13.95
LAI-13	5/17/2004	21.53	--	--	--	8.05	13.48
LAI-13	6/22/2004	21.53	--	--	--	7.91	13.62
LAI-13	8/18/2004	21.53	--	--	--	8.57	12.96
LAI-13	9/21/2004	21.53	--	--	--	7.28	14.25
LAI-13	10/19/2004	21.53	--	--	--	7.10	14.43
LAI-13	11/23/2004	21.53	--	--	--	7.39	14.14
LAI-13	12/21/2004	21.53	--	--	--	5.69	15.84
LAI-13	1/13/2005	21.53	--	--	--	6.76	14.77
LAI-13	4/28/2005	21.53	--	--	--	6.71	14.82
LAI-13	6/1/2005	21.53	--	--	--	6.78	14.75
LAI-13	6/29/2005	21.53	--	--	--	7.51	14.02
LAI-13	7/20/2005	21.53	--	--	--	7.80	13.73
LAI-13	8/22/2005	21.53	--	--	--	8.17	13.36
LAI-13	9/12/2005	21.53	--	--	--	9.41	12.12
LAI-13	10/12/2005	21.53	--	--	--	8.63	12.90
LAI-13	11/21/2005	21.53	--	--	--	7.05	14.48
LAI-13	12/27/2005	21.53	--	--	--	5.70	15.83
LAI-13	1/30/2006	21.53	--	--	--	4.63	16.90
LAI-13	2/16/2006	21.53	--	--	--	5.42	16.11
LAI-13	3/13/2006	21.53	--	--	--	6.24	15.29
LAI-13	4/18/2006	21.53	--	--	--	6.82	14.71
LAI-13	5/12/2006	21.53	--	--	--	7.25	14.28
LAI-13	6/9/2006	21.53	--	--	--	6.86	14.67
LAI-13	7/13/2006	21.53	--	--	--	7.71	13.82
LAI-13	8/16/2006	21.53	--	--	--	8.16	13.37
LAI-13	9/19/2006	21.53	--	--	--	8.69	12.84
LAI-13	10/13/2006	21.53	--	--	--	8.37	13.16
LAI-13	11/20/2006	21.53	--	--	--	4.28	17.25
LAI-13	12/8/2006	21.53	--	--	--	4.01	17.52
LAI-13	1/19/2007	21.53	--	--	--	5.02	16.51
LAI-13	2/19/2007	21.53	--	--	--	6.60	14.93
LAI-13	3/15/2007	21.53	--	--	--	5.87	15.66
LAI-13	4/16/2007	21.53	--	--	--	6.35	15.18
LAI-13	5/14/2007	21.53	--	--	--	7.40	14.13
LAI-13	6/29/2007	21.53	--	--	--	8.05	13.48
LAI-13	7/20/2007	21.53	--	--	--	8.05	13.48
LAI-13	8/21/2007	21.53	--	--	--	8.22	13.31
LAI-13	9/10/2007	21.53	--	--	--	8.30	13.23
LAI-13	10/22/2007	21.53	--	--	--	7.27	14.26
LAI-13	11/28/2007	21.53	--	--	--	6.87	14.66
LAI-13	12/13/2007	21.53	--	--	--	5.06	16.47
LAI-13	1/21/2008	21.53	--	--	--	5.36	16.17
LAI-13	2/24/2008	21.53	--	--	--	6.51	15.02
LAI-13	3/24/2008	21.53	--	--	--	7.14	14.39
LAI-13	8/25/2008	21.53	--	--	--	7.89	13.64
LAI-13	2/18/2009	21.53	--	--	--	6.93	14.60
LAI-13	8/25/2009	21.53	--	--	--	8.60	12.93

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAI-13	3/22/2010	21.53	--	--	--	5.95	15.58
LAI-13	8/23/2010	21.53	--	--	--	7.76	13.77
LAI-13	2/7/2011	21.53	--	--	--	5.60	15.93
LAI-13	5/27/2011	21.53			Not Monitored		
LAI-13	8/8/2011	21.53	--	--	--	7.70	13.83
LAI-13	11/14/2011	21.53	--	--	--	7.40	14.13
LAI-13	2/20/2012	21.53	--	--	--	5.03	16.5
LAI-13	8/22/2012	21.53	--	--	--	7.86	13.67
LAI-13	11/5/2012	21.53	--	--	--	5.86	15.67
LAI-13	1/28/2013	21.53	--	--	--	5.79	15.74
LAI-13	5/9/2013	21.53	--	--	--	6.05	15.48
LAI-13	8/19/2013	21.53	--	--	--	8.21	13.32
LAI-13	11/25/2013	21.53	--	--	--	6.08	15.45
LAI-13	2/14/2014	21.53	--	--	--	6.23	15.30
LAI-13	5/5/2014	21.53	--	--	--	5.07	16.46
LAI-13	8/19/2014	21.53	--	--	--	7.85	13.68
LAI-13	11/21/2014	21.53	--	--	--	5.91	15.62
LAI-14	1/31/2003	21.69	--	--	--	6.12	15.57
LAI-14	2/12/2003	21.69	--	--	--	7.11	14.58
LAI-14	2/18/2003	21.69	--	--	--	7.17	14.52
LAI-14	2/21/2003	21.69	--	--	--	7.25	14.44
LAI-14	2/24/2003	21.69	--	--	--	7.25	14.44
LAI-14	3/3/2003	21.69	--	--	--	7.50	14.19
LAI-14	3/12/2003	21.69	--	--	--	7.40	14.29
LAI-14	3/14/2003	21.69	--	--	--	7.23	14.46
LAI-14	3/26/2003	21.69	--	--	--	7.04	14.65
LAI-14	3/28/2003	21.69	--	--	--	7.07	14.62
LAI-14	4/2/2003	21.69	--	--	--	7.00	14.69
LAI-14	4/4/2003	21.69	--	--	--	7.24	14.45
LAI-14	4/8/2003	21.69	--	--	--	7.41	14.28
LAI-14	4/11/2003	21.69	--	--	--	7.36	14.33
LAI-14	4/15/2003	21.69	--	--	--	7.34	14.35
LAI-14	4/17/2003	21.69	--	--	--	7.39	14.30
LAI-14	4/22/2003	21.69	--	--	--	7.53	14.16
LAI-14	4/25/2003	21.69	--	--	--	7.62	14.07
LAI-14	5/2/2003	21.69	--	--	--	7.20	14.49
LAI-14	5/6/2003	21.69	--	--	--	7.82	13.87
LAI-14	5/9/2003	21.69	--	--	--	7.86	13.83
LAI-14	5/16/2003	21.69	--	--	--	8.00	13.69
LAI-14	5/23/2003	21.69	--	--	--	8.03	13.66
LAI-14	5/28/2003	21.69	--	--	--	8.14	13.55
LAI-14	6/13/2003	21.69	--	--	--	8.30	13.39
LAI-14	6/18/2003	21.69	--	--	--	8.33	13.36
LAI-14	6/27/2003	21.69	--	--	--	8.35	13.34
LAI-14	7/7/2003	21.69	--	--	--	8.65	13.04
LAI-14	7/16/2003	21.69	--	--	--	7.83	13.86
LAI-14	7/31/2003	21.69	--	--	--	8.41	13.28
LAI-14	8/5/2003	21.69	--	--	--	8.73	12.96
LAI-14	8/11/2003	21.69	--	--	--	8.80	12.89
LAI-14	8/22/2003	21.69	--	--	--	9.89	11.80
LAI-14	8/26/2003	21.69	--	--	--	9.04	12.65
LAI-14	9/2/2003	21.69	--	--	--	9.07	12.62
LAI-14	9/9/2003	21.69	--	--	--	9.14	12.55
LAI-14	9/19/2003	21.69	--	--	--	9.14	12.55
LAI-14	10/14/2003	21.69	--	--	--	9.30	12.39
LAI-14	11/20/2003	21.69	--	--	--	6.59	15.10
LAI-14	12/3/2003	21.69	--	--	--	6.53	15.16
LAI-14	1/19/2004	21.69	--	--	--	6.45	15.24
LAI-14	2/24/2004	21.69	--	--	--	7.03	14.66
LAI-14	3/15/2004	21.69	--	--	--	7.52	14.17
LAI-14	4/19/2004	21.69	--	--	--	8.03	13.66
LAI-14	5/17/2004	21.69	--	--	--	8.32	13.37
LAI-14	6/22/2004	21.69	--	--	--	8.26	13.43
LAI-14	8/18/2004	21.69	--	--	--	8.86	12.83
LAI-14	9/21/2004	21.69	--	--	--	8.00	13.69
LAI-14	10/19/2004	21.69	--	--	--	8.00	13.69
LAI-14	11/23/2004	21.69	--	--	--	8.00	13.69
LAI-14	12/21/2004	21.69	--	--	--	7.11	14.58
LAI-14	1/13/2005	21.69	--	--	--	7.68	14.01
LAI-14	4/28/2005	21.69	--	--	--	7.47	14.22
LAI-14	6/1/2005	21.69	--	--	--	7.58	14.11
LAI-14	6/29/2005	21.69	--	--	--	8.02	13.67
LAI-14	7/20/2005	21.69	8.23	13.46	0.01	8.24	13.46
LAI-14	8/22/2005	21.69	--	--	--	8.50	13.19
LAI-14	9/12/2005	21.69	--	--	--	8.63	13.06
LAI-14	10/12/2005	21.69	--	--	--	8.86	12.83
LAI-14	11/21/2005	21.69	--	--	--	7.41	14.28
LAI-14	12/27/2005	21.69	--	--	--	6.48	15.21
LAI-14	1/30/2006	21.69	--	--	--	4.68	17.01
LAI-14	2/16/2006	21.69	6.30	15.39	0.07	6.37	15.37
LAI-14	3/13/2006	21.69	--	--	--	7.43	14.26
LAI-14	4/18/2006	21.69	--	--	--	7.56	14.13
LAI-14	5/12/2006	21.69	--	--	--	7.75	13.94
LAI-14	6/9/2006	21.69	--	--	--	7.58	14.11
LAI-14	7/13/2006	21.69	--	--	--	8.10	13.59
LAI-14	8/16/2006	21.69	--	--	--	8.43	13.26
LAI-14	9/19/2006	21.69	--	--	--	8.70	12.99
LAI-14	10/13/2006	21.69	--	--	--	8.56	13.13
LAI-14	11/20/2006	21.69	--	--	--	5.64	16.05
LAI-14	12/8/2006	21.69	--	--	--	6.12	15.57

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAI-14	1/19/2007	21.69	--	--	--	6.12	15.57
LAI-14	2/19/2007	21.69	--	--	--	7.45	14.24
LAI-14	3/15/2007	21.69	--	--	--	6.95	14.74
LAI-14	4/16/2007	21.69	--	--	--	7.38	14.31
LAI-14	5/14/2007	21.69	--	--	--	7.84	13.85
LAI-14	6/29/2007	21.69	--	--	--	8.27	13.42
LAI-14	7/20/2007	21.69	--	--	--	8.31	13.38
LAI-14	8/21/2007	21.69	--	--	--	8.48	13.21
LAI-14	9/10/2007	21.69	--	--	--	8.59	13.10
LAI-14	10/22/2007	21.69	--	--	--	7.82	13.87
LAI-14	11/28/2007	21.69	--	--	--	5.50	16.19
LAI-14	12/13/2007	21.69	--	--	--	6.45	15.24
LAI-14	1/21/2008	21.69	--	--	--	6.77	14.92
LAI-14	2/24/2008	21.69	--	--	--	7.37	14.32
LAI-14	3/24/2008	21.69	--	--	--	7.59	14.10
LAI-14	8/25/2008	21.69	--	--	--	8.36	13.33
LAI-14	2/18/2009	21.69	--	--	--	7.60	14.09
LAI-14	8/25/2009	21.69	--	--	--	8.78	12.91
LAI-14	3/22/2010	21.69	--	--	--	7.17	14.52
LAI-14	8/23/2010	21.69	--	--	--	8.13	13.56
LAI-14	2/7/2011	21.69	--	--	--	6.71	14.98
LAI-14	5/27/2011	21.69	--	--	--	6.98	14.71
LAI-14	8/8/2011	21.69	--	--	--	8.06	13.63
LAI-14	11/14/2011	21.69	--	--	--	7.91	13.78
LAI-14	2/20/2012	21.69	--	--	--	6.39	15.30
LAI-14	8/22/2012	21.69	--	--	--	8.15	13.54
LAI-14	11/5/2012	21.69	--	--	--	6.60	15.09
LAI-14	1/28/2013	21.69	--	--	--	6.91	14.78
LAI-14	5/9/2013	21.69	--	--	--	7.02	14.67
LAI-14	8/19/2013	21.69	--	--	--	8.51	13.18
LAI-14	11/25/2013	21.69	--	--	--	7.07	14.62
LAI-14	2/14/2014	21.69	--	--	--	6.79	14.90
LAI-14	5/5/2014	21.69	--	--	--	5.94	15.75
LAI-14	11/21/2014	21.69	--	--	--	6.88	14.81
LAI-15	1/31/2003	19.76	--	--	--	6.13	13.63
LAI-15	2/12/2003	19.76	--	--	--	4.23	15.53
LAI-15	2/18/2003	19.76	--	--	--	4.51	15.25
LAI-15	2/21/2003	19.76	--	--	--	4.72	15.04
LAI-15	2/24/2003	19.76	--	--	--	4.74	15.02
LAI-15	3/3/2003	19.76	--	--	--	4.96	14.80
LAI-15	3/12/2003	19.76	--	--	--	4.81	14.95
LAI-15	3/14/2003	19.76	--	--	--	4.14	15.62
LAI-15	3/26/2003	19.76	--	--	--	3.82	15.94
LAI-15	3/28/2003	19.76	--	--	--	3.85	15.91
LAI-15	4/2/2003	19.76	--	--	--	4.40	15.36
LAI-15	4/4/2003	19.76	--	--	--	4.49	15.27
LAI-15	4/8/2003	19.76	--	--	--	4.71	15.05
LAI-15	4/11/2003	19.76	--	--	--	4.80	14.96
LAI-15	4/15/2003	19.76	--	--	--	4.75	15.01
LAI-15	4/17/2003	19.76	--	--	--	4.77	14.99
LAI-15	4/22/2003	19.76	--	--	--	4.99	14.77
LAI-15	4/25/2003	19.76	--	--	--	5.09	14.67
LAI-15	5/2/2003	19.76	--	--	--	5.13	14.63
LAI-15	5/6/2003	19.76	--	--	--	5.55	14.21
LAI-15	5/9/2003	19.76	--	--	--	5.68	14.08
LAI-15	5/16/2003	19.76	--	--	--	4.90	14.86
LAI-15	5/23/2003	19.76	--	--	--	6.12	13.64
LAI-15	5/28/2003	19.76	--	--	--	6.13	13.63
LAI-15	6/13/2003	19.76	--	--	--	6.33	13.43
LAI-15	6/18/2003	19.76	--	--	--	6.35	13.41
LAI-15	6/27/2003	19.76	--	--	--	6.39	13.37
LAI-15	7/7/2003	19.76	--	--	--	6.75	13.01
LAI-15	7/16/2003	19.76	--	--	--	6.03	13.73
LAI-15	7/31/2003	19.76	--	--	--	6.83	12.93
LAI-15	8/5/2003	19.76	--	--	--	6.85	12.91
LAI-15	8/11/2003	19.76	--	--	--	6.93	12.83
LAI-15	8/22/2003	19.76	--	--	--	8.04	11.72
LAI-15	8/26/2003	19.76	--	--	--	7.11	12.65
LAI-15	9/2/2003	19.76	--	--	--	7.21	12.55
LAI-15	9/9/2003	19.76	--	--	--	7.23	12.53
LAI-15	9/19/2003	19.76	--	--	--	--	NM
LAI-15	10/14/2003	19.76	--	--	--	7.45	12.31
LAI-15	11/20/2003	19.76	--	--	--	4.11	15.65
LAI-15	12/3/2003	19.76	--	--	--	3.65	16.11
LAI-15	1/19/2004	19.76	--	--	--	3.59	16.17
LAI-15	2/24/2004	19.76	--	--	--	4.26	15.50
LAI-15	3/15/2004	19.76	--	--	--	5.19	14.57
LAI-15	4/19/2004	19.76	--	--	--	5.97	13.79
LAI-15	5/17/2004	19.76	--	--	--	6.42	13.34
LAI-15	6/22/2004	19.76	--	--	--	6.09	13.67
LAI-15	8/18/2004	19.76	--	--	--	6.93	12.83
LAI-15	9/21/2004	19.76	--	--	--	6.05	13.71
LAI-15	10/19/2004	19.76	--	--	--	5.75	14.01
LAI-15	11/23/2004	19.76	--	--	--	5.91	13.85
LAI-15	12/21/2004	19.76	--	--	--	4.28	15.48
LAI-15	1/13/2005	19.76	--	--	--	5.32	14.44
LAI-15	4/28/2005	19.76	--	--	--	4.91	14.85
LAI-15	6/1/2005	20.03	--	--	--	5.17	14.86
LAI-15	6/29/2005	20.03	--	--	--	5.67	14.36
LAI-15	7/20/2005	20.03	--	--	--	6.32	13.71

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAI-15	8/22/2005	20.03	--	--	--	6.62	13.41
LAI-15	9/12/2005	20.03	--	--	--	6.82	13.21
LAI-15	10/12/2005	20.03	--	--	--	7.08	12.95
LAI-15	11/21/2005	20.03	--	--	--	5.04	14.99
LAI-15	12/27/2005	20.03	--	--	--	3.84	16.19
LAI-15	1/30/2006	20.03	--	--	--	1.11	18.92
LAI-15	2/16/2006	20.03	--	--	--	3.52	16.51
LAI-15	3/13/2006	20.03	--	--	--	4.92	15.11
LAI-15	4/18/2006	20.03	--	--	--	5.35	14.68
LAI-15	5/12/2006	20.03	--	--	--	5.61	14.42
LAI-15	6/9/2006	20.03	--	--	--	5.32	14.71
LAI-15	7/13/2006	20.03	--	--	--	6.20	13.83
LAI-15	8/16/2006	20.03	--	--	--	6.60	13.43
LAI-15	9/19/2006	20.03	--	--	--	7.05	12.98
LAI-15	10/13/2006	20.03	--	--	--	6.80	13.23
LAI-15	11/20/2006	20.03	--	--	--	2.53	17.50
LAI-15	12/8/2006	20.03	--	--	--	3.11	16.92
LAI-15	1/19/2007	20.03	--	--	--	3.12	16.91
LAI-15	2/19/2007	20.03	--	--	--	5.10	14.93
LAI-15	3/15/2007	20.03	--	--	--	4.32	15.71
LAI-15	4/16/2007	20.03	--	--	--	4.76	15.27
LAI-15	5/14/2007	20.03	--	--	--	5.88	14.15
LAI-15	6/29/2007	20.03	--	--	--	6.44	13.59
LAI-15	7/20/2007	20.03	--	--	--	6.55	13.48
LAI-15	8/21/2007	20.03	--	--	--	6.74	13.29
LAI-15	9/10/2007	20.03	--	--	--	6.84	13.19
LAI-15	10/22/2007	20.03	--	--	--	6.03	14.00
LAI-15	11/28/2007	20.03	--	--	--	5.34	14.69
LAI-15	12/13/2007	20.03	--	--	--	3.50	16.53
LAI-15	1/21/2008	20.03	--	--	--	4.12	15.91
LAI-15	2/24/2008	20.03	--	--	--	5.14	14.89
LAI-15	3/24/2008	20.03	--	--	--	5.52	14.51
LAI-15	8/25/2008	20.03	--	--	--	6.62	13.41
LAI-15	2/18/2009	20.03	--	--	--	5.50	14.53
LAI-15	8/25/2009	20.03	--	--	--	6.94	13.09
LAI-15	3/22/2010	20.03	--	--	--	4.71	15.32
LAI-15	8/23/2010	20.03	--	--	--	6.36	13.67
LAI-15	2/7/2011	20.03	--	--	--	4.20	15.83
LAI-15	5/27/2011	20.03			Not Monitored		
LAI-15	8/8/2011	20.03	--	--	--	6.30	13.73
LAI-15	11/14/2011	20.03	--	--	--	6.05	13.98
LAI-15	2/20/2012	20.03	--	--	--	3.88	16.15
LAI-15	8/22/2012	20.03	--	--	--	6.40	13.63
LAI-15	11/5/2012	20.03	--	--	--	4.71	15.32
LAI-15	1/28/2013	20.03	--	--	--	4.41	15.62
LAI-15	5/9/2013	20.03	--	--	--	4.79	15.24
LAI-15	8/19/2013	20.03	--	--	--	6.69	13.34
LAI-15	11/25/2013	20.03	--	--	--	4.86	15.17
LAI-15	2/14/2014	20.03	--	--	--	4.59	15.44
LAI-15	5/5/2014	20.03	--	--	--	3.56	16.47
LAI-15	8/19/2014	20.03	--	--	--	6.50	13.53
LAI-15	11/21/2014	20.03	--	--	--	4.43	15.60
LAI-16	1/31/2003	20.59	--	--	--	6.28	14.31
LAI-16	2/12/2003	20.59	--	--	--	6.65	13.94
LAI-16	2/18/2003	20.59	--	--	--	6.70	13.89
LAI-16	2/21/2003	20.59	--	--	--	6.73	13.86
LAI-16	2/24/2003	20.59	--	--	--	6.74	13.85
LAI-16	3/3/2003	20.59	--	--	--	6.86	13.73
LAI-16	3/12/2003	20.59	--	--	--	6.52	14.07
LAI-16	3/14/2003	20.59	--	--	--	6.39	14.20
LAI-16	3/26/2003	20.59	--	--	--	6.48	14.11
LAI-16	3/28/2003	20.59	--	--	--	7.46	13.13
LAI-16	4/2/2003	20.59	--	--	--	6.63	13.96
LAI-16	4/4/2003	20.59	--	--	--	6.71	13.88
LAI-16	4/8/2003	20.59	--	--	--	6.90	13.69
LAI-16	4/11/2003	20.59	--	--	--	6.75	13.84
LAI-16	4/15/2003	20.59	--	--	--	6.68	13.91
LAI-16	4/17/2003	20.59	--	--	--	6.73	13.86
LAI-16	4/22/2003	20.59	--	--	--	6.87	13.72
LAI-16	4/25/2003	20.59	--	--	--	6.99	13.60
LAI-16	5/2/2003	20.59	--	--	--	6.78	13.81
LAI-16	5/6/2003	20.59	--	--	--	7.26	13.33
LAI-16	5/9/2003	20.59	--	--	--	7.35	13.24
LAI-16	5/16/2003	20.59	--	--	--	7.60	12.99
LAI-16	5/23/2003	20.59	--	--	--	8.08	12.51
LAI-16	5/28/2003	20.59	--	--	--	7.87	12.72
LAI-16	6/13/2003	20.59	--	--	--	8.31	12.28
LAI-16	6/18/2003	20.59	--	--	--	8.45	12.14
LAI-16	6/27/2003	20.59	--	--	--	8.08	12.51
LAI-16	7/7/2003	20.59			Not Monitored		
LAI-16	7/16/2003	20.59	--	--	--	8.00	12.59
LAI-16	7/31/2003	20.59			Dry		
LAI-16	8/5/2003	20.59			Dry		
LAI-16	8/11/2003	20.59			Dry		
LAI-16	8/22/2003	20.59			Dry		
LAI-16	8/26/2003	20.59			Dry		
LAI-16	9/2/2003	20.59			Dry		
LAI-16	9/9/2003	20.59			Dry		
LAI-16	9/19/2003	20.59			Dry		
LAI-16	10/14/2003	20.59			Dry		

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
LAI-16	11/20/2003	20.59	--	--	--	6.95	13.64
LAI-16	12/3/2003	20.59	--	--	--	6.68	13.91
LAI-16	1/19/2004	20.59	--	--	--	6.49	14.10
LAI-16	2/24/2004	20.59	--	--	--	6.62	13.97
LAI-16	3/15/2004	20.59	--	--	--	7.02	13.57
LAI-16	4/19/2004	20.59	--	--	--	7.64	12.95
LAI-16	5/17/2004	20.59	--	--	--	8.35	12.24
LAI-16	6/22/2004	20.59	--	--	--	8.52	12.07
LAI-16	8/18/2004	20.59			Dry		
LAI-16	9/21/2004	20.59			Dry		
LAI-16	10/19/2004	20.59	--	--	--	9.30	11.29
LAI-16	11/23/2004	20.59	--	--	--	8.38	12.21
LAI-16	12/21/2004	20.59	--	--	--	6.87	13.72
LAI-16	1/13/2005	20.59	--	--	--	7.12	13.47
LAI-16	4/28/2005	20.59	--	--	--	6.95	13.64
LAI-16	6/1/2005	20.59	--	--	--	7.35	13.24
LAI-16	6/29/2005	20.59	--	--	--	7.95	12.64
LAI-16	7/20/2005	20.59	--	--	--	8.78	11.81
LAI-16	8/22/2005	20.59			Dry		
LAI-16	9/12/2005	20.59			Dry		
LAI-16	10/12/2005	20.59			Dry		
LAI-16	11/21/2005	20.59	--	--	--	8.48	12.11
LAI-16	12/27/2005	20.59	--	--	--	6.71	13.88
LAI-16	1/30/2006	20.59			Dry		
LAI-16	2/16/2006	20.59	--	--	--	6.45	14.14
LAI-16	3/13/2006	20.59	--	--	--	6.75	13.84
LAI-16	4/18/2006	20.59	--	--	--	7.18	13.41
LAI-16	5/12/2006	20.59	--	--	--	7.50	13.09
LAI-16	6/9/2006	20.59	--	--	--	7.62	12.97
LAI-16	7/13/2006	20.59	--	--	--	6.10	14.49
LAI-16	8/16/2006	20.59			Dry		
LAI-16	9/19/2006	20.59			Dry		
LAI-16	10/13/2006	20.59			Dry		
LAI-16	11/20/2006	20.59	--	--	--	6.33	14.26
LAI-16	12/8/2006	20.59	--	--	--	6.45	14.14
LAI-16	1/19/2007	20.59	--	--	--	6.11	14.48
LAI-16	2/19/2007	20.59	--	--	--	6.67	13.92
LAI-16	3/15/2007	20.59	--	--	--	6.55	14.04
LAI-16	4/16/2007	20.59	--	--	--	6.89	13.70
LAI-16	5/14/2007	20.59	--	--	--	7.54	13.05
LAI-16	6/29/2007	20.59			Dry		
LAI-16	7/20/2007	20.59			Dry		
LAI-16	8/21/2007	20.59			Dry		
LAI-16	9/10/2007	20.59			Dry		
LAI-16	10/22/2007	20.59			Dry		
LAI-16	11/28/2007	20.59	--	--	--	8.41	12.18
LAI-16	12/13/2007	20.59	--	--	--	6.65	13.94
LAI-16	1/21/2008	20.59	--	--	--	6.43	14.16
LAI-16	2/24/2008	20.59	--	--	--	6.87	13.72
LAI-16	3/24/2008	20.59	--	--	--	6.95	13.64
LAI-16	8/25/2008	20.59	--	--	--	7.12	13.47
LAI-16	2/18/2009	20.59	--	--	--	7.00	13.59
LAI-16	8/25/2009	20.59			Dry		
LAI-16	3/22/2010	20.59	--	--	--	6.93	13.66
LAI-16	8/23/2010	20.59			Dry		
LAI-16	2/7/2011	20.59	--	--	--	6.45	14.14
LAI-16	5/27/2011	20.59	--	--	--	6.99	13.60
LAI-16	11/14/2011	20.59	--	--	--	9.15	11.44
LAI-16	2/20/2012	20.59	--	--	--	6.49	14.10
LAI-16	8/22/2012	20.59	--	--	--	Dry	--
LAI-16	11/5/2012	20.59	--	--	--	9.39	11.20
LAI-16	1/28/2013	20.59	--	--	--	6.52	14.07
LAI-16	5/9/2013	20.59	--	--	--	6.48	14.11
LAI-16	8/19/2013	20.59			DRY		
LAI-16	11/25/2013	20.59	--	--	--	6.95	13.64
LAI-16	2/14/2014	20.59	--	--	--	6.49	14.10
LAI-16	5/5/2014	20.59	--	--	--	6.51	14.08
LAI-16	8/19/2014	20.59			DRY		
LAI-16	11/21/2014	20.59	--	--	--	6.70	13.89
RW-1	11/20/2002	24.60	8.25	16.35	0.95	9.20	16.11
RW-1	11/21/2002	24.60	8.25	16.35	1.15	9.40	16.06
RW-1	11/22/2002	24.60	8.22	16.38	1.20	9.42	16.08
RW-1	11/24/2002	24.60	8.35	16.25	1.06	9.41	15.99
RW-1	1/2/2003	24.60	5.61	18.99	0.21	5.82	18.94
RW-1	1/3/2003	24.60	5.51	19.09	0.21	5.72	19.04
RW-1	1/6/2003	24.60	5.35	19.25	0.29	5.64	19.18
RW-1	1/7/2003	24.60	5.68	18.92	0.28	5.96	18.85
RW-1	1/8/2003	24.60	5.95	18.65	0.28	6.23	18.58
RW-1	1/9/2003	24.60	6.03	18.57	0.29	6.32	18.50
RW-1	1/10/2003	24.60	6.20	18.40	0.30	6.50	18.33
RW-1	1/13/2003	24.60	6.00	18.60	0.32	6.32	18.52
RW-1	1/14/2003	24.60	5.72	18.88	0.73	6.45	18.70
RW-1	1/15/2003	24.60	5.99	18.61	0.19	6.18	18.56
RW-1	1/16/2003	24.60	6.10	18.50	0.30	6.40	18.43
RW-1	1/17/2003	24.60	6.15	18.45	0.30	6.45	18.38
RW-1	1/20/2003	24.60	6.34	18.26	0.35	6.69	18.17
RW-1	1/22/2003	24.60	5.60	19.00	0.29	5.89	18.93
RW-1	1/23/2003	24.60	5.80	18.80	0.35	6.15	18.71
RW-1	1/24/2003	24.60	5.37	19.23	0.38	5.75	19.14
RW-1	1/27/2003	24.60	4.68	19.92	0.47	5.15	19.80

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
RW-1	1/28/2003	24.60	4.66	19.94	0.45	5.11	19.83
RW-1	1/29/2003	24.60	4.67	19.93	0.46	5.13	19.82
RW-1	1/30/2003	24.60	4.90	19.70	0.44	5.34	19.59
RW-1	2/3/2003	24.60	5.65	18.95	0.41	6.06	18.85
RW-1	2/6/2003	24.24	6.76	17.48	0.40	7.16	17.38
RW-1	2/11/2003	24.24	7.35	16.89	0.42	7.77	16.79
RW-1	2/18/2003	24.24	--	--	--	6.55	17.69
RW-1	2/21/2003	24.24	7.90	16.34	0.93	8.83	16.11
RW-1	2/26/2003	24.24	7.70	16.54	0.81	8.51	16.34
RW-1	3/4/2003	24.24	7.11	17.13	0.63	7.74	16.97
RW-1	3/12/2003	24.24	7.30	16.94	0.46	7.76	16.83
RW-1	3/14/2003	24.24	6.85	17.39	--	7.31	16.93
RW-1	3/26/2003	24.24	6.39	17.85	0.13	6.52	17.82
RW-1	3/28/2003	24.24	7.41	16.83	0.15	7.56	16.79
RW-1	4/2/2003	24.24	7.45	16.79	0.10	7.55	16.77
RW-1	4/4/2003	24.24	7.70	16.54	0.05	7.75	16.53
RW-1	4/8/2003	24.24	7.25	16.99	0.02	7.27	16.99
RW-1	4/11/2003	24.24	7.15	17.09	0.03	7.18	17.08
RW-1	4/15/2003	24.24	6.57	17.67	0.02	6.59	17.67
RW-1	4/17/2003	24.24	7.52	16.72	0.02	7.54	16.72
RW-1	4/22/2003	24.24	7.53	16.71	0.02	7.55	16.71
RW-1	4/25/2003	24.24	7.42	16.82	0.01	7.43	16.82
RW-1	5/2/2003	24.24	8.84	15.40	0.01	8.85	15.40
RW-1	5/6/2003	24.24	--	--	--	9.02	15.22
RW-1	5/9/2003	24.24	--	--	--	9.21	15.03
RW-1	5/23/2003	24.24	--	--	--	9.26	14.98
RW-1	5/28/2003	24.24	9.35	14.89	0.01	9.36	14.89
RW-1	6/13/2003	24.24	9.52	14.72	0.49	10.01	14.60
RW-1	6/18/2003	24.24	9.22	15.02	0.91	10.13	14.79
RW-1	6/27/2003	24.24	--	--	--	9.81	14.43
RW-1	7/7/2003	24.24	10.26	13.98	0.03	10.29	13.97
RW-1	7/16/2003	24.24	10.09	14.15	0.26	10.35	14.09
RW-1	7/31/2003	24.24	10.34	13.90	0.01	10.35	13.90
RW-1	8/5/2003	24.24	10.32	13.92	0.08	10.40	13.90
RW-1	8/11/2003	24.24	11.34	12.90	0.01	11.35	12.90
RW-1	8/22/2003	24.24	11.34	12.90	0.01	11.35	12.90
RW-1	8/26/2003	24.24	--	--	--	10.36	13.88
RW-1	9/2/2003	24.24	--	--	--	10.36	13.88
RW-1	9/9/2003	24.24	10.33	13.91	0.05	10.38	13.90
RW-1	9/19/2003	24.24	10.33	13.91	0.03	10.36	13.90
RW-1	10/14/2003	24.24	--	--	--	10.30	13.94
RW-1	11/20/2003	24.24	--	--	--	5.52	18.72
RW-1	12/3/2003	24.24	--	--	--	5.44	18.80
RW-1	1/19/2004	24.24	--	--	--	5.57	18.67
RW-1	2/24/2004	24.24	--	--	--	7.45	16.79
RW-1	3/15/2004	24.24	--	--	--	8.87	15.37
RW-1	4/19/2004	24.24	--	--	--	9.56	14.68
RW-1	5/17/2004	24.24	--	--	--	10.14	14.10
RW-1	6/22/2004	24.24	--	--	--	9.91	14.33
RW-1	8/18/2004	24.24	10.30	13.94	0.01	10.31	13.94
RW-1	9/21/2004	24.24	--	--	--	10.05	14.19
RW-1	10/19/2004	24.24	--	--	--	9.73	14.51
RW-1	11/23/2004	24.24	--	--	--	9.50	14.74
RW-1	12/21/2004	24.24	--	--	--	6.86	17.38
RW-1	1/13/2005	24.24	--	--	--	8.32	15.92
RW-1	4/28/2005	24.24	--	--	--	7.15	17.09
RW-1	6/1/2005	24.24	--	--	--	7.60	16.64
RW-1	6/29/2005	24.24			Not Monitored		
RW-1	7/20/2005	24.24			Not Monitored		
RW-1	8/22/2005	24.24	--	--	--	10.35	13.89
RW-1	9/12/2005	24.24	--	--	--	10.36	13.88
RW-1	10/12/2005	24.24	--	--	--	10.40	13.84
RW-1	11/21/2005	24.24	--	--	--	9.09	15.15
RW-1	12/27/2005	24.24	--	--	--	5.72	18.52
RW-1	1/30/2006	24.24	--	--	--	4.34	19.90
RW-1	2/16/2006	24.24	--	--	--	5.86	18.38
RW-1	3/13/2006	24.24	--	--	--	7.51	16.73
RW-1	4/18/2006	24.24	--	--	--	7.05	17.19
RW-1	5/12/2006	24.24	--	--	--	8.53	15.71
RW-1	6/9/2006	24.24	--	--	--	7.70	16.54
RW-1	7/13/2006	24.24	--	--	--	9.44	14.80
RW-1	8/16/2006	24.24	--	--	--	10.35	13.89
RW-1	9/19/2006	24.24	--	--	--	10.42	13.82
RW-1	10/13/2006	24.24	--	--	--	10.45	13.79
RW-1	11/20/2006	24.24	--	--	--	5.15	19.09
RW-1	12/8/2006	24.24	--	--	--	5.51	18.73
RW-1	1/19/2007	24.24	--	--	--	5.02	19.22
RW-1	2/19/2007	24.24	--	--	--	6.70	17.54
RW-1	3/15/2007	24.24	--	--	--	5.51	18.73
RW-1	4/16/2007	24.24	--	--	--	7.32	16.92
RW-1	5/14/2007	24.24	--	--	--	9.05	15.19
RW-1	6/29/2007	24.24	--	--	--	10.21	14.03
RW-1	7/20/2007	24.24	--	--	--	Dry	NM
RW-1	8/21/2007	24.24	--	--	--	10.35	13.89
RW-1	9/10/2007	24.24	--	--	--	Dry	NM
RW-1	10/22/2007	24.24	--	--	--	7.38	16.86
RW-1	11/28/2007	24.24	--	--	--	7.98	16.26
RW-1	12/13/2007	24.24	--	--	--	6.57	17.67
RW-1	1/21/2008	24.24	--	--	--	5.97	18.27
RW-1	2/24/2008	24.24	--	--	--	8.78	15.46
RW-1	3/24/2008	24.24	--	--	--	5.95	18.29

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
RW-1	8/25/2008	24.24	--	--	--	6.02	18.22
RW-1	2/18/2009	24.24	--	--	--	9.13	15.11
RW-1	8/25/2009	24.24	--	--	--	10.39	13.85
RW-1	3/22/2010	24.24	--	--	--	7.96	16.28
RW-1	8/23/2010	24.24	--	--	--	10.37	13.87
RW-1	2/7/2011	24.24	--	--	--	5.69	18.55
RW-1	5/27/2011	24.24	--	--	--	7.56	16.68
RW-1	8/8/2011	24.24			Dry		
RW-1	11/14/2011	24.24	--	--	--	9.45	14.79
RW-1	2/20/2012	24.24	--	--	--	5.53	18.71
RW-1	8/22/2012	24.24	--	--	--	10.23	14.01
RW-1	11/5/2012	24.24	--	--	--	5.52	18.72
RW-1	1/28/2013	24.24	--	--	--	6.16	18.08
RW-1	5/9/2013	24.24	--	--	--	8.41	15.83
RW-1	8/19/2013	24.24	--	--	--	10.37	13.87
RW-1	11/25/2013	24.24	--	--	--	7.47	16.77
RW-1	2/14/2014	24.24	--	--	--	4.36	19.88
RW-1	5/5/2014	24.24	--	--	--	3.96	20.28
RW-1	8/19/2014	24.24	--	--	--	10.43	13.81
RW-1	11/21/2014	24.24	--	--	--	5.41	18.83
RW-2	11/20/2002	24.58	8.05	16.53	1.35	9.40	16.19
RW-2	11/21/2002	24.58	8.00	16.58	1.40	9.40	16.23
RW-2	11/22/2002	24.58	8.00	16.58	1.41	9.41	16.23
RW-2	11/24/2002	24.58	8.21	16.37	1.49	9.70	16.00
RW-2	1/2/2003	24.58	6.11	18.47	2.27	8.38	17.90
RW-2	1/6/2003	24.58	5.40	19.18	2.78	8.18	18.49
RW-2	1/7/2003	24.58	6.41	18.17	0.54	6.95	18.04
RW-2	1/8/2003	24.58	7.67	16.91	0.01	7.68	16.91
RW-2	1/9/2003	24.58	8.72	15.86	0.01	8.73	15.86
RW-2	1/10/2003	24.58	6.38	18.20	0.54	6.92	18.07
RW-2	1/13/2003	24.58	8.42	16.16	0.10	8.52	16.14
RW-2	1/14/2003	24.58	6.17	18.41	1.32	7.49	18.08
RW-2	1/15/2003	24.58	5.95	18.63	0.85	6.80	18.42
RW-2	1/16/2003	24.58	6.51	18.07	1.00	7.51	17.82
RW-2	1/17/2003	24.58	6.40	18.18	1.12	7.52	17.90
RW-2	1/20/2003	24.58	6.35	18.23	1.59	7.94	17.83
RW-2	1/22/2003	24.58	5.86	18.72	2.74	8.60	18.04
RW-2	1/23/2003	24.58	5.92	18.66	3.23	9.15	17.85
RW-2	1/24/2003	24.58	5.37	19.21	0.62	5.99	19.06
RW-2	1/27/2003	24.58	4.69	19.89	0.53	5.22	19.76
RW-2	1/28/2003	24.58	4.83	19.75	3.71	8.54	18.82
RW-2	1/29/2003	24.58	4.82	19.76	3.66	8.48	18.85
RW-2	1/30/2003	24.58	4.95	19.63	0.94	5.89	19.40
RW-2	2/3/2003	24.58	5.29	19.29	3.82	9.11	18.34
RW-2	2/6/2003	24.19	6.16	18.03	3.48	9.64	17.16
RW-2	2/11/2003	24.19	6.61	17.58	3.17	9.78	16.79
RW-2	2/18/2003	24.19	7.46	16.73	2.72	10.18	16.05
RW-2	2/21/2003	24.19	7.40	16.79	2.76	10.16	16.10
RW-2	2/26/2003	24.19	7.66	16.53	0.69	8.35	16.36
RW-2	3/4/2003	24.19	7.15	17.04	1.42	8.57	16.69
RW-2	3/12/2003	24.19	7.60	16.59	0.02	7.62	16.59
RW-2	3/14/2003	24.19	7.38	16.81	1.61	8.99	16.41
RW-2	3/26/2003	24.19	6.85	17.34	0.70	7.55	17.17
RW-2	3/28/2003	24.19	7.48	16.71	0.87	8.35	16.49
RW-2	4/2/2003	24.19	7.55	16.64	0.86	8.41	16.43
RW-2	4/4/2003	24.19	7.95	16.24	0.56	8.51	16.10
RW-2	4/8/2003	24.19	8.02	16.17	0.03	8.05	16.16
RW-2	4/11/2003	24.19	8.22	15.97	0.01	8.23	15.97
RW-2	4/15/2003	24.19	--	--	--	7.68	16.51
RW-2	4/17/2003	24.19	8.34	15.85	0.06	8.40	15.84
RW-2	4/22/2003	24.19	8.36	15.83	0.16	8.52	15.79
RW-2	4/25/2003	24.19	8.30	15.89	0.11	8.41	15.86
RW-2	5/2/2003	24.19	8.75	15.44	0.31	9.06	15.36
RW-2	5/6/2003	24.19	8.82	15.37	0.61	9.43	15.22
RW-2	5/9/2003	24.19	9.16	15.03	0.62	9.78	14.88
RW-2	5/23/2003	24.19	9.15	15.04	1.42	10.57	14.69
RW-2	5/28/2003	24.19	8.95	15.24	1.49	10.44	14.87
RW-2	6/13/2003	24.19	9.24	14.95	1.35	10.59	14.61
RW-2	6/18/2003	24.19	9.20	14.99	1.31	10.51	14.66
RW-2	6/27/2003	24.19	9.23	14.96	1.26	10.49	14.65
RW-2	7/7/2003	24.19	10.01	14.18	0.42	10.43	14.08
RW-2	7/16/2003	24.19	9.83	14.36	0.71	10.54	14.18
RW-2	7/31/2003	24.19	10.31	13.88	0.15	10.46	13.84
RW-2	8/5/2003	24.19	10.28	13.91	0.22	10.50	13.86
RW-2	8/11/2003	24.19	--	--	--	11.38	12.81
RW-2	8/22/2003	24.19	--	--	--	11.38	12.81
RW-2	8/26/2003	24.19	--	--	--	11.26	12.93
RW-2	9/2/2003	24.19	--	--	--	10.40	13.79
RW-2	9/9/2003	24.19	10.34	13.85	0.06	10.40	13.84
RW-2	9/19/2003	24.19	--	--	--	10.70	13.49
RW-2	10/14/2003	24.19	--	--	--	10.38	13.81
RW-2	11/20/2003	24.19	--	--	--	7.66	16.53
RW-2	12/3/2003	24.19	--	--	--	6.65	17.54
RW-2	1/19/2004	24.19	--	--	--	7.13	17.06
RW-2	2/24/2004	24.19	--	--	--	7.92	16.27
RW-2	3/15/2004	24.19			Not Monitored		
RW-2	4/19/2004	24.19	--	NA	--	10.01	14.18
RW-2	5/17/2004	24.19			Not Monitored		
RW-2	6/22/2004	24.19	--	NA	--	10.08	14.11
RW-2	8/18/2004	24.19	--	NA	--	10.44	13.75

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
RW-2	9/21/2004	24.19	9.95	14.24	0.18	10.13	14.20
RW-2	10/19/2004	24.19	9.04	15.15	0.08	9.12	15.13
RW-2	11/23/2004	24.19	7.82	16.37	0.50	8.32	16.25
RW-2	12/21/2004	24.19	--	--	--	6.95	17.24
RW-2	1/13/2005	24.19	--	--	--	8.39	15.80
RW-2	4/28/2005	24.19	--	--	--	8.20	15.99
RW-2	6/1/2005	24.19	--	--	--	9.62	14.57
RW-2	6/29/2005	24.19	--	--	--	10.41	13.78
RW-2	7/20/2005	24.19	--	--	--	10.90	13.29
RW-2	8/22/2005	24.19	10.94	13.25	0.04	10.98	13.24
RW-2	5/27/2011	24.19			Not Monitored		
RWx-2	9/12/2005	26.20	--	--	--	12.55	13.65
RWx-2	10/12/2005	26.20	13.81	12.39	0.61	14.42	12.24
RWx-2	11/21/2005	26.20	11.20	15.00	1.13	12.33	14.72
RWx-2	12/27/2005	26.20	--	--	--	9.50	16.70
RWx-2	1/30/2006	26.20	--	--	--	6.55	19.65
RWx-2	2/16/2006	26.20	--	--	--	9.00	17.20
RWx-2	3/13/2006	26.20	--	--	--	9.85	16.35
RWx-2	4/18/2006	26.20	--	--	--	10.16	16.04
RWx-2	5/12/2006	26.20	--	--	--	10.56	15.64
RWx-2	6/9/2006	26.20	--	--	--	10.13	16.07
RWx-2	7/13/2006	26.20	--	--	--	12.61	13.59
RWx-2	8/16/2006	26.20	12.28	13.92	0.62	12.90	13.77
RWx-2	9/19/2006	26.20	--	--	--	12.95	13.25
RWx-2	10/13/2006	26.20	12.66	13.54	0.97	13.63	13.30
RWx-2	11/20/2006	26.20	7.13	19.07	0.37	7.50	18.98
RWx-2	12/8/2006	26.20	7.83	18.37	0.34	8.17	18.29
RWx-2	1/19/2007	26.20	7.06	19.14	0.25	7.31	19.08
RWx-2	2/19/2007	26.20	9.95	16.25	0.30	10.25	16.18
RWx-2	3/15/2007	26.20	8.50	17.70	0.04	8.54	17.69
RWx-2	4/16/2007	26.20	--	--	--	9.57	16.63
RWx-2	5/14/2007	26.20	11.12	15.08	0.00	11.12	15.08
RWx-2	6/29/2007	26.20	--	--	--	12.04	14.16
RWx-2	7/20/2007	26.20	--	--	--	12.51	13.69
RWx-2	8/21/2007	26.20	--	--	--	13.80	12.40
RWx-2	9/10/2007	26.20	--	--	--	13.84	12.36
RWx-2	10/22/2007	26.20	--	--	--	12.33	13.87
RWx-2	11/28/2007	26.20	9.80	16.40	1.00	10.80	16.15
RWx-2	12/13/2007	26.20	--	--	--	10.56	15.64
RWx-2	1/21/2008	26.20	10.41	15.79	0.09	10.50	15.77
RWx-2	2/24/2008	26.20	--	--	--	11.17	15.03
RWx-2	3/24/2008	26.20	--	--	--	11.10	15.10
RWx-2	8/25/2008	26.20	12.48	13.72	0.02	12.50	13.72
RWx-2	2/18/2009	26.20	--	--	--	11.15	15.05
RWx-2	8/25/2009	26.20	--	--	--	13.81	12.39
RWx-2	3/22/2010	26.20	--	--	--	9.40	16.80
RWx-2	8/23/2010	26.20	--	--	--	10.60	15.60
RWx-2	2/7/2011	26.20	--	--	--	9.21	16.99
RWx-2	5/27/2011	26.20			Not Monitored		
RWX-2	11/14/2016	26.20	---	---	---	6.32	19.88
RWX-2	11/18/2016	---	---	---	---	---	---
RWX-2	2/17/2017	26.20	6.17	20.03	0.01	6.18	20.03
RWX-2	5/26/2017	26.20	---	---	---	8.29	17.91
RWX-2	9/26/2017	26.20	---	---	---	13.84	12.36
RWX-2	9/28/2017	---	---	---	---	---	---
RWX-2	12/14/2017	26.20	---	---	---	5.78	20.42
RWX-2	2/26/2018	26.20	---	---	---	6.82	19.38
RW-3	11/20/2002	22.03	8.45	13.58	0.80	9.25	13.38
RW-3	11/21/2002	22.03	8.27	13.76	1.20	9.47	13.46
RW-3	11/22/2002	22.03	8.18	13.85	1.28	9.46	13.53
RW-3	11/24/2002	22.03	7.94	14.09	1.68	9.62	13.67
RW-3	1/2/2003	22.03	6.52	15.51	0.04	6.56	15.50
RW-3	1/3/2003	22.03	6.38	15.65	0.23	6.61	15.59
RW-3	1/6/2003	22.03	5.92	16.11	0.03	5.95	16.10
RW-3	1/7/2003	22.03	5.81	16.22	0.04	5.85	16.21
RW-3	1/8/2003	22.03	5.74	16.29	0.05	5.79	16.28
RW-3	1/9/2003	22.03	5.78	16.25	0.05	5.83	16.24
RW-3	1/10/2003	22.03	5.88	16.15	0.05	5.93	16.14
RW-3	1/13/2003	22.03	6.02	16.01	0.08	6.10	15.99
RW-3	1/14/2003	22.03	5.97	16.06	0.09	6.06	16.04
RW-3	1/15/2003	22.03	5.87	16.16	0.12	5.99	16.13
RW-3	1/16/2003	22.03	5.89	16.14	0.09	5.98	16.12
RW-3	1/17/2003	22.03	5.85	16.18	0.07	5.92	16.16
RW-3	1/20/2003	22.03	5.98	16.05	0.13	6.11	16.02
RW-3	1/22/2003	22.03	5.91	16.12	0.09	6.00	16.10
RW-3	1/23/2003	22.03	6.20	15.83	0.49	6.69	15.71
RW-3	1/24/2003	22.03	6.02	16.01	0.24	6.26	15.95
RW-3	1/27/2003	22.03	5.57	16.46	0.08	5.65	16.44
RW-3	1/28/2003	22.03	5.55	16.48	0.07	5.62	16.46
RW-3	1/29/2003	22.03	5.44	16.59	0.06	5.50	16.58
RW-3	1/30/2003	22.03	5.56	16.47	0.06	5.62	16.46
RW-3	2/3/2003	22.03	5.75	16.28	0.10	5.85	16.26
RW-3	2/6/2003	22.85	6.44	16.41	0.12	6.56	16.38
RW-3	2/11/2003	22.85	6.81	16.04	0.32	7.13	15.96
RW-3	2/18/2003	22.85	7.29	15.56	0.88	8.17	15.34
RW-3	2/21/2003	22.85	7.19	15.66	0.75	7.94	15.47
RW-3	2/26/2003	22.85	6.73	16.12	0.31	7.04	16.04
RW-3	3/4/2003	22.85	6.83	16.02	0.34	7.17	15.94
RW-3	3/12/2003	22.85	7.38	15.47	0.06	7.44	15.46

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
RW-3	3/14/2003	22.85	7.21	15.64	0.07	7.28	15.62
RW-3	3/26/2003	22.85	6.52	16.33	0.01	6.53	16.33
RW-3	3/28/2003	22.85	--	--	--	7.09	15.76
RW-3	4/2/2003	22.85	--	--	--	7.05	15.80
RW-3	4/4/2003	22.85	--	--	--	7.26	15.59
RW-3	4/8/2003	22.85	--	--	--	6.90	15.95
RW-3	4/11/2003	22.85	--	--	--	7.51	15.34
RW-3	4/15/2003	22.85	--	--	--	6.67	16.18
RW-3	4/17/2003	22.85	--	--	--	7.61	15.24
RW-3	4/22/2003	22.85	--	--	--	7.61	15.24
RW-3	4/25/2003	22.85	--	--	--	7.22	15.63
RW-3	5/2/2003	22.85	8.21	14.64	0.25	8.46	14.58
RW-3	5/6/2003	22.85	8.51	14.34	0.24	8.75	14.28
RW-3	5/9/2003	22.85	8.71	14.14	0.12	8.83	14.11
RW-3	5/23/2003	22.85	9.74	13.11	0.03	9.77	13.10
RW-3	5/28/2003	22.85	8.75	14.10	0.01	8.76	14.10
RW-3	6/13/2003	22.85	9.19	13.66	0.02	9.21	13.66
RW-3	6/18/2003	22.85	9.16	13.69	0.06	9.22	13.68
RW-3	6/27/2003	22.85	--	--	--	9.50	13.35
RW-3	7/7/2003	22.85	10.05	12.80	0.06	10.11	12.79
RW-3	7/16/2003	22.85	10.02	12.83	0.01	10.03	12.83
RW-3	7/31/2003	22.85	10.18	12.67	0.11	10.29	12.64
RW-3	8/5/2003	22.85	--	--	--	Dry	NM
RW-3	8/11/2003	22.85	11.00	11.85	0.30	11.30	11.78
RW-3	8/22/2003	22.85	10.98	11.87	0.29	11.27	11.80
RW-3	8/26/2003	22.85	--	--	--	11.14	11.71
RW-3	9/2/2003	22.85	--	--	--	10.28	12.57
RW-3	9/9/2003	22.85	--	--	--	10.29	12.56
RW-3	9/19/2003	22.85	--	--	--	10.29	12.56
RW-3	10/14/2003	22.85	--	--	--	10.30	12.55
RW-3	11/20/2003	22.85	7.16	15.69	1.29	8.45	15.37
RW-3	12/3/2003	22.85	6.72	16.13	0.05	6.77	16.12
RW-3	1/19/2004	22.85	--	--	--	6.26	16.59
RW-3	2/24/2004	22.85	--	--	--	6.72	16.13
RW-3	3/15/2004	22.85	--	--	--	7.78	15.07
RW-3	4/19/2004	22.85	--	--	--	8.71	14.14
RW-3	5/17/2004	22.85	9.73	13.12	0.01	9.74	13.12
RW-3	6/22/2004	22.85	9.36	13.49	0.02	9.38	13.49
RW-3	8/18/2004	22.85	--	--	--	10.26	12.59
RW-3	9/21/2004	22.85	--	--	--	10.00	12.85
RW-3	10/19/2004	22.85	--	--	--	8.21	14.64
RW-3	11/23/2004	22.85	--	--	--	9.18	13.67
RW-3	12/21/2004	22.85	--	--	--	6.71	16.14
RW-3	1/13/2005	22.85	--	--	--	7.73	15.12
RW-3	4/28/2005	22.85	--	--	--	6.78	16.07
RW-3	6/1/2005	22.85	--	--	--	7.10	15.75
RW-3	6/29/2005	22.85	--	--	--	8.72	14.13
RW-3	7/20/2005	22.85	--	--	--	9.20	13.65
RW-3	8/22/2005	22.85	--	--	--	9.50	13.35
RW-3	9/12/2005	22.85	--	--	--	9.28	13.57
RW-3	10/12/2005	22.85	--	--	--	9.29	13.56
RW-3	11/21/2005	22.85	--	--	--	7.25	15.60
RW-3	12/27/2005	22.85	--	--	--	4.12	18.73
RW-3	1/30/2006	22.85	--	--	--	2.41	20.44
RW-3	2/16/2006	22.85	--	--	--	4.69	18.16
RW-3	3/13/2006	22.85	--	--	--	5.89	16.96
RW-3	4/18/2006	22.85	--	--	--	6.02	16.83
RW-3	5/12/2006	22.85	--	--	--	6.74	16.11
RW-3	6/9/2006	22.85	--	--	--	6.28	16.57
RW-3	7/13/2006	22.85	--	--	--	7.56	15.29
RW-3	8/16/2006	22.85	--	--	--	8.75	14.10
RW-3	9/19/2006	22.85	--	--	--	9.30	13.55
RW-3	10/13/2006	22.85	--	--	--	9.13	13.72
RW-3	11/20/2006	22.85	--	--	--	3.63	19.22
RW-3	12/8/2006	22.85	--	--	--	4.01	18.84
RW-3	1/19/2007	22.85	--	--	--	3.48	19.37
RW-3	2/19/2007	22.85	--	--	--	6.21	16.64
RW-3	3/15/2007	22.85	--	--	--	4.97	17.88
RW-3	4/16/2007	22.85	--	--	--	5.81	17.04
RW-3	5/14/2007	22.85	--	--	--	7.30	15.55
RW-3	6/29/2007	22.85	--	--	--	8.57	14.28
RW-3	7/20/2007	22.85	--	--	--	9.05	13.80
RW-3	8/21/2007	22.85	--	--	--	9.30	13.55
RW-3	9/10/2007	22.85	--	--	--	9.29	13.56
RW-3	10/22/2007	22.85	--	--	--	8.02	14.83
RW-3	11/28/2007	22.85	--	--	--	7.51	15.34
RW-3	12/13/2007	22.85	--	--	--	6.82	16.03
RW-3	1/21/2008	22.85	--	--	--	6.29	16.56
RW-3	2/24/2008	22.85	--	--	--	7.00	15.85
RW-3	3/24/2008	22.85	--	--	--	6.68	16.17
RW-3	8/25/2008	22.85	--	--	--	8.15	14.70
RW-3	2/18/2009	22.85	--	--	--	7.24	15.61
RW-3	8/25/2009	22.85	--	--	--	9.33	13.52
RW-3	3/22/2010	22.85	--	--	--	6.24	16.61
RW-3	8/23/2010	22.85	--	--	--	8.85	14.00
RW-3	2/7/2011	22.85	--	--	--	5.16	17.69
RW-3	5/27/2011	22.85	--	--	--	6.38	16.47
RW-3	8/8/2011	22.85	--	--	--	8.97	13.88
RW-3	11/14/2011	22.85	--	--	--	8.10	14.75
RW-3	2/20/2012	22.85	--	--	--	4.77	18.08
RW-3	8/22/2012	22.85	--	--	--	8.58	14.27

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
RW-3	11/5/2012	22.85	--	--	--	5.12	17.73
RW-3	1/28/2013	22.85	--	--	--	4.98	17.87
RW-3	5/9/2013	22.85	--	--	--	6.83	16.02
RW-3	8/19/2013	22.85	--	--	--	9.31	13.54
RW-3	11/25/2013	22.85	--	--	--	6.85	16.00
RW-3	2/14/2014	22.85	--	--	--	4.64	18.21
RW-3	5/5/2014	22.85	--	--	--	4.14	18.71
RW-3	8/19/2014	22.85	--	--	--	9.31	13.54
RW-3	11/21/2014	22.85	--	--	--	6.69	16.16
RW-4	11/20/2002	23.02	7.50	15.52	2.64	10.14	14.86
RW-4	11/21/2002	23.02	7.50	15.52	2.64	10.14	14.86
RW-4	11/22/2002	23.02	8.37	14.65	0.77	9.14	14.46
RW-4	11/24/2002	23.02	7.57	15.45	2.52	10.09	14.82
RW-4	1/3/2003	23.02	6.31	16.71	0.50	6.81	16.59
RW-4	1/6/2003	23.02	6.02	17.00	0.04	6.06	16.99
RW-4	1/7/2003	23.02	5.74	17.28	0.18	5.92	17.24
RW-4	1/8/2003	23.02	5.67	17.35	0.14	5.81	17.32
RW-4	1/9/2003	23.02	5.67	17.35	0.19	5.86	17.30
RW-4	1/10/2003	23.02	5.76	17.26	0.25	6.01	17.20
RW-4	1/13/2003	23.02	5.80	17.22	0.35	6.15	17.13
RW-4	1/14/2003	23.02	5.85	17.17	0.29	6.14	17.10
RW-4	1/15/2003	23.02	5.05	17.97	1.80	6.85	17.52
RW-4	1/16/2003	23.02	5.78	17.24	0.27	6.05	17.17
RW-4	1/17/2003	23.02	5.72	17.30	0.27	5.99	17.23
RW-4	1/20/2003	23.02	5.84	17.18	0.30	6.14	17.11
RW-4	1/22/2003	23.02	5.82	17.20	0.34	6.16	17.12
RW-4	1/23/2003	23.02	6.12	16.90	0.58	6.70	16.76
RW-4	1/24/2003	23.02	5.97	17.05	0.38	6.35	16.96
RW-4	1/27/2003	23.02	5.51	17.51	0.13	5.64	17.48
RW-4	1/28/2003	23.02	5.50	17.52	0.10	5.60	17.50
RW-4	1/29/2003	23.02	5.36	17.66	0.07	5.43	17.64
RW-4	1/30/2003	23.02	5.45	17.57	0.13	5.58	17.54
RW-4	2/3/2003	23.02	5.66	17.36	0.21	5.87	17.31
RW-4	2/6/2003	23.78	6.35	17.43	0.28	6.63	17.36
RW-4	2/11/2003	23.78	6.75	17.03	0.39	7.14	16.93
RW-4	2/18/2003	23.78	7.22	16.56	1.07	8.29	16.29
RW-4	2/21/2003	23.78	7.10	16.68	0.97	8.07	16.44
RW-4	2/26/2003	23.78	6.74	17.04	0.84	7.58	16.83
RW-4	3/4/2003	23.78	7.08	16.70	0.14	7.22	16.67
RW-4	3/12/2003	23.78	7.34	16.44	0.41	7.75	16.34
RW-4	3/14/2003	23.78	7.20	16.58	0.64	7.84	16.42
RW-4	3/26/2003	23.78	6.61	17.17	0.40	7.01	17.07
RW-4	3/28/2003	23.78	7.15	16.63	0.47	7.62	16.51
RW-4	4/2/2003	23.78	7.21	16.57	0.24	7.45	16.51
RW-4	4/4/2003	23.78	7.52	16.26	0.15	7.67	16.22
RW-4	4/8/2003	23.78	--	--	--	7.26	16.52
RW-4	4/11/2003	23.78	7.72	16.06	0.03	7.75	16.05
RW-4	4/15/2003	23.78	7.14	16.64	0.06	7.20	16.63
RW-4	4/17/2003	23.78	7.82	15.96	0.08	7.90	15.94
RW-4	4/22/2003	23.78	7.87	15.91	0.08	7.95	15.89
RW-4	4/25/2003	23.78	7.91	15.87	0.11	8.02	15.84
RW-4	5/2/2003	23.78	8.32	15.46	0.13	8.45	15.43
RW-4	5/6/2003	23.78	8.50	15.28	0.31	8.81	15.20
RW-4	5/9/2003	23.78	8.72	15.06	0.36	9.08	14.97
RW-4	5/23/2003	23.78	8.92	14.86	1.11	10.03	14.58
RW-4	5/28/2003	23.78	8.80	14.98	0.02	8.82	14.98
RW-4	6/13/2003	23.78	8.90	14.88	1.72	10.62	14.45
RW-4	6/18/2003	23.78	8.85	14.93	1.96	10.81	14.44
RW-4	6/27/2003	23.78	9.40	14.38	1.42	10.82	14.03
RW-4	7/7/2003	23.78	9.54	14.24	1.27	10.81	13.92
RW-4	7/16/2003	23.78	9.41	14.37	1.40	10.81	14.02
RW-4	7/31/2003	23.78	9.95	13.83	0.85	10.80	13.62
RW-4	8/5/2003	23.78	9.82	13.96	0.98	10.80	13.72
RW-4	8/11/2003	23.78	10.84	12.94	0.94	11.78	12.71
RW-4	8/22/2003	23.78	10.87	12.91	0.92	11.79	12.68
RW-4	8/26/2003	23.78	10.36	13.42	0.44	10.80	13.31
RW-4	9/2/2003	23.78	10.22	13.56	0.58	10.80	13.42
RW-4	9/9/2003	23.78	--	--	--	10.80	12.98
RW-4	9/19/2003	23.78	--	--	--	10.81	12.97
RW-4	10/14/2003	23.78	--	--	--	10.80	12.98
RW-4	11/20/2003	23.78	7.96	15.82	1.54	9.50	15.44
RW-4	12/3/2003	23.78	6.75	17.03	1.03	7.78	16.77
RW-4	1/19/2004	23.78	6.18	17.60	0.06	6.24	17.59
RW-4	2/24/2004	23.78	6.97	16.81	0.06	7.03	16.80
RW-4	3/15/2004	23.78	--	--	--	8.10	15.68
RW-4	4/19/2004	23.78	--	--	--	8.71	15.07
RW-4	5/17/2004	23.78	--	--	--	9.73	14.05
RW-4	6/22/2004	23.78	--	--	--	9.57	14.21
RW-4	8/18/2004	23.78	10.35	13.43	0.42	10.77	13.33
RW-4	9/21/2004	23.78	9.53	14.25	0.19	9.72	14.20
RW-4	10/19/2004	23.78	8.63	15.15	0.39	9.02	15.05
RW-4	11/23/2004	23.78	8.94	14.84	0.05	8.99	14.83
RW-4	12/21/2004	23.78	6.68	17.10	0.08	6.76	17.08
RW-4	1/13/2005	23.78	--	--	--	7.74	16.04
RW-4	4/28/2005	23.78	--	--	--	6.77	17.01
RW-4	6/1/2005	23.78	--	--	--	7.02	16.76
RW-4	6/29/2005	23.78			Not Monitored		
RW-4	7/20/2005	23.78			Not Monitored		
RW-4	8/22/2005	23.78	--	--	--	9.50	14.28
RW-4	9/12/2005	23.78	--	--	--	10.31	13.47

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
RW-4	10/12/2005	23.78	10.69	13.09	0.13	10.82	13.06
RW-4	11/21/2005	23.78	--	--	--	8.40	15.38
RW-4	12/27/2005	23.78	--	--	--	5.14	18.64
RW-4	1/30/2006	23.78	--	--	--	3.40	20.38
RW-4	2/16/2006	23.78	--	--	--	5.65	18.13
RW-4	3/13/2006	23.78	--	--	--	6.81	16.97
RW-4	4/18/2006	23.78	--	--	--	6.95	16.83
RW-4	5/12/2006	23.78	--	--	--	7.69	16.09
RW-4	6/9/2006	23.78	--	--	--	7.25	16.53
RW-4	7/13/2006	23.78	--	--	--	8.56	15.22
RW-4	8/16/2006	23.78	--	--	--	9.70	14.08
RW-4	9/19/2006	23.78	--	--	--	10.30	13.48
RW-4	10/13/2006	23.78	--	--	--	10.05	13.73
RW-4	11/20/2006	23.78	--	--	--	4.64	19.14
RW-4	12/8/2006	23.78	--	--	--	5.00	18.78
RW-4	1/19/2007	23.78	--	--	--	4.47	19.31
RW-4	2/19/2007	23.78	--	--	--	7.16	16.62
RW-4	3/15/2007	23.78	--	--	--	5.91	17.87
RW-4	4/16/2007	23.78	--	--	--	6.75	17.03
RW-4	5/14/2007	23.78	--	--	--	8.22	15.56
RW-4	6/29/2007	23.78	--	--	--	9.54	14.24
RW-4	7/20/2007	23.78	--	--	--	10.02	13.76
RW-4	8/21/2007	23.78	--	--	--	10.72	13.06
RW-4	9/10/2007	23.78	--	--	--	10.71	13.07
RW-4	10/22/2007	23.78	--	--	--	8.88	14.90
RW-4	11/28/2007	23.78			Not Monitored		
RW-4	12/13/2007	23.78	--	--	--	7.22	16.56
RW-4	1/21/2008	23.78	--	--	--	7.22	16.56
RW-4	2/24/2008	23.78	--	--	--	7.91	15.87
RW-4	3/24/2008	23.78	--	--	--	7.69	16.09
RW-4	8/25/2008	23.78	--	--	--	9.18	14.60
RW-4	2/18/2009	23.78	--	--	--	8.17	15.61
RW-4	8/25/2009	23.78	--	--	--	10.85	12.93
RW-4	3/22/2010	23.78	--	--	--	7.17	16.61
RW-4	8/23/2010	23.78	--	--	--	9.89	13.89
RW-4	2/7/2011	23.78	--	--	--	6.11	17.67
RW-4	5/27/2011	23.78			Not Monitored		
RW-4	8/8/2011	23.78	--	--	--	9.85	13.93
RW-4	11/14/2011	23.78	--	--	--	9.06	14.72
RW-4	2/20/2012	23.78	--	--	--	5.12	18.66
RW-4	8/22/2012	23.78	--	--	--	9.51	14.27
RW-4	11/5/2012	23.78	--	--	--	6.07	17.71
RW-4	1/28/2013	23.78	--	--	--	5.94	17.84
RW-4	5/9/2013	23.78	--	--	--	7.77	16.01
RW-4	8/19/2013	23.78	--	--	--	10.37	13.41
RW-4	11/25/2013	23.78	--	--	--	7.76	16.02
RW-4	2/14/2014	23.78	--	--	--	5.57	18.21
RW-4	5/5/2014	23.78	--	--	--	5.08	18.70
RW-4	8/19/2014	23.78	--	--	--	10.29	13.49
RW-4	11/21/2014	23.78	--	--	--	7.67	16.11
RW-5	11/20/2002	23.70	8.65	15.05	0.02	8.67	15.05
RW-5	11/21/2002	23.70	8.30	15.40	0.10	8.40	15.38
RW-5	11/22/2002	23.70	8.46	15.24	0.06	8.52	15.23
RW-5	11/24/2002	23.70	8.63	15.07	0.28	8.91	15.00
RW-5	1/2/2003	23.70	6.87	16.83	0.04	6.91	16.82
RW-5	1/3/2003	23.70	6.77	16.93	0.03	6.80	16.92
RW-5	1/6/2003	23.70	6.46	17.24	0.04	6.50	17.23
RW-5	1/7/2003	23.70	6.36	17.34	0.06	6.42	17.33
RW-5	1/8/2003	23.70	6.13	17.57	0.03	6.16	17.56
RW-5	1/9/2003	23.70	6.25	17.45	0.03	6.28	17.44
RW-5	1/10/2003	23.70	6.43	17.27	0.04	6.47	17.26
RW-5	1/13/2003	23.70	6.48	17.22	0.03	6.51	17.21
RW-5	1/14/2003	23.70	6.44	17.26	0.05	6.49	17.25
RW-5	1/15/2003	23.70	6.37	17.33	0.04	6.41	17.32
RW-5	1/16/2003	23.70	6.40	17.30	0.02	6.42	17.30
RW-5	1/17/2003	23.70	6.37	17.33	0.04	6.41	17.32
RW-5	1/20/2003	23.70	6.57	17.13	0.05	6.62	17.12
RW-5	1/22/2003	23.70	6.60	17.10	0.08	6.68	17.08
RW-5	1/23/2003	23.70	6.83	16.87	0.07	6.90	16.85
RW-5	1/24/2003	23.70	6.69	17.01	0.03	6.72	17.00
RW-5	1/27/2003	23.70	5.97	17.73	0.06	6.03	17.72
RW-5	1/28/2003	23.70	5.95	17.75	0.09	6.04	17.73
RW-5	1/29/2003	23.70	5.82	17.88	0.12	5.94	17.85
RW-5	1/30/2003	23.70	5.90	17.80	0.10	6.00	17.78
RW-5	2/3/2003	23.70	6.34	17.36	0.07	6.41	17.34
RW-5	2/6/2003	24.44	7.12	17.32	0.06	7.18	17.31
RW-5	2/11/2003	24.44	7.63	16.81	0.07	7.70	16.79
RW-5	2/18/2003	24.44	8.11	16.33	0.14	8.25	16.30
RW-5	2/21/2003	24.44	7.99	16.45	0.03	8.02	16.44
RW-5	2/26/2003	24.44	7.74	16.70	0.01	7.75	16.70
RW-5	3/4/2003	24.44	--	--	--	7.59	16.85
RW-5	3/12/2003	24.44	8.04	16.40	0.01	8.05	16.40
RW-5	3/14/2003	24.44	7.84	16.60	0.01	7.85	16.60
RW-5	3/26/2003	24.44	--	--	--	7.19	17.25
RW-5	3/28/2003	24.44	--	--	--	7.71	16.73
RW-5	4/2/2003	24.44	--	--	--	7.85	16.59
RW-5	4/4/2003	24.44	--	--	--	8.16	16.28
RW-5	4/8/2003	24.44	7.71	16.73	0.00	7.72	16.73
RW-5	4/11/2003	24.44	--	--	--	7.78	16.66
RW-5	4/15/2003	24.44	7.44	17.00	0.01	7.45	17.00

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
RW-5	4/17/2003	24.44	--	--	--	7.91	16.53
RW-5	4/22/2003	24.44	--	--	--	7.75	16.69
RW-5	4/25/2003	24.44	--	--	--	7.84	16.60
RW-5	5/2/2003	24.44	--	--	--	8.78	15.66
RW-5	5/6/2003	24.44	9.05	15.39	0.01	9.06	15.39
RW-5	5/9/2003	24.44	9.06	15.38	0.05	9.11	15.37
RW-5	5/23/2003	24.44	9.08	15.36	0.01	9.09	15.36
RW-5	5/28/2003	24.44	9.27	15.17	0.01	9.28	15.17
RW-5	6/13/2003	24.44	9.85	14.59	0.06	9.91	14.58
RW-5	6/18/2003	24.44	9.81	14.63	0.08	9.89	14.61
RW-5	6/27/2003	24.44	9.26	15.18	0.22	9.48	15.13
RW-5	7/7/2003	24.44	10.51	13.93	0.19	10.70	13.88
RW-5	7/16/2003	24.44	10.29	14.15	0.16	10.45	14.11
RW-5	7/31/2003	24.44	--	--	--	10.68	13.76
RW-5	8/5/2003	24.44	--	--	--	10.68	13.76
RW-5	8/11/2003	24.44	--	--	--	11.68	12.76
RW-5	8/22/2003	24.44	11.57	12.87	0.08	11.65	12.85
RW-5	8/26/2003	24.44	--	--	--	10.68	13.76
RW-5	9/2/2003	24.44	--	--	--	10.67	13.77
RW-5	9/9/2003	24.44	--	--	--	10.68	13.76
RW-5	9/19/2003	24.44	--	--	--	10.68	13.76
RW-5	10/14/2003	24.44	--	--	--	10.65	13.79
RW-5	11/20/2003	24.44	--	--	--	8.20	16.24
RW-5	12/3/2003	24.44	--	--	--	7.15	17.29
RW-5	1/19/2004	24.44	--	--	--	6.71	17.73
RW-5	2/24/2004	24.44	--	--	--	7.68	16.76
RW-5	3/15/2004	24.44	--	--	--	8.58	15.86
RW-5	4/19/2004	24.44	--	--	--	9.47	14.97
RW-5	5/17/2004	24.44	--	--	--	10.28	14.16
RW-5	6/22/2004	24.44	--	--	--	9.76	14.68
RW-5	8/18/2004	24.44	10.69	13.75	0.01	10.70	13.75
RW-5	9/21/2004	24.44	--	--	--	9.35	15.09
RW-5	10/19/2004	24.44	--	--	--	8.55	15.89
RW-5	11/23/2004	24.44	--	--	--	8.94	15.50
RW-5	12/21/2004	24.44	--	--	--	7.48	16.96
RW-5	1/13/2005	24.44	--	--	--	8.38	16.06
RW-5	4/28/2005	24.44	--	--	--	7.78	16.66
RW-5	6/1/2005	24.44	--	--	--	8.08	16.36
RW-5	6/29/2005	24.44	--	--	--	9.28	15.16
RW-5	7/20/2005	24.44			Not Monitored		
RW-5	8/22/2005	24.44	--	--	--	10.45	13.99
RW-5	5/27/2011	24.44			Not Monitored		
RWx-5	9/12/2005	24.97	--	--	--	13.43	11.54
RWx-5	10/12/2005	24.97	--	--	--	13.32	11.65
RWx-5	11/21/2005	24.97	10.88	14.09	0.03	10.91	14.08
RWx-5	12/27/2005	24.97	8.39	16.58	0.21	8.60	16.53
RWx-5	1/30/2006	24.97	7.85	17.12	0.01	7.86	17.12
RWx-5	2/16/2006	24.97	7.77	17.20	0.21	7.98	17.15
RWx-5	3/13/2006	24.97	7.74	17.23	0.07	7.81	17.21
RWx-5	4/18/2006	24.97	8.95	16.02	0.23	9.18	15.96
RWx-5	5/12/2006	24.97	9.33	15.64	0.13	9.46	15.61
RWx-5	6/9/2006	24.97	8.87	16.10	0.03	8.90	16.09
RWx-5	7/13/2006	24.97	10.05	14.92	0.25	10.30	14.86
RWx-5	8/16/2006	24.97	11.10	13.87	0.27	11.37	13.80
RWx-5	9/19/2006	24.97	--	--	--	11.67	13.30
RWx-5	10/13/2006	24.97	11.45	13.52	0.15	11.60	13.48
RWx-5	11/20/2006	24.97	--	--	--	6.86	18.11
RWx-5	12/8/2006	24.97	--	--	--	7.25	17.72
RWx-5	1/19/2007	24.97	--	--	--	6.60	18.37
RWx-5	2/19/2007	24.97	--	--	--	8.90	16.07
RWx-5	3/15/2007	24.97	--	--	--	7.77	17.20
RWx-5	4/16/2007	24.97	--	--	--	8.35	16.62
RWx-5	5/14/2007	24.97	--	--	--	9.77	15.20
RWx-5	6/29/2007	24.97	--	--	--	10.92	14.05
RWx-5	7/20/2007	24.97	--	--	--	11.37	13.60
RWx-5	8/21/2007	24.97	--	--	--	12.05	12.92
RWx-5	9/10/2007	24.97	12.10	--	--	12.11	12.86
RWx-5	10/22/2007	24.97	--	--	--	10.52	14.45
RWx-5	11/28/2007	24.97	--	--	--	9.95	15.02
RWx-5	12/13/2007	24.97	--	--	--	8.71	16.26
RWx-5	1/21/2008	24.97	--	--	--	8.75	16.22
RWx-5	2/24/2008	24.97	--	--	--	12.21	12.76
RWx-5	3/24/2008	24.97	--	--	--	9.36	15.61
RWx-5	8/25/2008	24.97	--	--	--	11.17	13.80
RWx-5	2/18/2009	24.97	--	--	--	9.92	15.05
RWx-5	8/25/2009	24.97	--	--	--	12.58	12.39
RWx-5	3/22/2010	24.97	--	--	--	9.02	15.95
RWx-5	8/23/2010	24.97	--	--	--	11.57	13.40
RWx-5	2/7/2011	24.97	--	--	--	8.15	16.82
RWx-5	5/27/2011	24.97	--	--	--	9.16	15.81
RWx-5	8/8/2011	24.97	--	--	--	11.63	13.34
RWx-5	11/14/2011	24.97	--	--	--	10.56	14.41
RWx-5	2/20/2012	24.97	--	--	--	8.21	16.76
RWx-5	8/22/2012	24.97	--	--	--	11.25	13.72
RWx-5	11/5/2012	24.97	--	--	--	8.52	16.45
RWx-5	1/28/2013	24.97	--	--	--	8.07	16.90
RWx-5	5/9/2013	24.97	--	--	--	10.61	14.36
RWx-5	8/19/2013	24.97	--	--	--	12.71	12.26
RWx-5	11/25/2013	24.97	--	--	--	9.12	15.85
RWx-5	2/14/2014	24.97	--	--	--	6.71	18.26

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
RWx-5	5/5/2014	24.97	--	--	--	6.28	18.69
RWx-5	8/19/2014	24.97	--	--	--	11.97	13.00
RWx-5	11/21/2014	24.97	--	--	--	9.00	15.97
RW-6	11/20/2002	23.43	8.05	15.38	2.05	10.10	14.87
RW-6	11/21/2002	23.43	8.40	15.03	0.15	8.55	14.99
RW-6	11/22/2002	23.43	8.45	14.98	0.24	8.69	14.92
RW-6	11/24/2002	23.43	8.65	14.78	0.33	8.98	14.70
RW-6	1/2/2003	23.43	6.70	16.73	0.87	7.57	16.51
RW-6	1/7/2003	23.43	6.50	16.93	0.26	6.76	16.87
RW-6	1/8/2003	23.43	6.09	17.34	0.51	6.60	17.21
RW-6	1/9/2003	23.43	6.28	17.15	0.38	6.66	17.06
RW-6	1/10/2003	23.43	6.42	17.01	0.23	6.65	16.95
RW-6	1/13/2003	23.43	8.16	15.27	0.07	8.23	15.25
RW-6	1/14/2003	23.43	6.73	16.70	0.20	6.93	16.65
RW-6	1/15/2003	23.43	6.30	17.13	0.60	6.90	16.98
RW-6	1/16/2003	23.43	6.28	17.15	0.65	6.93	16.99
RW-6	1/17/2003	23.43	6.29	17.14	0.00	6.29	17.14
RW-6	1/20/2003	23.43	6.31	17.12	0.63	6.94	16.96
RW-6	1/22/2003	23.43	6.41	17.02	0.75	7.16	16.83
RW-6	1/23/2003	23.43	6.60	16.83	0.80	7.40	16.63
RW-6	1/24/2003	23.43	6.45	16.98	0.76	7.21	16.79
RW-6	1/27/2003	23.43	5.82	17.61	0.62	6.44	17.46
RW-6	1/28/2003	23.43	5.90	17.53	0.39	6.29	17.43
RW-6	1/29/2003	23.43	5.81	17.62	0.35	6.16	17.53
RW-6	1/30/2003	23.43	5.92	17.51	0.28	6.20	17.44
RW-6	2/3/2003	23.43	6.25	17.18	0.19	6.44	17.13
RW-6	2/6/2003	24.18	6.96	17.22	0.18	7.14	17.18
RW-6	2/11/2003	24.18	7.44	16.74	0.31	7.75	16.66
RW-6	2/18/2003	24.18	7.90	16.28	0.51	8.41	16.15
RW-6	2/21/2003	24.18	7.86	16.32	0.47	8.33	16.20
RW-6	2/26/2003	24.18	7.76	16.42	0.01	7.77	16.42
RW-6	3/4/2003	24.18	--	--	--	7.46	16.72
RW-6	3/12/2003	24.18	8.01	16.17	0.01	8.02	16.17
RW-6	3/14/2003	24.18	--	--	--	7.81	16.37
RW-6	3/26/2003	24.18	--	--	--	7.02	17.16
RW-6	3/28/2003	24.18	--	--	--	7.62	16.56
RW-6	4/2/2003	24.18	--	--	--	7.74	16.44
RW-6	4/4/2003	24.18	--	--	--	8.07	16.11
RW-6	4/8/2003	24.18	--	--	--	7.69	16.49
RW-6	4/11/2003	24.18	7.61	16.57	0.01	7.62	16.57
RW-6	4/15/2003	24.18	--	--	--	7.29	16.89
RW-6	4/17/2003	24.18	7.78	16.40	0.01	7.79	16.40
RW-6	4/22/2003	24.18	--	--	--	7.81	16.37
RW-6	4/25/2003	24.18	--	--	--	7.75	16.43
RW-6	5/2/2003	24.18	--	--	--	8.66	15.52
RW-6	5/6/2003	24.18	8.84	15.34	0.28	9.12	15.27
RW-6	5/9/2003	24.18	8.82	15.36	0.43	9.25	15.25
RW-6	5/23/2003	24.18	8.85	15.33	0.86	9.71	15.12
RW-6	5/28/2003	24.18	8.93	15.25	1.08	10.01	14.98
RW-6	6/13/2003	24.18	9.28	14.90	0.81	10.09	14.70
RW-6	6/18/2003	24.18	9.22	14.96	1.53	10.75	14.58
RW-6	6/27/2003	24.18	9.60	14.58	1.22	10.82	14.28
RW-6	7/7/2003	24.18	9.90	14.28	0.91	10.81	14.05
RW-6	7/16/2003	24.18	9.68	14.50	1.08	10.76	14.23
RW-6	7/31/2003	24.18	10.34	13.84	0.42	10.76	13.74
RW-6	8/5/2003	24.18	10.30	13.88	0.45	10.75	13.77
RW-6	8/11/2003	24.18	11.35	12.83	0.39	11.74	12.73
RW-6	8/22/2003	24.18	11.10	13.08	0.64	11.74	12.92
RW-6	8/26/2003	24.18	10.71	13.47	0.05	10.76	13.46
RW-6	9/2/2003	24.18	10.61	13.57	0.14	10.75	13.54
RW-6	9/9/2003	24.18	--	--	--	10.76	13.42
RW-6	9/19/2003	24.18	--	--	--	10.76	13.42
RW-6	10/14/2003	24.18	--	--	--	10.75	13.43
RW-6	11/20/2003	24.18	--	--	--	8.50	15.68
RW-6	12/3/2003	24.18	--	--	--	7.08	17.10
RW-6	1/19/2004	24.18	--	--	--	6.62	17.56
RW-6	2/24/2004	24.18	--	--	--	7.58	16.60
RW-6	3/15/2004	24.18	--	--	--	8.57	15.61
RW-6	4/19/2004	24.18	--	--	--	9.36	14.82
RW-6	5/17/2004	24.18	--	--	--	10.15	14.03
RW-6	6/22/2004	24.18	--	--	--	9.91	14.27
RW-6	8/18/2004	24.18	10.72	13.46	0.01	10.73	13.46
RW-6	9/21/2004	24.18	--	--	--	9.73	14.45
RW-6	10/19/2004	24.18	--	--	--	8.83	15.35
RW-6	11/23/2004	24.18	--	--	--	8.86	15.32
RW-6	12/21/2004	24.18	--	--	--	7.33	16.85
RW-6	1/13/2005	24.18	--	--	--	8.22	15.96
RW-6	4/28/2005	24.18	--	--	--	7.65	16.53
RW-6	6/1/2005	24.18	--	--	--	7.95	16.23
RW-6	6/29/2005	24.18	--	--	--	9.21	14.97
RW-6	7/20/2005	24.18	--	--	--	9.81	14.37
RW-6	8/22/2005	24.18	--	--	--	10.20	13.98
RW-6	9/12/2005	24.18	--	--	--	10.77	13.41
RW-6	10/12/2005	24.18	--	--	--	10.77	13.41
RW-6	11/21/2005	24.18	--	--	--	9.96	14.22
RW-6	12/27/2005	24.18	--	--	--	7.45	16.73
RW-6	1/30/2006	24.18	--	--	--	4.72	19.46
RW-6	2/16/2006	24.18	--	--	--	6.86	17.32
RW-6	3/13/2006	24.18	--	--	--	7.82	16.36
RW-6	4/18/2006	24.18	--	--	--	8.04	16.14

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
RW-6	5/12/2006	24.18	--	--	--	8.52	15.66
RW-6	6/9/2006	24.18	--	--	--	8.10	16.08
RW-6	7/13/2006	24.18	--	--	--	9.26	14.92
RW-6	8/16/2006	24.18	--	--	--	10.25	13.93
RW-6	9/19/2006	24.18	--	--	--	10.77	13.41
RW-6	10/13/2006	24.18	--	--	--	10.56	13.62
RW-6	11/20/2006	24.18	--	--	--	6.05	18.13
RW-6	12/8/2006	24.18	--	--	--	6.39	17.79
RW-6	1/19/2007	24.18	--	--	--	5.68	18.50
RW-6	2/19/2007	24.18	--	--	--	7.95	16.23
RW-6	3/15/2007	24.18	--	--	--	6.96	17.22
RW-6	4/16/2007	24.18	--	--	--	7.61	16.57
RW-6	5/14/2007	24.18	--	--	--	8.90	15.28
RW-6	6/29/2007	24.18	--	--	--	10.10	14.08
RW-6	7/20/2007	24.18	--	--	--	10.53	13.65
RW-6	8/21/2007	24.18	--	--	--	10.75	13.43
RW-6	9/10/2007	24.18	--	--	--	10.76	13.42
RW-6	10/22/2007	24.18	--	--	--	9.22	14.96
RW-6	11/28/2007	24.18	--	--	--	8.94	15.24
RW-6	12/13/2007	24.18	--	--	--	7.47	16.71
RW-6	1/21/2008	24.18	--	--	--	7.79	16.39
RW-6	2/24/2008	24.18	--	--	--	10.61	13.57
RW-6	3/24/2008	24.18	--	--	--	8.45	15.73
RW-6	8/25/2008	24.18	--	--	--	9.80	14.38
RW-6	2/18/2009	24.18	--	--	--	8.85	15.33
RW-6	8/25/2009	24.18	--	--	--	10.80	13.38
RW-6	3/22/2010	24.18	--	--	--	8.19	15.99
RW-6	8/23/2010	24.18	--	--	--	10.20	13.98
RW-6	2/7/2011	24.18	--	--	--	7.25	16.93
RW-6	5/27/2011	24.18			Not Monitored		
RW-6	8/8/2011	24.18	--	--	--	10.31	13.87
RW-6	11/14/2011	24.18	--	--	--	9.56	14.62
RW-6	2/20/2012	24.18	--	--	--	7.19	16.99
RW-6	8/22/2012	24.18	--	--	--	10.07	14.11
RW-6	11/5/2012	24.18	--	--	--	7.63	16.55
RW-6	1/28/2013	24.18	--	--	--	7.16	17.02
RW-6	5/9/2013	24.18	--	--	--	8.22	15.96
RW-6	8/19/2013	24.18	--	--	--	10.80	13.38
RW-6	11/25/2013	24.18	--	--	--	8.32	15.86
RW-6	11/25/2013	24.18	--	--	--	8.32	15.86
RW-6	2/14/2014	24.18	--	--	--	6.76	17.42
RW-6	5/5/2014	24.18	--	--	--	5.99	18.19
RW-6	8/19/2014	24.18	--	--	--	10.57	13.61
RW-6	11/21/2014	24.18	--	--	--	5.54	18.64
RW-7	11/20/2002	23.01	7.65	15.36	2.46	10.11	14.75
RW-7	11/21/2002	23.01	7.60	15.41	2.51	10.11	14.78
RW-7	11/22/2002	23.01	8.03	14.98	1.75	9.78	14.54
RW-7	11/24/2002	23.01	8.23	14.78	1.26	9.49	14.47
RW-7	1/2/2003	23.01	6.44	16.57	0.40	6.84	16.47
RW-7	1/3/2003	23.01	6.28	16.73	0.40	6.68	16.63
RW-7	1/6/2003	23.01	5.93	17.08	0.12	6.05	17.05
RW-7	1/7/2003	23.01	5.84	17.17	0.20	6.04	17.12
RW-7	1/8/2003	23.01	5.66	17.35	0.20	5.86	17.30
RW-7	1/9/2003	23.01	5.72	17.29	0.33	6.05	17.21
RW-7	1/10/2003	23.01	5.90	17.11	0.25	6.15	17.05
RW-7	1/13/2003	23.01	5.98	17.03	0.37	6.35	16.94
RW-7	1/14/2003	23.01	5.97	17.04	0.27	6.24	16.97
RW-7	1/15/2003	23.01	5.95	17.06	0.30	6.25	16.99
RW-7	1/16/2003	23.01	5.84	17.17	0.41	6.25	17.07
RW-7	1/17/2003	23.01	5.85	17.16	0.35	6.20	17.07
RW-7	1/20/2003	23.01	6.02	16.99	0.53	6.55	16.86
RW-7	1/22/2003	23.01	6.11	16.90	0.80	6.91	16.70
RW-7	1/23/2003	23.01	6.25	16.76	1.05	7.30	16.50
RW-7	1/24/2003	23.01	6.16	16.85	1.03	7.19	16.59
RW-7	1/27/2003	23.01	5.60	17.41	0.58	6.18	17.27
RW-7	1/28/2003	23.01	5.65	17.36	0.63	6.28	17.20
RW-7	1/29/2003	23.01	5.55	17.46	0.65	6.20	17.30
RW-7	1/30/2003	23.01	5.65	17.36	0.67	6.32	17.19
RW-7	2/3/2003	23.01	5.91	17.10	0.76	6.67	16.91
RW-7	2/6/2003	23.78	6.55	17.23	0.79	7.34	17.03
RW-7	2/11/2003	23.78	6.99	16.79	1.08	8.07	16.52
RW-7	2/21/2003	23.78	7.42	16.36	0.99	8.41	16.11
RW-7	2/26/2003	23.78	7.24	16.54	0.04	7.28	16.53
RW-7	3/4/2003	23.78	--	--	--	6.96	16.82
RW-7	3/12/2003	23.01	Trace	--	--	7.71	15.30
RW-7	3/14/2003	23.01	--	--	--	7.51	15.50
RW-7	3/26/2003	23.01	--	--	--	6.68	16.33
RW-7	3/28/2003	23.01	--	--	--	7.25	15.76
RW-7	4/2/2003	23.01	--	--	--	7.42	15.59
RW-7	4/4/2003	23.01	--	--	--	7.64	15.37
RW-7	4/8/2003	23.01	--	--	--	7.22	15.79
RW-7	4/11/2003	23.01	--	--	--	7.16	15.85
RW-7	4/15/2003	23.01	--	--	--	6.81	16.20
RW-7	4/17/2003	23.01	--	--	--	7.38	15.63
RW-7	4/22/2003	23.01	--	--	--	7.34	15.67
RW-7	4/25/2003	23.01	--	--	--	7.21	15.80
RW-7	5/2/2003	23.01	8.30	14.71	0.03	8.33	14.70
RW-7	5/6/2003	23.01	8.52	14.49	0.08	8.60	14.47
RW-7	5/9/2003	23.01	8.54	14.47	0.03	8.57	14.46
RW-7	5/23/2003	23.01	8.55	14.46	1.03	9.58	14.20

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
RW-7	5/28/2003	23.01	8.57	14.44	1.55	10.12	14.05
RW-7	6/13/2003	23.01	8.92	14.09	1.64	10.56	13.68
RW-7	6/18/2003	23.01	8.88	14.13	1.87	10.75	13.66
RW-7	6/27/2003	23.01	9.26	13.75	1.55	10.81	13.36
RW-7	7/7/2003	23.01	9.54	13.47	1.21	10.75	13.17
RW-7	7/16/2003	23.01	9.42	13.59	1.30	10.72	13.27
RW-7	7/31/2003	23.01	9.98	13.03	0.76	10.74	12.84
RW-7	8/5/2003	23.01	10.88	12.13	0.74	11.62	11.95
RW-7	8/11/2003	23.01	11.00	12.01	0.69	11.69	11.84
RW-7	8/22/2003	23.01	10.70	12.31	1.01	11.71	12.06
RW-7	8/26/2003	23.01	11.28	11.73	0.37	11.65	11.64
RW-7	9/2/2003	23.01	10.36	12.65	0.36	10.72	12.56
RW-7	9/9/2003	23.01	10.75	12.26	0.01	10.76	12.26
RW-7	9/19/2003	23.01	--	--	--	10.76	12.25
RW-7	10/14/2003	23.01	--	--	--	10.77	12.24
RW-7	11/20/2003	23.01	--	--	--	8.24	14.77
RW-7	12/3/2003	23.01	--	--	--	6.79	16.22
RW-7	1/19/2004	23.01	--	--	--	6.31	16.70
RW-7	2/24/2004	23.01	--	--	--	7.11	15.90
RW-7	3/15/2004	23.01	--	--	--	8.20	14.81
RW-7	4/19/2004	23.01	--	--	--	8.85	14.16
RW-7	5/17/2004	23.01	--	--	--	9.79	13.22
RW-7	6/22/2004	23.01	--	--	--	9.57	13.44
RW-7	8/18/2004	23.01	10.71	12.30	0.01	10.72	12.30
RW-7	9/21/2004	23.01	--	--	--	10.45	12.56
RW-7	10/19/2004	23.01	--	--	--	8.73	14.28
RW-7	11/23/2004	23.01	--	--	--	9.60	13.41
RW-7	12/21/2004	23.01	--	--	--	7.06	15.95
RW-7	1/13/2005	23.01	--	--	--	7.93	15.08
RW-7	4/28/2005	23.01	--	--	--	7.37	15.64
RW-7	6/1/2005	23.01	--	--	--	7.67	15.34
RW-7	6/29/2005	23.01	--	--	--	9.05	13.96
RW-7	7/20/2005	23.01	--	--	--	9.61	13.40
RW-7	8/22/2005	23.01	--	--	--	9.88	13.13
RW-7	5/27/2011	23.01			Not Monitored		
RWx-7	9/12/2005	24.71	--	--	--	11.99	12.72
RWx-7	10/12/2005	24.71	12.54	12.17	0.23	12.77	12.11
RWx-7	11/21/2005	24.71	9.83	14.88	0.13	9.96	14.85
RWx-7	12/27/2005	24.71	8.15	16.56	0.02	8.17	16.56
RWx-7	1/30/2006	24.71	5.31	19.40	0.01	5.32	19.40
RWx-7	2/16/2006	24.71	7.41	17.30	0.02	7.43	17.30
RWx-7	3/13/2006	24.71	--	--	--	8.46	16.25
RWx-7	4/18/2006	24.71	--	--	--	8.71	16.00
RWx-7	5/12/2006	24.71	--	--	--	9.18	15.53
RWx-7	6/9/2006	24.71	--	--	--	8.76	15.95
RWx-7	7/13/2006	24.71	--	--	--	10.10	14.61
RWx-7	8/16/2006	24.71	11.03	13.68	0.08	11.11	13.66
RWx-7	9/19/2006	24.71	--	--	--	11.60	13.11
RWx-7	10/13/2006	24.71	--	--	--	11.31	13.40
RWx-7	11/20/2006	24.71	--	--	--	6.61	18.10
RWx-7	12/8/2006	24.71	--	--	--	6.91	17.80
RWx-7	1/19/2007	24.71	--	--	--	6.22	18.49
RWx-7	2/19/2007	24.71	--	--	--	8.55	16.16
RWx-7	3/15/2007	24.71	--	--	--	7.52	17.19
RWx-7	4/16/2007	24.71	--	--	--	8.22	16.49
RWx-7	5/14/2007	24.71	--	--	--	9.52	15.19
RWx-7	6/29/2007	24.71	--	--	--	10.74	13.97
RWx-7	7/20/2007	24.71	--	--	--	11.16	13.55
RWx-7	8/21/2007	24.71	--	--	--	11.82	12.89
RWx-7	9/10/2007	24.71	--	--	--	11.90	12.81
RWx-7	10/22/2007	24.71	--	--	--	10.01	14.70
RWx-7	11/28/2007	24.71	--	--	--	9.54	15.17
RWx-7	12/13/2007	24.71	--	--	--	8.32	16.39
RWx-7	1/21/2008	24.71	--	--	--	8.34	16.37
RWx-7	2/24/2008	24.71	--	--	--	8.76	15.95
RWx-7	3/24/2008	24.71	--	--	--	9.06	15.65
RWx-7	8/25/2008	24.71	--	--	--	11.00	13.71
RWx-7	2/18/2009	24.71	--	--	--	9.39	15.32
RWx-7	8/25/2009	24.71	--	--	--	12.22	12.49
RWx-7	3/22/2010	24.71	--	--	--	8.80	15.91
RWx-7	8/23/2010	24.71	--	--	--	11.25	13.46
RWx-7	2/7/2011	24.71	--	--	--	7.85	16.86
RWx-7	5/27/2011	24.71	--	--	--	8.98	15.73
RWx-7	8/8/2011	24.71	--	--	--	11.15	13.56
RWx-7	11/14/2011	24.71	--	--	--	10.54	14.17
RWx-7	2/20/2012	24.71	--	--	--	7.79	16.92
RWx-7	8/22/2012	24.71	--	--	--	10.97	13.74
RWx-7	11/5/2012	24.71	--	--	--	8.69	16.02
RWx-7	1/28/2013	24.71	--	--	--	7.72	16.99
RWx-7	5/9/2013	24.71	--	--	--	8.82	15.89
RWx-7	8/19/2013	24.71	--	--	--	11.77	12.94
RWx-7	11/25/2013	24.71	--	--	--	9.07	15.64
RWx-7	2/14/2014	24.71	--	--	--	7.65	17.06
RWx-7	5/5/2014	24.71	--	--	--	6.52	18.19
RWx-7	8/19/2014	24.71	--	--	--	11.42	13.29
RWx-7	11/21/2014	24.71	--	--	--	8.68	16.03
RWX-7	11/14/2016	24.71	---	---	---	5.80	18.91
RWX-7	11/18/2016	---	---	---	---	---	---
RWX-7	2/17/2017	24.71	---	---	---	5.58	19.13
RWX-7	5/26/2017	24.71	---	---	---	8.07	16.64

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
RWX-7	9/26/2017	24.71	---	---	---	11.82	12.89
RWX-7	9/28/2017	---	---	---	---	---	---
RWX-7	12/14/2017	24.71	---	---	---	6.86	17.85
RWX-7	2/26/2018	24.71	---	---	---	7.67	17.04
HW-1East	11/20/2003	20.35	--	--	--	4.61	15.74
HW-1East	12/3/2003	20.35	--	--	--	4.00	16.35
HW-1East	1/19/2004	20.35	3.56	16.79	0.005	3.57	16.79
HW-1East	2/24/2004	20.35	--	--	--	5.46	14.89
HW-1East	3/15/2004	20.35	--	--	--	5.84	14.51
HW-1East	4/19/2004	20.35	--	--	--	6.42	13.93
HW-1East	5/17/2004	20.35			Not Monitored		
HW-1East	6/22/2004	20.35			Not Monitored		
HW-1East	8/18/2004	20.35			Dry		
HW-1East	9/21/2004	20.35	--	--	--	6.92	13.43
HW-1East	10/19/2004	20.35	--	--	--	6.02	14.33
HW-1East	11/23/2004	20.35	--	--	--	6.46	13.89
HW-1East	12/21/2004	20.35	--	--	--	4.45	15.90
HW-1East	1/13/2005	20.35	--	--	--	5.25	15.10
HW-1East	4/28/2005	20.35	--	--	--	4.82	15.53
HW-1East	6/1/2005	20.35	--	--	--	5.09	15.26
HW-1East	6/29/2005	20.35	--	--	--	6.83	13.52
HW-1East	7/20/2005	20.35	--	--	--	6.88	13.47
HW-1East	8/22/2005	20.35	--	--	--	7.03	13.32
HW-1East	12/21/2004	20.35	--	--	--	7.03	13.32
HW-1East	5/27/2011	20.35			Not Monitored		
HWx-1East	9/12/2005	20.44	--	--	--	10.27	10.17
HWx-1East	10/12/2005	20.44	--	--	--	9.57	10.87
HWx-1East	11/21/2005	20.44	--	--	--	5.71	14.73
HWx-1East	12/27/2005	20.44	--	--	--	4.51	15.93
HWx-1East	1/30/2006	20.44	--	--	--	2.23	18.21
HWx-1East	2/16/2006	20.44	--	--	--	4.10	16.34
HWx-1East	3/13/2006	20.44	--	--	--	4.94	15.50
HWx-1East	4/18/2006	20.44	--	--	--	4.95	15.49
HWx-1East	5/12/2006	20.44	--	--	--	5.23	15.21
HWx-1East	6/9/2006	20.44	--	--	--	4.96	15.48
HWx-1East	7/13/2006	20.44	--	--	--	5.45	14.99
HWx-1East	8/16/2006	20.44	--	--	--	6.75	13.69
HWx-1East	9/19/2006	20.44	--	--	--	9.20	11.24
HWx-1East	10/13/2006	20.44	8.65	11.79	2.85	11.50	11.08
HWx-1East	11/20/2006	20.44	--	--	--	3.25	17.19
HWx-1East	12/8/2006	20.44	--	--	--	3.40	17.04
HWx-1East	1/19/2007	20.44	--	--	--	3.07	17.37
HWx-1East	2/19/2007	20.44	--	--	--	4.74	15.70
HWx-1East	3/15/2007	20.44	--	--	--	3.91	16.53
HWx-1East	4/16/2007	20.44	--	--	--	4.42	16.02
HWx-1East	5/14/2007	20.44	--	--	--	5.45	14.99
HWx-1East	6/29/2007	20.44	--	--	--	6.58	13.86
HWx-1East	7/20/2007	20.44	--	--	--	8.38	12.06
HWx-1East	8/21/2007	20.44	--	--	--	8.79	11.65
HWx-1East	9/10/2007	20.44	--	--	--	8.95	11.49
HWx-1East	10/22/2007	20.44	--	--	--	6.45	13.99
HWx-1East	11/28/2007	20.44	--	--	--	5.72	14.72
HWx-1East	12/13/2007	20.44	--	--	--	4.68	15.76
HWx-1East	1/21/2008	20.44	--	--	--	4.88	15.56
HWx-1East	2/24/2008	20.44	--	--	--	5.17	15.27
HWx-1East	3/24/2008	20.44	--	--	--	5.54	14.90
HWx-1East	8/25/2008	20.44	--	--	--	8.95	11.49
HWx-1East	2/18/2009	20.44	--	--	--	5.15	15.29
HWx-1East	8/25/2009	20.44	--	--	--	10.05	10.39
HWx-1East	3/22/2010	20.44	--	--	--	10.45	9.99
HWx-1East	8/23/2010	20.44	--	--	--	10.20	10.24
HWx-1East	2/7/2011	20.44	--	--	--	4.60	15.84
HWx-1East	5/27/2011	20.44			Not Monitored		
HW-1West	11/20/2003	18.86	--	--	--	4.32	14.54
HW-1West	12/3/2003	18.86	--	--	--	3.56	15.30
HW-1West	1/19/2004	18.86	--	--	--	3.28	15.58
HW-1West	2/24/2004	18.86	--	--	--	4.96	13.90
HW-1West	3/15/2004	18.86	--	--	--	6.35	12.51
HW-1West	4/19/2004	18.86	--	--	--	5.90	12.96
HW-1West	5/17/2004	18.86			Not Monitored		
HW-1West	6/22/2004	18.86			Not Monitored		
HW-1West	8/18/2004	18.86	7.31	11.55	0.01	7.32	11.55
HW-1West	9/21/2004	18.86	--	--	--	6.43	12.43
HW-1West	10/19/2004	18.86	--	--	--	5.56	13.30
HW-1West	11/23/2004	18.86	--	--	--	5.82	13.04
HW-1West	12/21/2004	18.86	--	--	--	3.95	14.91
HW-1West	1/13/2005	18.86	--	--	--	4.66	14.20
HW-1West	4/28/2005	18.86	--	--	--	4.30	14.56
HW-1West	6/1/2005	18.86	--	--	--	5.60	13.26
HW-1West	6/29/2005	18.86	--	--	--	6.34	12.52
HW-1West	7/20/2005	18.86	--	--	--	6.40	12.46
HW-1West	8/22/2005	18.86	--	--	--	6.55	12.31
HW-1West	5/27/2011	18.86			Not Monitored		
HWx-1West	9/12/2005	19.96	--	--	--	10.16	9.80
HWx-1West	10/12/2005	19.96	9.22	10.74	0.01	9.23	10.74
HWx-1West	11/21/2005	19.96	5.42	14.54	0.01	5.43	14.54
HWx-1West	12/27/2005	19.96	--	--	--	4.01	15.95

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
HWx-1West	1/30/2006	19.96	--	--	--	1.72	18.24
HWx-1West	2/16/2006	19.96	3.79	16.17	0.01	3.80	16.17
HWx-1West	3/13/2006	19.96	--	--	--	4.52	15.44
HWx-1West	4/18/2006	19.96	--	--	--	4.48	15.48
HWx-1West	5/12/2006	19.96	--	--	--	4.80	15.16
HWx-1West	6/9/2006	19.96	--	--	--	4.52	15.44
HWx-1West	7/13/2006	19.96	--	--	--	9.89	10.07
HWx-1West	8/16/2006	19.96	--	--	--	6.20	13.76
HWx-1West	9/19/2006	19.96	--	--	--	6.87	13.09
HWx-1West	10/13/2006	19.96	--	--	--	6.57	13.39
HWx-1West	11/20/2006	19.96	--	--	--	2.76	17.20
HWx-1West	12/8/2006	19.96	--	--	--	2.91	17.05
HWx-1West	1/19/2007	19.96	--	--	--	2.60	17.36
HWx-1West	2/19/2007	19.96	--	--	--	4.26	15.70
HWx-1West	3/15/2007	19.96	--	--	--	3.42	16.54
HWx-1West	4/16/2007	19.96	--	--	--	3.95	16.01
HWx-1West	5/14/2007	19.96	--	--	--	4.95	15.01
HWx-1West	6/29/2007	19.96	--	--	--	9.06	10.90
HWx-1West	7/20/2007	19.96	--	--	--	6.43	13.53
HWx-1West	8/21/2007	19.96	--	--	--	8.05	11.91
HWx-1West	9/10/2007	19.96	--	--	--	8.11	11.85
HWx-1West	10/22/2007	19.96	--	--	--	5.98	13.98
HWx-1West	11/28/2007	19.96	--	--	--	5.23	14.73
HWx-1West	12/13/2007	19.96	--	--	--	4.18	15.78
HWx-1West	1/21/2008	19.96	--	--	--	4.38	15.58
HWx-1West	2/24/2008	19.96	--	--	--	4.72	15.24
HWx-1West	3/24/2008	19.96	--	--	--	5.06	14.90
HWx-1West	8/25/2008	19.96	--	--	--	6.90	13.06
HWx-1West	2/18/2009	19.96	--	--	--	5.02	14.94
HWx-1West	8/25/2009	19.96	--	--	--	7.21	12.75
HWx-1West	3/22/2010	19.96	--	--	--	9.60	10.36
HWx-1West	8/23/2010	19.96	--	--	--	9.24	10.72
HWx-1West	2/7/2011	19.96	--	--	--	4.13	15.83
HWx-1West	5/27/2011	19.96			Not Monitored		
MW-1	11/14/2011	20.51	--	--	--	8.45	12.06
MW-1	2/20/2012	20.51	--	--	--	6.96	13.55
MW-1	8/22/2012	20.51	--	--	--	9.60	10.91
MW-1	11/5/2012	20.51	--	--	--	7.91	12.60
MW-1	1/28/2013	20.51	--	--	--	7.41	13.10
MW-1	5/9/2013	20.51	--	--	--	8.24	12.27
MW-1	8/19/2013	20.51	--	--	--	10.45	10.06
MW-1	11/25/2013	20.51	--	--	--	8.02	12.49
MW-1	2/14/2014	20.51	--	--	--	7.71	12.80
MW-1	5/5/2014	20.51	--	--	--	7.04	13.47
MW-1	8/19/2014	20.51	--	--	--	9.16	11.35
MW-1	11/21/2014	20.51	--	--	--	7.97	12.54
MW-1	11/14/2016	20.51	---	---	---	7.49	13.02
MW-1	11/16/2016	---	---	---	---	---	---
MW-1	2/16/2017	20.51	---	---	---	7.01	13.50
MW-1	5/24/2017	20.51	---	---	---	7.67	12.84
MW-1	9/26/2017	20.51	---	---	---	9.49	11.02
MW-1	9/27/2017	---	---	---	---	---	---
MW-1	12/13/2017	20.51	---	---	---	7.32	13.19
MW-1	2/26/2018	20.51	---	---	---	7.62	12.89
MW-2	11/14/2011	20.29	--	--	--	8.71	11.58
MW-2	2/20/2012	20.29	--	--	--	7.35	12.94
MW-2	8/22/2012	20.29	--	--	--	9.39	10.90
MW-2	11/5/2012	20.29	--	--	--	7.71	12.58
MW-2	1/28/2013	20.29	--	--	--	7.61	12.68
MW-2	5/9/2013	20.29	--	--	--	7.99	12.30
MW-2	8/19/2013	20.29	--	--	--	10.22	10.07
MW-2	11/25/2013	20.29	--	--	--	7.76	12.53
MW-2	2/14/2014	20.29	--	--	--	7.46	12.83
MW-2	5/5/2014	20.29	--	--	--	6.72	13.57
MW-2	8/19/2014	20.29	--	--	--	8.93	11.36
MW-2	11/21/2014	20.29	--	--	--	7.45	12.84
MW-2	11/14/2016	20.29	---	---	---	7.30	12.99
MW-2	11/16/2016	---	---	---	---	---	---
MW-2	2/16/2017	20.29	---	---	---	6.96	13.33
MW-2	5/24/2017	20.29	---	---	---	7.59	12.70
MW-2	9/26/2017	20.29	---	---	---	9.55	10.74
MW-2	9/27/2017	---	---	---	---	---	---
MW-2	12/13/2017	20.29	---	---	---	7.46	12.83
MW-2	2/26/2018	20.29	---	---	---	7.51	12.78
MW-3	11/14/2011	21.21	--	--	--	8.91	12.30
MW-3	2/20/2012	21.21	--	--	--	6.09	15.12
MW-3	8/22/2012	21.21	--	--	--	10.30	10.91
MW-3	11/5/2012	21.21	--	--	--	7.30	13.91
MW-3	1/28/2013	21.21	--	--	--	6.10	15.11
MW-3	5/9/2013	21.21	--	--	--	7.09	14.12
MW-3	8/19/2013	21.21	--	--	--	10.99	10.22
MW-3	11/25/2013	21.21	--	--	--	7.15	14.06
MW-3	2/14/2014	21.21	--	--	--	6.68	14.53
MW-3	5/5/2014	21.21	--	--	--	6.02	15.19
MW-3	8/19/2014	21.21	--	--	--	9.71	11.50
MW-3	11/21/2014	21.21	--	--	--	7.00	14.21
MW-3	11/14/2016	21.21	---	---	---	6.00	15.21
MW-3	11/16/2016	---	---	---	---	---	---

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-3	2/16/2017	21.21	---	---	---	4.75	16.46
MW-3	5/24/2017	21.21	---	---	---	6.50	14.71
MW-3	9/26/2017	21.21	---	---	---	10.08	11.13
MW-3	9/27/2017	---	---	---	---	---	---
MW-3	9/27/2017	---	---	---	---	---	---
MW-3	12/13/2017	21.21	---	---	---	5.74	15.47
MW-3	2/26/2018	21.21	---	---	---	5.86	15.35
MW-4	11/14/2011	20.44	--	--	--	8.31	12.13
MW-4	2/20/2012	20.44	--	--	--	7.28	13.16
MW-4	8/22/2012	20.44	--	--	--	9.41	11.03
MW-4	11/5/2012	20.44	--	--	--	7.52	12.92
MW-4	1/28/2013	20.44	--	--	--	7.29	13.15
MW-4	5/9/2013	20.44	--	--	--	7.97	12.47
MW-4	8/19/2013	20.44	--	--	--	10.11	10.33
MW-4	11/25/2013	20.44	--	--	--	7.56	12.88
MW-4	2/14/2014	20.44	--	--	--	6.29	14.15
MW-4	5/5/2014	20.44	--	--	--	4.91	15.53
MW-4	8/19/2014	20.44	--	--	--	8.68	11.76
MW-4	11/21/2014	20.44	--	--	--	7.12	13.32
MW-4	11/14/2016	20.44	---	---	---	4.72	15.72
MW-4	11/16/2016	---	---	---	---	---	---
MW-4	2/16/2017	20.44	---	---	---	3.95	16.49
MW-4	5/24/2017	20.44	---	---	---	5.87	14.57
MW-4	9/26/2017	20.44	---	---	---	9.13	11.31
MW-4	9/27/2017	---	---	---	---	---	---
MW-4	12/13/2017	20.44	---	---	---	4.92	15.52
MW-4	2/26/2018	20.44	---	---	---	5.02	15.42
MW-5	11/14/2011	21.32	--	--	--	9.02	12.30
MW-5	2/20/2012	21.32	--	--	--	8.21	13.11
MW-5	8/22/2012	21.32	--	--	--	10.29	11.03
MW-5	11/5/2012	21.32	--	--	--	8.60	12.72
MW-5	1/28/2013	21.32	--	--	--	8.45	12.87
MW-5	5/9/2013	21.32	--	--	--	8.97	12.35
MW-5	8/19/2013	21.32	--	--	--	10.98	10.34
MW-5	11/25/2013	21.32	--	--	--	8.59	12.73
MW-5	2/14/2014	21.32	--	--	--	7.04	14.28
MW-5	5/5/2014	21.32	--	--	--	7.60	13.72
MW-5	8/19/2014	21.32	--	--	--	9.58	11.74
MW-5	11/21/2014	21.32	--	--	--	8.20	13.12
MW-5	11/14/2016	21.32	---	---	---	7.92	13.40
MW-5	11/17/2016	---	---	---	---	---	---
MW-5	2/16/2017	21.32	---	---	---	7.10	14.22
MW-5	5/24/2017	21.32	---	---	---	8.27	13.05
MW-5	9/26/2017	21.32	---	---	---	9.98	11.34
MW-5	9/28/2017	---	---	---	---	---	---
MW-5	12/13/2017	21.32	---	---	---	7.92	13.40
MW-5	2/26/2018	21.32	---	---	---	8.04	13.28
MW-6	11/14/2011	22.30	--	--	--	10.30	12.00
MW-6	2/20/2012	22.30	--	--	--	9.36	12.94
MW-6	8/22/2012	22.30	--	--	--	11.30	11.00
MW-6	11/5/2012	22.30	--	--	--	9.68	12.62
MW-6	1/28/2013	22.30	--	--	--	9.63	12.67
MW-6	5/9/2013	22.30	--	--	--	10.09	12.21
MW-6	8/19/2013	22.30	--	--	--	11.95	10.35
MW-6	11/25/2013	22.30	--	--	--	9.71	12.59
MW-6	2/14/2014	22.30	--	--	--	9.13	13.17
MW-6	5/5/2014	22.30	--	--	--	8.64	13.66
MW-6	8/19/2014	22.30	--	--	--	10.54	11.76
MW-6	11/21/2014	22.30	--	--	--	9.28	13.02
MW-6	11/14/2016	22.30	---	---	---	9.06	13.24
MW-6	11/17/2016	---	---	---	---	---	---
MW-6	11/17/2016	---	---	---	---	---	---
MW-6	2/16/2017	22.30	---	---	---	8.23	14.07
MW-6	5/24/2017	22.30	---	---	---	9.38	12.92
MW-6	9/26/2017	22.30	---	---	---	10.87	11.43
MW-6	9/28/2017	---	---	---	---	---	---
MW-6	12/13/2017	22.30	---	---	---	9.01	13.29
MW-6	2/26/2018	22.30	---	---	---	9.21	13.09
MW-7	11/14/2011	22.10	--	--	--	10.21	11.89
MW-7	2/20/2012	22.10	--	--	--	8.96	13.14
MW-7	8/22/2012	22.10	--	--	--	11.07	11.03
MW-7	11/5/2012	22.10	--	--	--	9.51	12.59
MW-7	1/28/2013	22.10	--	--	--	9.12	12.98
MW-7	5/9/2013	22.10	--	--	--	9.53	12.57
MW-7	8/19/2013	22.10	--	--	--	11.63	10.47
MW-7	11/25/2013	22.10	--	--	--	9.32	12.78
MW-7	2/14/2014	22.10	--	--	--	8.81	13.29
MW-7	5/5/2014	22.10	--	--	--	8.22	13.88
MW-7	8/19/2014	22.10	--	--	--	10.48	11.62
MW-7	11/14/2016	22.10	---	---	---	8.77	13.33
MW-7	11/17/2016	---	---	---	---	---	---
MW-7	2/16/2017	22.10	---	---	---	7.37	14.73
MW-7	5/24/2017	22.10	---	---	---	9.02	13.08
MW-7	9/26/2017	22.10	---	---	---	11.67	10.43
MW-7	12/13/2017	22.10	---	---	---	8.32	13.78
MW-7	2/26/2018	22.10	---	---	---	8.86	13.24

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-8	11/14/2011	21.54	--	--	--	9.59	11.95
MW-8	2/20/2012	21.54	--	--	--	8.39	13.15
MW-8	8/22/2012	21.54	--	--	--	10.50	11.04
MW-8	11/5/2012	21.54	--	--	--	9.00	12.54
MW-8	1/28/2013	21.54	--	--	--	8.78	12.76
MW-8	5/9/2013	21.54	--	--	--	9.29	12.25
MW-8	8/19/2013	21.54	--	--	--	11.22	10.32
MW-8	11/25/2013	21.54	--	--	--	8.95	12.59
MW-8	2/14/2014	21.54	--	--	--	8.41	13.13
MW-8	5/5/2014	21.54	--	--	--	7.80	13.74
MW-8	8/19/2014	21.54	--	--	--	9.88	11.66
MW-8	11/14/2016	21.54	---	---	---	7.71	13.83
MW-8	11/17/2016	---	---	---	---	---	---
MW-8	2/16/2017	21.54	---	---	---	7.41	14.13
MW-8	5/24/2017	21.54	---	---	---	8.46	13.08
MW-8	9/26/2017	21.54	---	---	---	10.91	10.63
MW-8	12/13/2017	21.54	---	---	---	8.23	13.31
MW-8	2/26/2018	21.54	---	---	---	8.36	13.18
MW-9	11/14/2011	20.82	--	--	--	8.47	12.35
MW-9	2/20/2012	20.82	--	--	--	5.90	14.92
MW-9	8/22/2012	20.82	--	--	--	7.56	13.26
MW-9	11/5/2012	20.82	--	--	--	7.68	13.14
MW-9	1/28/2013	20.82	--	--	--	6.45	14.37
MW-9	5/9/2013	20.82	--	--	--	7.04	13.78
MW-9	8/19/2013	20.82	--	--	--	8.72	12.10
MW-9	11/25/2013	20.82	--	--	--	7.54	13.28
MW-9	2/14/2014	20.82	--	--	--	6.41	14.41
MW-9	5/5/2014	20.82	--	--	--	5.91	14.91
MW-9	8/19/2014	20.82	--	--	--	8.44	12.38
MW-9	11/21/2014	20.82	--	--	--	6.79	14.03
MW-9	11/14/2016	20.82	---	---	---	6.55	14.27
MW-9	11/16/2016	---	---	---	---	---	---
MW-9	2/16/2017	20.82	---	---	---	5.34	15.48
MW-9	5/25/2017	20.82	---	---	---	5.23	15.59
MW-9	9/26/2017	20.82	---	---	---	8.49	12.33
MW-9	9/27/2017	---	---	---	---	---	---
MW-9	12/13/2017	20.82	---	---	---	5.12	15.70
MW-9	2/26/2018	20.82	---	---	---	5.22	15.60
MW-10	11/14/2011	21.12	--	--	--	9.76	11.36
MW-10	2/20/2012	21.12	--	--	--	8.39	12.73
MW-10	8/22/2012	21.12	--	--	--	10.49	10.63
MW-10	11/5/2012	21.12	--	--	--	8.86	12.26
MW-10	1/28/2013	21.12	--	--	--	8.91	12.21
MW-10	5/9/2013	21.12	--	--	--	9.46	11.66
MW-10	8/19/2013	21.12	--	--	--	11.29	9.83
MW-10	11/25/2013	21.12	--	--	--	9.05	12.07
MW-10	2/14/2014	21.12	--	--	--	8.39	12.73
MW-10	5/5/2014	21.12	--	--	--	7.73	13.39
MW-10	8/19/2014	21.12	--	--	--	10.07	11.05
MW-10	11/21/2014	21.12	--	--	--	8.81	12.31
MW-10	11/14/2016	21.12	---	---	---	7.31	13.81
MW-10	11/16/2016	---	---	---	---	---	---
MW-10	2/16/2017	21.12	---	---	---	5.85	15.27
MW-10	5/24/2017	21.12	---	---	---	8.78	12.34
MW-10	9/26/2017	21.12	---	---	---	10.59	10.53
MW-10	9/28/2017	---	---	---	---	---	---
MW-10	12/14/2017	21.12	---	---	---	8.52	12.60
MW-10	12/14/2017	21.12	---	---	---	8.52	12.60
MW-10	2/26/2018	21.12	---	---	---	8.51	12.61
MW-11	2/20/2012	16.80	--	--	--	3.98	12.82
MW-11	8/22/2012	16.80	--	--	--	6.31	10.49
MW-11	11/5/2012	16.80	--	--	--	4.75	12.05
MW-11	1/28/2013	16.80	--	--	--	4.26	12.54
MW-11	5/9/2013	16.80	--	--	--	5.12	11.68
MW-11	8/19/2013	16.80	--	--	--	6.89	9.91
MW-11	11/25/2013	16.80	--	--	--	4.52	12.28
MW-11	2/14/2014	16.80	--	--	--	3.99	12.81
MW-11	5/5/2014	16.80	--	--	--	3.21	13.59
MW-11	8/19/2014	16.80	--	--	--	5.69	11.11
MW-11	11/21/2014	16.80	--	--	--	4.65	12.15
MW-11	11/14/2016	16.80	---	---	---	3.88	12.92
MW-11	11/18/2016	---	---	---	---	---	---
MW-11	2/17/2017	16.80	---	---	---	3.45	13.35
MW-11	5/25/2017	16.80	---	---	---	4.38	12.42
MW-11	9/26/2017	16.80	---	---	---	6.20	10.60
MW-11	9/27/2017	---	---	---	---	---	---
MW-11	12/12/2017	16.80	---	---	---	4.75	12.05
MW-11	2/26/2018	16.80	---	---	---	4.38	12.42
MW-12	2/20/2012	19.59	--	--	--	7.52	12.07
MW-12	8/22/2012	19.59	--	--	--	8.71	10.88
MW-12	11/5/2012	19.59	--	--	--	7.16	12.43
MW-12	5/9/2013	19.59	--	--	--	7.69	11.90
MW-12	8/19/2013	19.59	--	--	--	9.41	10.18
MW-12	11/25/2013	19.59	--	--	--	7.27	12.32
MW-12	2/14/2014	19.59	--	--	--	6.51	13.08
MW-12	5/5/2014	19.59	--	--	--	5.96	13.63
MW-12	8/19/2014	19.59	--	--	--	8.18	11.41

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-12	11/21/2014	19.59	--	--	--	7.11	12.48
MW-12	11/14/2016	19.59	---	---	---	4.28	15.31
MW-12	11/18/2016	---	---	---	---	---	---
MW-12	2/17/2017	19.59	---	---	---	5.87	13.72
MW-12	2/17/2017	19.59	---	---	---	5.87	13.72
MW-12	5/25/2017	19.59	---	---	---	6.87	12.72
MW-12	9/26/2017	19.59	---	---	---	8.60	10.99
MW-12	9/27/2017	---	---	---	---	---	---
MW-12	12/12/2017	19.59	---	---	---	6.21	13.38
MW-12	2/26/2018	19.59	---	---	---	6.83	12.76
MW-13	2/20/2012	21.24	--	--	--	5.51	15.73
MW-13	8/22/2012	21.24	--	--	--	10.00	11.24
MW-13	11/5/2012	21.24	--	--	--	8.35	12.89
MW-13	1/28/2013	21.24	--	--	--	5.74	15.50
MW-13	5/9/2013	21.24	--	--	--	8.76	12.48
MW-13	8/19/2013	21.24	--	--	--	10.78	10.46
MW-13	11/25/2013	21.24	--	--	--	7.90	13.34
MW-13	2/14/2014	21.24	--	--	--	5.36	15.88
MW-13	5/5/2014	21.24	--	--	--	4.73	16.51
MW-13	8/19/2014	21.24	--	--	--	9.49	11.75
MW-13	11/21/2014	21.24	--	--	--	5.71	15.53
MW-13	11/14/2016	21.24	---	---	---	4.92	16.32
MW-13	11/17/2016	---	---	---	---	---	---
MW-13	2/16/2017	21.24	---	---	---	3.74	17.50
MW-13	5/25/2017	21.24	---	---	---	5.40	15.84
MW-13	9/26/2017	21.24	---	---	---	9.77	11.47
MW-13	9/27/2017	---	---	---	---	---	---
MW-13	12/13/2017	21.24	---	---	---	4.62	16.62
MW-13	2/26/2018	21.24	---	---	---	5.27	15.97
MW-14	11/14/2011	21.54	--	--	--	9.66	11.88
MW-14	2/20/2012	21.54	--	--	--	8.33	13.21
MW-14	8/22/2012	21.54	--	--	--	10.36	11.18
MW-14	11/5/2012	21.54	--	--	--	8.98	12.56
MW-14	1/28/2013	21.54	--	--	--	8.75	12.79
MW-14	5/9/2013	21.54	--	--	--	9.19	12.35
MW-14	8/19/2013	21.54	--	--	--	11.09	10.45
MW-14	11/25/2013	21.54	--	--	--	8.86	12.68
MW-14	2/14/2014	21.54	--	--	--	8.28	13.26
MW-14	5/5/2014	21.54	--	--	--	7.61	13.93
MW-14	8/19/2014	21.54	--	--	--	9.86	11.68
MW-14	11/21/2014	21.54	--	--	--	8.32	13.22
MW-14	11/14/2016	21.54	---	---	---	9.65	11.89
MW-14	11/17/2016	---	---	---	---	---	---
MW-14	2/16/2017	21.54	---	---	---	7.70	13.84
MW-14	5/25/2017	21.54	---	---	---	8.35	13.19
MW-14	9/26/2017	21.54	---	---	---	10.10	11.44
MW-14	12/14/2017	21.54	---	---	---	8.10	13.44
MW-14	2/26/2018	21.54	---	---	---	8.13	13.41
MW-15	11/14/2011	20.52	--	--	--	8.71	11.81
MW-15	2/20/2012	20.52	--	--	--	6.83	13.69
MW-15	8/22/2012	20.52	--	--	--	9.46	11.06
MW-15	11/5/2012	20.52	--	--	--	7.83	12.69
MW-15	1/28/2013	20.52	--	--	--	8.42	12.10
MW-15	5/9/2013	20.52	--	--	--	8.14	12.38
MW-15	8/19/2013	20.52	--	--	--	10.38	10.14
MW-15	11/25/2013	20.52	--	--	--	7.76	12.76
MW-15	2/14/2014	20.52	--	--	--	6.75	13.77
MW-15	5/5/2014	20.52	--	--	--	5.79	14.73
MW-15	8/19/2014	20.52	--	--	--	9.92	10.60
MW-15	11/21/2014	20.52	--	--	--	7.21	13.31
MW-15	11/14/2016	20.52	---	---	---	6.44	14.08
MW-15	11/18/2016	---	---	---	---	---	---
MW-15	2/17/2017	20.52	---	---	---	5.52	15.00
MW-15	5/26/2017	20.52	---	---	---	6.95	13.57
MW-15	9/26/2017	20.52	---	---	---	9.55	10.97
MW-15	9/28/2017	---	---	---	---	---	---
MW-15	12/14/2017	20.52	---	---	---	6.92	13.60
MW-15	2/26/2018	20.52	---	---	---	7.61	12.91
MW-16	2/20/2012	21.24	--	--	--	8.23	13.01
MW-16	8/22/2012	21.24	--	--	--	10.63	10.61
MW-16	11/5/2012	21.24	--	--	--	8.61	12.63
MW-16	1/28/2013	21.24	--	--	--	8.54	12.70
MW-16	5/9/2013	21.24	--	--	--	8.97	12.27
MW-16	8/19/2013	21.24	--	--	--	10.85	10.39
MW-16	11/25/2013	21.24	--	--	--	8.54	12.70
MW-16	2/14/2014	21.24	--	--	--	6.72	14.52
MW-16	5/5/2014	21.24	--	--	--	6.61	14.63
MW-16	8/19/2014	21.24	--	--	--	9.55	11.69
MW-16	11/21/2014	21.24	--	--	--	8.12	13.12
MW-16	11/14/2016	21.24	---	---	---	7.01	14.23
MW-16	11/17/2016	---	---	---	---	---	---
MW-16	2/17/2017	21.24	---	---	---	4.11	17.13
MW-16	5/25/2017	21.24	---	---	---	6.89	14.35
MW-16	9/26/2017	21.24	---	---	---	9.41	11.83
MW-16	9/27/2017	---	---	---	---	---	---
MW-16	12/13/2017	21.24	---	---	---	6.26	14.98
MW-16	2/26/2018	21.24	---	---	---	7.21	14.03

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-17	8/22/2012	13.34	--	--	--	2.77	10.57
MW-17	11/5/2012	13.34	--	--	--	0.18	13.16
MW-17	1/28/2013	13.34	--	--	--	1.31	12.03
MW-17	5/9/2013	13.34	--	--	--	1.88	11.46
MW-17	8/19/2013	13.34	--	--	--	3.59	9.75
MW-17	11/25/2013	13.34	--	--	--	1.49	11.85
MW-17	2/14/2014	13.34	--	--	--	0.80	12.54
MW-17	5/5/2014	13.34	--	--	--	0.00	13.34
MW-17	8/19/2014	13.34	--	--	--	2.41	10.93
MW-17	11/21/2014	13.34	--	--	--	1.43	11.91
MW-17	11/14/2016	13.34	---	---	---	0.75	12.59
MW-17	11/18/2016	---	---	---	---	---	---
MW-17	2/16/2017	13.34	---	---	---	3.00	10.34
MW-17	5/25/2017	13.34	---	---	---	1.27	12.07
MW-17	9/26/2017	13.34	---	---	---	2.94	10.40
MW-17	9/27/2017	---	---	---	---	---	---
MW-17	12/12/2017	13.34	---	---	---	1.11	12.23
MW-17	2/26/2018	13.34	---	---	---	1.08	12.26
DW-1	11/14/2011	20.69	--	--	--	8.91	11.78
DW-1	2/20/2012	20.69	--	--	--	7.76	12.93
DW-1	8/22/2012	20.69	--	--	--	9.79	10.90
DW-1	11/5/2012	20.69	--	--	--	8.12	12.57
DW-1	1/28/2013	20.69	--	--	--	8.06	12.63
DW-1	5/9/2013	20.69	--	--	--	8.46	12.23
DW-1	8/19/2013	20.69	--	--	--	10.66	10.03
DW-1	11/25/2013	20.69	--	--	--	8.19	12.50
DW-1	2/14/2014	20.69	--	--	--	7.86	12.83
DW-1	5/5/2014	20.69	--	--	--	7.13	13.56
DW-1	8/19/2014	20.69	--	--	--	9.35	11.34
DW-1	11/21/2014	20.69	--	--	--	7.84	12.85
DW-2	11/14/2011	21.36	--	--	--	9.79	11.57
DW-2	2/20/2012	21.36	--	--	--	8.40	12.96
DW-2	8/22/2012	21.36	--	--	--	10.45	10.91
DW-2	11/5/2012	21.36	--	--	--	8.96	12.40
DW-2	1/28/2013	21.36	--	--	--	8.87	12.49
DW-2	5/9/2013	21.36	--	--	--	9.36	12.00
DW-2	8/19/2013	21.36	--	--	--	10.36	11.00
DW-2	11/25/2013	21.36	--	--	--	9.96	11.40
DW-2	2/14/2014	21.36	--	--	--	8.41	12.95
DW-2	5/5/2014	21.36	--	--	--	8.00	13.36
DW-2	8/19/2014	21.36	--	--	--	10.12	11.24
DW-2	11/21/2014	21.36	--	--	--	9.21	12.15
DW-3	11/14/2011	21.75	--	--	--	10.26	11.49
DW-3	2/20/2012	21.75	--	--	--	8.95	12.80
DW-3	8/22/2012	21.75	--	--	--	11.01	10.74
DW-3	11/5/2012	21.75	--	--	--	9.38	12.37
DW-3	1/28/2013	21.75	--	--	--	9.39	12.36
DW-3	5/9/2013	21.75	--	--	--	9.87	11.88
DW-3	8/19/2013	21.75	--	--	--	11.88	9.87
DW-3	11/25/2013	21.75	--	--	--	9.49	12.26
DW-3	2/14/2014	21.75	--	--	--	9.00	12.75
DW-3	5/5/2014	21.75	--	--	--	8.31	13.44
DW-3	11/21/2014	21.75	--	--	--	9.29	12.46
DW-4	8/22/2012	16.61	--	--	--	5.91	10.70
DW-4	11/5/2012	16.61	--	--	--	4.08	12.53
DW-4	1/28/2013	16.61	--	--	--	4.69	11.92
DW-4	5/9/2013	16.61	--	--	--	4.69	11.92
DW-4	8/19/2013	16.61	--	--	--	6.39	10.22
DW-4	11/25/2013	16.61	--	--	--	4.41	12.20
DW-4	2/14/2014	16.61	--	--	--	3.66	12.95
DW-4	5/5/2014	16.61	--	--	--	2.94	13.67
DW-4	8/19/2014	16.61	--	--	--	5.44	11.17
DW-4	11/21/2014	16.61	--	--	--	4.35	12.26
BR-1	11/5/2012	19.55	--	--	--	8.18	11.37
BR-1	1/28/2013	19.55	--	--	--	9.60	9.95
BR-1	5/9/2013	19.55	--	--	--	10.80	8.75
BR-1	8/19/2013	19.55	--	--	--	10.96	8.59
BR-1	11/25/2013	19.55	--	--	--	10.03	9.52
BR-1	2/14/2014	19.55	--	--	--	7.42	12.13
BR-1	5/5/2014	19.55	--	--	--	5.88	13.67
BR-1	8/19/2014	19.55	--	--	--	10.58	8.97
BR-1	11/21/2014	19.55	--	--	--	9.69	9.86
BR-2	11/5/2012	18.08	--	--	--	6.73	11.35
BR-2	1/28/2013	18.08	--	--	--	8.02	10.06
BR-2	5/9/2013	18.08	--	--	--	9.33	8.75
BR-2	8/19/2013	18.08	--	--	--	9.42	8.66
BR-2	11/25/2013	18.08	--	--	--	8.55	9.53
BR-2	2/14/2014	18.08	--	--	--	6.04	12.04
BR-2	5/5/2014	18.08	--	--	--	4.44	13.64
BR-2	8/19/2014	18.08	--	--	--	9.05	9.03
BR-2	11/21/2014	18.08	--	--	--	7.61	10.47
WS-1		12.24					
WS-1	1/28/2013	12.24			DRY		

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
WS-1	5/9/2013	12.24			DRY		
WS-1	8/19/2013	12.24			DRY		
WS-1	11/25/2013	12.24			DRY		
WS-1	2/14/2014	12.24	--	--	--	0.73	12.97
WS-1	5/5/2014	12.24	--	--	--	2.30	14.54
WS-1	8/19/2014	12.24			DRY		
WS-1	11/21/2014	12.24			DRY		
WS-2		12.03					
WS-2	1/28/2013	12.03			DRY		
WS-2	5/9/2013	12.03			DRY		
WS-2	8/19/2013	12.03			DRY		
WS-2	11/25/2013	12.03	--	--	--	0.075	12.11
WS-2	2/14/2014	12.03	--	--	--	1.275	13.31
WS-2	5/5/2014	12.03	--	--	--	2.55	14.58
WS-2	8/19/2014	12.03			DRY		
WS-2	11/21/2014	12.03			DRY		
WS-3		14.11					
WS-3	1/28/2013	14.11	--	--	--	2.13	16.24
WS-3	5/9/2013	14.11	--	--	--	1.05	15.16
WS-3	8/19/2013	14.11	DRY				
WS-3	11/25/2013	14.11	--	--	--	1.05	15.16
WS-3	2/14/2014	14.11	--	--	--	1.53	15.64
WS-3	5/5/2014	14.11	--	--	--	2.20	16.31
WS-3	8/19/2014	14.11			DRY		
WS-3	11/21/2014	14.11	--	--	--	1.15	12.96
WS-4		14.92					
WS-4	5/9/2013	14.92	--	--	--	0.25	15.17
WS-4	8/19/2013	14.92	DRY				
WS-4	2/14/2014	14.92	--	--	--	0.68	15.60
WS-4	5/5/2014	14.92	--	--	--	1.38	16.30
WS-4	8/19/2014	14.92			DRY		
WS-4	11/21/2014	14.92	--	--	--	0.39	14.53
TW-1	5/9/2013	21.4	--	--	--	9.33	12.07
TW-1	8/19/2013	21.4	--	--	--	11.07	10.33
TW-1	11/25/2013	21.4	--	--	--	8.83	12.57
TW-1	2/14/2014	21.4	--	--	--	8.23	13.17
TW-1	5/5/2014	21.4	--	--	--	7.52	13.88
TW-1	8/19/2014	21.4	--	--	--	9.91	11.49
TW-2	5/9/2013	21.19	7.2		0.33	7.53	13.91
TW-2	8/19/2013	21.19	8.03		0.39	8.42	13.06
TW-2	11/25/2013	21.19	8.1		0.27	8.37	13.02
TW-2	2/14/2014	21.19	--	--	--	8.12	13.07
TW-2	5/5/2014	21.19	6.04	15.15	0.87	6.91	14.93
TW-2	8/19/2014	21.19	7.93	13.26	0.33	8.26	13.18
TW-3	5/9/2013	21.2	--	--	--	9.35	11.85
TW-3	8/19/2013	21.2	--	--	--	11.09	10.11
TW-3	11/25/2013	21.2	--	--	--	8.88	12.32
TW-3	2/14/2014	21.2	--	--	--	7.31	13.89
TW-3	5/5/2014	21.2	--	--	--	7.52	13.68
TW-3	8/19/2014	21.2	--	--	--	9.89	11.31
TW-4	5/9/2013	21.27	--	--	--	8.49	12.78
TW-4	8/19/2013	21.27	--	--	--	9.16	12.11
TW-4	11/25/2013	21.27	--	--	--	8.34	12.93
TW-4	2/14/2014	21.27	--	--	--	7.19	14.08
TW-4	5/5/2014	21.27	--	--	--	5.42	15.85
TW-4	8/19/2014	21.27	--	--	--	8.65	12.62
TW-5	5/9/2013	21.35	--	--	--	9.34	12.01
TW-5	8/19/2013	21.35	--	--	--	11.29	10.06
TW-5	11/25/2013	21.35	--	--	--	9.01	12.34
TW-5	2/14/2014	21.35	--	--	--	8.45	12.90
TW-5	5/5/2014	21.35	--	--	--	7.69	13.66
TW-5	8/19/2014	21.35	--	--	--	10.05	11.30
TW-6	5/9/2013	21.35	8.32		0.08	8.40	13.01
TW-6	8/19/2013	21.35	--	--	--	8.98	12.37
TW-6	11/25/2013	21.35	8.29		0.27	8.56	12.99
TW-6	2/14/2014	21.35	7.9		0.64	8.54	13.29
TW-6	5/5/2014	21.35	7.39	13.96	1.09	8.48	13.69
TW-6	8/19/2014	21.35	--	--	--	8.58	12.77
TW-7	5/9/2013	21.31	--	--	--	9.39	11.92
TW-7	8/19/2013	21.31	--	--	--	11.23	10.08
TW-7	11/25/2013	21.31	--	--	--	8.91	12.40
TW-7	2/14/2014	21.31	--	--	--	8.41	12.90
TW-7	5/5/2014	21.31	--	--	--	7.91	13.40
TW-7	8/19/2014	21.31	--	--	--	10.00	11.31
TW-8	5/9/2013	21.36	--	--	--	8.22	13.14
TW-8	8/19/2013	21.36	--	--	--	8.66	12.70
TW-8	11/25/2013	21.36	--	--	--	8.68	12.68
TW-8	2/14/2014	21.36	--	--	--	8.03	13.33
TW-8	5/5/2014	21.36	--	--	--	6.69	14.67
TW-8	8/19/2014	21.36	--	--	--	8.29	13.07

Table 5

Groundwater Elevation Data
Phillips 66 Renton Terminal
Renton, Washington

Well	Date	Top of Casing Elevation (feet)	Depth to Free Product (feet BTOC)	Elevation of Free Product (feet)	Product Thickness In Well (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
AS-1	5/9/2013	21.24	--	--	--	9.34	11.90
AS-1	8/19/2013	21.24	--	--	--	11.28	9.96
AS-1	11/25/2013	21.24	--	--	--	8.98	12.26
AS-1	2/14/2014	21.24	--	--	--	8.46	12.78
AS-1	5/5/2014	21.24	--	--	--	7.63	13.61
AS-1	8/19/2014	21.24	--	--	--	10.01	11.23
EX-1	5/9/2013	21.54	8.57	--	1.46	10.03	12.61
EX-1	8/19/2013	21.54	10.41	--	0.71	11.12	10.95
EX-1	11/25/2013	21.54	8.39	--	1.57	9.96	12.76
EX-1	2/14/2014	21.54	7.76	--	2.22	9.98	13.23
EX-1	5/5/2014	21.54	7.3	14.24	2.78	10.08	13.55
EX-1	8/19/2014	21.54	9.86	11.68	0.41	10.27	11.58
EX-1	7/11/2016	--	9.05	--	0.55	9.60	--
EX-1	7/11/2017	--	7.8	--	1.91	9.71	--
EX-1	12/11/2017	21.54	4.92	16.62	4.72	9.64	15.68
EX-1	2/26/2018	21.54	---	---	---	---	---
P-1	5/9/2013	21.47	8.76		0.07	8.83	12.69
P-1	8/19/2013	21.47	10.38		0.41	10.79	10.99
P-1	11/25/2013	21.47	8.57		0.21	8.78	12.85
P-1	2/14/2014	21.47	7.89		1.36	9.25	13.24
P-1	5/5/2014	21.47	7.3	14.17	2.46	9.76	13.56
P-1	8/19/2014	21.47	9.79	11.68	0.42	10.21	11.58
P-1	11/14/2016	21.47	---	---	---	9.36	12.11
P-1	2/16/2017	21.47	6.19	15.28	3.31	9.50	14.62
P-1	5/24/2017	21.47	8.33	13.14	1.08	9.41	12.92
P-1	9/26/2017	21.47	10.15	11.32	0.87	11.02	11.15
P-1	12/11/2017	21.47	7.65	13.82	1.49	9.14	13.52
P-1	2/26/2018	21.47	8.8	12.67	0.62	9.42	12.55
P-2	5/9/2013	21.6	8.65		1.32	9.97	12.62
P-2	8/19/2013	21.6	10.22		1.99	12.21	10.88
P-2	11/25/2013	21.6	8.46		1.4	9.86	12.79
P-2	2/14/2014	21.6	7.97		1.48	9.45	13.26
P-2	5/5/2014	21.6	7.55	14.05	1.87	9.42	13.58
P-2	8/19/2014	21.6	9.66	11.94	1.65	11.31	11.53
P-2	11/14/2016	21.60	7.71	13.89	1.89	9.60	13.51
P-2	2/16/2017	21.60	6.78	14.82	2.27	9.05	14.37
P-2	5/24/2017	21.60	7.73	13.87	1.75	9.48	13.52
P-2	9/26/2017	21.60	10.32	11.28	1.25	11.57	11.03
P-2	12/11/2017	21.60	8.5	13.1	0.61	9.11	12.98
P-2	2/26/2018	21.60	9.15	12.45	0.68	9.83	12.31
TRIP BLANK	9/28/2017	---	---	---	---	---	---

Notes:

All measurement are recorded in feet.
-- Not Applicable. No free product detected.
NM Not Measured

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

Sample Location	Date	HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
		TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
HB-1	12/7/1993	61	--	--	<0.50	<0.50	0.14	0.12	--	--
HB-2	12/7/1993	68	--	--	0.092	<0.50	0.17	0.13	--	--
R-1	9/17/1997	**3,360,000**	**206,000**	**23,500**	**7,620**	**3,460**	**1,460**	**9,460**	--	--
W-1	5/23/2000	**190,000**	**160,000**	<100,000	**34,000**	**42,000**	**3,600**	**23,000**	--	--
W-1	5/24/2001	**LPH Encountered**								
W-1	6/5/2002	**130,000**	**79,000**	<9,400	**17,000**	**27,000**	**2,700**	**19,000**	--	--
W-1	11/25/2002	**155,000**	16.7	0.500	**17,600**	**24,800**	**2,950**	**19,500**	--	--
W-1	5/29/2003	**170,000**	**79,000**	<4,800	**20,000**	**25,000**	**3,400**	**23,000**	--	--
W-1	6/16/2004	**LPH Encountered**								
W-1	6/20/2005	**93,000**	**120,000**	<11,000	**12,000**	**13,000**	**1,600**	**12,000**	--	--
W-1	6/7/2006	**69,500**	**7,500**	337	**8,680**	**6,260**	**726**	**8,240**	--	--
W-1	10/23/2006	**91,700**	**9,070**	<183	**14,500**	**8,400**	**2,420**	**20,800**	--	--
W-1	3/14/2007	**70,300**	**16,100**	<740	**8,920**	**2,800**	**1,010**	**17,600**	--	--
W-1 (DUP)	3/14/2007	**63,200**	**11,000**	<370	**9,340**	**3,010**	**1,130**	**19,200**	--	--
W-1	9/11/2007	**Insufficient Groundwater to Sample**								
W-1	6/4/2008	**81,900**	**23,900**	**1,370**	**14,600**	697	**1,510**	**17,100**	--	--
W-1	8/25/2008	**Insufficient Groundwater to Sample**								
W-1	3/24/2010	**76,400**	**2,510**	<381	**22,300**	**7,190**	**2,640**	**16,900**	6.9	<250
W-1	8/27/2010	**56,200**	**8,170**	<400	**16,500**	**2,550**	**2,270**	**14,400**	<1.0	<250
W-1	2/9/2011	**74,200**	**2,960**	<377	**12,000**	**1,210**	**1,650**	**13,700**	**58.7**	--
W-1	5/24/2011	**80,400**	**2,800**	<450	**11,400**	**1,570**	**1,670**	**15,500**	**74**	--
W-1	8/16/2011	**58,400**	**184,000**	<6700	**16,300**	804	**1,600**	**16,000**	**25.4 J**	--
W-1	2/23/2012	**179,000**	**2,700**	<380	**9,850**	530	**2,120**	**41,600**	13.7	--
W-1	5/10/2012	**46,600**	**10,000**	<380	**6,310**	158	**936**	**11,700**	**50.9**	--
W-1	8/24/2012	**51,500** [10]	**1,600**	<380	**3,550**	280	266	**10,300**	**25.4**	--
W-1	1/31/2013	**29,400**	**10,300**	<430	**5,350**	91	197	**5,470**	<50.0	--
W-1	4/30/2013	**51,800**	**1,200 J**	<200	**7,040**	208	505	**9,270**	**60.4**	--
W-1 (DUP)	4/30/2013	**50,800**	**2,200 J**	<200	**7,220**	191	477	**9,320**	**50.9**	--
W-1	11/19/2013	**34,000**	**3,700**	<400	**5,650**	83.4	652	**6,410**	<50.0	--
W-1	2/5/2014	**29,600**	**4,300**	<400	**3,190**	30.3	274	**3,650**	**37**	--
W-1	5/6/2014	**39,000**	**4,400**	<28	**4,930**	163	552	**4,630**	<3.4	--
W-1 (DUP)	5/6/2014	**36,600**	**4,200**	<29	**4,730**	166	551	**4,850**	<8.4	--
W-2	9/18/1997	**393,000**	**85,200**	**19,200**	**19,400**	**11,700**	**3,550**	**18,000**	--	--
W-2	7/29/1999	**110,000**	**36,000**	<10,000	**12,000**	**11,000**	**1,900**	**13,000**	--	--
W-2	5/23/2000	**85,000**	**50,000**	<20,000	**15,000**	**19,000**	**1,500**	**10,000**	--	--
W-2	5/24/2001	**25,000**	**30,000**	**13,000**	**7,600**	**3,000**	420	**4,400**	--	--
W-2	6/5/2002	**LPH Encountered**								
W-2	11/25/2002	**104,000**	14.7	1.91	**15,300**	**15,800**	**1,960**	**11,700**	--	--
W-2	5/28/2003	**98,000**	**28,000**	**7,800J**	**16,000**	**15,000**	**2,200**	**12,000**	--	--
W-2	6/15/2004	**85,000**	**460,000**	<50,000	**21,000**	**5,700**	**2,800**	**8,700**	--	--
W-2	6/22/2005	**50,000**	**73,000**	<4,000	**11,000**	**2,000**	**1,800**	**6,900**	--	--
W-2	6/6/2006	**34,400**	**5,880**	283Ju	**6,640**	**1,660**	464	**4,760**	--	--
W-2	10/23/2006	**53,000**	**5,800**	<183	**12,500**	**3,470**	**1,710**	**8,220**	--	--
W-2 (DUP)	10/23/2006	**60,800**	**5,890**	<183	**12,000**	**2,840**	**1,650**	**7,420**	--	--
W-2	3/14/2007	**51,800**	**12,400**	<370	**9,060**	**1,840**	**2,010**	**10,500**	--	--
W-2	9/11/2007	**42,900**	**5,780**	<100	**14,000**	572	**1,610**	**3,040**	--	--
W-2	6/3/2008	**51,900**	**46,300**	**3,330J**	**15,100**	215	**2,250**	**3,510**	--	--
W-2	8/27/2008	**49,000** [1]	**5,050** [1,3]	363 [1]	**18,700** [1]	147 [1]	**1,970** [1]	**3,630** [1]	24 [1]	74.4 [1]
W-2	3/23/2010	**48,300**	**2,150**	<381	**14,100**	691	**3,090**	**10,400**	6.1	<250
W-2	8/27/2010	**30,700**	**4,570**	**502**	**12,500**	253	**2,730**	**7,580**	10.8	<250
W-2	2/9/2011	**11,500**	**19,200**	**3,530**	**9,010**	74.4	**2,090**	**3,820**	10.7	--
W-2	8/15/2011	**13,400**	**940**	<380	**10,200**	169 J	**1,110**	**1,180**	19.5 J	--
W-2	3/1/2012	**57,500**	**1,900**	<380	**18,500**	--	**5,330**	**3,050**	--	--
W-2	8/29/2012	**21,900** [10]	**1,500**	<380	**9,590**	406	**2,070**	**1,740**	12.6	--
W-2	2/4/2013	**16,800**	**3,200**	<440	**10,200**	116	**2,050**	**1,500**	<50.0	--
W-2	8/13/2013	**21,300**	**3,400**	**540**	**10,100**	70.4 J	**1,720**	766	<50.0	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
W-2	2/12/2014	**27,100**	**2,700**	450	**6,730**	89.6	**2,330**	**1,070**	<25.0	--
W-3	4/14/1993	**91,000**	--	--	**2,000**	**4,800**	**2,700**	**15,000**	--	--
W-3	12/15/1993	**45,000**	--	--	**670**	**1,300**	580	**8,300**	--	--
W-3	11/4/1994	**39,000**	--	--	**520**	**190**	630	**5,100**	--	--
W-3	9/17/1997	**105,000**	**15,000**	<500	**2,820**	**8,730**	**1,570**	**11,500**	--	--
W-3	4/29/1998	**54,000**	**18,000**	<5,000	**920**	850	**2,000**	**10,000**	--	--
W-3	7/30/1999	**48,000**	**48,000**	<10,000	**2,900**	**1,900**	**1,800**	**6,900**	--	--
W-3	5/23/2000	**34,000**	**19,000**	<10,000	**910**	180	**1,400**	**4,900**	--	--
W-3	5/22/2001	**19,000**	**28,000**	<10,000	**890**	36	**1,100**	**2,200**	--	--
W-3	6/4/2002	**17,000**	**36,000**	<4,800	**1,900**	45	640	**2,300**	--	--
W-3	11/26/2002	**14,100**	4.89	0.500	**455**	156	463	**1,570**	--	--
W-3	5/28/2003	**16,000**	**55,000**	<4,800	**500**	32	600	740	--	--
W-3	6/16/2004	**LPH Encountered**								
W-3	6/21/2005	**9,100**	**10,000**	<980	**790**	15	470	490	--	--
W-3	6/6/2006	**13,400**	**3,090**	153u	**1,880**	25.1	640	821	--	--
W-3	10/24/2006	**12,200**	**2,300**	<35.2	**933**	21.3	293	638	--	--
W-3 (DUP)	10/24/2006	**9,520**	**2,050**	<36.9	**877**	18.3	301	535	--	--
W-3	3/14/2007	**9,370**	**2,200**	<185	**687**	18.9	286	446	--	--
W-3	9/12/2007	**9,180**	**2,940**	40.0J	**614**	13.1	397	437	--	--
W-3	6/4/2008	**13,000**	**2,210**	46.9J	**727**	149	576	724	--	--
W-3 (DUP)	6/4/2008	**12,400**	**1,980**	42.2J	**753**	230	519	686	--	--
W-3	8/26/2008	**14,600** [1]	**3,240** [1,3]	46.8 [1]	**763** [1]	176	564	**1,450** [1]	0.42 [1]	74.4 [1]
W-3	3/25/2010	67.9	<76.9	<385	3.1	<1.0	5.0	<3.0	<1.0	<250
W-3 (DUP)	3/25/2010	322	<76.9	<385	**11.3**	<1.0	33.3	5.5	<1.0	<250
W-3 (DUP)	3/25/2010	272	<78.4	<392	**11.9**	<1.0	34.3	5.6	<1.0	<250
W-3	8/27/2010	**Insufficient Groundwater to Sample**								
W-4	4/14/1993	**130,000**	--	--	**2,600**	**7,800**	**2,800**	**20,000**	--	--
W-4	12/15/1993	**180,000**	--	--	**3,200**	**2,700**	**11,000**	**18,000**	--	--
W-4	9/17/1997	**114,000**	**276,000**	<500	**1,750**	<100	**1,480**	**8,490**	--	--
W-4	4/29/1998	**84,000**	**250,000**	<20,000	**2,400**	120	**1,600**	**8,000**	--	--
W-4	7/30/1999	**53,000**	**42,000**	<10,000	**2,100**	100	**1,900**	**6,300**	--	--
W-4	5/23/2001	**LPH Encountered**								
W-4	6/4/2002	**35,000**	**59,000**	**6,800J**	**2,300**	32	**1,800**	**3,500**	--	--
W-4	11/25/2002	**39,900**	19.2	0.648	**1,830**	38.2	**2,550**	**4,220**	--	--
W-4	5/28/2003	**32,000**	**26,000**	**1,600J**	**800**	22	**1,500**	**1,000**	--	--
W-4	6/15/2004	**LPH Encountered**								
W-4	6/21/2005	**23,000**	**110,000**	<19,000	**1,200**	11	**1,400**	200	--	--
W-4	6/6/2006	**9,180**	**4,620**	411	**1,230**	18.4	**1,010**	67.4	--	--
W-4	10/24/2006	**17,200**	**5,570**	<70.5	**1,520**	8.34	**1,490**	18.9	--	--
W-4	3/14/2007	**10,100**	**4,820**	<185	**422**	11.0	456	148	--	--
W-4	9/12/2007	**Insufficient Groundwater to Sample**								
W-4	6/4/2008	**10,600**	**4,870**	110J	**941**	34.3	**714**	58.0	--	--
W-4	8/26/2008	**11,700** [1]	**15,100** [1,4]	**1,810** [1,4]	**1,370** [1]	20.1 [1]	**750** [1]	39.5 [1]	1.21 [1]	74.4 [1]
W-4	3/24/2010	**1,940**	256	<385	**212**	16.3	139	182	<1.0	<250
W-4	8/27/2010	**Insufficient Groundwater to Sample**								
B-1	4/14/1993	**18,000**	--	--	**1,300**	17	**450**	**2,200**	--	--
B-1	12/15/1993	**7,800**	--	--	**590**	76	15	370	--	--
B-1	9/17/1997	475	**9,980**	**25,500**	**84.6**	2.63	6.43	21.8	--	--
B-1	5/1/1998	560	**5,500**	**13,000**	**300**	10	24	94	--	--
B-1	5/23/2000	**1,800**	**23,000**	**52,000**	**1,000**	14	170	160	--	--
B-1	5/24/2001	**2,800**	**5,500**	**6,300**	**1,300**	25	410	220	--	--
B-1	6/5/2002	86J	**17,000**	**29,000**	**37**	0.66J	6.6	6.9	--	--
B-1	5/29/2003	**1,100J**	**4,700**	**8,300**	**760**	26	180	65	--	--
B-1	6/15/2004	**1,600**	**8,700**	**18,000**	**890**	10	180	110	--	--
B-1	6/20/2005	550J	**2,700J**	**5,300J**	**540**	5.5	79	45	--	--
B-1	6/6/2006	**3,300j**	**1,570**	**553**	**602**	5.87	137	43.9	--	--
B-1	10/24/2006	**3,770**	**884**	**800**	**363**	6.65	113	26.8	--	--
B-1	3/14/2007	**2,420**	**1,720**	<185	**118**	4.35	188	21.3	--	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
B-1	9/12/2007	**3,610**	--	--	**664**	9.88	155	43.6	--	--
B-1	6/4/2008	**2,570**	**2,990**	**7,770**	**355**	3.54	54.7	37.3	--	--
B-1	8/27/2008	**4,330** [1]	-- [1]	-- [1]	**741** [1]	8.4 [1]	75.1 [1]	139 [1]	<0.42 [1]	74.4 [1]
B-1	3/24/2010	**1,580**	105	<381	**297**	8.5	34.3	41.1	<1.0	<250
B-1	8/27/2010				**Unable to Purge**					
B-1	5/18/2011	**903 J**	120	<380	**311 J**	6.6 J	18.9 J	23.8 J	<1.0 J	--
B-1	8/17/2011	576	<76	<380	**591**	5.4	4.5	32	<1.0	--
B-1	2/22/2012	**1,200**	200	440	**82.2**	3.1	19.3	10.9	<1.0	--
B-1	5/9/2012	**1,480**	130	<380	**18.5**	<1.0	1	<3.0	<1.0	--
B-1	8/23/2012	606	330	**890**	**759**	5.6	6.3	26.9	<1.0	--
B-1	11/6/2012	**2,140**	190	140	**257**	<5.0	6.7	<15.0	<5.0	--
B-1	1/29/2013	310	**1,700**	<480	**13.9**	<1.0	3.2	<3.0	<1.0	--
B-1	4/30/2013	<100	<200	<200	**8.3**	<1.0	<1.0	<3.0	<1.0	--
B-1	8/13/2013	307	**2,500**	**2,800**	**283**	1.7 J	1.4	5.3	<1.0	--
B-1	11/19/2013	196 J	<400	<400	**56.8**	2.4	3.7	<6.0	<2.0	--
B-1	2/5/2014	226 J	<400	<400	**127**	<2.0	2.1	<6.0	<2.0	--
B-1	5/6/2014	<50	<50	<29	2.2	<0.22	<0.33	<0.81	<0.34	--
B-2	9/18/1997	**1,980,000**	**74,200**	**7,890**	**11,200**	**10,600**	**1,310**	**22,200**	--	--
B-2	4/29/1998	**83,000**	**19,000**	**4,300**	**16,000**	**13,000**	600	**11,000**	--	--
B-2	7/30/1999	**66,000**	**18,000**	<2.0	**11,000**	**7,900**	**700**	**9,700**	--	--
B-2	5/23/2000	**59,000**	**32,000**	<5.0	**16,000**	**6,200**	670	**9,300**	--	--
B-2	5/24/2001				**LPH Encountered**					
B-2	6/5/2002				**LPH Encountered**					
B-2	11/25/2002	**60,500**	13.2	<0.5	**9,850**	**1,780**	**1,280**	**9,220**		
B-2	5/29/2003	**59,000**	**36,000**	**2,700J**	**8,800**	**2,200**	**900**	**9,600**	--	--
B-2	6/15/2004	**57,000**	**68,000**	<9,700	**8,700**	510	**1,300**	**8,700**	--	--
B-2	6/20/2005				**LPH Encountered**					
B-2	6/6/2006				**LPH Encountered**					
B-2	10/23/2006	**47,000**	**10,700**	<180	**7,120**	179	289	**5,280**	--	--
B-2	3/14/2007	**40,700**	**11,900**	<370	**7,740**	138	280	**6,150**	--	--
B-2	9/11/2007	**35,600**	**8,190**	<103	**7,760**	71.1	635	**4,670**	--	--
B-2	6/4/2008	**30,300**	**5,450**	369J	**5,980**	45.8	539	**3,240**	--	--
B-2	8/27/2008	**22,200** [1]	**4,820** [1,3]	<100 [1,7]	**4,280** [1]	47.8 [1]	243 [1]	**2,270** [1]	4.1 [1]	<74.4 [1]
B-2 (DUP)	8/27/2008	**22,100**	**3,340**	129J	**4,030**	42.2	277	**2,360**	--	--
B-2	3/24/2010	**32,000**	**2,430**	<385	**5,190**	33.8	203	**2,810**	6.3	<250
B-2	8/27/2010	**12,300**	**3,240**	<396	**5,250 E**	47.4	284	**2,110**	10.2	<250
B-2	2/10/2011	**13,800**	**3200J**	<377	**5,010**	29	269	**1,450**	9	--
B-2	5/18/2011	**16,500**	--	--	**4,830**	27.8	258	**1,000**	17.3	--
B-2	8/16/2011	**16,900 J**	**1,300**	<380	**5,800 J**	25.2	254 J	909 J	16.6	--
B-2	3/1/2012	**11,700**	**1,800**	<380	**1,400**	7.8	78.8	499	4.6	--
B-2	8/27/2012	**9,450** [10]	**1,600**	<380	**6,440**	21.5	306	882	12.4	--
B-2	2/4/2013	**5,150**	**2,400**	<420	**1,420**	<10.0	70.3	222	<10.0	--
B-2	8/21/2013	**9,000**	**3,700**	<420	**7,670 J**	18.5 J	286 J	293 J	14.7 J	--
B-2	2/6/2014	**8,820**	**2,500**	<400	**4,850**	<20.0	216	205	<20.0	--
B-3	5/24/2001				**LPH Encountered**					
B-3	6/5/2002				**LPH Encountered**					
B-3	11/25/2002	--	--	--	--	--	--	--	--	--
B-3	5/27/2003				**LPH Encountered**					
B-3	6/15/2004				**LPH Encountered**					
B-3	6/20/2005				**LPH Encountered**					
B-3	6/6/2006				**LPH Encountered**					
B-3	10/23/2006				**LPH Encountered**					
B-3	3/14/2007				**LPH Encountered**					
B-3	9/11/2007				**LPH Encountered**					
B-3A	6/4/2008	**200,000**	**8,410**	275J	**40,800**	**38,800**	**2,840**	**16,400**	--	--
B-3A	8/27/2008	**171,000** [1]	**11,200** [1,3]	**790** [1]	**47,500** [1]	**34,000** [1]	**2,470** [1]	**15,800** [1]	**93.6** [1]	<74.4 [1]
B-3A	3/24/2010	**153,000**	**9,850**	<381	**42,000**	**48,000**	**3,400**	**20,300**	**94.2**	<250
B-3A	8/25/2010				**LPH Encountered**					

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
B-3A	5/18/2011	**155,000 J**	**2,300**	<380	**30,300 J**	**29,000 J**	**2,410 J**	**14,900 J**	60 J	--
B-3A	8/15/2011	**117,000**	**1,300**	<380	**41,400**	**29,800**	**2,090**	**11,500**	**70 J**	--
B-3A	2/28/2012	**153,000 J**	**10,000**	**1,600**	**32,900 J**	**33,500**	**4,010 J**	**17,300 J**	**67.2 J**	--
B-3A	8/29/2012	**114,000** [10]	**2,700**	<380	**19,100**	**19,800**	**2,030**	**12,100**	**63.5**	--
B-3A	2/4/2013	**141,000**	**5,500**	<420	**32,400**	**32,100**	**2,260**	**14,800**	<100	--
B-3A	8/13/2013	**175,000**	10,000	**890**	**23,200**	**19,400**	**1,730**	**11,200**	<200	--
B-3A	2/5/2014	**200,000**	**3,200**	<400	**28,400**	**28,300**	**2,790**	**18,400**	<50.0	--
B-3A	11/18/2016	**88,200**	**9,500**	<380	**30,600**	**7,000**	**2,700**	**18,500**	---	---
B-3A	5/25/2017	**108,000**	**5,900**	<400	**28,600**	**2,980**	**2,760**	**20,500**	---	---
B-3A	12/14/2017	**71,000**	**14,400 J**	<400 J	**11,100**	326	**751**	**19,100**	---	---
B-3A	3/1/2018	**81,300**	**31,200**	**700**	**6,140**	247	**727**	**15,000**	---	---
B-4	9/18/1997	**1,170,000**	**99,600**	<20,500	**2,590**	**8,520**	**4,340**	**26,600**	--	--
B-4	7/29/1999	**70,000**	**90,000**	<20,000	**1,800**	**1,600**	**2,300**	**13,000**	--	--
B-4	5/23/2000	**76,000**	**51,000**	<20,000	**1,500**	**3,500**	**2,600**	**13,000**	--	--
B-4	5/23/2001	**52,000**	**49,000**	<20,000	**600**	**2,300**	**2,500**	**10,000**	--	--
B-4	6/5/2002					**LPH Encountered**				
B-4	11/25/2002	**41,700**	5.46	<0.5	**519**	295	**2,180**	**10,500**	--	--
B-4	5/29/2003	**38,000**	**34,000**	**5,200J**	**280**	570	**1,400**	**5,900**	--	--
B-4	6/15/2004					**LPH Encountered**				
B-4	6/20/2005					**LPH Encountered**				
B-4	6/6/2006					**LPH Encountered**				
B-4	10/23/2006					**LPH Encountered**				
B-4	3/14/2007					**LPH Encountered**				
B-4	9/11/2007	**22,100**	**3,460**	48.5J	**543**	67.9	**1,520**	**3,640**	--	--
B-4	6/3/2008	**30,200**	**3,560**	217	**336**	258	**1,260**	**4,590**	--	--
B-4	8/27/2008	**25,200** [1]	**3,450** [1,3]	199 [1]	**604** [1]	192 [1]	**1,130** [1]	**4,630** [1]	<0.42 [1]	<74.4 [1]
B-4	3/22/2010					**LPH Encountered**				
B-4	8/25/2010					**LPH Encountered**				
B-4	5/18/2011	**33,100**	**3,900**	520	**357**	164	**1450**	**2,270**	<1.0	--
B-4	8/16/2011	**19,800**	**7,000**	**670**	**397**	114	**1,060**	**1,440**	<1.0	--
B-4	2/23/2012	**7,310**	**1,500**	<380	**159**	10.9	169	544	<1.0	--
B-4	8/29/2012	**14,600** [10]	**1,300**	<400	**240**	80.2	470	**1,230**	<1.0	--
B-4 (DUP)	8/29/2012	**14,500** [10]	**7,400**	**1,400**	**226**	54.6	423	**1,090**	<1.0	--
B-4	2/4/2013	**9,210**	**5,800**	430	**322**	17.6	470	363	<5.0	--
B-4	8/21/2013	**19,300**	**5,500**	450	**466 J**	51 J	**1,010 J**	**1,510 J**	<5.0 J	--
B-4	2/11/2014	**17,200**	**3,800**	<400	**110 J**	8.6 J	218 J	229 J	<1.0	--
B-4	11/17/2016	**7,270**	**7,100**	<360	**213**	<10.0	288	<30.0	---	---
B-4	12/14/2017	**4,600**	**28,500**	**1,200**	**12.5**	1.3	117	6.3	---	---
B-4	3/1/2018	**2,780**	**13,500**	**540**	**34.5**	<1.0	90.7	5.3	---	---
B-5	9/17/1997	**38,900**	**28,100**	**8,980**	**2,810**	**3,750**	631	**5,180**	--	--
B-5	4/29/1998	**28,000**	**81,000**	**17,000**	**1,600**	**1,100**	460	**4,600**	--	--
B-5	7/29/1999	**21,000**	**18,000**	<2,000	**1,200**	240	330	**2,600**	--	--
B-5	5/23/2000	**11,000**	**15,000**	**4,000J**	**690**	59	230	960	--	--
B-5	5/23/2001	**10,000**	**13,000**	**3,500J**	**2,000**	120	320	**2,100**	--	--
B-5	6/5/2002	**4,300**	**16,000**	**4,800J**	**940**	23	230	560	--	--
B-5	11/25/2002	**2,270**	1.06	<0.5	**126**	4.31	37.4	67.4	--	--
B-5	5/29/2003	**3,300**	**4,300**	**1,600J**	**440**	26	260	260	--	--
B-5	6/15/2004	**2,600**	**100,000**	**25,000**	**830**	23	110	310	--	--
B-5	6/22/2005	**980J**	**36,000**	**17,000J**	**630**	6.7	70	140	--	--
B-5	6/6/2006	**4,540j**	**2,860**	271u	**944**	14.4	214	507	--	--
B-5	10/23/2006	**9,010**	**6,440**	**605**	**1,950**	23.8	372	904	--	--
B-5	3/14/2007	**11,000**	**3,100**	339	**1,790**	21.4	494	909	--	--
B-5 (DUP)	3/14/2007	**10,500**	**3,500**	475	**1,920**	21.5	497	914	--	--
B-5	9/11/07	**2,740**	**5,580**	**1,530**	**689**	9.89	72.2	191	--	--
B-5	6/3/2008	**12,400**	**2,640**	**648**	**2,480**	24.8	311	656	--	--
B-5	8/27/2008	**6,990** [1]	**5,700** [1,4]	**909** [1]	**1,330** [1]	14.2 [1]	103 [1]	180 [1]	<0.42 [1]	<74.4 [1]
B-5	3/24/2010	**8,510**	**2,260**	<381	**1,740**	34.3	**1,720**	530	1.8	<250
B-5	8/25/2010					**LPH Encountered**				
B-5	8/16/2011	**10,400**	**7,300**	**850**	**1,240**	21.1	**815**	171	<1.0	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
B-5	2/29/2012	**17,700**	**20,000**	**1,700**	**2,720**	23.3	**1,440**	261	<1.0	--
B-5	9/5/2012	**9,590** [10]	**22,200**	**1,700**	**772**	7.3	149	71.4	<1.0	--
B-5	2/4/2013	**4,480**	**2,100**	<440	**596**	<5.0	72	19.1	<5.0	--
B-5	8/21/2013	**4,520**	**4,800**	**630**	**318 J**	<5.0 J	67.1 J	<15.0 J	<5.0 J	--
B-5	2/6/2014	**4,850**	**7,900**	**1,000**	**442**	<5.0	88	<15.0	<5.0	--
B-6	5/17/1996	--	--	**1,230**	**6.86**	6.6	2.19	13.1	--	--
B-6	9/17/1997	**194,000**	**102,000**	**61,700**	**2,850**	**7,070**	**1,270**	**7,860**	--	--
B-6	4/29/1998	**160,000**	**51,000**	**6,900**	**7,500**	**16,000**	**2,600**	**18,000**	--	--
B-6	7/29/1999	**97,000**	**23,000**	<10,000	**8,300**	**13,000**	**2,200**	**13,000**	--	--
B-6	5/24/2001	**69,000**	**44,000**	**25,000**	**6,900**	**4,300**	**980**	**7,200**	--	--
B-6	6/5/2002	**LPH Encountered**								
B-6	11/26/2002	**43,000**	5.31	2.51	**5,230**	**5,410**	525	**5,460**	--	--
B-6 (DUP)	11/26/2002	**43,500**	7.04	3.63	**4,850**	**5,010**	464	**5,430**	--	--
B-6	5/29/2003	**35,000**	**7,700**	**4,500J**	**4,600**	**4,000**	450	**4,800**	--	--
B-6	6/15/2004	**48,000**	**210,000**	**100,000**	**5,900**	**8,500**	**760**	**6,400**	--	--
B-6	6/22/2005	**22,000**	**100,000**	**45,000**	**3,800**	**3,600**	200	**2,200**	--	--
B-6	6/6/2006	**33,500**	**5,420**	**528**	**2,540**	**4,560**	664	**4,590**	--	--
B-6	10/23/2006	**37,400**	**7,050**	371J	**2,660**	**5,280**	566	**4,650**	--	--
B-6	3/14/2007	**41,200**	**4,740**	**532**	**1,780**	**5,230**	603	**7,220**	--	--
B-6	9/11/2007	**38,900**	**6,270**	**1,030**	**2,560**	**3,370**	494	**5,460**	--	--
B-6	6/4/2008	**52,000**	**7,350**	**4,460**	**5,320**	**8,210**	483	**7,740**	--	--
B-6	8/27/2008	**37,600** [1]	**14,800** [1,3]	**17,400** [1,2]	**3,670** [1]	**6,140** [1]	604 [1]	**4,820** [1]	0.77 [1]	<74.4 [1]
B-6	3/23/2010	**60,000**	**1,380**	<381	**8,200**	**10,200**	**1,300**	**10,600**	4.1	<250
B-6	8/27/2010	**49,400**	**2,710**	**528**	**4,800**	**7,280**	**1,140**	**8,490**	<1.0	<250
B-6	2/10/2011	**63,900**	**3,050**	**1,020**	**2,310**	**4,700**	**717**	**6,410**	<1.0	--
B-6	5/24/2011	**78,000**	**1,500**	<390	**6,000**	**9,030**	**1,900**	**10,800**	<1.0	--
B-6	8/15/2011	**38,100**	**3,000**	**1,800**	**6,280 J**	**5,830 J**	**740 J**	**4,580 J**	3	--
B-6	11/23/2011	**61,100**	**3,100**	**1,400**	**1,300**	**3,560**	**1,430**	**9,180**	<1.0	--
B-6	2/29/2012	**45,200**	**1,700**	**850**	**7,120**	**10,400**	**1,830**	**13,500**	<1.0	--
B-6	5/10/2012	**39,600**	**2,500**	**810**	**4,250**	**5,190**	670	**8,410**	<50.0	--
B-6	8/27/2012	**39,200** [10]	**1,500**	430	**5,080**	**4,060**	671	**7,380**	2.1	--
B-6	11/16/2012	**28,300**	**6,600**	**2,000**	**1,930**	924	201	**6,340**	<20	--
B-6	2/7/2013	**29,600**	**7,800**	<450	**1,900**	**1,080**	224	**6,000**	<20.0	--
B-6	4/30/2013	**28,000**	**510**	<200	**2,150**	**1,550**	302	**6,570**	<25.0	--
B-6	8/20/2013	**19,900**	**2,600**	**910**	**1,900**	359	171	**3,970**	<10.0	--
B-6 (DUP)	8/20/2013	**19,500**	**2,000**	**640 J**	**1,770**	356	133	**3,690**	<20.0	--
B-6	11/19/2013	**30,400**	**1,300**	<400	**6,490 J**	**1,920**	319	**5,820**	<10.0	--
B-6	2/11/2014	**28,600**	**1,100**	440	**3,390**	**1,740**	298	**5,770**	<10.0	--
B-6	5/1/2014	**26,800**	**1,200**	**2,200**	**3,590**	**1,280**	321	**5,630**	<1.7	--
B-6	11/17/2016	**28,800**	**2,900**	**1,200**	**6,790**	59.7	**1,440**	**4,770**	---	---
B-6	5/25/2017	**16,000**	**1,700**	**530**	**3,690**	19.5	**816**	**2,280**	---	---
B-6	12/14/2017	**2,540**	**2,000**	470	**414**	<5.0	111	83.7	---	---
B-6	3/1/2018	**2,230**	**1,400**	<390	**289**	3.1	119	111	---	---
D-1	4/14/1993	190	--	--	**200**	0.62	13	1.2	--	--
D-1	12/15/1993	83	--	--	**7.1**	<0.50	<0.50	1.3	--	--
D-1	11/4/1994	52	--	--	2	<0.50	<0.50	<1.0	--	--
D-1		**Undocumented - Well Was Abandoned**								
D-1	11/26/2002	185	0.434	1.01	<0.5	1.12	<0.5	2.16	--	--
D-1R	11/17/2011	192	<75	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-1R	2/21/2012	436	77	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-1R	5/11/2012	176	130	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-1R	8/31/2012	224	80	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-1R	11/9/2012	<100	<130	<110	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-1R	2/1/2013	220	<450	<450	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-1R	4/30/2013	262	<200	<200	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-1R	8/20/2013	226	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-1R	11/19/2013	199	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-1R	2/7/2014	388	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
D-1R	5/1/2014	460	<48	<28	<0.15	<0.11	<0.16	<0.40	<0.17	--
D-1R	8/12/2014	324	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-1R	11/25/2014	196	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-1R (DUP)	11/25/2014	196	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-1R	2/13/2015	341	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	---
D-1R	11/16/2016	319	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
D-1R	2/16/2017	279	<410	<410	<1.0	<1.0	<1.0	<3.0	---	---
D-1R	5/24/2017	541	<530	<530	<1.0	<1.0	<1.0	<3.0	---	---
D-1R	9/28/2017	683	<430	<430	<1.0	<1.0	<1.0	<3.0	---	---
D-1R	12/14/2017	593	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
D-1R	3/1/2018	690 J	450	<370	<1.0 J	<1.0 J	<1.0 J	<3.0 J	---	---
D-2	11/4/1994	<50	--	--	3.0	<0.50	<0.50	<1.0	--	--
D-2					**Undocumented - Well Was Abandoned**					
D-4	11/4/1994	450	--	--	<0.50	2.1	0.78	4.7	--	--
D-4	6/21/2005				**Insufficient Groundwater to Sample**					
D-4	6/7/2006	101	**2,760**	**2,840**	<0.290	<0.280	<0.340	<0.820	--	--
D-4	3/15/2007	92.3J	--	--	0.430J	0.460J	0.430J	0.750J	--	--
D-4	9/11/2007				**Insufficient Groundwater to Sample**					
D-4	6/2/2008				**Insufficient Groundwater to Sample**					
D-4	8/26/2008	76.2 [1]	268 [1,5]	441 [1,5]	<0.27 [1]	1.6 [1]	0.58 [1]	1.45 [1]	<0.42 [1]	<74.4 [1]
D-4	3/23/2010				**Insufficient Groundwater to Sample**					
D-4	8/25/2010				**Insufficient Groundwater to Sample**					
D-4	5/26/2011	<50.0	**1,400**	**1,800**	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-4R	11/15/2011	<50.0 J	<76	<380	<1.0 J	<1.0 J	<1.0 J	<3.0 J	<1.0 J	--
D-4R	2/22/2012	<50.0	<75	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-4R	5/9/2012	<100	110	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-4R	8/23/2012	<50.0	<79	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-4R	11/6/2012	<100	<110	<110	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-4R	1/29/2013	<100	<450	<450	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-4R (DUP)	1/29/2013	<100	<450	<450	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-4R	4/29/2013	<100	<200	<200	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-4R	8/13/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-4R	11/18/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-4R	2/4/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-4R	4/28/2014	129	48	<28	<0.15	<0.11	<0.16	<0.40	<0.17	--
D-4R	11/16/2016	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
D-4R	2/16/2017	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
D-4R	5/24/2017	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
D-4R	9/27/2017	<100	<430	<430	<1.0	<1.0	<1.0	<3.0	---	---
D-4R	12/13/2017	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
D-4R	3/1/2018	<100	<370	<370	<1.0	<1.0	<1.0	<3.0	---	---
D-5	12/15/1993	260	--	--	**14**	<0.50	1.7	2.1	--	--
D-5	11/4/1994	170	--	--	**15**	3	<0.50	4	--	--
D-5	9/11/2007				**Insufficient Groundwater to Sample**					
D-5	6/2/2008				**Insufficient Groundwater to Sample**					
D-5	8/25/2008				**Insufficient Groundwater to Sample**					
D-5	3/23/2010				**Insufficient Groundwater to Sample**					
D-5	8/25/2010				**Insufficient Groundwater to Sample**					
D-5R	11/15/2011	160	<77	<380	1	1.4	<1.0	4.6	<1.0	--
D-5R	2/22/2012	74.4 J	<77	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-5R	5/9/2012	380	96	<410	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-5R	8/23/2012	55.2	<82	<410	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-5R	11/6/2012	427	<110	<110	<1.0	<1.0	<1.0	1.0	<1.0	--
D-5R	1/29/2013	128	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-5R	4/29/2013	<100	<200	<200	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-5R	8/13/2013	103	<410	<410	<1.0	<1.0	<1.0	<3.0	<1.0	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
D-5R	11/18/2013	<100	<430	<430	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-5R (DUP)	11/18/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-5R	2/4/2014	<100	<430	<430	<1.0	<1.0	<1.0	<3.0	<1.0	--
D-5R	4/28/2014	<50	48	<28	<0.15	<0.11	<0.16	<0.40	<0.17	--
D-5R	11/17/2016	136	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
D-5R	11/17/2016	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	---	---
D-5R	2/16/2017	<100	<360	<360	**8.2**	<1.0	<1.0	<3.0	---	---
D-5R	5/24/2017	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	---	---
D-5R	9/27/2017	253	<410	<410	<1.0 J	<1.0 J	<1.0 J	<3.0 J	---	---
D-5R	12/13/2017	191	<480	<480	<1.0	<1.0	<1.0	<3.0	---	---
D-5R	2/28/2018	<100	<380	<380	<1.0 J	<1.0 J	<1.0 J	<3.0 J	---	---
D-6	4/30/1998	<50	**14,000**	**86,000**	**11**	2	0.2	1.4	--	--
D-6	5/23/2000	59J	**<2,000**	<5,000	**200**	5.6	1.0J	3.6	--	--
D-6	5/23/2001	10J	**1,400**	**3,800**	**200**	9.1	4.2	5.2	--	--
D-6	6/5/2002	87J	**900**	**2,600**	**120**	9.6	2.3	5.8	--	--
D-6	11/26/2002	385	<0.25	<0.5	**121**	10.7	1.20	5.59	--	--
D-6	5/27/2003	<48	**7,600J**	**37,000**	**7.2**	1.1	0.3J	0.9J	--	--
D-6	6/15/2004	59J	**1,300J**	**5,800**	**78.0**	4.3	1.7	3.6	--	--
D-6	6/22/2005	160J	**3,700**	**4,000J**	**130**	14.0	2.5	8.4	--	--
D-6	6/7/2006	342	**1,580**	**1,050**	**22.2**	0.960J	0.580J	<0.820	--	--
D-6	10/23/2006	445	**1,490**	**4,160**	**111**	19.0	4.97	22.7	--	--
D-6	3/14/2007	487	**792**	**604**	**150**	3.32	2.24	3.12	--	--
D-6	9/11/2007	425	--	--	**160**	6.32	2.56	5.78	--	--
D-6	6/3/2008	497	391	**520**	**100**	2.38	0.620J	1.64J	--	--
D-6	8/27/2008	559 [1]	**1,840** [1,2]	**4,810** [1,3]	**145** [1,6]	4.09 [1]	1.65 [1]	3.62 [1]	0.6 [1]	<74.4 [1]
D-6	3/23/2010	<79.5	<76.2	<381	**268**	4.3	1.8	<3.0	<1.0	<250
D-6	8/27/2010	71.4	<78.4	<392	**144**	4.1	1.6	<3.0	<1.0	<250
D-6	2/10/2011	50	89.1	<385	**91**	1.8	<1.0	<3.0	<1.0	--
D-6	5/25/2011	<50.0	250	**1,300**	**13**	<1.0	<1.0	<3.0	<1.0	--
D-6	8/16/2011	<50.0	<76	<380	**42.5**	1.2	<1.0	<3.0	<1.0	--
D-6	11/22/2011	<50.0	<76	<380	**29.5**	<1.0	<1.0	<3.0	<1.0	--
D-6	3/1/2012	<50.0	<77	<380	**21.9**	<1.0	<1.0	<3.0	<1.0	--
D-6	5/10/2012	139	95	<380	**28.2**	<1.0	<1.0	<3.0	<1.0	--
D-6 (DUP)	5/10/2012	141	<120	<620	**25.3**	<1.0	<1.0	<3.0	<1.0	--
D-6	8/27/2012	75.2	<84	<420	**17.0**	2.1	1.4	8.8	<1.0	--
D-6	11/12/2012	<100	<110	<110	**14.3J**	<1.0	<1.0	<3.0	<1.0	--
D-6 (DUP)	11/12/2012	<100	<120	<120	**15.3**	<1.0	<1.0	<3.0	<1.0	--
D-6	2/1/2013	<100	<420	<420	2.5	<1.0	<1.0	<3.0	<1.0	--
D-6	8/20/2013	<100	<420	<420	**7.1**	<1.0	<1.0	<3.0	<1.0	--
D-6	11/19/2013	<100	<400	<400	4.9	<1.0	<1.0	<3.0	<1.0	--
D-6	2/11/2014	<100	<400	**530**	1.7	<1.0	<1.0	<3.0	<1.0	--
D-6	5/1/2014	<50	<52	**890**	1.6	<0.11	<0.16	<0.40	<0.17	--
D-7	4/14/1993	77	--	--	**1,300**	21	**420**	**2,200**	--	--
D-7	11/4/1994	210	--	--	**88**	2.1	4.7	13	--	--
D-7	9/17/1997	453	**7,990**	**22,400**	**150**	13.5	7.04	35.5	--	--
D-7	4/30/1998	170	**3,300**	**6,200**	**63**	5.0	0.9	7	--	--
D-7	5/23/2000	120J	**4,600J**	**19,000**	**480**	7.2	1.6	13	--	--
D-7	5/23/2001	130J	**4,100J**	**17,000**	**410**	8.7	1.6	18	--	--
D-7	6/4/2002	70J	**9,300**	**31,000**	**180**	6.7	0.72J	8.1	--	--
D-7	11/26/2002	<50	0.435	1.26	2.82	0.614	<0.5	1.12	--	--
D-7	6/15/2004	88J	**15,000**	**51,000**	**190**	18.0	0.5J	3.8	--	--
D-7	6/22/2005	140J	**11,000**	**36,000**	**83**	5.7	0.9J	9.0	--	--
D-7	6/7/2006	281	**3,760**	**9,490**	**70.4**	2.94	<0.340	<0.820	--	--
D-7	10/24/2006	56.2Ju	**913J**	**37,200**	**6.98**	0.630J	<0.230	<0.440	--	--
D-7	3/14/2007	76.3J	**762**	**2,830**	**5.57**	0.580 J	<0.420	<0.450	--	--
D-7	9/12/2007	70.7J	**897**	**3,130**	**10.6**	1.39	<0.420	<0.450	--	--
D-7	6/3/2008	452	**1,760**	**3,220**	**33.4**	0.470J	<0.240	2.33J	--	--
D-7	8/27/2008	762 [1]	-- [1]	-- [1]	**96.6** [1]	4.96 [1]	1.04 [1]	7.08 [1]	<0.42 [1]	<74.4 [1]
D-7	3/23/2010	176	<76.2	<381	**278**	5.4	1.1	10.3	<1.0	<250

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
D-7	8/27/2010	84.2	--	--	**156**	1.1	<1.0	6.8	<1.0	<250
D-7	2/9/2011	65.7	**554**	**3,470**	**20.2**	2	<1.0	<3.0	<1.0	--
D-7	8/16/2011	<50.0	200	**1,500**	**75**	<1.0	<1.0	<3.0	<1.0	--
D-7	2/22/2012	<50.0	<77	<380	3.1	<1.0	<1.0	<3.0	<1.0	--
D-7	8/27/2012	109	**2,100**	**10,600**	**150**	3.6	2.0	12.8	<1.0	--
D-7	2/1/2013	<100	<450	<450	**60.1**	1.1	<1.0	3.2	<1.0	--
D-7	8/20/2013	<100	**880**	**570**	**142**	2.6 J	<1.0	<3.0	<1.0	--
D-7	2/6/2014	116 J	**3,800**	**24,900**	**260**	4.7	<2.0	8.7	<2.0	--
HA-1	4/14/1993	80	--	--	<0.50	<0.50	<0.50	<1.0	--	--
HA-1	12/15/1993	<50	--	--	<0.50	<0.50	<0.50	<1.0	--	--
HA-1	11/4/1994	<50	--	--	<0.50	1.3	0.61	2.2	--	--
HA-1	9/17/1997	<50	<250	<500	<0.50	<0.50	<0.50	<1.0	--	--
HA-1	4/29/1998	<50	110	**540**	<0.20	0.4	<0.20	1.2	--	--
HA-1	5/24/2000	100J	320	370J	0.29J	<0.20	0.71J	2.4J	--	--
HA-1	5/23/2001	<48	<80	<200	<0.2	<0.2	<0.2	<0.60	--	--
HA-1	6/4/2002	<48	<77	<97	<0.20	0.35J	<0.20	<0.60	--	--
HA-1	11/26/2002	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
HA-1	6/15/2004	<48	<80	<100	<0.2	<0.2	<0.2	<0.6	--	--
HA-1	6/22/2005	<48	<77	<97	<0.2	<0.2	<0.2	<0.6	--	--
HA-1	6/7/2006	<40	<35.8	92.7J	<0.290	<0.280	<0.340	<0.820	--	--
HA-1 (DUP)	6/7/2006	<40	<36.2	125	<0.290	<0.280	<0.340	<0.820	--	--
HA-1	10/24/2006	10.9Ju	**877**	**1,090**	<0.310	<0.220	<0.230	<0.440	--	--
HA-1	3/14/2007	47.8J	48.3J	<35.6	0.400J	0.700J	<0.420	1.76J	--	--
HA-1	9/12/2007	<43.0	<19.6	27.2J	0.520J	<0.420	<0.420	1.17J	--	--
HA-1	6/3/2008	<43.0	<19.0	25.9J	<0.270	<0.280	<0.240	<0.860	--	--
HA-1	8/26/2008	<43 [1]	48.6 [1]	62.3 [1]	0.58 [1]	<0.28 [1]	<0.24 [1]	1.14 [1]	<0.42 [1]	75.2 [1]
HA-1	3/23/2010	<50.0	<75.8	<379	<1.0	<1.0	<1.0	<3.0	<1.0	<250
HA-1	8/27/2010	**858**	--	--	**44.6**	41.8	16.1	150	<1.0	<250
HA-1	2/9/2011	<50.0	<75.5	<377	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-1	5/18/2011	<50.0 J	<75.5	<380	<1.0 J	<1.0 J	<1.0 J	<3.0 J	<1.0 J	--
HA-1	8/17/2011	<50.0	<160	<820	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-1	2/28/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-1	5/15/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-1	8/31/2012	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-1	11/12/2012	<100	<110	<110	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-1	2/7/2013	<100	<460	<460	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-1	5/2/2013	<100	<200	<200	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-1	8/23/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-1	11/21/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-1	2/12/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-1	5/7/2014	<50	<48	<28	<0.15	<0.11	<0.16	<0.40	<0.17	--
HA-2	4/14/1993	**160,000**	--	--	**7,900**	**30,000**	**2,900**	**17,000**	--	--
HA-2	12/15/1993	**90,000**	--	--	**1,200**	860	**3,000**	**15,000**	--	--
HA-2	11/4/1994	**1,800,000**	--	--	**1,700**	**13,000**	**8,900**	**57,000**	--	--
HA-2	9/18/1997	**16,500**	**13,500**	<500	**1,820**	648	204	**1,590**	--	--
HA-2	4/30/1998	**65,000**	**12,000**	**3,000**	**9,400**	**11,000**	**1,100**	**7,900**	--	--
HA-2	7/30/1999	**67,000**	**76,000**	<10,000	**10,000**	**8,700**	**1,200**	**10,000**	--	--
HA-2	5/23/2000	**69,000**	**71,000**	<25,000	**12,000**	**7,300**	**1,700**	**11,000**	--	--
HA-2	5/23/2001	**36,000**	**28,000**	<4,000	**8,100**	**2,100**	**910**	**5,200**	--	--
HA-2	6/4/2002	**81,000**	**68,000**	<9,800	**12,000**	**12,000**	**1,700**	**14,000**	--	--
HA-2	5/27/2003	**99,000**	**33,000**	**3,000J**	**9,200**	**5,800**	**1,800**	**14,000**	--	--
HA-2	6/16/2004	**31,000**	**--**	**--**	**5,800**	980	690	**4,500**	--	--
HA-2	6/21/2005	**35,000**	**290,000**	<20,000	**4,700**	**2,700**	440	**4,000**	--	--
HA-2	6/6/2006	**60,200**	**9,720**	313Ju	**7,710**	**5,560**	**874**	**10,200**	--	--
HA-2	10/24/2006	**31,700**	**--**	--	**4,890**	**1,480**	**794**	**5,610**	--	--
HA-2	3/15/2007	**73,600**	**14,900**	**534J**	**9,840**	**8,540**	**1,210**	**14,800**	--	--
HA-2	9/12/2007	**52,000**	--	--	**11,000**	**2,400**	**2,400**	**8,340**	--	--
HA-2	6/4/2008	**81,600**	**6,290**	283J	**8,440**	**5,060**	**2,080**	**11,400**	--	--
HA-2	8/27/2008	**60,400** [1]	-- [1]	-- [1]	**11,600** [1]	**4,810** [1]	**3,100** [1]	**9,480** [1]	<0.42 [1]	<74.4 [1]

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
HA-2	3/25/2010	**55,500**	**4,650**	<385	**10,200**	**2,900**	**3,460**	**16,100**	<1.0	<250
HA-2	8/25/2010	**44,100**	**--**	--	**8,190**	921	**2,700**	**9,660**	<1.0	<250
HA-2	2/8/2011	**62,000**	**1,720**	<379	**7,130**	**1,560**	**1,980**	**9,990**	<1.0	--
HA-2	5/17/2011	**48,200 J**	**1,400**	<380	**6,710 J**	853 J	**2,090 J**	**8,850 J**	<1.0 J	--
HA-2	8/11/2011	**45,300**	**5,600**	<930	**7,600**	**1,130**	**2,050**	**6,720**	<1.0	--
HA-2	11/18/2011	**3,670**	--	--	**5,980**	905	**1,990**	**4,850**	<1.0	--
HA-2	2/24/2012	**142,000**	**2,800**	<420	**17,500**	**3,600**	**2,250**	**30,700**	<10.0	--
HA-2	5/15/2012	**93,000**	**5,100**	460	**6,490**	**2,780**	**2,230**	**14,000**	<1.0	--
HA-2	8/29/2012	**43,900** [10]	**--**	--	**6,000**	**1,360**	**2,300**	**6,960**	<1.0	--
HA-2	11/13/2012	**43,200**	**5,100**	**660**	**7,280**	**2,190**	**2,290**	**9,400**	<50.0	--
HA-2	2/7/2013	**63,700**	**5,300**	<430	**5,920**	**2,810**	**2,230**	**13,300**	<50.0	--
HA-2	5/2/2013	**73,700**	**3,400**	470	**5,760**	**2,480**	**2,700**	**15,000**	<50.0	--
HA-2	8/23/2013	**56,400**	**1,700**	<480	**5,210**	**1,040**	**2,210**	**6,670**	<50.0	--
HA-2	11/21/2013	**57,100**	**2,200 J**	<400	**5,440**	**1,010**	**2,460**	**8,710**	<50.0	--
HA-2	2/10/2014	**72,400**	**3,000**	**650**	**5,050**	802	**2,500**	**12,300**	<50.0	--
HA-2	5/2/2014	**67,000**	**1,800**	<29	**4,850**	794	**2,690**	**14,400**	<8.4	--
HA-3	4/14/1993	770	--	--	**73**	12	6.2	**37**	--	--
HA-3	12/15/1993	140	--	--	**19**	0.58	1.5	3.8	--	--
HA-3	11/4/1994	380	--	--	**26**	6.0	2.0	8.7	--	--
HA-3	9/18/1997	<50	**2,350**	**1,280**	<0.50	<0.50	<0.50	<1.0	--	--
HA-3	4/30/1998	310	**1,200**	**1,400**	**84**	9.0	2.0	7.0	--	--
HA-3	5/23/2000	480	**590**	**1,100**	**87**	8.1	2.2	7.4	--	--
HA-3	5/23/2001	330	--	**--**	**37**	0.63J	0.42J	3.5	--	--
HA-3	6/4/2002	480	**5,900**	**710J**	**120**	16.0	4.2	23.0	--	--
HA-3	5/27/2003	<24	--	--	**230**	4.6J	3.8J	8.9J	--	--
HA-3	6/22/2005	63J	--	--	**140**	0.7J	1.4	3.9	--	--
HA-3	6/7/2006	531	**755**	470	**80.8**	6.59	0.620J	0.880J	--	--
HA-3	3/15/2007	**3,400**	**1,050**	**547**	**569**	7.16	6.50	12.4	--	--
HA-3	9/12/2007	**Insufficient Groundwater to Sample**								
HA-3	6/2/2008	**Insufficient Groundwater to Sample**								
HA-3	8/25/2008	**Insufficient Groundwater to Sample**								
HA-3	3/25/2010	**Insufficient Groundwater to Sample**								
HA-3	8/25/2010	383	**--**	--	**569 C0,E**	11.4	13.5	41.6	<1.0	<250
HA-3	2/9/2011	238	**591**	<851	**113**	2.1	2.4	8.3	<1.0	--
HA-3	5/17/2011	145 J	**<480**	<2400	**121 J**	**2.2 J**	2.2 J	7.2 J	<1.0 J	--
HA-3	8/11/2011	124	--	--	**245**	3.2	3.2	6.2	<1.0	--
HA-3	11/18/2011	51.4 J	<120	<590	**20.6 J**	<1.0 J	<1.0 J	3.1 J	<1.0 J	--
HA-3	2/24/2012	<50.0	<83	<420	1.1	<1.0	<1.0	<3.0	<1.0	--
HA-3	5/16/2012	152	<130	<630	**8.8**	3	2.4	16.8	<1.0	--
HA-3	8/29/2012	138	--	--	**111**	10.3	3.7	11.4	<1.0	--
HA-3	11/13/2012	**1,880**	<130	<130	2.0	6.3	<1.0	<3.0	<1.0	--
HA-3	2/7/2013	272	<430	<430	**9.4**	60.2	1.7	9.7	<1.0	--
HA-3	5/2/2013	149	<200	230	**16.8**	19	1.4	6.9	<1.0	--
HA-3	8/23/2013	<200	<400	<400	**201**	7.2 J	<5.0	<15.0	<5.0	--
HA-3	11/21/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-3	2/10/2014	315	<400	<400	4.5 J	5.3 J	10.2 J	67.8 J	<1.0 J	--
HA-3	5/2/2014	149	<50	<29	3.6	<0.22	4.2	24.7	<0.34	--
HA-4	4/14/1993	230	--	--	<0.50	1.7	4.5	12	--	--
HA-4	12/15/1993	<50	--	--	<0.50	<0.50	<0.50	<1.0	--	--
HA-4	11/4/1994	<50	--	--	<0.50	<0.50	<0.50	<1.0	--	--
HA-4	9/18/1997	**3,980**	**610**	**797**	**193**	280	68.6	503	--	--
HA-4	4/30/1998	<250	**530**	**1,600**	<1.0	<1.0	<1.0	<3.0	--	--
HA-4	5/23/2000	<48	420J	**1,500**	<0.2	<0.2	<0.2	<0.6	--	--
HA-4	5/23/2001	<48	**550**	**1,900**	<0.2	7.60	<0.2	<0.6	--	--
HA-4	6/4/2002	<48	230J	270J	0.22J	0.33J	<0.2	1.1J	--	--
HA-4	5/27/2003	<48	410	**720**	<0.2	2.3	<0.2	<0.6	--	--
HA-4	6/16/2004	70J	470	**590J**	<0.2	4.7	<0.2	<0.6	--	--
HA-4	6/22/2005	<48	**560**	**1,000**	<0.2	0.6J	<0.2	1.0J	--	--
HA-4	10/24/2006	275	325	**672**	**60.6**	21.0	2.92	19.2	--	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
HA-4	3/15/2007	66.5J	**519**	155	<0.330	<0.420	<0.420	<0.450	--	--
HA-4	9/12/2007	84.9J	--	--	<0.330	<0.420	<0.420	0.770J	--	--
HA-4	6/4/2008	131	94.0J	204	0.920J	2.95	1.65	7.44	--	--
HA-4	8/26/2008	<43 [1]	188 [1,2]	421 [1,2]	<0.27 [1]	<0.28 [1]	<0.24 [1]	<0.86 [1]	<0.42 [1]	<'74.4 [1]
HA-4	3/25/2010	**Insufficient Groundwater to Sample**								
HA-4	8/25/2010	<50.0	**--**	--	1.6	<1.0	<1.0	<3.0	<1.0	<250
HA-4	2/8/2011	61.8	114	<404	1.4	1.3	1.8	14.7	<1.0	--
HA-4	5/17/2011	<50.0 J	<77.0	<380	<1.0 J	<1.0 J	<1.0 J	<3.0 J	<1.0 J	--
HA-4	8/11/2011	<50.0	--	--	--	--	--	--	--	--
HA-4	11/18/2011	<50.0	<75	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-4	2/24/2012	<50.0	<77	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-4	5/16/2012	215	<85	<430	<1.0	49.7	<1.0	<3.0	<1.0	--
HA-4	8/29/2012	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-4	11/15/2012	<100	<110	<110	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-4	2/7/2013	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-4	5/2/2013	121	<200	210	<1.0	43.7	<1.0	<3.0	<1.0	--
HA-4	8/23/2013	<100	<400	<400	<1.0	3.7 J	<1.0	<3.0	<1.0	--
HA-4	11/21/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-4	2/10/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-4	5/7/2014	963	<28	<48	<0.30	297	<0.33	<0.81	<0.34	--
HA-5	4/14/1993	**3,500**	--	--	**22**	2.2	84	210	--	--
HA-5	12/15/1993	710	--	--	**17**	18	1.2	38	--	--
HA-5	11/4/1994	250	--	--	**14**	1.5	1.6	2.9	--	--
HA-5	9/18/1997	349	**1,790**	**969**	**18.50**	2.45	1.89	6.8	--	--
HA-5	5/1/1998	**950**	**640**	**840**	**15**	3	7	5	--	--
HA-5	7/29/1999	480	240J	<200	**17**	3	0.4J	9	--	--
HA-5	5/23/2000	410	380	**630**	**9.1**	2.6	2	5.5	--	--
HA-5	5/22/2001	480	290	<200	2.5	1.7	0.23J	3.0	--	--
HA-5	6/5/2002	**880**	260	110J	**30.0**	5.3	140	16.0	--	--
HA-5	11/19/2002	223	NA	NA	3.39	5.63	0.581	5.87	--	--
HA-5	11/25/2002	236	<0.25	<0.5	2.94	1.67	<0.5	4.22	--	--
HA-5 (DUP)	11/25/2002	243	<0.25	<0.5	2.78	1.51	<0.5	3.81	--	--
HA-5	1/14/2003	**14,300**	NA	NA	**3,380**	**2,870**	43.6	151	--	--
HA-5	2/24/2003	**65,000**	0.476	<0.5	**8,620**	**17,200**	685	**3,260**	--	--
HA-5	3/25/2003	**54,700**	0.388	<0.5	**6,550**	**14,700**	657	**2,900**	--	--
HA-5	4/18/2003	**66,600**	<0.25	<0.5	**7,550**	**16,800**	**857**	**3,960**	--	--
HA-5	5/28/2003	**21,000**	310	150J	**2,700**	**5,200**	350	**1,700**	--	--
HA-5	8/11/2003	**2,810**	0.512	<0.5	**659**	232	26.7	187	--	--
HA-5	3/15/2004	708	2.38	<0.5	**21.2**	1.38	41.5	6.55	--	--
HA-5	6/16/2004	570	**1,400J**	<1,000	3.0	1.2	3.1	25	--	--
HA-5	6/22/2004	178	<0.25	<0.5	2.85	<0.5	0.559	<1	--	--
HA-5	9/21/2004	409	4.17	<0.5	**9.76**	0.657	16.5	7.84	--	--
HA-5	12/21/2004	<50	<0.25	<0.5	0.567	<0.5	<0.5	<1	--	--
HA-5	3/22/2005	<100	<0.236	<0.473	**17.6**	<1	<1	<3	--	--
HA-5	6/20/2005	86J	**790**	<94	2.7	<0.2	<0.2	0.7J	--	--
HA-5	6/24/2005	124	1.18 (d)	<0.456	<1	<1	<1	<3	<1	--
HA-5	7/28/2005	**870**	360	<95	0.9	1.7	3.2	52	<0.3	--
HA-5	9/20/2005	140	85	<94	**6.9**	11	1.9	9.7	--	--
HA-5	11/30/2005	<48	95	<94	<0.5	<0.7	<0.8	<0.8	--	--
HA-5	2/28/2006	<48	100	<100	2	<0.7	<0.8	<0.8	<0.5	--
HA-5	5/16/2006	<48	<76	<95	1.9	<0.2	<0.2	<0.6	<5	--
HA-5	6/7/2006	173	205	171	0.570J	<0.280	<0.340	<0.820	--	--
HA-5	8/17/2006	100	190	<96	**5**	<0.7	<0.8	<0.8	<0.5	--
HA-5	10/24/2006	303	178	<35.8	**22.7**	3.42	1.72	2.92J	--	--
HA-5	11/21/2006	150	590	<96	**15**	<0.7	<0.8	4.0	<0.5	--
HA-5	2/20/2007	180	--	--	**5**	<0.7	2	<0.8	<0.5	--
HA-5	3/15/2007	133	454	<37.0	3.79	<0.420	0.770J	<0.450	--	--
HA-5	5/15/2007	110	260	<95	2	<0.7	<0.8	<0.8	<0.5	--
HA-5	9/11/2007	507	**525**	76.2J	**78.7**	5.24	9.22	16.2	--	--
HA-5	9/12/2007	720	<160	<200	**280**	23	34	100	<0.5	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
HA-5	11/27/2007	100	190	<95	**5**	<0.7	2	4	<0.5	--
HA-5	2/26/2008	77	100	<93	0.7	<0.7	<0.8	1	<0.5	--
HA-5	6/4/2008	**999**	185	116	4.66	2.74	30.9	8.96	--	--
HA-5	8/26/2008	**1,220** [1]	360 [1,4]	136 [1,4]	**24.7** [1]	11.5 [1]	5.64 [1]	31.4 [1]	<0.42 [1]	<74.4 [1]
HA-5	3/24/2010	162	<76.2	<381	**5.8**	1.4	<1.0	6.7	<1.0	<250
HA-5	8/27/2010	571	87.1	<392	**31.2**	8.3	61.8	37.8	<1.0	<250
HA-5	2/11/2011	130	<77.7	<388	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-5	8/12/2011	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-5	2/23/2012	<50.0	<75	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-5	8/23/2012	<50.0	<83	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-5	1/30/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-5	8/22/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-5	2/7/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-6	4/14/1993	**63,000**	--	--	**1,400**	**9,300**	**1,200**	**10,000**	--	--
HA-6	12/15/1993	**59,000**	--	--	**1,400**	**1,400**	**7,400**	**10,000**	--	--
HA-6	11/4/1994	**53,000**	--	--	**960**	**2,700**	**790**	**9,500**	--	--
HA-6	9/17/1997	**43,100**	**25,100**	<500	**934**	973	**922**	**7,670**	--	--
HA-6	5/1/1998	**43,000**	**24,000**	<5,000	**1,100**	**1,200**	**1,300**	**8,700**	--	--
HA-6	7/30/1999	**47,000**	**16,000**	<2,000	**950**	360	**1,500**	**8,300**	--	--
HA-6	5/22/2000	**37,000**	**10,000**	<4,000	**870**	430	**1,500**	**6,800**	--	--
HA-6	5/22/2001	**38,000**	**14,000**	<2,000	**820**	370	**1,600**	**8,000**	--	--
HA-6	6/5/2002	**36,000**	**5,800**	**990J**	**650**	210	**1,700**	**7,100**	--	--
HA-6	11/25/2002	**25,600**	1.43	<0.5	**637**	181	**1,320**	**5,620**	--	--
HA-6	5/28/2003	**32,000**	**4,100**	**5,400J**	**590**	210	**1,200**	**5,900**	--	--
HA-6	6/16/2004	**52,000**	**41,000**	<2,500	**590**	330	**1,300**	**8,500**	--	--
HA-6	6/20/2005	**18,000**	**11,000**	<960	**330**	150	690	**2,800**	--	--
HA-6	6/7/2006	**18,600**	**3,700j**	106J	**345**	189	**1,040**	**2,900**	--	--
HA-6	10/24/2006	**19,000**	**2,670j**	<71.4uj	**422**	172	**948**	**2,570**	--	--
HA-6	3/15/2007	**17,700**	**3,290**	<74.0	**409**	209	**1,170**	**4,300**	--	--
HA-6	9/11/2007	**19,800**	**2,600**	52.6	**471**	197	**1,360**	**2,200**	--	--
HA-6	6/3/2008	**24,900**	**2,120**	165	**365**	304	**1,550**	**4,330**	--	--
HA-6	8/26/2008	**22,800** [1]	**1,420** [1,3]	48.8 [1]	**349** [1]	237 [1]	**1,320** [1]	**2,470** [1]	<0.42 [1]	<74.4 [1]
HA-6	3/24/2010	**14,900**	**908**	<381	**330**	184	**1,450**	**2,790**	<1.0	<250
HA-6	8/27/2010	**9,630**	**789**	<392	**293**	98.0	**1,420**	413	<1.0	<250
HA-6	2/10/2011	**10,100**	**576**	<377	**118**	71.1	423	882	<1.0	--
HA-6	5/26/2011	**11,500**	**510**	<380	**149**	77.4	389	570	<1.0	--
HA-6	8/12/2011	**9,440**	**1,900**	<380	**89.8**	77	551	337	<1.0	--
HA-6	11/22/2011	**10,300**	330	<390	**119**	97.9	**731**	457	<1.0	--
HA-6	2/23/2012	**12,700**	**710**	<380	**153**	155	**1,160**	**1,490**	<1.0	--
HA-6	5/11/2012	**12,800**	**900**	<420	**130**	149	**1,100**	**1,530**	<10.0	--
HA-6	8/23/2012	**12,800** [10]	**830**	<420	**157**	132	**1,380**	933	<1.0	--
HA-6	11/8/2012	**11,500**	**3,100**	<100	**151**	115	**907**	**1,010**	<10	--
HA-6	1/30/2013	**15,900**	**910**	<430	**140**	148	**1,140**	**1,520**	<5.0	--
HA-6	5/3/2013	**19,100**	**910**	350	**181**	180	**1,680**	**1,930**	<10.0	--
HA-6	8/22/2013	**11,000**	**900**	<430	**133**	85.2	**907**	583	<1.0	--
HA-6	11/20/2013	**14,300**	**770**	<400	**194**	143	**1,540 J**	**1,490**	<5.0	--
HA-6	2/7/2014	**20,200**	**1,200**	<400	**161**	137	**1,870**	**1,160**	<10.0	--
HA-6	5/6/2014	**13,700**	**900**	<29	**106**	96.7	**1,190**	**1,150**	<1.7	--
HA-7	7/29/1999	**17,000**	**16,000**	<10,000	**1,200**	69	**890**	**1,200**	--	--
HA-7	5/22/2000	**7,000**	**9,200**	<4,000	**460**	31	510	580	--	--
HA-7	5/22/2001	**4,700**	**7,100**	<2,000	**290**	25	350	470	--	--
HA-7	6/5/2002	**8,800**	**4,100**	<470	**1,500**	73	**760**	**1,000**	--	--
HA-7	11/19/2002	**5,510**	NA	NA	**587**	31.3	259	324	--	--
HA-7	11/25/2002	**7,840**	2.67	<0.5	**811**	41.1	402	580	--	--
HA-7	1/14/2003	**13,700**	NA	NA	**421**	56.2	261	**2,350**	--	--
HA-7	5/28/2003	**11,000**	**9,000**	<960	**1,000**	100	**920**	**1,300**	--	--
HA-7	6/15/2004	**8,500**	**3,400**	<490	**730**	48	600	**1,200**	--	--
HA-7	6/20/2005	740	**1,500**	<200	**170**	5	84	18	--	--
HA-7	6/7/2006	<40	**14,700**	**1,610**	0.480J	<0.280	<0.340	<0.820	--	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	**Date**	**TPHg**	**TPHd**	**TPHo**	**B**	**T**	**E**	**X**	**MTBE**	**Ethanol**
CA Method A Screening Levels:		**800/1000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**20**	**--**
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
HA-7	10/24/2006	537	**1,040j**	408j	**46.9**	4.32	7.86	23.5	--	--
HA-7	3/15/2007	**3,880**	**3,270**	<181	**385**	30.0	658	166	--	--
HA-7	9/11/2007	**9,440**	**4,300**	<41.0	**777**	31.8	**1,540**	504	--	--
HA-7	6/3/2008	**13,700**	**4,270**	357	**653**	70.6	**1,620**	**1,430**	--	--
HA-7	8/26/2008	**6,940** [1]	**4,410** [1,3]	137 [1]	**635** [1]	31.7 [1]	**1,100** [1]	928 [1]	<0.42 [1]	<74.4 [1]
HA-7	3/24/2010	**4,990**	458	<392	**529**	28.4	**771**	**1,050**	<1.0	<250
HA-7	8/27/2010	**7,120**	455	<388	**267**	24.8	505	544	<1.0	<250
HA-7	2/11/2011	**5,430**	369	<377	**114**	17.7	500	401	<1.0	--
HA-7	5/25/2011	**6,540**	360	<380	**150**	22	369	349	<1.0	--
HA-7	8/15/2011	**6,820**	**660**	<380	**225**	22.9	567	377	<1.0	--
HA-7	11/22/2011	**3,100**	200	<400	**86.1**	7.8	160	198	<1.0	--
HA-7	2/27/2012	**5,310**	360	<380	**193**	25.6	**813**	509	<1.0	--
HA-7	5/11/2012	**5,130**	**790**	<380	**145**	19.9	520	419	<5.0	--
HA-7	8/27/2012	**4,430** [10]	**550**	<400	**178**	15.2	335	264	<1.0	--
HA-7	11/12/2012	**3,050**	**880**	350	**130**	8.0	192	237	<1.0	--
HA-7	2/1/2013	**4,220**	**1,400**	<430	**98.8**	14.3	339	259	<2.0	--
HA-7	5/3/2013	**8,320**	**670**	300	**142**	21.3	647	570	<5.0	--
HA-7	8/23/2013	**4,480 J**	**1,200**	<390	**181**	12 J	283	204	<2.0	--
HA-7	11/20/2013	**5,060**	<400	<400	**82**	8.9	429	357	<5.0	--
HA-7	2/7/2014	**5,330**	**760**	<400	**89.2**	9.6	322	226	<2.0	--
HA-7	5/7/2014	**4,450**	<28	<48	**141**	11.9	299	247	<0.17	--
HA-8	4/14/1993	**8,100**	--	--	**140**	150	200	**1,100**	--	--
HA-8	12/15/1993	**3,200**	--	--	**100**	68	11	390	--	--
HA-8	11/4/1994	610	--	--	**25**	2.9	15	54	--	--
HA-8	9/18/1997	**2,840**	**6,760**	**2,360**	**29.2**	11.9	19.8	239	--	--
HA-8	5/1/1998	**4,300**	**14,000**	**19,000**	**110**	130	190	600	--	--
HA-8	7/29/1999	**6,000**	**2,200**	<200	**37**	30	140	**1,000**	--	--
HA-8	5/22/2000	**1,100**	**810**	**700**	**13**	9.7	28	170	--	--
HA-8	5/22/2001	**650**	**800**	350J	**15**	3.8	26	95	--	--
HA-8	6/5/2002	**1,200**	**3,000**	**1,100**	**6.8**	4.4	31	160	--	--
HA-8	11/19/2002	135	--	--	2.07	4.11	1.76	7.42	--	--
HA-8	11/24/2002	579	<0.25	<0.5	**5.78**	16.9	12.6	57.8	--	--
HA-8	1/14/2003	633	--	--	4.02	16.5	16.3	207	--	--
HA-8	2/24/2003	**5,720**	0.767	<0.5	**14.6**	74.5	232	**1,570**	--	--
HA-8	3/25/2003	**1,950**	0.544	<0.5	**6.17**	22.0	73.0	445	--	--
HA-8	4/18/2003	**3,040**	<0.25	<0.5	**12.1**	35.9	160	708	--	--
HA-8 (DUP)	4/18/2003	**3,650**	0.257	<0.5	**11.9**	41.1	164	762	--	--
HA-8	5/28/2003	**67,000**	**1,800**	**530**	**11,000**	**16,000**	**1,100**	**5,400**	--	--
HA-8	6/15/2004				**LPH Encountered**					
HA-8	6/20/2005				**LPH Encountered**					
HA-8	6/6/2006				**LPH Encountered**					
HA-8	10/23/2006				**LPH Encountered**					
HA-8	3/14/2007				**LPH Encountered**					
HA-8	9/11/2007	**4,230**	**31,000**	**1,270J**	**2,360**	**7,210**	408	**2,310**	--	--
HA-8	6/3/2008	**43,800**	**2,250**	**719**	**3,730**	**14,800**	**956**	**4,650**	--	--
HA-8	8/26/2008	**34,600** [1]	**2,620** [1,4]	**778** [1,4]	**3,770** [1]	**10,700** [1]	**763** [1]	**3,750** [1]	<0.42 [1]	<74.4 [1]
HA-8	3/24/2010	115	<77.7	<388	<1.0	<1.0	<1.0	15.6	<1.0	<250
HA-8	8/27/2010	**54,600**	434	<388	**2,200**	**11,900**	**964**	**4,240**	<1.0	<250
HA-8	2/11/2011	68.2	78.2	<377	<1.0	<1.0	<1.0	17.4	<1.0	--
HA-8	8/15/2011	**3,680**	170	<380	**78.2**	287	132	576	<1.0	--
HA-8	2/27/2012	87.3	<76	<380	<1.0	<1.0	<1.0	10.5	<1.0	--
HA-8	8/27/2012	<50.0	<82	<410	**5.9**	<1.0	<1.0	<3.0	<1.0	--
HA-8	2/1/2013	238	<430	<430	<1.0	<1.0	<1.0	38.2	<1.0	--
HA-8	8/23/2013	375	400	<400	**15.6**	7.3 J	20.1	32.1	<1.0	--
HA-8	2/7/2014	**1,240**	<400	<400	2	<1.0	6.4	128	<1.0	--
HA-9	4/14/1993	**74,000**	--	--	**1,700**	**2,000**	**2,100**	**14,000**	--	--
HA-9	12/15/1993	**50,000**	--	--	**990**	**1,300**	130	**9,300**	--	--
HA-9	11/4/1994	**55,000**	--	--	**570**	91	**1,200**	**8,200**	--	--
HA-9	9/18/1997	**21,800**	**6,100**	<1,000	**142**	22.8	**372**	**2,460**	--	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
HA-9	4/29/1998	**32,000**	**44,000**	<25,000	**410**	**60**	**1,200**	**4,500**	--	--
HA-9	5/24/2000	**7,400**	**12,000**	**3,400**	**310**	21	320	380	--	--
HA-9	5/23/2001	**3,400**	**15,000**	<2,000	**290**	15	290	490	--	--
HA-9	6/4/2002	**12,000**	**5,300**	**1,000J**	**530**	13	**810**	910	--	--
HA-9	11/26/2002	**6,110**	--	--	**249**	3.55	349	187		
HA-9	5/28/2003	**9,500**	**3,800**	<1,100	**310**	6.3	610	190	--	--
HA-9	6/17/2004	**4,300**	**--**	--	**250**	2.1	280	6.8	--	--
HA-9	6/20/2005	**4,800**	**15,000**	**1,800J**	**220**	2.4	260	5.8	--	--
HA-9	6/6/2006	**3,750j**	**3,220**	337u	**177**	3.58	435	420	--	--
HA-9	10/24/2006	**7,050**	**3,080**	248	**248**	2.58	580	8.43	--	--
HA-9	3/15/2007	**6,360**	**3,100**	<82.2	**245**	5.66	468	8.72	--	--
HA-9	9/11/2007	**5,600**	**4,290**	**702**	**399**	10.1	345	50.0	--	--
HA-9	6/4/2008	**5,870**	**1,340**	165J	**130**	4.37	141	10.8	--	--
HA-9	8/27/2008	**5,730** [1]	**3,160** [1,4]	**705** [1,4]	**388** [1]	7.34 [1]	277 [1]	13 [1]	<0.42 [1]	<74.4 [1]
HA-9	3/25/2010	**Insufficient Groundwater to Sample**								
HA-9	8/25/2010	**4,180**	**--**	--	**388**	17.1	260	199	<1.0	<250
HA-9	2/8/2011	**4,330**	**753**	<379	**127**	6.3	115	9.8	<1.0	--
HA-9	5/17/2011	**5,240**	**--**	**--**	**177**	4.9	156	9.5	<1.0	--
HA-9	8/11/2011	**6,530**	**950**	<620	**195**	4.2	151	8.7	<1.0	--
HA-9	11/22/2011	**6,320**	**1,200**	<380	**206**	5	160	10.2	<1.0	--
HA-9	2/29/2012	**4,640**	**860**	<390	**147**	5.5	119	11.1	<1.0	--
HA-9	5/15/2012	**4,610**	**980**	<410	**218**	8.8	152	32.1	<1.0	--
HA-9	8/29/2012	**4,520**	**2,400**	**790**	**199**	3.5	160	8.6	<1.0	--
HA-9	11/14/2012	**3,920**	**900**	<110	**207**	3.3	74.8	7.7	<1.0	--
HA-9	2/4/2013	**2,890**	**940**	<440	**110**	3	60.6	7	<1.0	--
HA-9	5/8/2013	**4,500**	**560**	<200	**195**	3.3	103	6.6	<1.0	--
HA-9	11/21/2013	**4,060**	**710**	<400	**205**	5.2	118	6.7	<2.0	--
HA-9	2/6/2014	**3,020**	**870**	<400	**15.2**	<1.0	5.7	<3.0	<1.0	--
HA-9	5/2/2014	**3,020**	**1,300**	<28	**77.7**	2.7	47.3	<0.40	<0.17	--
HA-10	4/14/1993	**77,000**	--	--	**540**	**4,600**	**1,800**	**12,000**	--	--
HA-10	12/15/1993	**24,000**	--	--	**430**	410	**1,400**	**3,800**	--	--
HA-10	5/23/2001	**Well not sampled, bailer obstructed from reaching well bottom**								
HA-10	6/6/2002	**8,900**	--	--	**44**	66	530	**1,600**	--	--
HA-10	5/27/2003	**Well not sampled, bailer obstructed from reaching well bottom**								
HA-10	6/17/2004	**Well not sampled, bailer obstructed from reaching well bottom**								
HA-10	6/21/2005	**3,500**	--	--	**23**	7	170	320	--	--
HA-10	6/6/2006	**852**	**999**	97.5	**52.6**	5.50J	63.7	19.1J	--	--
HA-10	10/24/2006	**2,280**	--	--	**36.2**	<0.220	47.4	99.4	--	--
HA-10	3/15/2007	**4,590**	**1,610**	371	**49.8**	13.2	332	425	--	--
HA-10	9/12/2007	**Insufficient Groundwater to Sample**								
HA-10	6/4/2008	**4,710**	--	--	**16.1**	7.79	175	283	--	--
HA-10	8/27/2008	**2,160** [1]	**2,400** [1,3]	**510** [1,2]	**5.61** [1]	5.32 [1]	34.4 [1]	39.2 [1]	<0.42 [1]	<74.4 [1]
HA-10	3/24/2010	**Insufficient Groundwater to Sample**								
HA-10	8/25/2010	**2,170**	**--**	--	**7.1**	7.5	68.5	130	<1.0	<250
HA-10	2/8/2011	**Insufficient Groundwater to Sample**								
HA-10	5/17/2011	508 J	**1,300**	<2400	<1.0 J	<1.0 J	<1.0 J	<3.0 J	<1.0 J	--
HA-10	8/11/2011	**2,210**	--	--	**10.1**	5.7	49.9	73.5	<1.0	--
HA-10	11/21/2011	**1,430 J**	140 J	<570 J	**5.5 J**	2.8 J	37.2 J	56.6 J	<1.0 J	--
HA-10	2/29/2012	489	**1,900**	**1,700**	<1.0	1.5	10.3	5.3	<1.0	--
HA-10	5/16/2012	**816**	**--**	**--**	1.5	3.7	15.0	10.3	<1.0	--
HA-10	8/29/2012	**1,020**	**--**	**--**	3.1	3.5	24.2	18.5	<1.0	--
HA-10	11/14/2012	286	<110	<110	<1.0	<1.0	12.5	3.5	<1.0	--
HA-10	1/31/2013	218	<450	<450	<1.0	<1.0	9.4	<3.0	<1.0	--
HA-10	5/2/2013	490	--	--	<1.0	3	18.3	9.3	<1.0	--
HA-10	8/20/2013	274	--	--	<1.0	1.9 J	6.1	4	<1.0	--
HA-10	11/27/2013	101	<950	<950	<1.0	<1.0	5.6	<3.0	<1.0	--
HA-10	5/2/2014	<50	<48	<28	<0.15	<0.11	3.1	<0.40	<0.17	--
HA-11	4/14/1993	**29,000**	--	--	**910**	42	**820**	**3,700**	--	--
HA-11	12/15/1993	**5,300**	--	--	**360**	160	98	780	--	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
HA-11	11/4/1994	**13,000**	--	--	**610**	190	300	**1,900**	--	--
HA-11	4/29/1998	**4,600**	**4,200**	**1,800**	**230**	28	100	520	--	--
HA-11	5/24/2000	**13,000**	**3,300**	**1,400**	**710**	200	450	**2,300**	--	--
HA-11	5/23/2001	**6,100**	--	--	**570**	83	280	910	--	--
HA-11	6/4/2002	**3,000**	--	--	**660**	18	100	450	--	--
HA-11	5/27/2003	**16,000**	--	--	**1,400**	74	560	**2,300**	--	--
HA-11	6/21/2005	**4,100**	--	--	**500**	6.6	150	460	--	--
HA-11	6/7/2006	**8,760**	**3,320j**	147J	**662**	17.0	443	**1,420**	--	--
HA-11	10/24/2006	**7,410**	**3,560**	**1,370**	**1,510**	12.2	385	710	--	--
HA-11	3/15/2007	**5,180**	**3,700**	**508**	**504**	8.96	294	842	--	--
HA-11	9/12/2007	**Insufficient Groundwater to Sample**								
HA-11	6/4/2008	**4,290**	--	--	**602**	4.46	159	415	--	--
HA-11	8/25/2008	**Insufficient Groundwater to Sample**								
HA-11	3/24/2010	**3,080**	--	--	**384**	5.1	215	595	<1.0	<250
HA-11	8/25/2010	**5,350**	**--**	--	**988**	18.6	430	**1,230**	<1.0	<250
HA-11	2/8/2011	**Insufficient Groundwater to Sample**								
HA-11	5/18/2011	**8,740 J**	<77	<380	**442 J**	8.5 J	344 J	682 J	<1.0 J	--
HA-11	8/11/2011	**4,840**	--	--	**736**	4.3	167	329	<1.0	--
HA-11	11/21/2011	**3,280 J**	<180 J	<890 J	**559 J**	3.1 J	109 J	150 J	<1.0 J	--
HA-11	2/29/2012	**4,060**	250	<480	**271**	3	228	459	<1.0	--
HA-11	5/15/2012	**3,890**	--	--	**318**[C0, E]	7	198	463	<1.0	--
HA-11	8/29/2012	**5,390** [10]	--	--	**543**	28.3	276	570	<1.0	--
HA-11	11/15/2012	**1,610**	--	--	**302**	<2.0	24.3	130	<2.0	--
HA-11	2/4/2013	**1,460**	<490	<490	**185**	1.6	112	220	<1.0	--
HA-11	5/2/2013	**1,780**	**1,500**	450	--	--	--	--	-- --	--
HA-11	11/21/2013	**1,390**	**620 J**	<400	**207**	1.9	136	322	<1.0	--
HA-11	2/13/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-11	4/30/2014	**1,660**	<48	<28	**202**	<0.55	111	219	<0.84	--
HA-12	4/14/1993	<50	--	--	1.3	<0.50	<0.50	<1.0	--	--
HA-12	12/15/1993	700	--	--	**6.0**	5.7	16	170	--	--
HA-12	11/4/1994	300	--	--	2.2	1.6	1.8	9.7	--	--
HA-12	9/18/1997	139	**6,350**	<500	1.05	<0.50	<0.50	1.9	--	--
HA-12	5/1/1998	<50	<80	**780**	0.3	0.5	0.3	1.5	--	--
HA-12	7/29/1999	<48	180J	200	3	0.8J	<0.2	1.3J	--	--
HA-12	5/22/2000	<48	250	**520**	1.2	0.24J	<0.2	<0.6	--	--
HA-12	5/22/2001	<48	410	<200	3.7	0.24J	<0.2	<0.6	--	--
HA-12	6/5/2002	<48	130J	<95	0.31J	<0.2	<0.2	<0.6	--	--
HA-12	11/25/2002	93.7	<0.25	<0.5	0.957	3.85	1.52	10.8	--	--
HA-12	5/28/2003	<48	280	**610**	0.4J	<0.2	<0.2	<0.6	--	--
HA-12	6/16/2004	<48	490	250J	4.5	0.3J	<0.2	0.8J	--	--
HA-12	6/21/2005	<48	180J	<100	0.3J	<0.2	0.5J	<0.6	--	--
HA-12	6/7/2006	<40	165	70.1J	<0.290	<0.280	<0.340	<0.820	--	--
HA-12	10/24/2006	58.2Ju	103	**564**	4.85	1.60	0.860J	0.870J	--	--
HA-12	3/15/2007	71.6J	90.3J	<37.0	<0.330	<0.420	0.530J	0.630J	--	--
HA-12	9/11/2007	72.6J	283	181	<0.330	<0.420	<0.420	<0.450	--	--
HA-12	6/4/2008	110	228	316	0.310J	<0.280	0.570J	1.05J	--	--
HA-12	8/27/2008	<43 [1]	**584** [1,5]	**722** [1,5]	<0.27 [1]	1.23 [1]	0.38 [1]	<0.86 [1]	<0.42 [1]	<74.4 [1]
HA-12	3/24/2010	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	<1.0	<250
HA-12	8/25/2010	**Insufficient Groundwater to Sample**								
HA-12	5/25/2011	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-12	11/21/2011	<50.0 J	<77 J	450 J	<1.0 J	<1.0 J	1.3 J	<3.0 J	<1.0 J	--
HA-12	5/11/2012	<100	<77	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-12	11/12/2012	<100	<100	<100	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-12	5/3/2013	<100	<200	310	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-12	11/20/2013	<100	**710**	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-12	5/7/2014	<50	<48	<28	<0.15	<0.11	<0.16	<0.40	<0.17	--
HA-13	4/14/1993	<50	--	--	<0.50	<0.50	<0.50	<1.0	--	--
HA-13	12/15/1993	<50	--	--	<0.50	<0.50	<0.50	<1.0	--	--
HA-13	11/4/1994	<50	--	--	<0.50	1.4	<0.50	3.0	--	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
HA-13	9/18/1997	59	310	<500	<0.50	<0.50	<0.50	<1.0	--	--
HA-13	4/30/1998	<250	<250	<500	<1.0	1.00	<1.0	<3.0	--	--
HA-13	7/28/1999	--	--	--	--	--	--	--	--	--
HA-13	5/22/2000	<48	130J	450J	<0.2	<0.2	<0.2	<0.6	--	--
HA-13	5/22/2001	<48	86J	<200	<0.2	<0.2	<0.2	<0.6	--	--
HA-13	6/4/2002	<48	<84	<110	<0.2	<0.2	<0.2	<0.6	--	--
HA-13	11/25/2002	<50	<0.25	<0.5	0.569	1.80	0.667	5.74	--	--
HA-13	2/24/2003	<50	<0.25	<0.5	<0.5	<0.5	<0.5	1.08	--	--
HA-13	3/25/2003	98.4	<0.25	<0.5	<0.5	0.580	<0.5	<1	--	--
HA-13	4/18/2003	<50	<0.25	<0.5	<0.5	<0.5	0.500	<1	--	--
HA-13	5/27/2003	**7,100**	84J	<96	**43**	290	120	840	--	--
HA-13	9/11/2003	498	NA	NA	3.38	28.9	7.87	60.6	--	--
HA-13	11/21/2003	<50	<0.25	<0.5	<0.5	0.877	<0.5	1.15	--	--
HA-13	3/15/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
HA-13	6/16/2004	<48	<77	<96	<0.2	<0.2	<0.2	<0.6	--	--
HA-13	6/22/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
HA-13	9/21/2004	<50	0.868	<0.5	0.598	<0.5	<0.5	<1	--	--
HA-13	12/21/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
HA-13	3/22/2005	<100	<0.237	<0.474	<1	<1	<1	<3	--	--
HA-13	6/21/2005	<48	230J	<200	<0.2	<0.2	0.5J	0.27J	--	--
HA-13	6/24/2005	<100	0.311	<0.473	<1	<1	<1	<3	<1	--
HA-13	7/28/2005	**5800**	**1100**	380	<0.3	9.8	22	380	<0.3	--
HA-13	9/20/2005	130	--	--	3.6	11.0	1.4	8.8	--	--
HA-13	11/29/2005	<48	79	<95	<0.5	<0.7	<0.8	<0.8	--	--
HA-13	2/28/2006	<48	<78	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--
HA-13	5/16/2006	<48	<81	<100	<0.2	<0.2	<0.2	<0.6	<0.3	--
HA-13	6/7/2006	<40	163	329	<0.290	<0.280	<0.340	<0.820	--	--
HA-13	8/17/2006	<48	<270	<330	<0.5	<0.7	<0.7	<0.8	<0.5	--
HA-13	10/24/2006	100	<37.8	<37.8	**7.34**	1.83	0.770J	0.750J	--	--
HA-13	11/21/2006	<48	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--
HA-13	2/20/2007	<48	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--
HA-13	3/15/2007	63.6J	59.7J	110	<0.330	<0.420	<0.420	0.500J	--	--
HA-13	5/15/2007	<50	<130	<170	<0.5	<0.7	<0.8	<0.8	<0.5	--
HA-13	9/11/2007	47.5J	--	--	0.580J	<0.420	<0.420	0.700J	--	--
HA-13	9/12/2007	<50	450	<200	<0.5	<0.7	<0.8	<0.8	<0.5	--
HA-13	11/27/2007	<50	<300	<370	<0.5	<0.7	<0.8	<0.8	<0.5	--
HA-13	2/26/2008	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--
HA-13	6/4/2008	52.3J	41.1J	58.9J	<0.270	<0.280	0.410J	<0.860	--	--
HA-13	8/27/2008	57.7 [1,6]	34.1 [1]	53.9 [1]	<0.27 [1]	0.92 [1]	0.24 [1]	<0.86 [1]	<0.42 [1]	<74.4 [1]
HA-13	3/24/2010	<50.0	<75.8	<379	<1.0	<1.0	<1.0	<3.0	<1.0	<250
HA-13	8/27/2010	<50.0	--	--	<1.0	2.0	<1.0	3.0	<1.0	<250
HA-13	2/10/2011	<50.0	<75.5	<377	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-13	8/12/2011	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-13	8/12/2011	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-13	2/28/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-13	8/23/2012	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-13	1/29/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-13	8/22/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-13	2/7/2014	<100	<400	<400	<1.0	1.1	<1.0	<3.0	<1.0	--
HA-14	4/14/1993	**5,300**	--	--	**400**	22	290	**1,000**	--	--
HA-14	12/15/1993	<50	--	--	<0.50	<0.50	<0.50	<1.0	--	--
HA-14	11/4/1994	180	--	--	**5**	1.8	3.9	11	--	--
HA-14	9/18/1997	324	**972**	**752**	**6.45**	1.06	7.98	9.17	--	--
HA-14	4/30/1998	**1,800**	460	<500	**210**	15	190	100	--	--
HA-14	7/29/1999	**4,700**	**1,100**	<200	**450**	38	**710**	120	--	--
HA-14	5/22/2000	**3,700**	**1,100**	**520J**	**470**	26	**760**	63	--	--
HA-14	5/22/2001	**890**	430	230J	**120**	5.5	200	10	--	--
HA-14	6/4/2002	**2,200**	**1,400**	**1,000**	**380**	16.0	470	32	--	--
HA-14	11/25/2002	**939**	<0.25	<0.5	**141**	15.7	169	48.1	--	--
HA-14	4/18/2003	**1,190**	<0.25	<0.5	**133**	8.87	228	23.7	--	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
HA-14	5/27/2003	**860**	300	220J	**91**	2.7	140	11	--	--
HA-14	6/16/2004	220J	**780**	280J	**56**	2.6	52	5	--	--
HA-14	6/21/2005	**1,200**	**660**	390J	**260**	5.8	250	18	--	--
HA-14	6/7/2006	<40	**--**	--	<0.290	<0.280	0.560J	<0.820	--	--
HA-14	10/24/2006	288	**--**	--	**12.3**	2.06	9.60	1.42J	--	--
HA-14	3/15/2007	121	187	50.1J	4.09	<0.420	4.99	0.610J	--	--
HA-14	9/11/2007	628	--	--	**92.8**	1.30	157	3.45	--	--
HA-14	6/4/2008	529	**1,150**	**1,820**	**30.1**	0.780J	67.5	1.71J	--	--
HA-14	8/27/2008	350 [1]	**513** [1,5]	**863** [1,5]	**31.5** [1]	2.25 [1]	72.1 [1]	2.63 [1]	<0.42 [1]	<74.4 [1]
HA-14	3/24/2010	**1,150**	**1,030**	**2,560**	**92**	1.4	369	6.6	<1.0	<250
HA-14	8/27/2010	**1,120**	--	--	**155**	6.0	321	3.5	<1.0	<250
HA-14	2/10/2011	231	161	<377	**12.8**	<1.0	67.3	4	<1.0	--
HA-14	5/25/2011	**2,250**	110	<380	**106**	5.6	316	12	<1.0	--
HA-14	8/12/2011	**1,890**	--	--	**159**	10.1	281	12.4	<1.0	--
HA-14	2/28/2012	<50.0 J	<77	<380	<1.0 J	<1.0 J	<1.0	<3.0	<1.0	--
HA-14	8/23/2012	198	--	--	**42.4**	2.4	13.2	5.5	<1.0	--
HA-15	1/14/2003	344	NA	NA	3.34	0.672	<0.5	2.51	--	--
HA-15	2/24/2003	**1,250**	0	<0.5	**12.9**	5.57	9.8	69.6	--	--
HA-15	3/25/2003	**910**	0	<0.5	**7.47**	1.55	1.12	3.99	--	--
HA-15	4/18/2003	658	<0.25	<0.5	**7.21**	1.88	0.716	6.47	--	--
HA-15	3/15/2004	336	1	<0.5	**5.85**	0.765	<0.5	1.34	--	--
HA-15	12/21/2004	**1,350**	<0.25	<0.5	**12.2**	0.824	3.01	2.74	--	--
HA-15 (DUP)	12/21/2004	**1,570**	<0.25	<0.5	**13.4**	0.952	4.02	3.11	--	--
HA-15	3/22/2005	<100	<0.237	<0.474	<1	<1	<1	<3	--	--
HA-15	6/24/2005	<100	<0.525(d)	<0.956	<1	<1	<1	<3	<1	--
HA-15	2/28/2006	58	<280	<96	**13**	<0.7	<0.8	<0.8	<0.5	--
HA-15	5/16/2006	58	360	<97	**16**	2.5	1.5	1.6	**50**	--
HA-15	8/17/2006	**Insufficient Groundwater to Sample**								
HA-15	11/21/2006	360	**1,400**	**670**	**320**	20	27	9	<0.5	--
HA-15	2/20/2007	**Insufficient Groundwater to Sample**								
HA-15	5/15/2007	**Insufficient Groundwater to Sample**								
HA-15	9/12/2007	**Insufficient Groundwater to Sample**								
HA-15	11/26/2007	**Insufficient Groundwater to Sample**								
HA-15	2/26/2008	340	**1,700**	**590**	**18**	0.9	3	2	<0.5	--
HA-15	2/18/2009	120	<150	<770	**19**	1.5	4.7	14	<1	<400
HA-15	8/25/2009	**Insufficient Groundwater to Sample**								
HA-15	3/24/2010	**811**	248	<392	**127**	7	34.2	68.3	<1	<250
HA-15	8/23/2010	**Insufficient Groundwater to Sample**								
HA-16	12/21/2004	**17,900**	4	2	**112**	533	272	**1,660**	--	--
HA-16	3/22/2005	**17,500**	2.89(d)	<0.488	**100**	518	253	**1,521**	--	--
HA-16	6/24/2005	**20,400**	**2,200(a)**	<0.479	**436**	760	374	**2,359**	<10	--
HA-16	7/28/2005	**6,900**	**3,400**	<940	**180**	94	80	440	<1	--
HA-16	9/20/2005	**14,000**	--	--	**620**	**1,000**	270	**1,500**	--	--
HA-16	11/30/2005	150	240	<94	**7**	8	2	13	--	--
HA-16 (DUP)	11/30/2005	**2,100**	450	<94	**19**	24	19	96	--	--
HA-16	3/1/2006	95	120	<95	**170**	1	3	11	<0.5	--
HA-16 (DUP)	3/1/2006	430	500	<95	**420**	2	13	19	<0.5	--
HA-16	5/16/2006	<48	94	95	**120**	0.6	0.4	1.7	<5	--
HA-16 (DUP)	5/16/2006	360	120	<95	**150**	1.9	2.8	12	<5	--
HA-16	8/17/2006	**Insufficient Groundwater to Sample**								
HA-16	11/21/2006	**25,000**	650	110	**2,500**	**4,200**	450	**1,400**	<3	--
HA-16	2/20/2007	**18,000**	**970**	130	**3,300**	**2,000**	560	**1,600**	<3	--
HA-16	5/15/2007	**970**	190	<96	**260**	53	47	120	<0.5	--
HA-16	9/12/2007	**2,600**	**900**	250	**510**	480	120	440	<0.5	--
HA-16	11/27/2007	**2,100**	**1,200**	<190	**250**	98	87	220	<0.5	--
HA-16	2/26/2008	240	<75	<94	**44**	3	6	20	<0.5	--
HA-16	8/26/2008	**36,000**	**2,600**	<95	**2,600**	**7,400**	550	**2,800**	<3	<250
HA-16	2/19/2009	**8,540**	**--**	--	**830**	**1,200**	250	**1,100**	<1	<400
HA-16	8/25/2009	**Insufficient Groundwater to Sample**								

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
HA-16	3/24/2010	**5,180**	119	<385	**367**	55.6	229	922	1	<250
HA-16	8/26/2010	**14,000**	347	<1,330	**1,720**	**1,730**	686	**2,400**	<1.0	<250
HA-16	2/11/2011	**5,930**	161	<377	**177**	266	129	804	<1.0	--
HA-16	5/25/2011	**4,690**	160	<460	**403**	89.7	166	647	<1.0	--
HA-16	8/15/2011	**5,070**	--	--	**553**	163	189	575	<1.0	--
HA-16	2/27/2012	513	<76	<380	**35.6**	47.7	25.4	76.5	<1.0	--
HA-16	8/24/2012	**3,730**	--	--	**763**	51.9	135	575	<1.0	--
HA-16	1/31/2013	**5,000**	**510**	<440	**539**	675	145	875	<5.0	--
HA-16	8/22/2013	**11,600**	<450	<450	**3,700**	697	311	**7,550**	<1.0	--
HA-16	2/11/2014	**9,950**	<400	<400	**872**	705	356	**1,760**	<1.0	--
HA-17	1/14/2003	548	NA	NA	**10.2**	<1.25	1.55	2.61	--	--
HA-17	5/29/2003	**2,090**	<0.25	<0.5	**50**	129	80.1	322	--	--
HA-17	11/20/2003	585	1	<0.5	**8.92**	<0.5	<0.5	<1	--	--
HA-17	3/15/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
HA-17	12/21/2004	335	<0.25	<0.5	**6.35**	<0.5	<0.5	<1	--	--
HA-17	3/22/2005	<100	<0.237	<0.473	**11.6**	<1	9.96	<3	--	--
HA-17	6/24/2005	<100	1	<0.475	1.57	<1	<1	<3	<1	--
HA-17	7/28/2005	<48	--	--	2.3	<0.2	0.3	<0.6	<0.3	--
HA-17	11/30/2005	55	450	<94	1	<1	<2	<2	--	--
HA-17	3/1/2006	<48	340	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--
HA-17	5/16/2006	<48	280	<95	0.4	<0.2	<0.2	<0.6	<5	--
HA-17	8/17/2006	**Insufficient Groundwater to Sample**								
HA-17	11/21/2006	<48	220	120	1	<0.7	<0.8	<0.8	<0.5	--
HA-17	2/20/2007	<48	**1,700**	<470	<0.5	<0.7	<0.8	<0.8	<0.5	--
HA-17	5/15/2007	<50	--	--	1	1	<0.8	<0.8	<0.5	--
HA-17	9/12/2007	**Insufficient Groundwater to Sample**								
HA-17	11/27/2007	<50	**770(p)**	<140	<0.5	<0.7	<0.8	<0.8	<0.5	--
HA-17	2/26/2008	<50	**570**	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
HA-17	2/18/2009	<50	88	<410	<1	<1	<1	<1	<1	<400
HA-17	8/25/2009	**Insufficient Groundwater to Sample**								
HA-17	3/23/2010	55	<77.7	<388	<1	<1	<1	<3	<1	<250
HA-17	8/23/2010	**Insufficient Groundwater to Sample**								
HA-18	1/14/2003	**11,400**	NA	NA	**40.3**	75.9	**810**	**2,220**	--	--
HA-18	5/29/2003	**31,000**	8	<0.5	**95**	157	**2,440**	**7,840**	--	--
HA-18	11/20/2003	**28,000**	7	<0.5	**284**	178	**1,950**	**6,400**	--	--
HA-18	12/21/2004	**4,600**	1	<0.5	**21.9**	26.8	188	440	--	--
HA-18	3/22/2005	**7,690**	1.33(d)	<0.473	**27.1**	10.2	333	578.2	--	--
HA-18	6/24/2005	**9,810**	6.83 (d)	0.594 (d)	**32.3**	12.4	439	907.3	<5	--
HA-18	7/28/2005	**8,200**	--	--	**39**	29	230	620	<1	--
HA-18	3/1/2006	780	340	<95	**72**	0.8	69	6	<0.5	--
HA-18	5/16/2006	**2,100**	**520**	<94	**40**	3.8	93	140	**<25**	--
HA-18	8/17/2006	**3,800**	**2,700**	160	**51**	9	170	250	<0.5	--
HA-18	11/21/2006	**3,400**	**2,700**	**650**	**52**	23	130	240	<0.5	--
HA-18	2/20/2007	**5,000**	**740**	180	**49**	18	230	460	<0.5	--
HA-18	5/15/2007	**Insufficient Groundwater to Sample**								
HA-18	9/12/2007	**Insufficient Groundwater to Sample**								
HA-18	11/27/2007	480	**4,700(q)**	<370	**14**	4	3	7	<0.5	--
HA-18	2/26/2008	720	**4,100**	**740**	**17**	4	34	21	<0.5	--
HA-18	2/19/2009	615	240	<400	**37**	29	36	87	<1	<400
HA-18	8/25/2009	**Insufficient Groundwater to Sample**								
HA-18	3/23/2010	**1,390**	135	<385	**98.9**	18.4	91.0	132	<1.0	<250
HA-18	8/23/2010	**Insufficient Groundwater to Sample**								
HA-19	8/25/2008	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	<50
HA-19	8/25/2009	**Insufficient Groundwater to Sample**								
HA-19	3/23/2010	**Insufficient Groundwater to Sample**								
HA-19	8/23/2010	**Insufficient Groundwater to Sample**								
HA-19	5/25/2011	**216**	<83	<420	**33.8**	13.5	2	9.1	<1.0	--
HA-19	11/21/2011	<50.0 J	<76 J	<380 J	<1.0 J	<1.0 J	<1.0 J	<3.0 J	<1.0 J	--
HA-19	5/11/2012	<100	<100	<500	<1.0	<1.0	<1.0	<3.0	<1.0	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
HA-19	11/8/2012	<100	<110	<110	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-19	5/3/2013	<100	<200	300	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-19	11/20/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-19	5/8/2014	<50	<30	<52	<0.15	<0.11	<0.16	<0.40	<0.17	--
HA-20	7/28/2005	**230,000**	**6,900**	<940	**28,000**	**47,000**	**2,900**	**16,000**	**<150**	--
HA-20	11/30/2006	**110,000**	**4,900**	<190	**19,000**	**28,000**	**1,500**	**8,500**	--	--
HA-20	8/25/2008	**18,000**	**4,300**	<940	**5,800**	**5,800**	**1,200**	**5,500**	<1	<100
HA-20	2/19/2009	292	93	<410	**67**	33	13	42	<1	<400
HA-20	8/25/2009	**18,100**	**1,300**	<390	**10,900 (8)**	**2,020 (8)**	**941**	**3,220 (8)**	<1	<250
HA-20 (DUP)	8/25/2009	**22,200**	**1,900**	180J	**12,200**	**2,750**	**1,100**	**3,790**	<1	<250
HA-20	3/24/2010	**7,070**	**2,450**	<381	**4,100**	**2,170**	109	435	<1	<250
HA-20	8/26/2010	**69,700**	**712**	<388	**14,600**	**23,100**	**932**	**4,810**	<1.0	<250
HA-20 (DUP)	8/26/2010	**56,800**	**767**	<426	**13,800**	**14,600**	**1,400**	**6,010**	<1.0	<250
HA-20	2/11/2011	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	<1.0	--
HA-20	5/25/2011	**24,000**	240	<380	**4,540**	**4,860**	302	939	<1.0	--
HA-20	8/15/2011	**8,660**	200 J	<380 J	**5,270**	**2,190**	534	**1,850**	<1.0	--
HA-20	11/18/2011	**29,600**	200	<380	**3,720**	**4,560**	592	**2,690**	<1.0	--
HA-20	2/27/2012	<50.0	<76	<380	2.2	1.9	1.2	4.7	<1.0	--
HA-20	5/16/2012	660	<76	<380	**280**	37.7	35.1	85.5	<1.0	--
HA-20	8/24/2012	**9,220** [10]	170	<400	**4,100**	**964**	378	**1,470**	<1.0	--
HA-20	11/9/2012	**4,440**	**920**	<110	**1,360**	224	179	638	<1.0	--
HA-20	2/4/2013	320	<430	<430	**130**	1.5	1.8	70.1	<1.0	--
HA-20	5/3/2013	**2,740**	<200	250	**53.6**	11.8	<2.0	540	<2.0	--
HA-20	8/22/2013	**2,760**	**850**	<420	**3,850**	134	129	666	<5.0	--
HA-20	11/20/2013	**921**	<400	<400	**508 J**	46	42	111	<2.0	--
HA-20	2/11/2014	**13,800**	**600**	440	**3,910**	**1,550**	470	**2,190**	<10.0	--
HA-20	5/6/2014	<50	<48	<28	5.9	<0.11	<0.16	<0.40	<0.17	--
LAI-1	1/15/2003	**4,120**	--	--	**728**	935	23	120	--	--
LAI-1	2/26/2003	**15,100**	1	<0.5	**2,150**	**3,680**	116	979	--	--
LAI-1	3/24/2003	**47,500**	1	<0.5	**7,970**	**15,000**	739	**4,250**	--	--
LAI-1	3/1/2006	**190,000**	**860**	<190	**4,500**	**41,000**	**2,800**	**16,000**	<13	--
LAI-1	5/17/2006	**270,000**	**1,400**	<470	**10,000**	**56,000**	**3,300**	**21,000**	**<200**	--
LAI-1	8/16/2006	**130,000**	**2,800**	240	**11,000**	**23,000**	**3,000**	**14,000**	**<50**	--
LAI-1	11/20/2006	**11,000**	**880**	<95	**1,900**	25	400	**1,300**	<1	--
LAI-1	2/19/2007	**260,000**	**2,900**	<470	**13,000**	**58,000**	**3,200**	**19,000**	**<25**	--
LAI-1	5/14/2007	**290,000**	**3,200**	<480	**9,000**	**60,000**	**2,200**	**16,000**	**<**	--
LAI-1	9/11/2007	**21,000**	**510**	<94	**1,300**	680	440	**2,500**	<1	--
LAI-1	11/26/2007	**2,300**	310	<99	**1,100**	10	130	410	<0.5	--
LAI-1	2/26/2008	**23,000**	**2,400**	<95	**160**	190	**1,100**	**4,300**	<1	--
LAI-1	8/26/2008	**4,400**	450	<95	**12**	4	300	560	<0.5	<50
LAI-1 (DUP)	8/26/2008	**4,300**	**520**	<95	**12**	5	200	360	<0.5	<50
LAI-1	2/19/2009	**93,900**	**600**	<410	**470**	**19,000**	**1,500**	**9,800**	<1	<400
LAI-1	8/25/2009	**73,300**	**2,000**	140 J	**358**	**1,330**	277	**1,700**	<1.0 (9)	<250
LAI-1	3/23/2010	**114,000**	**800**	<381	**2,610**	**19,300**	**4,190**	**23,200**	<1.0	<250
LAI-1	8/24/2010	**57,700**	**812**	<388	**2,040**	**3,150**	187	**17,700**	<1.0	<250
LAI-1	2/9/2011	**59,300**	**692**	<388	**689**	**6,530**	**1,960**	**9,420**	<1.0	--
LAI-1	5/16/2011	**40,200 J**	**650**	<380	**615 J**	**887 J**	**1,620 J**	**6,420 J**	<1.0 J	--
LAI-1 (DUP)	5/16/2011	**41,400 J**	**650**	<380	**580 J**	**919 J**	**1,770 J**	**6,920 J**	<1.0 J	--
LAI-1	8/9/2011	**30,700 J**	**530**	<400	**1,370 J**	303 J	**1,620 J**	**6,680 J**	<1.0	--
LAI-1	2/27/2012	**53,000**	460	<380	**987**	**6,680**	**2,140**	**9,280**	<1.0	--
LAI-1	9/4/2012	**19,100** [10]	**600**	<400	**551**	130	**735**	**3,520**	<1.0	--
LAI-1	2/5/2013	**24,000**	**1,300**	<430	**79.6**	**2,320**	**933**	**5,600**	<10.0	--
LAI-1	8/14/2013	**54,600**	**2,800**	<420	**324**	691	**1,160**	**10,100**	<5.0	--
LAI-1 (DUP)	8/14/2013	**49,900**	**3,200**	<420	**404**	601	**1,080**	**9,750**	<5.0	--
LAI-1	2/12/2014	**88,200**	**860**	<400	**995**	**4,430**	**2,770**	**3,580**	<1.0	--
LAI-2	1/15/2003	73	--	--	2.78	2.2	1.1	9.33	--	--
LAI-2 (DUP)	1/15/2003	103	--	--	3.39	3.36	1.68	15.1	--	--
LAI-2	5/29/2003	**18,100**	<0.25	<0.5	**2,940**	**6,100**	235	**1,680**	--	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
LAI-2 (DUP)	5/29/2003	**18,800**	0	<0.5	**2,840**	**6,320**	235	**1,680**	--	--
LAI-2	8/11/2003	**8,950**	1	<0.562	**1,880**	**2,150**	135	907	--	--
LAI-2 (DUP)	8/11/2003	**6,620**	1	<0.5	**1,750**	**1,340**	104	678	--	--
LAI-2	11/20/2003	**1,330**	0	<0.5	**580**	1.98	35.3	235	--	--
LAI-2	3/16/2004	**120,000**	2	<0.5	**23,600**	**27,700**	**2,370**	**11,300**	--	--
LAI-2	6/22/2004	**17,600**	0	<0.5	**4,390**	53.3	**889**	**1,190**	--	--
LAI-2 (DUP)	6/22/2004	**20,400**	<0.25	<0.5	**4,960**	51.4	**1,020**	**1,340**	--	--
LAI-2	9/22/2004	**6,150**	1	<0.5	**1,070**	4.87	672	234	--	--
LAI-2 (DUP)	9/22/2004	**6,020**	1	<0.5	**1,070**	4.37	673	187	--	--
LAI-2	12/21/2004	**9,920**	<0.25	<0.5	**2,080**	<25	**875**	552	--	--
LAI-2	3/21/2005	**22,900**	1	<0.498	**7,720**	**2,970**	**1,380**	**2,208**	--	--
LAI-2	6/23/2005	**123,000**	**4,150**	<0.473	**21,700**	**40,300**	**2,260**	**10,180**	**<200**	--
LAI-2	7/29/2005	**170,000**	**1,400**	<190	**18,000**	**28,000**	**3,100**	**15,000**	**30**	--
LAIx-2	9/21/2005	**32,000**	**1,400**	<94	**5,500**	**3,300**	**1,100**	**5,600**	--	--
LAIx-2	12/1/2005	**8,700**	**730**	<94	**1,700**	230	330	**1,300**	--	--
LAIx-2 (DUP)	12/1/2005	**8,700**	**830**	<95	**1,900**	100	370	**1,400**	--	--
LAIx-2	3/1/2006	**120,000**	**1,200**	<190	**13,000**	**24,000**	**1,500**	**8,500**	<10	--
LAIx-2 (DUP)	3/1/2006	**97,000**	**1,400**	<190	**12,000**	**15,000**	**1,600**	**8,100**	<10	--
LAIx-2	5/17/2006	**160,000**	**2,200**	<470	**21,000**	**32,000**	**2,800**	**14,000**	**<200**	--
LAIx-2 (DUP)	5/17/2006	**160,000**	**2,400**	<470	**21,000**	**31,000**	**2,900**	**14,000**	**<200**	--
LAIx-2	8/16/2006	**87,000**	**4,200**	<1900	**14,000**	**19,000**	**1,600**	**11,000**	<5	--
LAIx-2	11/20/2006	**20,000**	**810**	<94	**2,200**	**1,500**	590	**2,300**	<1	--
LAIx-2	2/19/2007	**150,000**	**2,600**	<190	**18,000**	**32,000**	**2,700**	**11,000**	**<25**	--
LAIx-2	5/14/2007	**180,000**	**4,600**	<970	**19,000**	**33,000**	**2,200**	**11,000**	**<25**	--
LAIx-2	9/11/2007	**17,000**	**1,800**	150	**2,400**	470	680	**2,600**	<1	--
LAIx-2(u)	11/26/2007	**8,500**	380	<94	**800**	46	470	**1,200**	<0.5	--
LAIx-2	2/26/2008	780	<75	<94	**9**	1	26	70	<0.5	--
LAIx-2	8/26/2008	**6,600**	**1,400**	<95	**350**	330	330	970	<2	<200
LAIx-2	2/19/2009	**29,500**	320	<410	**2,300**	**5,600**	**980**	**2,800**	**<100**	<400
LAIx-2	8/25/2009	**9,530**	**950**	110J	**3,710**	37.8	**990**	**1,330**	<1	<250
LAIx-2	3/23/2010	**7,400**	166	<381	**1,570**	698	661	**1,290**	<1.0	<250
LAIx-2	8/24/2010	**51,100**	453	<385	**7,600**	**12,100**	155	**7,910**	<1.0	<250
LAIx-2	2/8/2011	**66,400**	487J	<385	**6,780**	**13,000**	**1,350**	**4,240**	<1.0	--
LAIx-2	5/16/2011	**24,200 J**	290	<380	**2,500 J**	**3,630 J**	**851 J**	**2,140 J**	<1.0 J	--
LAIx-2	8/9/2011	**21,800 J**	480	<390	**3,700 J**	**1,810 J**	**1,080 J**	**3,680 J**	<1.0	--
LAIx-2	2/27/2012	**34,600**	200	<380	**3,220**	**6,960**	**1,260**	**3,890**	<1.0	--
LAIx-2	9/4/2012	**48,300** [10]	**700**	<400	**7,030**	**4,090**	**2,100**	**7,110**	<1.0	--
LAIx-2	2/5/2013	**3,830**	<460	<460	**236**	76.6	257	747	<2.0	--
LAIx-2	8/14/2013	**49,500**	**2,900**	<400	**5,000**	**3,740**	**1,420**	**7,030**	<20.0	--
LAIx-2	2/13/2014	**67,400**	**1,400**	<400	**5,540**	**9,610**	**1,710**	**8,140**	<1.0	--
LAI-3	1/15/2003	67	--	--	0.5	3.19	1.36	8.45	--	--
LAI-3	2/26/2003	558	0.25	0.50	**70.1**	159	6.42	32.6	--	--
LAI-3	3/25/2003	573	0.25	0.50	**61.6**	176	8.43	39.5	--	--
LAI-3	4/17/2003	154	0.25	0.50	**7.56**	24.5	4	29.4	--	--
LAI-3	5/29/2003	301	0.25	0.50	**151**	40.7	0.951	4.63	--	--
LAI-3	8/11/2003	985	0.25	0.50	**329**	18.4	2.47	7.27	--	--
LAI-3	11/20/2003	50	0.25	0.50	**9.2**	0.5	0.5	1	--	--
LAI-3	3/16/2004	4,670	0.27	0.50	**2,030**	94.9	113	225	--	--
LAI-3	6/22/2004	2,880	0.25	0.50	**1,580**	5	50.7	69.4	--	--
LAI-3	9/22/2004	424	0.43	0.56	**60.7**	5	82.1	2.05	--	--
LAI-3	12/21/2004	62	0.25	0.50	0.542	0.5	2.31	1	--	--
LAI-3	3/21/2005	100	0.24	0.47	1	1	1	3	--	--
LAI-3	6/23/2005	**2,200**	0.748 (a)	0.47	**2,360**	119	184	200.4	**20**	--
LAI-3	7/29/2005	**34,000**	**690**	160	**5,300**	**6,300**	690	**2,500**	7.5	--
LAIx-3	9/21/2005	**23,000**	**1,400**	94	**3,800**	**4,200**	450	**3,100**	--	--
LAIx-3	11/30/2005	**43,000**	**1,500**	<96	**8,200**	**9,200**	400	**5,300**	--	--
LAIx-3 (DUP)	12/1/2005	**45,000**	**1,800**	<94	**9,000**	**8,700**	350	**5,200**	--	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
LAIx-3	3/1/2006	**130,000**	**3,500**	<970	**18,000**	**26,000**	**1,800**	**10,000**	<10	--
LAIx-3 (DUP)	3/1/2006	**100,000**	**3,200**	<950	**16,000**	**13,000**	**1,700**	**9,500**	<10	--
LAIx-3	5/17/2006	**130,000**	**3,500**	<950	**19,000**	**24,000**	**2,300**	**12,000**		--
LAIx-3 (DUP)	5/17/2006	**110,000**	**3,300**	<470	**16,000**	**18,000**	**2,100**	**10,000**	**<30**	--
LAIx-3	8/16/2006	**20,000**	**3,900**	<480	**2,200**	**2,900**	470	**2,600**	<0.5	--
LAIx-3	11/20/2006	**13,000**	**910**	<95	**2,400**	550	490	**1,500**	<1	--
LAIx-3	2/19/2007	**120,000**	**2,700**	<94	**21,000**	**21,000**	**2,500**	**9,700**	**<25**	--
LAIx-3	5/14/2007	**150,000**	**4,300**	<960	**25,000**	**26,000**	**2,100**	**9,700**	**<25**	--
LAIx-3	9/11/2007	**14,000**	**1,800**	160	**1,700**	690	450	**1,600**	<0.5	--
LAIx-3(v)	11/26/2007	**10,000**	**850**	<94	**1,600**	22	560	**1,100**	<1	--
LAIx-3	2/26/2008	**1,500**	110	<95	**18**	<0.7	46	52	<0.5	--
LAIx-3	8/26/2008	**3,800**	**1,000**	130	**310**	450	160	290	<3	<250
LAIx-3	2/19/2009	**12,400**	420	<410	**4,100**	620	**990**	**1,600**	**<100**	<400
LAIx-3	8/25/2009	**4,450**	**790**	95J	**3,660**	10.3	**719**	310	<1	<250
LAIx-3	3/23/2010	**30,000**	342	<381	**8,030**	**8,190**	**1,540**	**5,040**	<1.0	<250
LAIx-3	8/24/2010	**24,800**	420	<430	**8,640**	**4,130**	**1,400**	**4,840**	<1.0	<250
LAIx-3	2/8/2011	**18,100**	292J	<385	**3,070**	**2,720**	**767**	**2,440**	<1.0	--
LAIx-3	5/16/2011	**59,800**	630	<380	**8,230**	**12,700**	**1,790**	**7,590**	<50.0	--
LAIx-3 (DUP)	5/16/2011	**61,800 J**	620	<380	**8,260 J**	**12,800 J**	**1,810 J**	**7,710 J**	<50.0 J	--
LAIx-3	8/10/2011	**9,510**	290	<400	**3,050 J**	72.1	534	**1,250**	<1.0	--
LAIx-3 (DUP)	8/10/2011	**9,600**	290	<390	**3,010 J**	68.4	542	**1,280**	<1.0	--
LAIx-3	11/15/2011	**8,690 J**	<75	<380	**2,020**	16.5	508	**1,000**	<1.0	--
LAIx-3	2/28/2012	**71,300**	**750**	<380	**6,250**	**6,140**	**1,750**	**5,850**	<1.0 J	--
LAIx-3	5/8/2012	**33,500**	**620**	<380	**7,960**	**6,160**	**1,520**	**5,780**	<5.0	--
LAIx-3	9/4/2012	**31,700** [10]	**690**	<390	**7,850**	141	**1,800**	**5,440**	<1.0	--
LAIx-3	11/13/2012	**985**	180	<110	**97.1**	<1.0	111	229	<1.0	--
LAIx-3	2/5/2013	**1,860**	<450	<450	**217**	1.3	258	152	<1.0	--
LAIx-3	5/1/2013	**4,840**	490	<500	**1,580**	302	469	592	<10.0	--
LAIx-3	8/14/2013	**14,100**	**1,200**	<400	**6,260**	23.8 J	**1,040**	**1,800**	<20.0	--
LAIx-3	11/22/2013	**12,100**	**940 J**	<400	**6,100**	55.5	**839**	**1,430**	<1.0	--
LAIx-3	2/13/2014	**47,600**	**1,400**	<400	**8,840**	**3,540**	**1,780**	**6,350**	<20.0	--
LAIx-3	4/30/2014	**55,900**	**800**	<28	**10,100**	**7,060**	**1,590**	**6,410**	<8.4	--
LAIx-3 (DUP)	4/30/2014	**55,800**	**930**	<29	**9,760**	**6,830**	**1,510**	**6,060**	<8.4	--
LAIx-4	8/26/2008	**9,900**	--	--	**2,200**	180	270	**1,400**	<1	<100
LAIx-5	11/29/2005	**180,000**	**13,000**	**570**	**42,000**	**49,000**	**2,300**	**12,000**	--	--
LAIx-5	8/26/2008	**220,000**	**3,900**	<480	**31,000**	**45,000**	**3,600**	**19,000**	<50	<5000
LAIX-5	2/17/2017	**2,620**	<390	<390	**32.3**	57.0	37.0	433	---	---
LAIX-5	9/28/2017	**29,200**	**1,900**	<430	**9,600**	174	**1,020**	**6,400**	---	---
LAIx-6	11/29/2005	**70,000**	**9,700**	**600**	**22,000**	**22,000**	**850**	**4,300**	--	--
LAIx-6	8/26/2008	**190,000**	**6,300**	<950	**31,000**	**45,000**	**3,200**	**16,000**	<25	<2500
LAIX-6	2/17/2017	**38,900**	**1,200**	<410	**4,440**	**6,740**	510	**3,070**	---	---
LAIX-6	2/17/2017	**43,700**	**930**	<390	**5,090**	**6,890**	561	**3,410**	---	---
LAIX-6	9/28/2017	**134,000**	**3,200**	<400	**28,700**	**26,600**	**2,570**	**14,700**	---	---
LAI-7	7/28/2005	**160,000**	**17,000**	<4700	**160,000**	**32,000**	**2,500**	**14,000**	**<30**	--
LAIx-7	9/21/2005	**220,000**	**7,100**	<950	**43,000**	**55,000**	**4,300**	**21,000**	--	--
LAIx-7	8/27/2008	**79,000**	**4,200**	<480	**12,000**	**27,000**	**2,200**	**11,000**	<13	<1300
LAIx-8	9/21/2005	**140,000**	**6,400**	<940	**29,000**	**33,000**	**3,300**	**15,000**	--	--
LAIx-8	11/29/2005	**130,000**	**5,100**	<190	**33,000**	**35,000**	**2,900**	**14,000**	--	--
LAIx-8	8/26/2008	**180,000**	**7,300**	<2000	**28,000**	**40,000**	**3,300**	**16,000**	<10	<1000
LAIx-9	11/29/2005	**110,000**	**8,300**	<950	**37,000**	**45,000**	**2,600**	**21,000**	--	
LAIx-9	8/27/2008	**140,000**	**3,800**	<490	**17,000**	**32,000**	**2,600**	**15,000**	<10	<1000
LAI-10	2/26/2003	<50	<0.25	<0.5	<0.5	0.991	<0.5	1.37	--	--
LAI-10 (DUP)	2/26/2003	<50	<0.25	<0.5	<0.5	0.757	<0.5	1.18	--	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
LAI-10	3/24/2003	<50	<0.25	<0.5	1.35	2.67	<0.5	1.36	--	--
LAI-10	4/17/2003	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-10	5/28/2003	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-10	8/11/2003	<50	<0.25	<0.5	<0.5	1.75	0.757	4.54	--	--
LAI-10	11/20/2003	<50	2	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-10	3/16/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-10	6/22/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-10	9/22/2004	<50	0	<0.5	<0.5	0.666	<0.5	<1	--	--
LAI-10	12/21/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-10	3/21/2005	<100	<0.238	<0.475	<1	<1	<1	<3	--	--
LAI-10	6/23/2005	<100	<0.237	<0.474	3.52	<1	<1	<1	<1	--
LAI-10	7/29/2005	<48	<76	<95	**23**	0.3	<0.2	<0.6	<0.3	--
LAI-10	9/20/2005	<48	<75	94	**32**	2	0.5	2.8	--	--
LAI-10	12/1/2005	<48	200	<95	<0.5	<0.7	<0.8	<0.8	--	--
LAI-10 (DUP)	11/28/2005	<48	**520**	220	<0.5	1	<0.8	<0.8	--	--
LAI-10	2/28/2006	<48	<77	<96	<0.5	4	<0.8	<0.8	<0.5	--
LAI-10 (DUP)	3/1/2006	<48	88	<95	<0.5	10	<0.8	<0.8	<0.5	--
LAI-10	5/17/2006	<48	<75	<94	<0.2	3.4	<0.2	<0.6	<0.3	--
LAI-10 (DUP)	5/17/2006	<48	<75	<120	0.6	4.5	<0.2	<1	<0.3	--
LAI-10	8/16/2006	<48	<76	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-10	11/20/2006	<48	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-10	2/19/2007	<48	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-10	5/14/2007	<50	<78	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-10	9/11/2007	<50	98	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-10	11/26/2007	<250	<76	<95	**<5**	<7	<8	<8	<5	--
LAI-10	2/26/2008	140	<75	<94	**12**	1	4	12	<0.5	--
LAI-10	8/26/2008	<50	<76	<96	<0.5	<0.7	<0.8	<0.8	<0.5	<50
LAI-10	2/18/2009	<50	<82	<410	<1	<1	<1	<1	<1	<400
LAI-10	8/25/2009	<50	<77	<380	<1	<1	<1	<3	<1	<250
LAI-10	3/23/2010	<50	<76.2	<381	<1	<1	<1	<3	<1	<250
LAI-10	8/24/2010	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	<1.0	<250
LAI-10	2/9/2011	<50.0	<76.2	<381	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-10	5/17/2011	<50.0 J	<75	<380	<1.0 J	<1.0 J	<1.0 J	<3.0 J	<1.0 J	--
LAI-10	8/9/2011	<50.0	<80	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-10	11/15/2011	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-10	2/27/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-10	5/8/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-10	9/4/2012	96.4	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-10	11/13/2012	<100	<100	<100	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-10	2/5/2013	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-10	5/1/2013	<100	<200	<450	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-10	8/14/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-10	11/22/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-10	2/12/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-10	4/30/2014	<50	<48	<28	<0.15	<0.11	<0.16	<0.40	<0.17	--
LAI-11	2/26/2003	<50	0.40	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-11	3/24/2003	<50	0.43	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-11	4/17/2003	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-11	5/28/2003	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-11	11/20/2003	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-11	3/16/2004	<50	<0.25	<0.5	<0.5	0.634	<0.5	<1	--	--
LAI-11	6/22/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-11	9/22/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-11	12/21/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-11	3/21/2005	<100	<0.236	<0.473	<1	1	<1	<3	--	--
LAI-11	6/23/2005	<100	<0.237	<0.474	**222**	1.11	2.82	19.2	<1	--
LAI-11	7/29/2005	<48	<76	<95	**55**	0.5	4.2	3.2	<0.3	--
LAI-11	9/20/2005	<48	95	<94	**32**	2	0.5	2.8	--	--
LAI-11	12/1/2005	<48	110	<94	**15**	<0.7	0.9	3	--	--
LAI-11	2/27/2006	<48	81	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
LAI-11	5/17/2006	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	<0.3	--
LAI-11	8/16/2006	<48	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-11	11/20/2006	<48	**760**	190	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-11	2/19/2007	<48	110	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-11	5/14/2007	<50	160	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-11	9/11/2007	<50	190	<95	**55**	<0.7	<0.8	<0.5	<0.5	--
LAI-11	11/26/2007	<50	170	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-11	2/26/2008	<50	<75	<94	**14**	<0.7	<0.8	<0.8	<0.5	--
LAI-11	8/26/2008	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<50
LAI-11	2/18/2009	<50	<82	<410	<1	<1	<1	<1	<1	<400
LAI-11	8/25/2009	<50	38J	<380	<1	<1	<1	<3	<1	<250
LAI-11	3/23/2010	<50	<76.2	<381	<1	<1	<1	<3	<1	<250
LAI-11	8/24/2010	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	<1.0	<250
LAI-11	2/9/2011	117	<76.2	<381	<1.0	13.1	<1.0	<3.0	<1.0	--
LAI-11	8/9/2011	<50.0	<90	<450	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-11	2/27/2012	<50.0	<75	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-11	9/4/2012	90.3	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-11	2/5/2013	<100	<440	<440	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-11	8/14/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-11	2/12/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-12	5/28/2003	<50	<0.25	<0.5	<0.5	<0.5	<0.5	1.81	--	--
LAI-12	8/11/2003	<50	0	<0.5	<0.5	<0.5	<0.5	2.21	--	--
LAI-12	11/20/2003	61	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-12	3/16/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-12	6/22/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-12	9/22/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-12	12/21/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-12	3/21/2005	<100	<0.242	<0.485	<1	<1	<1	<3	--	--
LAI-12	6/23/2005	<100	0.606 (b)	<0.476	<1	<1	<1	<3	<1	--
LAI-12	7/29/2005	<48	430	<95	<0.2	<0.2	<0.2	<0.6	<0.3	--
LAI-12	9/20/2005	<48	**1,300**	<320	1.6	3.9	<0.5	2.7	--	--
LAI-12	12/1/2005	<48	300	100	<0.5	<0.7	<0.8	<0.8	--	--
LAI-12	2/27/2006	<48	78	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-12	5/17/2006	<48	410	<94	<0.2	<0.2	<0.2	<0.6	<0.3	--
LAI-12	8/17/2006	<48	**1,200**	130	<0.5	1	<0.8	<0.8	<0.5	--
LAI-12	11/20/2006	<48	**600**	120	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-12	2/19/2007	<48	**530**	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-12	5/14/2007	<50	**810**	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-12	9/11/2007	99	**1,100**	140	**16**	9	<2	9	<0.5	--
LAI-12	11/26/2007	<50	**620**	<95	0.7	<0.7	<0.8	3	<0.5	--
LAI-12	2/26/2008	<50	84	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-12	8/26/2008	<50	260	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<50
LAI-12	2/18/2009	<50	<82	<410	<1	<1	<1	<1	<1	<400
LAI-12	8/25/2009	<50	53J	<380	<1	<1	<1	<3	<1	<250
LAI-12	3/23/2010	<50	<76.2	<381	<1	<1	<1	<3	<1	<250
LAI-12	8/24/2010	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	<1.0	<250
LAI-12	2/9/2011	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-12	5/17/2011	<50.0 J	<75	<380	<1.0 J	<1.0 J	<1.0 J	<3.0 J	<1.0 J	--
LAI-12	8/9/2011	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-12	11/16/2011	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-12	2/27/2012	<50.0	<75	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-12	5/8/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-12	9/4/2012	<50.0	<81	<400	<1.0	1.7	1.4	8.9	<1.0	--
LAI-12	11/13/2012	<100	<110	<110	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-12	2/5/2013	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-12	5/1/2013	<100	<200	<390	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-12	8/14/2013	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-12	11/22/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-12	2/12/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-12	4/30/2014	<50	<50	<29	<0.15	<0.11	<0.16	<0.40	<0.17	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
LAI-13	5/28/2003	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-13	8/11/2003	<50	<0.25	<0.5	<0.5	0.647	<0.5	<1	--	--
LAI-13	11/20/2003	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-13	3/15/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-13	6/22/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-13	9/21/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-13	12/21/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-13	3/21/2005	<100	<0.237	<0.473	<1	<1	<1	<3	--	--
LAI-13	6/23/2005	<100	<0.236	<0.472	<1	<1	<1	<3	<1	--
LAI-13	7/29/2005	<48	<77	<120	<0.2	<0.2	<0.2	<0.6	<0.3	--
LAI-13	9/20/2005	<48	<75	<93	<0.5	<0.5	<0.5	<1.5	--	--
LAI-13	12/1/2005	<48	<75	<94	<0.5	<0.7	<0.8	<0.8	--	--
LAI-13	2/27/2006	<48	<78	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-13	5/16/2006	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	<0.3	--
LAI-13	8/16/2006	<84	<75	<94	<0.5	3	<0.8	<6	<0.5	--
LAI-13	11/21/2006	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-13	2/20/2007	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-13	5/15/2007	<50	<78	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-13	9/11/2007	<50	240	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-13	11/26/2007	<50	180	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-13	2/26/2008	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-13	8/25/2008	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<50
LAI-13	2/18/2009	<50	<82	<410	<1	<1	<1	<1	<1	<400
LAI-13	8/25/2009	<50	59J	<510	<1	<1	<1	<3	<1	<250
LAI-13	3/22/2010	<50	<76.2	<381	<1	<1	<1	<3	<1	<250
LAI-13	8/24/2010	<50.0	<78.4	<392	<1.0	<1.0	<1.0	<3.0	<1.0	<250
LAI-13	2/10/2011	<50.0	<75.8	<379	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-13	8/11/2011	<50.0	<75	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-13	2/21/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-13	8/28/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-13	1/30/2013	<100	<470	<470	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-13	8/15/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-13	2/5/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-14	2/25/2003	50	0.27	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-14	3/25/2003	66	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-14	4/18/2003	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-14	5/28/2003	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-14	8/11/2003	<50	0.28	<0.5	<0.5	0.631	<0.5	<1	--	--
LAI-14	11/20/2003	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-14	3/15/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-14	6/22/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-14	9/21/2004	<50	0	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-14	12/21/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-14	3/21/2005	<100	<0.237	<0.473	<1	1.45	<1	<3	--	--
LAI-14	6/23/2005	<100	0.26	<0.475	<1	<1	<1	<3	<1	--
LAI-14	7/29/2005	57	140	190	0.2	<0.2	<0.2	<0.6	<0.3	--
LAI-14	9/21/2005	<48	--	--	<0.5	<0.5	<0.5	<1.5	--	--
LAI-14	12/1/2005	<48	<75	<94	<0.5	<0.7	<0.8	<0.8	--	--
LAI-14	2/27/2006	55	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-14	5/16/2006	<48	<77	<97	<0.2	<0.2	<0.2	<0.6	<0.3	--
LAI-14	8/16/2006	72	<77	<97	<0.5	1	<0.8	2	<0.5	--
LAI-14	11/21/2006	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-14	2/20/2007	<48	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-14	5/15/2007	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-14	9/11/2007	<50	<76	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-14	11/26/2007	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-14	2/26/2008	<50	<75	<93	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-14	8/25/2008	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	<50
LAI-14	2/18/2009	<50	<83	<410	<1	<1	<1	<1	<1	<400

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
LAI-14	8/25/2009	<50	<150	<750	<1	<1	<1	<3	<1	<250
LAI-14	3/22/2010	<50	<75.5	<377	<1	<1	<1	<3	<1	<250
LAI-14	8/24/2010	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	<1.0	<250
LAI-14	2/10/2011	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-14	8/11/2011	<50.0	<75	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-14	2/21/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-14	8/28/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-14	1/30/2013	<100	<450	<450	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-14	8/15/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-14	2/5/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-14	8/12/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-14	11/25/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-14	2/13/2015	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	---
LAI-15	5/28/2003	104	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-15	8/11/2003	158	0.33	<0.5	<0.5	0.641	<0.5	1.95	--	--
LAI-15	11/20/2003	54	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-15	3/15/2004	154	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-15	6/22/2004	135	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-15	9/21/2004	92	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-15	12/21/2004	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-15	3/21/2005	<100	<0.237	<0.473	<1	<1	<1	<3	--	--
LAI-15	6/23/2005	<100	<0.237	<0.473	<1	<1	<1	<3	<1	--
LAI-15	7/29/2005	76	<800	<1000	<0.2	0.3	<0.2	<0.6		--
LAI-15	9/21/2005	100	<75	<94	<0.5	<0.5	<0.5	<1.5	--	--
LAI-15	12/1/2005	67	<75	<94	<0.5	<0.7	<0.8	<0.8	--	--
LAI-15 (DUP)	11/28/2005	92	110	<94	<0.5	<0.7	<0.8	<0.8	--	--
LAI-15	2/27/2006	77	<77	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-15 (DUP)	3/1/2006	90	<76	<95	<0.5	0.8	0.8	<0.8	<0.5	--
LAI-15	5/16/2006	98	<76	<95	<0.2	<0.2	<0.2	<0.6	<0.3	--
LAI-15 (DUP)	5/17/2006	97	<76	<95	0.4	1	<0.2	<0.6	<0.3	--
LAI-15	8/16/2006	85	<75	<93	<0.5	1	<0.8	1	<0.5	--
LAI-15	11/21/2006	50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-15	2/20/2007	75	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-15	5/15/2007	83	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-15	9/11/2007	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-15	11/26/2007	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-15	2/26/2008	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
LAI-15	8/25/2008	56	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<50
LAI-15	2/18/2009	<50	<83	<410	<1	<1	<1	<1	<1	<400
LAI-15	8/25/2009	32.2J	<76	<380	<1	<1	<1	<3	<1	<250
LAI-15	3/22/2010	<50	<75.5	<377	<1	<1	<1	<3	<1	<250
LAI-15	8/24/2010	61	<77.3	<386	<1.0	<1.0	<1.0	<3.0	<1.0	<250
LAI-15	2/9/2011	57.3	<76.9	<385	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-15	5/24/2011	248	<75	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-15	8/11/2011	90.4	<75	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-15 (DUP)	8/11/2011	73.9	<75	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-15	2/21/2012	<50.0	<75	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-15	8/28/2012	56.4	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-15	1/30/2013	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-15	8/15/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-15	2/5/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-16	2/25/2003	<50	<0.25	<0.5	<0.5	0.679	<0.5	1.09	--	--
LAI-16	3/25/2003	<50	0.29	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-16 (DUP)	3/25/2003	<50	0.33	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-16	4/17/2003	<50	<0.25	<0.5	3.51	<0.5	<0.5	<1	--	--
LAI-16	5/28/2003	705	<0.25	<0.5	**523**	14.9	<1	2.25	--	--
LAI-16	11/21/2003	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-16 (DUP)	11/21/2003	<50	<0.25	<0.5	<0.5	<0.5	<0.5	<1	--	--
LAI-16	3/16/2004	<50	<0.25	<0.5	2.7	0.796	<0.5	<1	--	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
LAI-16 (DUP)	3/16/2004	<50	<0.25	<0.5	4.76	0.63	<0.5	<1	--	--
LAI-16	6/22/2004	<50	<0.25	<0.5	**8.52**	<0.5	<0.5	<1	--	--
LAI-16	12/21/2004	<50	<0.25	<0.5	<0.5	0.667	<0.5	<1	--	--
LAI-16	3/21/2005	<100	<0.236	<0.471	<1	6.08	<1	<3	--	--
LAI-16	6/23/2005	<100	<0.384 (d)	<0.473	<1	<1	<1	<3	<1	--
LAI-16	9/21/2005	**Insufficient Groundwater to Sample**								
LAI-16	12/1/2005	<48	140	98	<0.5	<0.7	<0.8	<0.8	--	--
LAI-16	3/1/2006	<48	160	<95	**21**	<0.7	<0.8	<0.8	<0.5	--
LAI-16	5/17/2006	<48	78	<94	1.8	0.3	<0.2	<0.6	<0.3	--
LAI-16	8/16/2006	**Insufficient Groundwater to Sample**								
LAI-16	11/20/2006	<48	91	<95	<0.5	0.8	<0.8	1	<0.5	--
LAI-16	2/19/2007	<48	120	<94	**17**	<0.7	<0.8	<0.8	<0.5	--
LAI-16	5/14/2007	<50	--	--	0.7	<0.7	<0.8	<0.8	<0.5	--
LAI-16	9/11/2007	**Insufficient Groundwater to Sample**								
LAI-16	11/26/2007	**Insufficient Groundwater to Sample**								
LAI-16	2/26/2008	310	300	<94	**64**	6	11	20	<0.5	--
LAI-16	2/19/2009	<50	<82	<410	<1	<1	1	1	<1	<400
LAI-16	8/25/2009	**Insufficient Groundwater to Sample**								
LAI-16	3/23/2010	<50	<75.5	<377	<1	<1	<1	<3	<1	<250
LAI-16	8/26/2010	**Insufficient Groundwater to Sample**								
LAI-16	5/16/2011	<50 J	<75	<380	<1 J	<1 J	<1 J	<3 J	<1 J	--
LAI-16	3/1/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
LAI-16	2/8/2013	<100	<430	<430	<1.0	<1.0	<1.0	<3.0	<1.0	--
RW-1	11/30/2005	55	<75	<94	1	6	<0.8	4	--	--
RW-1	8/25/2008	<50	<78	<97	<0.5	<0.7	<0.8	<0.8	<0.5	<50
RW-1	2/18/2009	<50	<80	<400	<1	<1	<1	<1	<1	<400
RW-1	8/25/2009	**Insufficient Groundwater to Sample**								
RW-1	3/23/2010	<50	<78.4	<392	<1	<1	<1	<3	<1	<250
RW-1	8/23/2010	**Insufficient Groundwater to Sample**								
RWx-2	9/20/2005	**130,000**	**3,000**	<470	**16,000**	**30,000**	**2,200**	**12,000**	--	--
RWx-2	8/26/2008	**100,000**	**610**	<96	**1,600**	**16,000**	**1,600**	**9,700**	<1	<100
RWx-2 (DUP)	8/27/2008	**62,000**	**5,600**	<970	**180**	**5,500**	**1,100**	**9,800**	<3	<250
RWX-2	11/18/2016	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	---	---
RWX-2	2/17/2017	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
RWX-2	5/26/2017	<100	<410	<410	<1.0	2.2	1.4	3.2	---	---
RWX-2	9/28/2017	**28,000**	**1,100**	<380	**2,210**	**7,340 J**	416	**2,180**	---	---
RWX-2	12/14/2017	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
RWX-2	3/2/2018	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	---	---
RW-3	7/28/2005	**79,000**	**57,000**	**4,700**	**1,400**	**8,700**	**1,300**	**8,800**	15	--
RW-3	11/30/2005	**4,100**	**2,700**	130	**20**	200	30	220	--	--
RW-3	2/28/2006	270	<78	<97	**6**	46	4	23	<0.5	--
RW-3	5/16/2006	**2,600**	**1,700**	<94	**34**	190	26	200	<5	--
RW-3	8/17/2006	**12,000**	**2,400**	150	**480**	**1,700**	130	930	<0.5	--
RW-3	11/21/2006	**3,200**	**1,700**	<95	**26**	220	50	310	<0.5	--
RW-3	2/20/2007	**1,100**	300	<94	**12**	96	12	77	<0.5	--
RW-3	5/15/2007	**4,000**	**3,000**	<480	**240**	**1,200**	140	900	<1	--
RW-3	9/12/2007	**88,000**	--	--	**940**	**9,900E**	**1,500**	**8,700**	<0.5	--
RW-3	11/27/2007	**1,100**	310	<94	**12**	100	14	97	<0.5	--
RW-3	2/26/2008	**6,500**	**47,000**	<1900	**25**	370	140	760	<0.5	--
RW-3	8/25/2008	**830**	440	<97	**12**	45	15	95	<0.5	<50
RW-3	2/19/2009	266	110	<410	<1	9.9	3.2	20	<1	<400
RW-3	8/25/2009	**Insufficient Groundwater to Sample**								
RW-3	3/23/2010	**1,200**	**1,150**	<385	1.8	69.5	23.2	138	<1	<250
RW-3	8/23/2010	**Insufficient Groundwater to Sample**								
RW-3	2/27/2012	**3,700**	**2,400**	<380	**5.4**	111	62.5	351	<1.0	--
RW-3	8/24/2012	**2,710**	**2,100**	<420	**34.0**	17.7	92.3	456	<1.0	--
RW-3	2/1/2013	366	**15,400**	700	<1.0	2.3	6.6	40.2	<1.0	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
RW-4	8/26/2008	**4,100**	**2,200**	<98	**7**	88	77	590	<0.5	<50
RW-4	2/19/2009	<50	<80	<400	<1	2.4	<1	3.5	<1	<400
RW-4	8/25/2009	**Insufficient Groundwater to Sample**								
RW-4	3/24/2010	84	<77.7	<388	<1	5.7	1.4	11.2	<1	<250
RW-4	8/26/2010	**5,340**	172	<400	**123**	**1,250**	230	**1,430**	<1.0	<250
RW-4	2/10/2011	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	<1.0	--
RW-4	8/12/2011	**5,820**	<76	<380	**151**	551	176	770	<1.0	--
RW-4	11/18/2011	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
RW-4	2/23/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	3	<1.0	--
RW-4	5/11/2012	241	<80	<400	**10.4**	88.4	17.0	95.4	<1.0	--
RW-4	8/24/2012	**1,350**	<82	<410	**26.9**	77.7	42.3	183	<1.0	--
RW-4	11/9/2012	101	<100	<100	<1.0	3.1	3.1	17.5	<1.0	--
RW-4	1/31/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
RW-4 (DUP)	1/31/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
RW-4	5/3/2013	138	<200	290	<1.0	2.4	1.6	10	<1.0	--
RW-4	8/22/2013	**4,080**	**1,600**	<430	**21.5**	47.2	33.3	174	<1.0	--
RW-4	11/20/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
RW-4 (DUP)	11/20/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
RW-4	2/11/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
RW-4	5/7/2014	<50	<48	<28	<0.15	<0.11	<0.16	<0.40	<0.17	--
RWx-5	8/26/2008	**43,000**	**1,700**	<99	**3,800**	**9,500**	**810**	**4,300**	<5	<500
RWx-5	2/19/2009	**2,690**	350	<400	**37**	120	10	530	<1	<400
RWx-5	8/25/2009	**190,000**	**1,600**	84J	**30,200**	**43,500**	**3,260**	**17,200**	<1	<250
RWx-5 (DUP)	8/25/2009	**191,000**	**1,300**	120J	**28,300**	**40,700**	**22,820**	**14,600**	<1	<250
RWx-5	3/24/2010	**827**	<76.2	<381	**26.3**	44.9	3.8	192	<1	<250
RWx-5	8/26/2010	**16,200**	193	<396	**2,700**	**3,140**	375	**1,660**	<1.0	<250
RWx-5 (DUP)	8/26/2010	**29,800**	582	<412	**4,190**	**7,990**	**1,130**	**4,140**	<1.0	<250
RWx-5	2/11/2011	**1,730**	<78.4	<392	**18.8**	38.2	5.9	325	<1.0	--
RWx-5	5/25/2011	**689**	<75	<380	4.5	9.5	2.4	96.1	<1.0	--
RWx-5	8/15/2011	**72,400**	**550**	<380	**4,480**	**26,100**	**1,640**	**7,290**	<1.0	--
RWx-5	11/18/2011	309	<76	<380	**21.6**	48.5	<1.0	25.7	<1.0	--
RWx-5	2/23/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
RWx-5	5/11/2012	**1,970**	<79	<400	**6.7**	113	19.6	862	<1.0	--
RWx-5	8/27/2012	**67,300**	420	<380	**2,620**	**18,100**	**1,260**	**6,010**	<50.0	--
RWx-5	11/9/2012	**1,460**	380	<110	**5.2**	183	48.7	431	<1.0	--
RWx-5 (DUP)	11/9/2012	**1,430**	230J	<110	**4.0**	148	42.3	398	<1.0	--
RWx-5	1/31/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
RWx-5	5/3/2013	**67,800**	360	320	**8,540**	**18,300**	**1,300**	**6,740**	<100	--
RWx-5	8/22/2013	**52,300**	<420	<420	**977**	**2,130**	107	658	<100	--
RWx-5	11/20/2013	<100	<400	<400	<1.0 J	<1.0 J	<1.0 J	<3.0 J	<1.0 J	--
RWx-5	2/7/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
RWx-5	5/7/2014	<50	<48	<28	<0.15	<0.11	<0.16	<0.40	<0.17	--
RW-6	8/27/2008	84	<79	<99	<0.5	<0.7	<0.8	2	<0.5	<50
RW-6	2/18/2009	50	<80	<400	<1	<1	<1	<1	<1	<400
RW-6	8/25/2009	**Insufficient Groundwater to Sample**								
RW-6	3/24/2010	<50	<75.8	<379	<1	<1	<1	<3	<1	<250
RW-6	8/23/2010	**Insufficient Groundwater to Sample**								
RWx-7	8/27/2008	**65,000**	**5,400**	<980	**180**	**4,800**	**1,200**	**8,900**	<3	<250
RWx-7	2/19/2009	**13,700**	**1,900**	<410	1	22	35	**1,100**	<1	<400
RWx-7	8/25/2009	**39,100**	**1,600**	110J	**2,990**	**2,670**	279	**3,210**	<1	<250
RWx-7	3/24/2010	**939**	124	<381	<1	<1	<1	12	<1	<250
RWx-7	8/26/2010	**19,600**	**742**	<421	**352**	**1,270**	462	**3,280**	<1.0	<250
RWx-7	2/11/2011	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	<1.0	--
RWx-7	8/12/2011	**25,600**	**580**	<380	**1,590**	**3,870**	552	**2,650**	<1.0	--
RWx-7	2/23/2012	88.0	<75	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
RWx-7	8/27/2012	**23,600**	**630**	<390	**1,100**	**3,900**	361	**2,550**	<5.0	--
RWx-7	1/30/2013	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	<1.0	--
RWx-7	8/22/2013	**30,300**	**530**	<420	**1,830**	**4,460**	370	**2,100**	<25.0	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
RWx-7	2/11/2014	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
RWX-7	11/18/2016	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
RWX-7	2/17/2017	**1,360**	<400	<400	<1.0	<1.0	<1.0	24.2	---	---
RWX-7	5/26/2017	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	---	---
RWX-7	9/28/2017	**932**	<420	<420	**272**	10.6	1.5	40.6	---	---
RWX-7	12/14/2017	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	---	---
RWX-7	3/2/2018	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	---	---
HWx-1E	9/21/2005	**3,800**	**610**	<94	**460**	21	220	90	--	--
HWx-1E	11/30/2005	**4,900**	**720**	<95	**2,300**	250	220	590	--	--
HWx-1E	3/1/2006	**80,000**	**2,200**	<480	**9,000**	**12,000**	**1,400**	**7,600**	<5	--
HWx-1E	5/17/2006	**69,000**	**1,100**	**860**	**10,000**	**9,800**	**1,700**	**7,600**	<200	--
HWx-1E	8/16/2006	**23,000**	**2,800**	**<940**	**5,300**	**1,300**	840	**3,700**	<1	--
HWx-1E	11/20/2006	750	91	<94	**70**	14	29	75	<0.5	--
HWx-1E	2/19/2007	**42,000**	**1,400**	<94	**6,300**	**5,100**	**1,200**	**3,700**	<5	--
HWx-1E	5/14/2007	**80,000**	**1,300**	<96	**8,800**	**12,000**	**1,600**	**7,400**	<10	--
HWx-1E	9/11/2007	**4,800**	**1,100**	<94	**750**	34	200	620	<0.5	--
HWx-1E	11/26/2007	310	170	<97	**240**	7	3	29	<0.5	--
HWx-1E	2/26/2008	300	320	<95	**65**	7	13	23	<0.5	--
HWx-1E	8/26/2008	**1,200**	390	<96	**250**	220	13	69	<0.5	<50
HWx-1W	11/29/2005	**1,200**	**590**	<95	**420**	<1	62	120	--	--
HWx-1W	2/28/2006	**54,000**	**1,500**	<190	**2,700**	**6,400**	**780**	**3,200**	<3	--
HWx-1W	5/17/2006	**73,000**	**1,100**	<190	**6,800**	**12,000**	**1,500**	**7,400**	<100	--
HWx-1W	8/16/2006	**8,500**	**970**	120	**2,000**	280	440	**1,300**	<0.5	--
HWx-1W	11/20/2006	220	89	<96	**12**	1	8	30	<0.5	--
HWx-1W	2/19/2007	**11,000**	**1,100**	140	**1,500**	**1,300**	470	**1,500**	<1	--
HWx-1W	5/14/2007	**38,000**	**980**	<95	**6,200**	**4,900**	**1,000**	**4,100**	<5	--
HWx-1W	9/11/2007	**1,800**	**1,700**	**<950**	**2,000**	4	210	180	<0.5	--
HWx-1W	11/26/2007	680	440	<96	**1,700**	16	20	76	<1	--
HWx-1W	2/26/2008	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
HWx-1W	8/26/2008	84	120	<95	1	<0.7	1	2	<0.5	<50
MW-1	11/15/2011	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-1	2/28/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-1	5/8/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-1	9/4/2012	<50	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-1	11/7/2012	<100	<110	<110	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-1	2/5/2013	<100	<460	<460	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-1	5/1/2013	<100	<200	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-1	8/14/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-1	11/22/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-1	2/13/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-1	4/30/2014	<50	<48	<28	<0.15	<0.11	<0.16	<0.40	<0.17	--
MW-1	8/13/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-1	11/23/2014	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-1	2/13/2015	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	---
MW-1	11/16/2016	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	---	---
MW-1	2/16/2017	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-1	5/24/2017	<100	<440	<440	<1.0	<1.0	<1.0	<3.0	---	---
MW-1	9/27/2017	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-1	12/13/2017	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
MW-1	2/28/2018	<100	<380	<380	<1.0 J	<1.0 J	<1.0 J	<3.0 J	---	---
MW-2	11/16/2011	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-2	2/28/2012	86.4	<150	<730	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-2	5/14/2012	<100	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-2	9/4/2012	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-2	11/7/2012	<100	<110	<110	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-2	2/8/2013	103	<450	<450	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-2	5/1/2013	113	210	<390	<1.0	<1.0	<1.0	<3.0	<1.0	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-2	8/23/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-2	11/22/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-2	2/13/2014	189	<400	<400	<1.0	<1.0	<1.0	<2.0	<4.0	--
MW-2	4/30/2014	134	<50	<29	<0.15	<0.11	<0.16	<0.40	<0.17	--
MW-2	8/13/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-2	11/23/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-2	2/13/2015	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	---
MW-2	11/16/2016	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-2	2/16/2017	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-2	5/24/2017	<100	<430	<430	<1.0	<1.0	<1.0	<3.0	---	---
MW-2	9/27/2017	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	---	---
MW-2	12/13/2017	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-2	2/28/2018	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	---	---
MW-3	11/17/2011	<50.0	<75	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-3	3/1/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-3	5/14/2012	<50.0	350	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-3	8/28/2012	463	<76	<380	<1.0	181	<1.0	<3.0	<1.0	--
MW-3	11/7/2012	206	<120	<120	<1.0	143J	<1.0	<3.0	<1.0	--
MW-3	2/8/2013	133	<450	<450	1.7	36.6	<1.0	<3.0	<1.0	--
MW-3	5/6/2013	<100	<200	<200	<1.0	17.1	<1.0	<3.0	<1.0	--
MW-3	8/16/2013	187	<420	<420	<1.0	84.1	<1.0	<3.0	<1.0	--
MW-3	11/26/2013	<100	<400	<400	<1.0	6.9	<1.0	<3.0	<1.0	--
MW-3	2/10/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-3	5/1/2014	<50	<50	<29	<0.15	<0.11	<0.16	<0.40	<0.17	--
MW-3	8/14/2014	<100	<400	<400	<1.0	1.5	<1.0	<3.0	<1.0	--
MW-3	11/23/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-3	2/17/2015	<100	<430	<430	<1.0	<1.0	<1.0	<3.0	<1.0	---
MW-3	11/16/2016	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
MW-3	2/16/2017	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	---	---
MW-3	5/24/2017	<100	<430	<430	<1.0	<1.0	<1.0	<3.0	---	---
MW-3	9/27/2017	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-3	9/27/2017	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-3	12/13/2017	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	---	---
MW-3	2/27/2018	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
MW-4	11/17/2011	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-4	3/1/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-4	5/14/2012	<50.0	<82	<410	<1.0(SS)	<1.0(SS)	<1.0	<3.0	<1.0	--
MW-4	8/28/2012	<50.0	<80	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-4	11/7/2012	<100	<110UJ	<110UJ	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-4	2/8/2013	<100	<440	<440	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-4	5/6/2013	<100	<200	<200	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-4	8/16/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-4	11/26/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-4	2/10/2014	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-4	5/1/2014	<50	<48	600	<0.15	<0.11	<0.16	<0.40	<0.17	--
MW-4	8/14/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-4	11/23/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-4	2/17/2015	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	---
MW-4	11/16/2016	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	---	---
MW-4	2/16/2017	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-4	5/24/2017	<100	<510	<510	<1.0	2.4	<1.0	<3.0	---	---
MW-4	9/27/2017	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	---	---
MW-4	12/13/2017	<100	<380	<380	<1.0	1.0	<1.0	<3.0	---	---
MW-4	2/27/2018	<100	<380	<380	<1.0	2.1	1.4	<3.0	---	---
MW-5	11/17/2011	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-5	3/1/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-5	5/14/2012	<50.0	<83	<420	<1.0(SS)	<1.0(SS)	<1.0	<3.0	<1.0	--
MW-5	8/28/2012	<50.0	<83	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

Sample Location	Date	HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
		TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-5	11/7/2012	<100	<100UJ	<100UJ	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-5	2/7/2013	<100	<470	<470	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-5	5/6/2013	<100	<200	<200	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-5	8/16/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-5	11/26/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-5	2/10/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-5	5/1/2014	<50	<48	<28	<0.15	<0.11	<0.16	<0.40	<0.17	--
MW-5	8/14/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-5	11/23/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-5	2/17/2015	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	---
MW-5	11/17/2016	<100	<430	<430	<1.0	<1.0	<1.0	<3.0	---	---
MW-5	2/16/2017	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	---	---
MW-5	5/24/2017	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	---	---
MW-5	9/28/2017	<100	<380	**720**	<1.0	<1.0	<1.0	<3.0	---	---
MW-5	12/13/2017	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-5	2/27/2018	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	---	---
MW-6	11/16/2011	<50.0	<77	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-6	3/1/2012	64.5	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-6	5/14/2012	62.6	<84	<420	<1.0 (SS)	<1.0 (SS)	<1.0	<3.0	<1.0	--
MW-6	8/28/2012	<50.0	<82	<410	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-6	11/7/2012	<100	<110UJ	<110UJ	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-6	2/7/2013	<100	<440	<440	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-6	5/6/2013	<100	<200	<200	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-6	8/16/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-6	11/26/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-6	2/10/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-6	5/1/2014	<50	<48	<28	<0.15	<0.11	<0.16	<0.40	<0.17	--
MW-6	8/14/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-6	11/23/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-6	2/23/2015	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	---
MW-6	2/23/2015	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	---
MW-6	11/17/2016	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	---	---
MW-6	11/17/2016	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	---	---
MW-6	2/16/2017	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-6	5/24/2017	112	<440	<440	<1.0	<1.0	<1.0	<3.0	---	---
MW-6	9/28/2017	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	---	---
MW-6	12/13/2017	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	---	---
MW-6	2/28/2018	<100	<400	<400	<1.0 J	<1.0 J	<1.0 J	<3.0 J	---	---
MW-7	11/15/2011	**7,530**	380	<380	**3,560**	**1,610**	**898**	**3,250**	<1.0	--
MW-7	3/1/2012	**58,000**	**1,300**	<380	**15,000**	**1,600**	**1,150**	**2,770**	<1.0	--
MW-7	5/9/2012	**32,900**	**1,500**	<380	**7,470**	**1,620**	**1,290**	**2,930**	<50.0	--
MW-7	8/23/2012	**24,700** [10]	**850**	<390	**8,930**	**1,220**	**1,880**	**3,310**	1.1	--
MW-7	11/6/2012	**28,000**	**3,100**	<110	**6,620**	337	**1,120**	**2,230**	<20.0	--
MW-7	2/7/2013	**17,500**	**3,800**	<450	**6,840**	314	**1,940**	**1,410**	<50.0	--
MW-7	4/29/2013	**19,600**	<200	<200	**6,400**	310	**2,410**	**1,360**	<50.0	--
MW-7	8/13/2013	**19,700**	**2,600**	**1,000**	**8,710**	843	**1,080**	**2,810**	<50.0	--
MW-7	11/18/2013	**12,100**	**1,000**	<430	**6,730**	420	**1,310**	**1,270**	<50.0	--
MW-7 (DUP)	2/5/2014	**18,400**	**930**	<400	**4,760**	148	**1,560**	**1,170**	<20.0	--
MW-7	2/5/2014	**18,900**	**1,200**	<400	**6,150 J**	170 J	**1,750 J**	**1,310 J**	<20.0 J	--
MW-7	4/29/2014	**17,200**	**1,200**	<28	**6,870**	129	**2,330**	**1,080**	<8.4	--
MW-7	11/17/2016	**11,300**	**2,200**	<390	**3,250**	27.3	**1,500**	318	---	---
MW-7	5/24/2017	**11,100**	**1,100**	<430	**2,790**	32.7	**924**	263	---	---
MW-7	12/13/2017	**4,630**	**27,400 J**	<410	**1,660**	78.5	238	257	---	---
MW-7	3/1/2018	**4,340 J**	**16,900**	<370	**2,470**	68.4	382	208	---	---
MW-8	11/15/2011	**11,900**	130	<380	**3,670**	365	431	**1,510**	2.6	--
MW-8	2/22/2012	**9,370**	220	<380	**4,430**	382	**957**	**2,660**	6.9	--
MW-8	5/10/2012	**23,500**	**670**	<410	**9,090**	542	**841**	**2,280**	<25.0	--
MW-8 (DUP)	5/10/2012	**24,700**	**940**	<380	**8,940**	571	**855**	**2,320**	8.0	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-8	8/23/2012	**17,500** [10]	**680**	<380	**9,570**	670	**1,090**	**2,780**	5.1	--
MW-8	11/6/2012	**10,300**	**1,400**	<110	**3,420**	140	422	**1,037**	1.8	--
MW-8	1/29/2013	**8,130**	**2,800**	**820**	**6,280**	186	465	**1,250**	6.2	--
MW-8	4/29/2013	**5,430**	<200	<200	**4,720**	100	533	**1,380**	<50.0	--
MW-8	8/13/2013	**12,700**	**1,800**	**820**	**7,460**	58.8 J	**708**	**1,670**	<50.0	--
MW-8	11/19/2013	**7,500**	**550**	<420	**4,550**	<50.0	477	**1,100**	<50.0	--
MW-8	2/4/2014	**7,650**	**520 J**	<420	**4,040**	<50.0	447	931	<50.0	--
MW-8 (DUP)	2/4/2014	**7,960**	430 J	<400	**3,940**	<25.0	436	918	<25.0	--
MW-8	4/29/2014	**7,780**	480	<29	**7,070**	<5.5	552	**1,120**	<8.4	--
MW-8	11/17/2016	540	<400	<400	**123**	<1.0	2.6	24.7	---	---
MW-8	5/24/2017	**1,460**	<420	<420	**1,330**	25.8	13.0	73.1	---	---
MW-8	12/13/2017	692 J	**650 J**	<400	**695**	<5.0	10.3	<15.0	---	---
MW-8	3/1/2018	692	<380	<380	**832 J**	<5.0 J	39.7 J	<15.0 J	---	---
MW-8	3/1/2018	688	<380	<380	**784 J**	<5.0 J	37.4 J	<15.0 J	---	---
MW-9	11/16/2011	**1,950**	<76	<380	**1,430**	2	5	7.7	1.2	--
MW-9	2/22/2012	566	120 J	<380	**899**	1.9 J	1.8 J	3.4 J	<1.0 J	--
MW-9 (DUP)	2/22/2012	535	260 J	<380	**889**	1.8 J	1.7 J	3.2 J	1.0J	--
MW-9	5/9/2012	**1,830**	290	<430	**625**	1.4	1.7	<3.0	<1.0	--
MW-9	8/24/2012	**1,070**	270	<380	**977**	2.8	5.1	8.0	<1.0	--
MW-9	11/15/2012	**1,330**	220	<100	**439**	<2.0	2.3	<6.0	<2.0	--
MW-9	1/31/2013	224	<450	<450	**180**	<1.0	<1.0	<3.0	<1.0	--
MW-9	4/30/2013	**1,210**	<200	<200	**1,150**	<10.0	<10.0	<30.0	<10.0	--
MW-9	8/13/2013	**1,790**	**1,500**	<400	**817**	4.1 J	7.3	6.8	<1.0	--
MW-9	11/18/2013	**869**	430	<400	**266**	<2.0	2.2	<6.0	<2.0	--
MW-9	2/4/2014	**1,520**	**650 J**	<430	**1,040**	<5.0	6.4	<15.0	<5.0	--
MW-9	4/30/2014	**2,050**	**550**	<29	**762**	<0.55	<0.82	<2.0	<0.84	--
MW-9	11/16/2016	**1,330**	**540**	**1,100**	**120**	1.4	2.2	3.9	---	---
MW-9	2/16/2017	**1,240**	**740**	**580**	**159**	1.5	3.2	6.8	---	---
MW-9	5/25/2017	**1,120**	<500	<500	**179**	1.4	6.7	<3.0	---	---
MW-9	9/27/2017	**849**	**580**	<410	**80.7**	1.1	1.6	<3.0	---	---
MW-9	12/13/2017	**950 J**	**600 J**	<410	**29.0**	<1.0	<1.0	<3.0	---	---
MW-9	2/28/2018	**1,320**	410	<380	**52.4 J**	<1.0 J	5.8 J	<3.0 J	---	---
MW-10	11/17/2011	174	<75	<380	**562**	3	1.6	17.9	<1.0	--
MW-10 (DUP)	11/17/2011	113	<75	<380	**440**	2	<1.0	15.3	<1.0	--
MW-10	2/22/2012	434	160	<380	2.0	<1.0	<1.0	<3.0	<1.0	--
MW-10	5/10/2012	282	140	<390	**65.4**	3.5	5.7	15.7	<1.0	--
MW-10	11/9/2012	466	<110	<110	**200**	1.1	<1.0	3.2	<1.0	--
MW-10	2/1/2013	125	<440	<440	1.6	<1.0	<1.0	<3.0	<1.0	--
MW-10	4/30/2013	185	<200	<200	**7.1**	<1.0	<1.0	<3.0	<1.0	--
MW-10	8/20/2013	139	<400	<400	**47.6**	<1.0	<1.0	3.5	<1.0	--
MW-10	11/18/2013	116	<400	<400	**57.9**	2.2	<1.0	10.3	<1.0	--
MW-10	2/4/2014	125	<420	<420	**27.4**	<1.0	<1.0	<3.0	<1.0	--
MW-10	4/29/2014	415	<50	<29	<0.15	<0.11	<0.16	<0.40	<0.17	--
MW-10	8/12/2014	152	<400	<400	**26.3**	1.1	<1.0	3.7	<1.0	
MW-10	11/25/2014	122	<400	<400	**12.7**	<1.0	<1.0	<3.0	<1.0	--
MW-10	2/17/2015	291	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	---
MW-10	11/16/2016	164	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
MW-10	2/16/2017	189	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-10	5/24/2017	277	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
MW-10	9/28/2017	<100	<410	<410	1.1 J	<1.0 J	<1.0 J	<3.0 J	---	---
MW-10	12/14/2017	<100	430	<400	<1.0	<1.0	<1.0	<3.0	---	---
MW-10	12/14/2017	<100	**620**	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-10	3/1/2018	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
MW-11	2/29/2012	128	82	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-11	5/16/2012	177	<77	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-11	8/29/2012	145	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-11	11/16/2012	<100	<110	<110	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-11	2/6/2013	<100	<450	<450	<1.0	<1.0	<1.0	<3.0	<1.0	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-11	5/7/2013	<100	<200	<200	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-11	8/21/2013	196	**500**	<420	<1.0 J	<1.0 J	<1.0 J	<3.0 J	<1.0 J	--
MW-11	11/26/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-11	2/6/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-11	5/9/2014	<50	<30	<52	<0.15	<0.11	<0.16	<0.40	<0.17	--
MW-11	8/15/2014	114	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-11	11/21/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-11	2/18/2015	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	---
MW-11	11/18/2016	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	---	---
MW-11	2/17/2017	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	---	---
MW-11	5/25/2017	<100	<510	<510	<1.0	<1.0	<1.0	<3.0	---	---
MW-11	9/27/2017	168	<400	480	<1.0	<1.0	<1.0	<3.0	---	---
MW-11	12/12/2017	117	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
MW-11	2/28/2018	<100	<400	<400	<1.0 J	<1.0 J	<1.0 J	<3.0 J	---	---
MW-12	2/29/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-12	5/16/2012	<50.0	<400	<2,000	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-12	8/29/2012	<50.0	<75	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-12	11/14/2012	<100	<110	<110	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-12	5/7/2013	<100	<200	<200	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-12	8/21/2013	<100	<390	<390	<1.0 J	<1.0 J	<1.0 J	<3.0 J	<1.0 J	--
MW-12	11/26/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-12	2/3/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-12	5/8/2014	<50	<32	<55	<0.15	<0.11	<0.16	<0.40	<0.17	--
MW-12	8/15/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-12	11/21/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-12	2/18/2015	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	---
MW-12	11/18/2016	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-12	2/17/2017	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	---	---
MW-12	2/17/2017	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	---	---
MW-12	5/25/2017	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	---	---
MW-12	9/27/2017	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-12	12/12/2017	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
MW-12	2/28/2018	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-13	2/29/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-13	5/16/2012	<50.0	<78	<390	<1.0[M1]	<1.0[M1]	<1.0[M1]	<3.0[M1]	<1.0[M1]	--
MW-13	9/5/2012	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-13	11/14/2012	<100	<120	<120	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-13	2/6/2013	<100	<430	<430	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-13	5/8/2013	<100	<200	<200	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-13	8/21/2013	<100	<390	<390	1.1 J	<1.0 J	<1.0 J	<3.0 J	<1.0 J	--
MW-13	11/26/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-13	2/6/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-13	5/8/2014	<50	<28	<48	<0.15	<0.11	<0.16	<0.40	<0.17	--
MW-13	8/15/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-13	11/21/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-13	2/18/2015	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	---
MW-13	11/17/2016	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
MW-13	2/16/2017	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
MW-13	5/25/2017	<100	<430	<430	<1.0	<1.0	<1.0	<3.0	---	---
MW-13	9/27/2017	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-13	12/13/2017	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-13	2/28/2018	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	---	---
MW-14	11/21/2011	**123,000 J**	**640 J**	<380 J	**17,500 J**	**18,200 J**	**2,550 J**	**14,100 J**	<1.0 J	--
MW-14	2/28/2012	**110,000**	**1,400**	<380	**16,400 J**	**16,300 J**	**2,020 J**	**10,500 J**	<1.0 J	--
MW-14	5/14/2012	**133,000**	**2,000**	<380	**18,400[SS]**	**2,3400[SS]**	**2,090**	**11,900**	<10.0	--
MW-14	11/16/2012	**90,800**	300	<110	**17,900**	**15,600**	**1,780**	**10,720**	<50.0	--
MW-14	2/6/2013	**94,200**	**4,100**	<470	**16,300**	**15,400**	**1,740**	**10,400**	<100	--
MW-14	5/2/2013	**90,300**	**1,500**	450	**16,200**	**16,200**	**2,050**	**11,500**	<100	--

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-14	8/23/2013	**150,000**	**1,300**	**540**	**23,600**	**21,300**	**2,670**	**15,000**	<100	--
MW-14	11/18/2013	**91,100**	**1,600**	<420	**21,100**	**15,700**	**2,470**	**13,400**	<20.0	--
MW-14	2/12/2014	**103,000**	**1,400**	<400	**14,000**	**11,800**	**1,770**	**10,700**	<100	--
MW-14	5/6/2014	**19,300**	**530**	430	**283**	327	96.8	560	<3.4	--
MW-14	11/17/2016	**30,300**	**1,800**	**1,500**	**6,910**	585	**1,040**	**4,800**	---	---
MW-14	5/25/2017	**60,800**	**850**	<370	**16,000**	**4,670**	**1,730**	**9,040**	---	---
MW-14	12/14/2017	**57,700**	**1,600**	<390	**14,000**	**3,630**	**1,690**	**8,530**	---	---
MW-14	3/1/2018	**34,900**	**550**	<370	**5,140 J**	**3,540 J**	462 J	**2,020 J**	---	---
MW-14	3/1/2018	**50,600**	**740**	<390	**8,920 J**	**6,400 J**	**966 J**	**4,370 J**	---	---
MW-15	11/21/2011	265 J	<76 J	<380 J	**32.9 J**	<1.0 J	<1.0 J	<3.0 J	<1.0 J	--
MW-15 (DUP)	11/21/2011	262 J	<77 J	<380 J	**30.9 J**	<1.0 J	1.4 J	<3.0 J	<1.0 J	--
MW-15	2/28/2012	195	<76	<380	**52.2**	<1.0	1.8	<3.0	<1.0	--
MW-15	5/11/2012	266	130	<380	**35.0**	<1.0	3.2	<3.0	<1.0	--
MW-15	8/27/2012	226	<84	<420	**40.3**	<1.0	<1.0	<3.0	<1.0	--
MW-15 (DUP)	8/27/2012	203	<83	<420	**39.5**	<1.0	1.2	<3.0	<1.0	--
MW-15	11/12/2012	445	<110	<110	**76.5**	<1.0	1.3	<3.0	<1.0	--
MW-15	2/4/2013	294	<430	<430	**35.2**	<1.0	3.2	<3.0	<1.0	--
MW-15	5/3/2013	309	320	340	**42.3**	<1.0	3.5	<3.0	<1.0	--
MW-15	8/23/2013	450	**1,500**	<430	**58.5**	<1.0	1.1	<3.0	<1.0	--
MW-15	11/20/2013	348	<400	<400	**42.9**	<1.0	<1.0	<3.0	<1.0	--
MW-15	2/7/2014	520	<400	<400	**41.1**	<1.0	1.6	<3.0	<1.0	--
MW-15	5/7/2014	278	<48	<28	**28.4**	1.1	1.6	<0.40	<0.17	--
MW-15	11/18/2016	353	420	<400	**18.2**	<1.0	<1.0	<3.0	---	---
MW-15	2/17/2017	**1,210**	<370	<370	<1.0	<1.0	<1.0	24.4	---	---
MW-15	5/26/2017	165	<430	<430	**11.8**	<1.0	1.6	<3.0	---	---
MW-15	9/28/2017	314	<390	<390	**13.0**	<1.0	<1.0	<3.0	---	---
MW-15	12/14/2017	170	<410	<410	4.6	<1.0	<1.0	<3.0	---	---
MW-15	3/1/2018	413 J	**550**	470	**33.6 J**	<1.0 J	2.5 J	<3.0 J	---	---
MW-16	2/29/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-16	5/16/2012	68.7	120	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-16	9/5/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-16	11/14/2012	<100	<110	<110	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-16	2/6/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-16	5/8/2013	<100	<200	<200	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-16	8/21/2013	<100	<400	<400	<1.0 J	<1.0 J	<1.0 J	<3.0 J	<1.0 J	--
MW-16	11/26/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-16	2/3/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-16	5/8/2014	<50	<28	<48	<0.15	<0.11	<0.16	<0.40	<0.17	--
MW-16	8/15/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-16 (DUP)	8/15/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-16	11/21/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-16	2/18/2015	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	---
MW-16	11/17/2016	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	---	---
MW-16	2/17/2017	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	---	---
MW-16	5/25/2017	<100	<500	<500	<1.0	<1.0	<1.0	<3.0	---	---
MW-16	9/27/2017	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	---	---
MW-16	12/13/2017	405	<410	<410	2.8	8.8	6.4	55.2	---	---
MW-16	2/28/2018	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	---	---
MW-17	9/5/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-17	11/16/2012	<100	<100	<100	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-17	2/6/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-17	5/7/2013	<100	<200	<200	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-17	8/21/2013	<100	430	<420	<1.0 J	<1.0 J	<1.0 J	<3.0 J	<1.0 J	--
MW-17	11/26/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-17	2/6/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
MW-17	5/9/2014	<50	<28	<48	<0.15	<0.11	<0.16	<0.40	<0.17	--
MW-17	11/18/2016	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	---	---
MW-17	5/25/2017	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	---	---

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
CA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-17	9/27/2017	<100 J	<390	<390	<1.0 J	<1.0 J	<1.0 J	<3.0 J	---	---
MW-17	12/12/2017	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	---	---
MW-17	2/28/2018	<100	<390	<390	<1.0 J	<1.0 J	<1.0 J	<3.0 J	---	---
DW-1	11/15/2011	<50.0	<75	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-1	2/28/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-1	5/16/2012	<50.0	<76	<380	**10.9**	<1.0	<1.0	<3.0	<1.0	--
DW-1	9/4/2012	<50.0	<77	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-1	11/13/2012	<100	<110	<110	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-1	2/5/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-1	5/1/2013	<100	<200	<410	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-1	8/14/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-1	11/22/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-1	2/13/2014	<100	<400	<400	2	<1.0	<1.0	<3.0	<1.0	--
DW-1	4/30/2014	<50	<48	<28	<0.15	<0.11	<0.16	<0.40	<0.17	--
DW-2	11/16/2011	**33,800**	340	<380	**638**	**2,280**	699	**3,820**	4.8	--
DW-2	2/23/2012	**8,730**	430	<380	**132**	281	225	**1,330**	5.8	--
DW-2 (DUP)	2/23/2012	**8,190**	380	<380	**128**	292	234	**1,330**	6.2	--
DW-2	5/9/2012	**4,150**	390	<380	**54.4**	34.4	72.0	407	4.6	--
DW-2	8/24/2012	**1,360**	98	<410	**44.6**	8.9	26.5	120	1.7	--
DW-2	11/6/2012	**1,060**	140	<110	**49.1**	2.4	19.5	48.3J	<1.0	--
DW-2	1/31/2013	434	<450	<450	**11.9**	<1.0	6.5	9.2	<1.0	--
DW-2	4/30/2013	378	<200	<200	**14.7**	<1.0	3.3	15.5	<1.0	--
DW-2 (DUP)	4/30/2013	321	<200	<200	**15.1**	<1.0	3	14.6	<1.0	--
DW-2	8/23/2013	**821**	<420	<420	**13**	1.3 J	3.4	10.1	1.4	--
DW-2 (DUP)	8/23/2013	733	<400	<400	**12.9**	1.3	3.1	10.1	1.4	--
DW-2	11/21/2013	326	<400	<400	**5.9**	<1.0	<1.0	13.1	<1.0	--
DW-2	2/12/2014	395	<400	450	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-2	4/29/2014	333	48	<28	1.4	1.1	<0.16	3.4	2.1	--
DW-3	11/17/2011	<50.0	<75	<380	<1.0	<1.0	1.3	<3.0	<1.0	--
DW-3	2/21/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-3	5/15/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-3	8/28/2012	<50.0	<81	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-3	11/9/2012	<100	<120	<120	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-3	1/30/2013	<100	<490	<490	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-3	5/1/2013	<100	<200	<600	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-3	8/15/2013	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-3	11/19/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-3	2/5/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-3	5/1/2014	<50	410	**2,200**	<0.15	<0.11	<0.16	<0.40	<0.17	--
DW-4	9/5/2012	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-4	11/16/2012	<100	<110	<110	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-4	2/6/2013	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-4	5/7/2013	<100	<200	<200	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-4	8/21/2013	<100	<420	<420	<1.0 J	<1.0 J	<1.0 J	<3.0 J	<1.0 J	--
DW-4	11/26/2013	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-4	2/6/2014	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--
DW-4	5/9/2014	<50	<29	<50	<0.15	<0.11	<0.16	<0.40	<0.17	--
Retention Pond	6/3/2004	**36,200**	--	--	**7,860**	**6,920**	792	**3,260**	--	--
Retention Pond	4/19/2006	**38,000**	**2,800**	<1000	**2,100**	**4,400**	180	**3,300**	NA	--
Retention Pond	2/19/2007	**16,000**	**1,400**	140	**1,600**	**2,500**	100	**1,500**	2	--

Notes:
NA Not analyzed.
U Not detected above reporting limit.
J Estimated
x Extension on well nomenclature signifies well extended by SECOR 07/05
µg/L micrograms per liter

Table 6

Groundwater Analytical Data
Phillips 66 Renton Terminal
Renton, Washington

		HYDROCARBONS			PRIMARY VOCs				OXYGENATES	
Sample Location	Date	TPHg	TPHd	TPHo	B	T	E	X	MTBE	Ethanol
MTCA Method A Screening Levels:		800/1000	500	500	5	1,000	700	1,000	20	--
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L

(a) Results in the diesel organics range are due to overlap from a gasoline range product.
(b) Chromatogram suggest this might be aged or degraded diesel.
(d) Contaminant does not appear to be typical product.
(e) The observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes earlier and later in the DRO range
(f) The reporting limits were raised because sample dilution was necessary to bring target compounds into the calibration range of the system
(g) Due to insufficient sample size, the lab was unable to report their usual reporting limits.
The values reported represent the lowest reporting limits obtainable. The observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes earlier and later in the DRO range.
(h) The observed sample pattern is not typical of #2 diesel fuel. It elutes in the DRO range earlier than #2 fuel.
Accurate surrogate recoveries could not be determinec due to the dilution required for analysis of the sample.
(i) The observed sample pattern is not typical of #2 fuel/diesel. The reported result is due to an individual peak(s) eluting in the DRO range.
(j) The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
(k) Due to insufficient sample size, we were unable to report our usual reporting limits. The values reported represent the lowest reporting limits attainable.
(l) The concentration reported for toluene is estimated since it exceeded the calibration range of the intrument.
Because only one sample vial was submitted for this analysis, a further dilted analysis could not be performed.
(m) Insufficient water to fill all sample bottles.
(n) The reporting limits for the GC/MS volatile compounds were raised due to sample foaming.
(o) Due to excessive foaming of the sample, normal reporting limits were not attained.
(p) Due to insufficient sample size, we were unable to report our usual reporting limits. The values reported represent the lowest reporting limits attainable.
(q) Due to insufficient sample size, we were unable to report our usual reporting limits. The values reported represent the lowest reporting limits attainable.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
(s) Due to insufficient sample size, we were unable to report our usual reporting limits. The values reported represent the lowest reporting limits attainable.
(t) MTCA Method A levels for TPH-g are 1,000 ug/l when ho benzene is present and 800 ug/l when benzene is present.
(u) Well LAIx-2 labeled LAI-2 in the analytical report and Chain-Of-Custody.
(v) Well LAIx-3 labeled LAI-2 in the analytical report and Chain-Of-Custody.
(w) Ethanol sampled 3Q08 and 1Q09
(x) The GRO value is estimated because the value is over the calibration range of the system. The sample was not reanalyzed because the hold time has expi
(y) The GC/MS volatile results were obtained from a vial with headspace.
The initial analyses of this sample were unable to be reported due to carryover issues and QC spiking
(z) The reporting limits for the GC/MS volatile compounds were raised due to the level of non-target compounds.
(1) The analytical data is from Acton Mickelson Environmental, Inc. sampling on 8/26/2008 and 8/27/2008.
(2) A-01 Contamination elutes between C18 and C40 and does not match any standards in TestAmerica's reference library.
(3) A-01a Contamination elutes between C8 and C18 and does not match any standards in TestAmerica's reference library.
(4) A-01b Contamination elutes between C8 and C28 and does not match any standards in TestAmerica's reference library.
(5) A-01c Contamination elutes between C8 and C40 and does not match any standards in TestAmerica's reference library.
(6) M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
(7) RL1 Reporting limit raised due to sample matrix effects.
(8) H1 = Analysis conducted outside the EPA method holding time.
(9) 2n = The internal standard response is outside the QC criteria. Results may be biased low.
(10) Sample was diluted due to the presence of high levels of target analytes.
(E) Analyte concentration exceeded the calibration range. The reported result is estimated.
(C0) Result confirmed by second analysis.
(M1) Matrix Spike recovery exceeded the QC limits. Batch accepted based on laboratory control sample recovery.
(SS) This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result shoule be considered an estimate.

Appendices

Appendix A
O&M Laboratory Analytical Reports

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 05, 2018

Thuan Bui
GHD
20818 44th Avenue West
Suite 190
Lynnwood, WA 98036

RE: Project: 70496.17
Pace Project No.: 10421091

Dear Thuan Bui:
Enclosed are the analytical results for sample(s) received by the laboratory on February 17, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(206)957-2426
Project Manager

Enclosures

cc: Jeff Gaarder, GHD
Eric Maise, GHD Services Inc.
Christina McClelland, GHD Services, Inc.
Accounts Payable, GHD_Conoco Phillips

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 70496.17
Pace Project No.: 10421091

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 70496.17
Pace Project No.: 10421091

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10421091001	**A-021618-JRL-INF**	Air	02/16/18 13:18	02/17/18 09:10
10421091002	**A-021618-JRL-EFF**	Air	02/16/18 13:15	02/17/18 09:10

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SAMPLE ANALYTE COUNT

Project: 70496.17
Pace Project No.: 10421091

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10421091001	**A-021618-JRL-INF**	TO-15	MJL	6	PASI-M
		TO-3 Air	CH1	1	PASI-M
10421091002	**A-021618-JRL-EFF**	TO-15	MJL	6	PASI-M

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ANALYTICAL RESULTS

Project: 70496.17
Pace Project No.: 10421091

Sample: A-021618-JRL-INF **Lab ID: 10421091001** Collected: 02/16/18 13:18 Received: 02/17/18 09:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Benzene	**7.0**	ppmv	0.49	4902.91		03/04/18 17:13	71-43-2	A3
Ethylbenzene	**0.51**	ppmv	0.0050	25.2		03/02/18 19:13	100-41-4	
THC as Gas	**41.5**	ppmv	0.60	25.2		03/02/18 19:13		
Toluene	**16.2**	ppmv	0.98	4902.91		03/04/18 17:13	108-88-3	A3
m&p-Xylene	**11.4**	ppmv	2.0	4902.91		03/04/18 17:13	179601-23-1	A3
o-Xylene	**0.57**	ppmv	0.0050	25.2		03/02/18 19:13	95-47-6	
TO3 GCV AIR Meth,Ethane,Ethene	Analytical Method: TO-3 Air							
Methane	**49.9**	ppmv	25.2	2.52		03/01/18 13:59	74-82-8	A4

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 70496.17
Pace Project No.: 10421091

Sample: A-021618-JRL-EFF **Lab ID: 10421091002** Collected: 02/16/18 13:15 Received: 02/17/18 09:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Benzene	**0.0048**	ppmv	0.00063	6.34		03/02/18 18:42	71-43-2	A4
Ethylbenzene	**0.0030**	ppmv	0.0013	6.34		03/02/18 18:42	100-41-4	
THC as Gas	**2.0**	ppmv	0.15	6.34		03/02/18 18:42		
Toluene	**0.038**	ppmv	0.0013	6.34		03/02/18 18:42	108-88-3	
m&p-Xylene	**0.0091**	ppmv	0.0025	6.34		03/02/18 18:42	179601-23-1	
o-Xylene	**0.0030**	ppmv	0.0013	6.34		03/02/18 18:42	95-47-6	

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QUALITY CONTROL DATA

Project: 70496.17
Pace Project No.: 10421091

QC Batch: 525567 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10421091001, 10421091002

METHOD BLANK: 2852180 Matrix: Air
Associated Lab Samples: 10421091001, 10421091002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppmv	ND	0.00010	03/02/18 09:30	
Ethylbenzene	ppmv	ND	0.00020	03/02/18 09:30	
m&p-Xylene	ppmv	ND	0.00040	03/02/18 09:30	
o-Xylene	ppmv	ND	0.00020	03/02/18 09:30	
THC as Gas	ppmv	ND	0.024	03/02/18 09:30	
Toluene	ppmv	ND	0.00020	03/02/18 09:30	

LABORATORY CONTROL SAMPLE: 2852181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ppmv	.01	0.012	122	70-134	
Ethylbenzene	ppmv	.01	0.011	115	70-133	
m&p-Xylene	ppmv	.02	0.022	110	70-133	
o-Xylene	ppmv	.01	0.010	105	70-132	
THC as Gas	ppmv	1.2	1.1	96	59-150	
Toluene	ppmv	.01	0.012	120	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 70496.17
Pace Project No.: 10421091

QC Batch: 525392 Analysis Method: TO-3 Air
QC Batch Method: TO-3 Air Analysis Description: TO3 GCV AIR METH,ETHANE,ETHENE
Associated Lab Samples: 10421091001

METHOD BLANK: 2850999 Matrix: Air
Associated Lab Samples: 10421091001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ppmv	ND	10.0	03/01/18 12:55	

LABORATORY CONTROL SAMPLE & LCSD: 2851000 2851001

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ppmv	1000	781	833	78	83	70-130	6	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 70496.17
Pace Project No.: 10421091

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

A3	The sample was analyzed by serial dilution.
A4	Sample was transferred from a sampling bag into a Summa Canister within 48 hours of collection.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 70496.17
Pace Project No.: 10421091

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10421091001	**A-021618-JRL-INF**	TO-15	525567		
10421091002	**A-021618-JRL-EFF**	TO-15	525567		
10421091001	**A-021618-JRL-INF**	TO-3 Air	525392		

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WO# : 10421091

10421091

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Requ

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fie

Page : 1 Of 1

Section A — Required Client Information:

Company: GHD Services, Inc.
Address: 20818 44th Avenue West, Suite 190, Lynnwood, WA 98036
Email To: christina.mcclelland@ghd.com, eric.maise@ghd.com, thuan.bui@ghd.com
Phone: (425)563-6502 Fax:
Requested Due Date/TAT: Standard

Section B — Required Project Information:

Report To: Christina McClelland
Copy To: Eric Maise and Thuan Bui
Purchase Order No.: 34023555
Client Project ID: 70496.17
Container Order Number:

Section C — Invoice Information:

Attention: Christina McClelland
Company Name: GHD Services, Inc.
Address: 2055 Niagara Falls Boulevard Suite #3, Niagara Falls, New York, 14304
Pace Quote Reference:
Pace Project Manager: Jennifer Gross
Pace Profile #: 31060 12

Regulatory Agency: State / Location: WA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM#	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	NWTPH-Gx (TPH-g)	BTEX (TO-15)	METHANE (TO-3M)	Residual Chlorine (Y/N)	
1	A-021618 -JRL -INF	OT	G	2/16/18	1318				1	X									X	X	X		001
2	A-021618 -JRL -EFF	OT	G	2/16/18	1315				1	X									X	X			002
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SHORT HOLD	GHD	2/16	1350	FEDEX	2-16-18	1350	AMB	N	N	Y
		2-16-18	1700		2-17-18	910	—	N	N	Y
GW MONTHLY										

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: JOE LEWANDOWSKI / ERIC MAISE
SIGNATURE of SAMPLER:
DATE Signed: 02/16/18

Pace Analytical	Document Name: **Air Sample Condition Upon Receipt**	Document Revised: 28Dec2017 Page 1 of 1
	Document No.: **F-MN-A-106-rev.14**	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: GHD

Project #: **WO#: 10421091**

PM: JMG Due Date: 03/02/18

CLIENT: GHD_COP

Courier: ☑ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:_____

Tracking Number: 4249 3595 8935

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Tin Can ☐ Other:_____ **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): X **Corrected Temp (°C):** X **Thermom. Used:** ☐ 151401163 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 2-19-18 AA

Type of Ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☑ Yes	☐ No	☐ N/A	6. transferred to cans on 2-17-18
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: Air Can (Airbag) Filter TDT Passive				11. Individually Certified Cans Y N (list which samples)
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received: Pressure Gauge # 10AIR26

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Jina Sloan **Date:** 2/19/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical®	Document Name: Cooler Transfer Check List	Revised Date: 19Jan2018 Page 1 of 1
	Document Number: F-MN-C-120-rev.02	Issuing Authority: Pace Minnesota Quality Office

Cooler Transfer Check List

Client: GHD-COP

Project Manager: Jenni Gross

Profile/Line #: 31060/2

Received with Custody Seal: Yes (No)

Custody Seal Intact: Yes No (NA)

	Temp Read	Corrected Temp	Correction Factor
Temperature C:	AMB	—	—

IR Gun # IR1 -Q281 / IR2-122065284

☐ Samples on ice, cooling process has begun

Rush/Short Hold: Tedlar Bag

Containers Intact: (Yes) No

Re-packed and ~~Re-Iced~~: ✓ 2/16/18

Temp Blank Included: Yes (No)

Shipped By/Date: MW 2-16-18

Notes:

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 02, 2018

Thuan Bui
GHD
20818 44th Avenue West
Suite 190
Lynnwood, WA 98036

RE: Project: 70496
Pace Project No.: 10421070

Dear Thuan Bui:
Enclosed are the analytical results for sample(s) received by the laboratory on February 17, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(206)957-2426
Project Manager

Enclosures

cc: Jeff Gaarder, GHD
Eric Maise, GHD Services Inc.
Christina McClelland, GHD Services, Inc.
Accounts Payable, GHD_Conoco Phillips

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CERTIFICATIONS

Project: 70496
Pace Project No.: 10421070

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 70496
Pace Project No.: 10421070

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10421070001	**GW-021618-JRL-INF 1**	Water	02/16/18 13:00	02/17/18 09:10
10421070002	**GW-021618-JRL-INF 2**	Water	02/16/18 12:30	02/17/18 09:10
10421070003	**GW-021618-JRL-MID 1**	Water	02/16/18 12:20	02/17/18 09:10
10421070004	**GW-021618-JRL-MID 2**	Water	02/16/18 12:10	02/17/18 09:10
10421070005	**GW-021618-JRL-Total EFF**	Water	02/16/18 12:00	02/17/18 09:10
10421070006	**GW-021618-JRL-Total EFF 1**	Water	02/16/18 12:00	02/17/18 09:10
10421070007	**GW-021618-JRL-Total EFF 2**	Water	02/16/18 12:15	02/17/18 09:10
10421070008	**GW-021618-JRL-Total EFF 3**	Water	02/16/18 12:30	02/17/18 09:10
10421070009	**GW-021618-JRL-Total EFF 4**	Water	02/16/18 12:45	02/17/18 09:10
10421070010	**GW-021618-JRL-Total EFF 1-4**	Water	02/16/18 12:45	02/17/18 09:10
10421070011	**GW-021618-JRL-Total EFF 5**	Water	02/16/18 12:00	02/17/18 09:10
10421070012	**GW-021618-JRL-Total EFF 6**	Water	02/16/18 12:15	02/17/18 09:10
10421070013	**GW-021618-JRL-Total EFF 7**	Water	02/16/18 12:30	02/17/18 09:10
10421070014	**GW-021618-JRL-Total EFF 5-7**	Water	02/16/18 12:30	02/17/18 09:10
10421070015	**Trip Blank**	Water	02/16/18 00:00	02/17/18 09:10

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SAMPLE ANALYTE COUNT

Project: 70496
Pace Project No.: 10421070

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10421070001	**GW-021618-JRL-INF 1**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10421070002	**GW-021618-JRL-INF 2**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10421070003	**GW-021618-JRL-MID 1**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10421070004	**GW-021618-JRL-MID 2**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10421070005	**GW-021618-JRL-Total EFF**	NWTPH-Dx	EC2	4	PASI-M
10421070010	**GW-021618-JRL-Total EFF 1-4**	NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10421070014	**GW-021618-JRL-Total EFF 5-7**	EPA 1664A OG	AR3	1	PASI-M
10421070015	**Trip Blank**	NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	DS2	7	PASI-M

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ANALYTICAL RESULTS

Project: 70496
Pace Project No.: 10421070

Sample: GW-021618-JRL-INF 1 **Lab ID: 10421070001** Collected: 02/16/18 13:00 Received: 02/17/18 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	**2.2**	mg/L	0.39	1	02/19/18 13:56	02/21/18 08:41	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.39	1	02/19/18 13:56	02/21/18 08:41	64742-65-0	
Surrogates								
o-Terphenyl (S)	76	%.	50-150	1	02/19/18 13:56	02/21/18 08:41	84-15-1	
n-Triacontane (S)	77	%.	50-150	1	02/19/18 13:56	02/21/18 08:41	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	**49800**	ug/L	1000	10		02/20/18 20:55		
Surrogates								
a,a,a-Trifluorotoluene (S)	93	%.	50-150	10		02/20/18 20:55	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	**6050**	ug/L	25.0	25		02/23/18 20:19	71-43-2	
Ethylbenzene	**708**	ug/L	25.0	25		02/23/18 20:19	100-41-4	
Toluene	**7610**	ug/L	50.0	50		02/26/18 14:05	108-88-3	
Xylene (Total)	**5380**	ug/L	150	50		02/26/18 14:05	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	75-125	25		02/23/18 20:19	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	25		02/23/18 20:19	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	25		02/23/18 20:19	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 70496
Pace Project No.: 10421070

Sample: GW-021618-JRL-INF 2 **Lab ID: 10421070002** Collected: 02/16/18 12:30 Received: 02/17/18 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	**1.7**	mg/L	0.40	1	02/19/18 13:56	02/21/18 08:52	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	02/19/18 13:56	02/21/18 08:52	64742-65-0	
Surrogates								
o-Terphenyl (S)	72	%.	50-150	1	02/19/18 13:56	02/21/18 08:52	84-15-1	
n-Triacontane (S)	73	%.	50-150	1	02/19/18 13:56	02/21/18 08:52	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	**1050**	ug/L	100	1		02/20/18 18:22		
Surrogates								
a,a,a-Trifluorotoluene (S)	93	%.	50-150	1		02/20/18 18:22	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	**175**	ug/L	1.0	1		02/20/18 01:44	71-43-2	
Ethylbenzene	**6.8**	ug/L	1.0	1		02/20/18 01:44	100-41-4	
Toluene	**152**	ug/L	1.0	1		02/20/18 01:44	108-88-3	
Xylene (Total)	**92.3**	ug/L	3.0	1		02/20/18 01:44	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	75-125	1		02/20/18 01:44	17060-07-0	
Toluene-d8 (S)	89	%.	75-125	1		02/20/18 01:44	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		02/20/18 01:44	460-00-4	

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ANALYTICAL RESULTS

Project: 70496
Pace Project No.: 10421070

Sample: GW-021618-JRL-MID 1 **Lab ID: 10421070003** Collected: 02/16/18 12:20 Received: 02/17/18 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.40	1	02/19/18 13:56	02/21/18 09:03	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	02/19/18 13:56	02/21/18 09:03	64742-65-0	
Surrogates								
o-Terphenyl (S)	77	%.	50-150	1	02/19/18 13:56	02/21/18 09:03	84-15-1	
n-Triacontane (S)	74	%.	50-150	1	02/19/18 13:56	02/21/18 09:03	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		02/20/18 18:39		
Surrogates								
a,a,a-Trifluorotoluene (S)	84	%.	50-150	1		02/20/18 18:39	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	**12.9**	ug/L	1.0	1		02/20/18 01:09	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 01:09	100-41-4	
Toluene	**2.5**	ug/L	1.0	1		02/20/18 01:09	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		02/20/18 01:09	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%.	75-125	1		02/20/18 01:09	17060-07-0	
Toluene-d8 (S)	96	%.	75-125	1		02/20/18 01:09	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		02/20/18 01:09	460-00-4	

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ANALYTICAL RESULTS

Project: 70496
Pace Project No.: 10421070

Sample: GW-021618-JRL-MID 2 **Lab ID: 10421070004** Collected: 02/16/18 12:10 Received: 02/17/18 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.40	1	02/19/18 13:56	02/21/18 09:14	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	02/19/18 13:56	02/21/18 09:14	64742-65-0	
Surrogates								
o-Terphenyl (S)	75	%.	50-150	1	02/19/18 13:56	02/21/18 09:14	84-15-1	
n-Triacontane (S)	78	%.	50-150	1	02/19/18 13:56	02/21/18 09:14	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		02/20/18 18:05		
Surrogates								
a,a,a-Trifluorotoluene (S)	85	%.	50-150	1		02/20/18 18:05	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		02/20/18 01:26	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 01:26	100-41-4	
Toluene	ND	ug/L	1.0	1		02/20/18 01:26	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		02/20/18 01:26	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%.	75-125	1		02/20/18 01:26	17060-07-0	
Toluene-d8 (S)	94	%.	75-125	1		02/20/18 01:26	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		02/20/18 01:26	460-00-4	

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ANALYTICAL RESULTS

Project: 70496
Pace Project No.: 10421070

Sample: GW-021618-JRL-Total EFF **Lab ID: 10421070005** Collected: 02/16/18 12:00 Received: 02/17/18 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx		Preparation Method: EPA Mod. 3510C					
Diesel Fuel Range SG	ND	mg/L	0.39	1	02/19/18 13:56	02/21/18 09:25	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.39	1	02/19/18 13:56	02/21/18 09:25	64742-65-0	
Surrogates								
o-Terphenyl (S)	65	%.	50-150	1	02/19/18 13:56	02/21/18 09:25	84-15-1	
n-Triacontane (S)	68	%.	50-150	1	02/19/18 13:56	02/21/18 09:25	638-68-6	

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ANALYTICAL RESULTS

Project: 70496
Pace Project No.: 10421070

Sample: GW-021618-JRL-Total EFF 1-4 **Lab ID: 10421070010** Collected: 02/16/18 12:45 Received: 02/17/18 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		02/19/18 16:27		
Surrogates								
a,a,a-Trifluorotoluene (S)	84	%.	50-150	1		02/19/18 16:27	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		02/20/18 00:51	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 00:51	100-41-4	
Toluene	ND	ug/L	1.0	1		02/20/18 00:51	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		02/20/18 00:51	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%.	75-125	1		02/20/18 00:51	17060-07-0	
Toluene-d8 (S)	95	%.	75-125	1		02/20/18 00:51	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1		02/20/18 00:51	460-00-4	

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ANALYTICAL RESULTS

Project: 70496
Pace Project No.: 10421070

Sample: GW-021618-JRL-Total EFF 5-7 **Lab ID: 10421070014** Collected: 02/16/18 12:30 Received: 02/17/18 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 HEM, Oil and Grease	Analytical Method: EPA 1664A OG							
Oil and Grease	ND	mg/L	6.5	1		02/23/18 07:46		

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ANALYTICAL RESULTS

Project: 70496
Pace Project No.: 10421070

Sample: Trip Blank **Lab ID: 10421070015** Collected: 02/16/18 00:00 Received: 02/17/18 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		02/20/18 21:29		
Surrogates								
a,a,a-Trifluorotoluene (S)	85	%.	50-150	1		02/20/18 21:29	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		02/19/18 23:41	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		02/19/18 23:41	100-41-4	
Toluene	ND	ug/L	1.0	1		02/19/18 23:41	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		02/19/18 23:41	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%.	75-125	1		02/19/18 23:41	17060-07-0	
Toluene-d8 (S)	94	%.	75-125	1		02/19/18 23:41	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		02/19/18 23:41	460-00-4	

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QUALITY CONTROL DATA

Project: 70496
Pace Project No.: 10421070

QC Batch: 523624 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10421070010

METHOD BLANK: 2842681 Matrix: Water
Associated Lab Samples: 10421070010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	02/19/18 11:55	
a,a,a-Trifluorotoluene (S)	%.	93	50-150	02/19/18 11:55	

METHOD BLANK: 2842682 Matrix: Water
Associated Lab Samples: 10421070010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	02/19/18 12:12	
a,a,a-Trifluorotoluene (S)	%.	85	50-150	02/19/18 12:12	

LABORATORY CONTROL SAMPLE & LCSD: 2842683 2842684

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1080	1070	108	107	41-137	1	20	
a,a,a-Trifluorotoluene (S)	%.				91	96	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2842903 2842904

Parameter	Units	10420188004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	ND	1000	1000	1080	1070	108	107	30-145	2	30	
a,a,a-Trifluorotoluene (S)	%.						102	97	50-150			

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 70496
Pace Project No.: 10421070

QC Batch: 523827 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10421070001, 10421070002, 10421070003, 10421070004, 10421070015

METHOD BLANK: 2843335 Matrix: Water
Associated Lab Samples: 10421070001, 10421070002, 10421070003, 10421070004, 10421070015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	02/20/18 15:56	
a,a,a-Trifluorotoluene (S)	%.	86	50-150	02/20/18 15:56	

METHOD BLANK: 2843336 Matrix: Water
Associated Lab Samples: 10421070001, 10421070002, 10421070003, 10421070004, 10421070015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	02/20/18 16:24	
a,a,a-Trifluorotoluene (S)	%.	90	50-150	02/20/18 16:24	

LABORATORY CONTROL SAMPLE & LCSD: 2843337 2843338

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1050	1060	105	106	41-137	0	20	
a,a,a-Trifluorotoluene (S)	%.				107	95	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2843339 2843340

Parameter	Units	10421070004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	ND	1000	1000	1090	1050	109	105	30-145	4	30	
a,a,a-Trifluorotoluene (S)	%.						98	94	50-150			

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QUALITY CONTROL DATA

Project: 70496
Pace Project No.: 10421070

QC Batch: 523721 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 10421070002, 10421070003, 10421070004, 10421070010, 10421070015

METHOD BLANK: 2843055 Matrix: Water
Associated Lab Samples: 10421070002, 10421070003, 10421070004, 10421070010, 10421070015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	02/19/18 21:57	
Ethylbenzene	ug/L	ND	1.0	02/19/18 21:57	
Toluene	ug/L	ND	1.0	02/19/18 21:57	
Xylene (Total)	ug/L	ND	3.0	02/19/18 21:57	
1,2-Dichloroethane-d4 (S)	%.	106	75-125	02/19/18 21:57	
4-Bromofluorobenzene (S)	%.	98	75-125	02/19/18 21:57	
Toluene-d8 (S)	%.	95	75-125	02/19/18 21:57	

LABORATORY CONTROL SAMPLE & LCSD: 2843056 2843064

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	59.2	56.9	118	114	75-126	4	20	
Ethylbenzene	ug/L	50	55.3	53.4	111	107	75-125	3	20	
Toluene	ug/L	50	53.3	51.5	107	103	74-125	3	20	
Xylene (Total)	ug/L	150	148	142	99	95	75-125	4	20	
1,2-Dichloroethane-d4 (S)	%.				97	95	75-125			
4-Bromofluorobenzene (S)	%.				97	99	75-125			
Toluene-d8 (S)	%.				95	96	75-125			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2843065 2843066

Parameter	Units	10421087001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	3.2	20	20	26.7	25.8	118	113	62-140	3	30	
Ethylbenzene	ug/L	<0.14	20	20	22.4	21.1	112	105	75-131	6	30	
Toluene	ug/L	<0.17	20	20	21.4	20.5	107	102	68-132	4	30	
Xylene (Total)	ug/L	<0.24	60	60	59.5	56.1	99	94	69-135	6	30	
1,2-Dichloroethane-d4 (S)	%.						93	99	75-125			
4-Bromofluorobenzene (S)	%.						98	97	75-125			
Toluene-d8 (S)	%.						93	93	75-125			

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(612)607-1700

QUALITY CONTROL DATA

Project: 70496
Pace Project No.: 10421070

QC Batch: 524530 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 10421070001

METHOD BLANK: 2846727 Matrix: Water
Associated Lab Samples: 10421070001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	02/23/18 17:17	
Ethylbenzene	ug/L	ND	1.0	02/23/18 17:17	
Toluene	ug/L	ND	1.0	02/23/18 17:17	
Xylene (Total)	ug/L	ND	3.0	02/23/18 17:17	
1,2-Dichloroethane-d4 (S)	%.	109	75-125	02/23/18 17:17	
4-Bromofluorobenzene (S)	%.	103	75-125	02/23/18 17:17	
Toluene-d8 (S)	%.	97	75-125	02/23/18 17:17	

LABORATORY CONTROL SAMPLE & LCSD: 2846728 2846726

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	21.1	20.5	105	103	75-126	3	20	
Ethylbenzene	ug/L	20	21.3	20.9	107	104	75-125	2	20	
Toluene	ug/L	20	20.3	20.0	101	100	74-125	1	20	
Xylene (Total)	ug/L	60	63.4	62.6	106	104	75-125	1	20	
1,2-Dichloroethane-d4 (S)	%.				99	100	75-125			
4-Bromofluorobenzene (S)	%.				101	100	75-125			
Toluene-d8 (S)	%.				98	99	75-125			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2846729 2846730

Parameter	Units	10421070001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	6050	500	500	6540	6500	99	91	62-140	1	30	E
Ethylbenzene	ug/L	708	500	500	1320	1280	122	115	75-131	3	30	
Toluene	ug/L	7610	500	500	8140	7990	106	76	68-132	2	30	E
Xylene (Total)	ug/L	5380	1500	1500	6920	6770	102	92	69-135	2	30	ES
1,2-Dichloroethane-d4 (S)	%.						96	96	75-125			
4-Bromofluorobenzene (S)	%.						97	101	75-125			
Toluene-d8 (S)	%.						97	98	75-125			

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QUALITY CONTROL DATA

Project: 70496
Pace Project No.: 10421070

QC Batch: 523836 Analysis Method: NWTPH-Dx
QC Batch Method: EPA Mod. 3510C Analysis Description: NWTPH-Dx GCS LV SG
Associated Lab Samples: 10421070001, 10421070002, 10421070003, 10421070004, 10421070005

METHOD BLANK: 2843356 Matrix: Water
Associated Lab Samples: 10421070001, 10421070002, 10421070003, 10421070004, 10421070005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel Range SG	mg/L	ND	0.40	02/21/18 08:07	
Motor Oil Range SG	mg/L	ND	0.40	02/21/18 08:07	
n-Triacontane (S)	%.	70	50-150	02/21/18 08:07	
o-Terphenyl (S)	%.	77	50-150	02/21/18 08:07	

LABORATORY CONTROL SAMPLE & LCSD: 2843357 2843358

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	2	1.7	1.6	84	80	50-150	6	20	
Motor Oil Range SG	mg/L	2	1.6	1.5	79	77	50-150	3	20	
n-Triacontane (S)	%.				77	77	50-150			
o-Terphenyl (S)	%.				81	77	50-150			

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QUALITY CONTROL DATA

Project: 70496
Pace Project No.: 10421070

QC Batch: 524459 Analysis Method: EPA 1664A OG
QC Batch Method: EPA 1664A OG Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 10421070014

METHOD BLANK: 2846414 Matrix: Water
Associated Lab Samples: 10421070014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/23/18 07:46	

LABORATORY CONTROL SAMPLE: 2846415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	31.3	78	78-114	

MATRIX SPIKE SAMPLE: 2846416

Parameter	Units	10421257001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	41.7	31.1	73	78-114	M1

SAMPLE DUPLICATE: 2846417

Parameter	Units	10421296001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	942	938	0	18	1M

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(612)607-1700

QUALIFIERS

Project: 70496
Pace Project No.: 10421070

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: 524459

[BE]	Batch extracted by solid phase extraction (SPE).

ANALYTE QUALIFIERS

1M	Sample pH adjusted using 3mL 6N HCl.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
ES	The reported result is estimated because one or more of the constituent results are qualified as such.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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METHOD CROSS REFERENCE TABLE

Project: 70496
Pace Project No.: 10421070

Parameter	Matrix	Analytical Method	Preparation Method
8260B MSV UST	Water	SW-846 8260B/5030B	N/A

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 70496
Pace Project No.: 10421070

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10421070001	**GW-021618-JRL-INF 1**	EPA Mod. 3510C	523836	NWTPH-Dx	524045
10421070002	**GW-021618-JRL-INF 2**	EPA Mod. 3510C	523836	NWTPH-Dx	524045
10421070003	**GW-021618-JRL-MID 1**	EPA Mod. 3510C	523836	NWTPH-Dx	524045
10421070004	**GW-021618-JRL-MID 2**	EPA Mod. 3510C	523836	NWTPH-Dx	524045
10421070005	**GW-021618-JRL-Total EFF**	EPA Mod. 3510C	523836	NWTPH-Dx	524045
10421070001	**GW-021618-JRL-INF 1**	NWTPH-Gx	523827		
10421070002	**GW-021618-JRL-INF 2**	NWTPH-Gx	523827		
10421070003	**GW-021618-JRL-MID 1**	NWTPH-Gx	523827		
10421070004	**GW-021618-JRL-MID 2**	NWTPH-Gx	523827		
10421070010	**GW-021618-JRL-Total EFF 1-4**	NWTPH-Gx	523624		
10421070015	**Trip Blank**	NWTPH-Gx	523827		
10421070001	**GW-021618-JRL-INF 1**	EPA 8260B	524530		
10421070002	**GW-021618-JRL-INF 2**	EPA 8260B	523721		
10421070003	**GW-021618-JRL-MID 1**	EPA 8260B	523721		
10421070004	**GW-021618-JRL-MID 2**	EPA 8260B	523721		
10421070010	**GW-021618-JRL-Total EFF 1-4**	EPA 8260B	523721		
10421070015	**Trip Blank**	EPA 8260B	523721		
10421070014	**GW-021618-JRL-Total EFF 5-7**	EPA 1664A OG	524459		

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WO# : 10421070

10421070

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accu.

Page : 1 Of 1

Section A — Required Client Information:

Company: GHD Services, Inc.
Address: 20818 44th Avenue West, Suite 190, Lynnwood, WA 98036
Email To: jeff.gaarder@ghd.com, christina.mcclelland@ghd.com
Phone: (425)563-6502 Fax:
Requested Due Date/TAT: Standard

Section B — Required Project Information:

Report To: Jeff Gaarder
Copy To: Christina McClelland
Purchase Order No.:
Client Project ID: 70496
Container Order Number:

Section C — Invoice Information:

Attention: Jeff Gaarder
Company Name: GHD Services, Inc.
Address: 2055 Niagara Falls Boulevard Suite #3, Niagara Falls, New York, 14304
Pace Quote Reference:
Pace Project Manager: Jennifer Gross
Pace Profile #: 31060/1

Regulatory Agency:
State / Location:

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM#	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TPHd (NWTPH-Dx)	TPHg (NWTPH-Gx)	BTEX (EPA 8260)	FOG 1664	Residual Chlorine (Y/N)	
1	GW-021618 - JRL -INF 1	WT	G	2/16/18	1300				8				x						x	x	x				-001
	GW-021618 - JRL -INF 2	WT	G		1230				8				x						x	x	x				-002
2	GW-021618 - JRL -MID 1	WT	G		1220				8				x						x	x	x				-003
3	GW-021618 - JRL -MID 2	WT	G		1210				8				x						x	x	x				-004
4	GW-021618 - JRL -Total EFF	WT	G		1200				2				x						x						-005
5	GW-021618 - JRL -Total EFF 1	WT	G		1200				2				x							x	x			Composite EFF 1, 2, 3, 4 at lab	-006
6	GW-021618 - JRL -Total EFF 2	WT	G		1215				2				x							x	x				-007
7	GW-021618 - JRL -Total EFF 3	WT	G		1230				2				x							x	x				-008
8	GW-021618 - JRL -Total EFF 4	WT	G		1245				2				x							x	x				-009
9	GW-021618 - JRL -Total EFF 5	WT	G		1200				1				x									x		Composite EFF 5, 6, 7 at lab	-011
10	GW-021618 - JRL -Total EFF 6	WT	G		1215				1				x									x			-012
11	GW-021618 - JRL -Total EFF 7	WT	G		1230				1													x			-013

-010 -014 -015 TB

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	GHD	2/16	1350	Pace	2-16-18	13:55	2.1	Y	N	Y
					2/17/18	9:10	0.5	Y	Y	Y

GW-MONTHLY

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: JOE LEWANDOWSKI / ERIC MAISE
SIGNATURE of SAMPLER: DATE Signed: 02/16/18

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 14Dec2017 Page 1 of 2
	Document No.: **F-MN-L-213-rev.22**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: GHD Services Inc. **Project #:** **WO#: 10421070**

PM: JMG Due Date: 03/02/18

CLIENT: GHD_COP

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number: 4249 3595 8913

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No **Optional:** Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☑ 151401163 ☐ G87A9155100842 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Cooler Temp Read (°C): 0.5 **Cooler Temp Corrected (°C):** 0.3 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** -0.2 **Date and Initials of Person Examining Contents:** 2/17/18 ZO

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present?	☑ Yes ☐ No	1.
Chain of Custody Filled Out?	☑ Yes ☐ No	2.
Chain of Custody Relinquished?	☑ Yes ☐ No	3.
Sampler Name and/or Signature on COC?	☑ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes ☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☑ No	6.
Rush Turn Around Time Requested?	☐ Yes ☑ No	7.
Sufficient Volume?	☑ Yes ☐ No	8.
Correct Containers Used? -Pace Containers Used?	☑ Yes ☐ No ☑ Yes ☐ No	9.
Containers Intact? 2/19/18	☑ Yes ☐ No	10. 1/6 sample INF2 received broken
Filtered Volume Received for Dissolved Tests?	☐ Yes ☐ No ☑ N/A	11. Note if sediment is visible in the dissolved container VG9H
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes ☐ No	12.
All containers needing acid/base preservation have been checked?	☐ Yes ☐ No ☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH Positive for Res. Chlorine? Y N Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	☐ Yes ☐ No ☑ N/A ☑ Yes ☐ No ☐ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☑ Yes ☐ No ☐ N/A	14. See exception
Trip Blank Present?	☑ Yes ☐ No ☐ N/A	15.
Trip Blank Custody Seals Present? Pace Trip Blank Lot # (if purchased): 142170	☑ Yes ☐ No ☐ N/A	

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Jina Soltani **Date:** 2/19/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical	Document Name: **Headspace Exception**	Document Revised: 06Nov2017 Page 1 of 1
	Document No.: **F-MN-C-276-Rev.00**	Issuing Authority: Pace Minnesota Quality Office

Sample ID	Headspace > 6mm	Headspace < 6mm	No Headspace	Total Vials
INF1	0	2	4	6
INF2	0	5	0	5
MID1	0	6	0	6
MID2	0	4	2	6
EFF1	0	1	1	2
EFF2	0	1	1	2
EFF3	0	2	0	2
EFF4	0	2	0	2
Trip Blank.	0	3	3	6

Pace Analytical®	Document Name: Cooler Transfer Check List	Revised Date: 19Jan2018 Page 1 of 1
	Document Number: F-MN-C-120-rev.02	Issuing Authority: Pace Minnesota Quality Office

Cooler Transfer Check List

Client: GHD-COP

Project Manager: Jenni Gross

Profile/Line #: 310660/1

Received with Custody Seal: Yes (No)

Custody Seal Intact: Yes No (NA)

	Temp Read	Corrected Temp	Correction Factor
Temperature C:	2.1	2.1	0.0

IR Gun # (IR1-Q281) / IR2-122065284

☑ Samples on ice, cooling process has begun

Rush/Short Hold: NA

Containers Intact: (Yes) No

Re-packed and Re-Iced: ✓

Temp Blank Included: (Yes) No

Shipped By/Date: NO 2-16-18

* Notes: Lab to composite 6,7,8,9 into -010
Lab to composite 11,12,13 into -014

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 28, 2018

Thuan Bui
GHD
20818 44th Avenue West
Suite 190
Lynnwood, WA 98036

RE: Project: 70496.17
Pace Project No.: 10423462

Dear Thuan Bui:
Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(206)957-2426
Project Manager

Enclosures

cc: Eric Maise, GHD Services Inc.
Christina McClelland, GHD Services, Inc.
Accounts Payable, GHD_Conoco Phillips

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 70496.17
Pace Project No.: 10423462

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 70496.17
Pace Project No.: 10423462

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10423462001	**A-031318-JRL-INF**	Air	03/13/18 14:25	03/14/18 10:15
10423462002	**A-031318-JRL-EFF**	Air	03/13/18 14:20	03/14/18 10:15

REPORT OF LABORATORY ANALYSIS

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(612)607-1700

SAMPLE ANALYTE COUNT

Project: 70496.17
Pace Project No.: 10423462

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10423462001	**A-031318-JRL-INF**	TO-15	AFV	6	PASI-M
		TO-3 Air	CH1	1	PASI-M
10423462002	**A-031318-JRL-EFF**	TO-15	AFV	6	PASI-M

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ANALYTICAL RESULTS

Project: 70496.17
Pace Project No.: 10423462

Sample: A-031318-JRL-INF **Lab ID: 10423462001** Collected: 03/13/18 14:25 Received: 03/14/18 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Benzene	**2.1**	ppmv	0.012	115.42		03/28/18 04:41	71-43-2	A4
Ethylbenzene	**0.54**	ppmv	0.023	115.42		03/28/18 04:41	100-41-4	
THC as Gas	**61.7**	ppmv	2.8	115.42		03/28/18 04:41		
Toluene	**3.5**	ppmv	0.023	115.42		03/28/18 04:41	108-88-3	
m&p-Xylene	**2.6**	ppmv	0.046	115.42		03/28/18 04:41	179601-23-1	
o-Xylene	**0.90**	ppmv	0.023	115.42		03/28/18 04:41	95-47-6	
TO3 GCV AIR Meth,Ethane,Ethene	Analytical Method: TO-3 Air							
Methane	**58.4**	ppmv	22.9	2.29		03/26/18 10:36	74-82-8	A4

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 70496.17
Pace Project No.: 10423462

Sample: A-031318-JRL-EFF **Lab ID: 10423462002** Collected: 03/13/18 14:20 Received: 03/14/18 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Benzene	**0.0017**	ppmv	0.00020	1.96		03/28/18 01:12	71-43-2	A4
Ethylbenzene	ND	ppmv	0.00039	1.96		03/28/18 01:12	100-41-4	
THC as Gas	**0.87**	ppmv	0.047	1.96		03/28/18 01:12		
Toluene	**0.0016**	ppmv	0.00039	1.96		03/28/18 01:12	108-88-3	
m&p-Xylene	**0.0012**	ppmv	0.00078	1.96		03/28/18 01:12	179601-23-1	
o-Xylene	**0.00047**	ppmv	0.00039	1.96		03/28/18 01:12	95-47-6	

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QUALITY CONTROL DATA

Project: 70496.17
Pace Project No.: 10423462

QC Batch: 529284 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10423462001, 10423462002

METHOD BLANK: 2872666 Matrix: Air
Associated Lab Samples: 10423462001, 10423462002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppmv	ND	0.00010	03/27/18 15:21	
Ethylbenzene	ppmv	ND	0.00020	03/27/18 15:21	
m&p-Xylene	ppmv	ND	0.00040	03/27/18 15:21	
o-Xylene	ppmv	ND	0.00020	03/27/18 15:21	
THC as Gas	ppmv	ND	0.024	03/27/18 15:21	N2
Toluene	ppmv	ND	0.00020	03/27/18 15:21	

LABORATORY CONTROL SAMPLE: 2872667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ppmv	.01	0.0099	99	70-134	
Ethylbenzene	ppmv	.01	0.011	108	70-133	
m&p-Xylene	ppmv	.02	0.021	107	70-133	
o-Xylene	ppmv	.01	0.010	103	70-132	
THC as Gas	ppmv	1.1	1.2	105	59-150	N2
Toluene	ppmv	.01	0.010	103	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 70496.17
Pace Project No.: 10423462

QC Batch: 528985 Analysis Method: TO-3 Air
QC Batch Method: TO-3 Air Analysis Description: TO3 GCV AIR METH,ETHANE,ETHENE
Associated Lab Samples: 10423462001

METHOD BLANK: 2871035 Matrix: Air
Associated Lab Samples: 10423462001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ppmv	ND	10.0	03/26/18 09:01	

LABORATORY CONTROL SAMPLE & LCSD: 2871036 2871037

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ppmv	1000	738	717	74	72	70-130	3	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(612)607-1700

QUALIFIERS

Project: 70496.17
Pace Project No.: 10423462

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

SAMPLE QUALIFIERS

Sample: 10423462001

[1]	Sample was collected in a sampling bag. Sampling bags are not certified for volatile organic compound concentrations prior to sample collection.

Sample: 10423462002

[1]	Sample was collected in a sampling bag. Sampling bags are not certified for volatile organic compound concentrations prior to sample collection.

ANALYTE QUALIFIERS

A4	Sample was transferred from a sampling bag into a Summa Canister within 48 hours of collection.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.

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(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 70496.17
Pace Project No.: 10423462

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10423462001	**A-031318-JRL-INF**	TO-15	529284		
10423462002	**A-031318-JRL-EFF**	TO-15	529284		
10423462001	**A-031318-JRL-INF**	TO-3 Air	528985		

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Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Docu

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be c

WO# : 10423462

10423462

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GHD Services, Inc.	Report To: Christina McClelland	Attention: Christina McClelland
Address: 20818 44th Avenue West, Suite 190 Lynnwood, WA 98036	Copy To: Eric Maise and Thuan Bui	Company Name: GHD Services, Inc. Address: 2055 Niagara Falls Boulevard Suite #3, Niagara Falls, New York, 14304
Email To: christina.mcclelland@ghd.com, eric.maise@ghd.com, thuan.bui@ghd.com	Purchase Order No.	Pace Quote Reference:
Phone: (425)563-6502 Fax:	Client Project ID: 70496.17	Pace Project Manager: Jennifer Gross
Requested Due Date/TAT: Standard	Container Order Number:	Pace Profile #:

Regulatory Agency

State / Location

Requested Analysis Filtered (Y/N)

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM#	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	NWTPH-Gx (TPHg)	BTEX (TO-15)	METHANE (TO-3M)	Residual Chlorine (Y/N)	
1	A- 031318 - JLL -INF	OT	G	3/13/18	1425				1	X									X	X	X		001
2	A- 031318 - JLL -EFF	OT	G	3/13/18	1420				1	X									X	X			002
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SHORT HOLD	GHD	3-13-18	1500		3/13/18	1500	—	N	N	Y
TEDLAR				Don Paul	3/14/18	1015	—	N	Y	Y
									EK 3/14	
GW MONTHLY										

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	JOE LEWANDOWSKI / THUAN BUI	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	DATE Signed: 3/13/18				

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 28Dec2017 Page 1 of 1
	Document No.: F-MN-A-106-rev.14	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: GHD

Project #: WO#: 10423462

PM: JMG Due Date: 03/27/18

CLIENT: GHD_COP

Courier: ☑ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 424935595909

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Foam ☑ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): **Corrected Temp (°C):** **Thermom. Used:** ☐ 151401163 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** **Date & Initials of Person Examining Contents:** 3/14/18

Type of ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: Air Can Airbag Filter TDT Passive				11. Individually Certified Cans Y N (list which samples)
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received: Pressure Gauge # 10AIR26

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Jenni Gross **Date:** 03/14/18

Note: Whenever there is a discrepancy affectin e samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical®	Document Name: Cooler Transfer Check List	Revised Date: 19Jan2018 Page 1 of 1
	Document Number: F-MN-C-120-rev.02	Issuing Authority: Pace Minnesota Quality Office

Cooler Transfer Check List

Client: COP-EHD

Project Manager: JENN GROSS

Profile/Line #: 31060/2

Received with Custody Seal: Yes (No)

Custody Seal Intact: Yes No (NA)

	Temp Read	Corrected Temp	Correction Factor
Temperature C:	—	—	

IR Gun # IR1 -Q281 / IR2-122065284

☐ Samples on ice, cooling process has begun AMBIENT

Rush/Short Hold: Tedlar

Containers Intact: (Yes) No

Re-packed and ~~Re-Iced~~: ✓
CE 3/13/18

Temp Blank Included: Yes (No)

Shipped By/Date: MD 3-13-18

Notes:

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 26, 2018

Thuan Bui
GHD
20818 44th Avenue West
Suite 190
Lynnwood, WA 98036

RE: Project: 70496.17
Pace Project No.: 10423575

Dear Thuan Bui:
Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(206)957-2426
Project Manager

Enclosures

cc: Eric Maise, GHD Services Inc.
Christina McClelland, GHD Services, Inc.
Accounts Payable, GHD_Conoco Phillips

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 70496.17
Pace Project No.: 10423575

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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(612)607-1700

SAMPLE SUMMARY

Project: 70496.17
Pace Project No.: 10423575

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10423575001	**GW-031318-JRL-INF 1**	Water	03/13/18 14:00	03/14/18 10:15
10423575002	**GW-031318-JRL-INF 2**	Water	03/13/18 13:45	03/14/18 10:15
10423575003	**GW-031318-JRL-MID 1**	Water	03/13/18 13:35	03/14/18 10:15
10423575004	**GW-031318-JRL-MID 2**	Water	03/13/18 13:20	03/14/18 10:15
10423575005	**GW-031318-JRL-Total EFF**	Water	03/13/18 13:15	03/14/18 10:15
10423575006	**GW-031318-JRL-Total EFF 1**	Water	03/13/18 13:15	03/14/18 10:15
10423575007	**GW-031318-JRL-Total EFF 2**	Water	03/13/18 13:30	03/14/18 10:15
10423575008	**GW-031318-JRL-Total EFF 3**	Water	03/13/18 13:45	03/14/18 10:15
10423575009	**GW-031318-JRL-Total EFF 4**	Water	03/13/18 14:00	03/14/18 10:15
10423575010	**GW-031318-JRL-Total EFF 1-4**	Water	03/13/18 14:00	03/14/18 10:15
10423575011	**GW-031318-JRL-Total EFF 5**	Water	03/13/18 13:15	03/14/18 10:15
10423575012	**GW-031318-JRL-Total EFF 6**	Water	03/13/18 13:30	03/14/18 10:15
10423575013	**GW-031318-JRL-Total EFF 7**	Water	03/13/18 13:45	03/14/18 10:15
10423575014	**GW-031318-JRL-Total EFF 5-7**	Water	03/13/18 13:45	03/14/18 10:15

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SAMPLE ANALYTE COUNT

Project: 70496.17
Pace Project No.: 10423575

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10423575001	**GW-031318-JRL-INF 1**	NWTPH-Dx	JRH	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	MJD	7	PASI-M
10423575002	**GW-031318-JRL-INF 2**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	MJD	7	PASI-M
10423575003	**GW-031318-JRL-MID 1**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	MJD	7	PASI-M
10423575004	**GW-031318-JRL-MID 2**	NWTPH-Dx	JRH	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	MJD	7	PASI-M
10423575005	**GW-031318-JRL-Total EFF**	NWTPH-Dx	JRH	4	PASI-M
10423575010	**GW-031318-JRL-Total EFF 1-4**	NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	MJD	7	PASI-M
10423575014	**GW-031318-JRL-Total EFF 5-7**	EPA 1664A OG	AR3	1	PASI-M

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ANALYTICAL RESULTS

Project: 70496.17
Pace Project No.: 10423575

Sample: GW-031318-JRL-INF 1 **Lab ID: 10423575001** Collected: 03/13/18 14:00 Received: 03/14/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx		Preparation Method: EPA Mod. 3510C					
Diesel Fuel Range SG	**2.5**	mg/L	0.37	1	03/15/18 08:53	03/18/18 11:30	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.37	1	03/15/18 08:53	03/18/18 11:30	64742-65-0	
Surrogates								
o-Terphenyl (S)	70	%.	50-150	1	03/15/18 08:53	03/18/18 11:30	84-15-1	P2
n-Triacontane (S)	57	%.	50-150	1	03/15/18 08:53	03/18/18 11:30	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	**18400**	ug/L	2500	25		03/19/18 23:38		
Surrogates								
a,a,a-Trifluorotoluene (S)	93	%.	50-150	25		03/19/18 23:38	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	**186**	ug/L	1.0	1		03/22/18 19:12	71-43-2	
Ethylbenzene	**1.2**	ug/L	1.0	1		03/22/18 19:12	100-41-4	
Toluene	**71.1**	ug/L	1.0	1		03/22/18 19:12	108-88-3	
Xylene (Total)	**2570**	ug/L	15.0	5		03/23/18 21:20	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%.	75-125	1		03/22/18 19:12	17060-07-0	
Toluene-d8 (S)	95	%.	75-125	1		03/22/18 19:12	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		03/22/18 19:12	460-00-4	

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ANALYTICAL RESULTS

Project: 70496.17
Pace Project No.: 10423575

Sample: GW-031318-JRL-INF 2 **Lab ID: 10423575002** Collected: 03/13/18 13:45 Received: 03/14/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	**1.7**	mg/L	0.37	1	03/19/18 13:53	03/21/18 09:48	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.37	1	03/19/18 13:53	03/21/18 09:48	64742-65-0	
Surrogates								
o-Terphenyl (S)	95	%.	50-150	1	03/19/18 13:53	03/21/18 09:48	84-15-1	
n-Triacontane (S)	84	%.	50-150	1	03/19/18 13:53	03/21/18 09:48	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	**1090**	ug/L	100	1		03/19/18 22:30		
Surrogates								
a,a,a-Trifluorotoluene (S)	92	%.	50-150	1		03/19/18 22:30	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	**1.0**	ug/L	1.0	1		03/23/18 20:45	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/23/18 20:45	100-41-4	
Toluene	ND	ug/L	1.0	1		03/23/18 20:45	108-88-3	
Xylene (Total)	**61.8**	ug/L	3.0	1		03/23/18 20:45	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%.	75-125	1		03/23/18 20:45	17060-07-0	
Toluene-d8 (S)	94	%.	75-125	1		03/23/18 20:45	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125	1		03/23/18 20:45	460-00-4	

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ANALYTICAL RESULTS

Project: 70496.17
Pace Project No.: 10423575

Sample: GW-031318-JRL-MID 1 **Lab ID: 10423575003** Collected: 03/13/18 13:35 Received: 03/14/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.37	1	03/19/18 13:53	03/21/18 09:59	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.37	1	03/19/18 13:53	03/21/18 09:59	64742-65-0	
Surrogates								
o-Terphenyl (S)	89	%.	50-150	1	03/19/18 13:53	03/21/18 09:59	84-15-1	
n-Triacontane (S)	84	%.	50-150	1	03/19/18 13:53	03/21/18 09:59	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/19/18 22:47		
Surrogates								
a,a,a-Trifluorotoluene (S)	87	%.	50-150	1		03/19/18 22:47	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	**12.0**	ug/L	1.0	1		03/23/18 21:02	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/23/18 21:02	100-41-4	
Toluene	**1.9**	ug/L	1.0	1		03/23/18 21:02	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/23/18 21:02	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%.	75-125	1		03/23/18 21:02	17060-07-0	
Toluene-d8 (S)	94	%.	75-125	1		03/23/18 21:02	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		03/23/18 21:02	460-00-4	

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ANALYTICAL RESULTS

Project: 70496.17
Pace Project No.: 10423575

Sample: GW-031318-JRL-MID 2 **Lab ID: 10423575004** Collected: 03/13/18 13:20 Received: 03/14/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.37	1	03/15/18 08:53	03/18/18 12:13	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.37	1	03/15/18 08:53	03/18/18 12:13	64742-65-0	
Surrogates								
o-Terphenyl (S)	75	%.	50-150	1	03/15/18 08:53	03/18/18 12:13	84-15-1	
n-Triacontane (S)	76	%.	50-150	1	03/15/18 08:53	03/18/18 12:13	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/19/18 23:04		
Surrogates								
a,a,a-Trifluorotoluene (S)	87	%.	50-150	1		03/19/18 23:04	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/22/18 20:05	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/22/18 20:05	100-41-4	
Toluene	ND	ug/L	1.0	1		03/22/18 20:05	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/22/18 20:05	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%.	75-125	1		03/22/18 20:05	17060-07-0	
Toluene-d8 (S)	94	%.	75-125	1		03/22/18 20:05	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		03/22/18 20:05	460-00-4	

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ANALYTICAL RESULTS

Project: 70496.17
Pace Project No.: 10423575

Sample: GW-031318-JRL-Total EFF **Lab ID: 10423575005** Collected: 03/13/18 13:15 Received: 03/14/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx		Preparation Method: EPA Mod. 3510C					
Diesel Fuel Range SG	ND	mg/L	0.40	1	03/15/18 08:53	03/18/18 12:24	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	03/15/18 08:53	03/18/18 12:24	64742-65-0	
Surrogates								
o-Terphenyl (S)	74	%.	50-150	1	03/15/18 08:53	03/18/18 12:24	84-15-1	
n-Triacontane (S)	74	%.	50-150	1	03/15/18 08:53	03/18/18 12:24	638-68-6	

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ANALYTICAL RESULTS

Project: 70496.17
Pace Project No.: 10423575

Sample: GW-031318-JRL-Total EFF 1-4 **Lab ID: 10423575010** Collected: 03/13/18 14:00 Received: 03/14/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/24/18 15:06		
Surrogates								
a,a,a-Trifluorotoluene (S)	93	%.	50-150	1		03/24/18 15:06	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/22/18 20:22	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/22/18 20:22	100-41-4	
Toluene	ND	ug/L	1.0	1		03/22/18 20:22	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/22/18 20:22	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%.	75-125	1		03/22/18 20:22	17060-07-0	
Toluene-d8 (S)	94	%.	75-125	1		03/22/18 20:22	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	1		03/22/18 20:22	460-00-4	

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ANALYTICAL RESULTS

Project: 70496.17
Pace Project No.: 10423575

Sample: GW-031318-JRL-Total EFF 5-7 **Lab ID: 10423575014** Collected: 03/13/18 13:45 Received: 03/14/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 HEM, Oil and Grease	Analytical Method: EPA 1664A OG							
Oil and Grease	ND	mg/L	6.3	1		03/22/18 07:24		

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QUALITY CONTROL DATA

Project: 70496.17
Pace Project No.: 10423575

QC Batch: 528062 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10423575001, 10423575002, 10423575003, 10423575004

METHOD BLANK: 2865733 Matrix: Water
Associated Lab Samples: 10423575001, 10423575002, 10423575003, 10423575004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/19/18 18:31	
a,a,a-Trifluorotoluene (S)	%.	91	50-150	03/19/18 18:31	

METHOD BLANK: 2865734 Matrix: Water
Associated Lab Samples: 10423575001, 10423575002, 10423575003, 10423575004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/19/18 18:48	
a,a,a-Trifluorotoluene (S)	%.	88	50-150	03/19/18 18:48	

LABORATORY CONTROL SAMPLE & LCSD: 2865735 2865736

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1090	1090	109	109	41-137	1	20	
a,a,a-Trifluorotoluene (S)	%.				103	98	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865837 2865838

Parameter	Units	10423207002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	ND	1000	1000	1090	1090	109	109	30-145	0	30	
a,a,a-Trifluorotoluene (S)	%.						100	98	50-150			

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QUALITY CONTROL DATA

Project: 70496.17
Pace Project No.: 10423575

QC Batch: 528760 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10423575010

METHOD BLANK: 2869621 Matrix: Water
Associated Lab Samples: 10423575010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/24/18 14:49	
a,a,a-Trifluorotoluene (S)	%.	91	50-150	03/24/18 14:49	

LABORATORY CONTROL SAMPLE & LCSD: 2869622 2869623

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1160	1070	116	107	41-137	7	20	
a,a,a-Trifluorotoluene (S)	%.				102	100	50-150			

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QUALITY CONTROL DATA

Project: 70496.17
Pace Project No.: 10423575

QC Batch: 528589 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 10423575001, 10423575004, 10423575010

METHOD BLANK: 2868729 Matrix: Water
Associated Lab Samples: 10423575001, 10423575004, 10423575010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	03/22/18 15:09	
Ethylbenzene	ug/L	ND	1.0	03/22/18 15:09	
Toluene	ug/L	ND	1.0	03/22/18 15:09	
Xylene (Total)	ug/L	ND	3.0	03/22/18 15:09	
1,2-Dichloroethane-d4 (S)	%.	91	75-125	03/22/18 15:09	
4-Bromofluorobenzene (S)	%.	101	75-125	03/22/18 15:09	
Toluene-d8 (S)	%.	95	75-125	03/22/18 15:09	

LABORATORY CONTROL SAMPLE: 2868730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.9	94	75-126	
Ethylbenzene	ug/L	20	18.9	94	75-125	
Toluene	ug/L	20	19.6	98	74-125	
Xylene (Total)	ug/L	60	58.4	97	75-125	
1,2-Dichloroethane-d4 (S)	%.			91	75-125	
4-Bromofluorobenzene (S)	%.			98	75-125	
Toluene-d8 (S)	%.			96	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2868851 2868852

Parameter	Units	10423449006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	5.2	20	20	26.3	26.7	105	108	62-140	2	30	
Ethylbenzene	ug/L	16.8	20	20	36.8	38.4	100	108	75-131	4	30	
Toluene	ug/L	1.4	20	20	22.6	23.3	106	110	68-132	3	30	
Xylene (Total)	ug/L	13.1	60	60	76.1	78.4	105	109	69-135	3	30	
1,2-Dichloroethane-d4 (S)	%.						107	104	75-125			
4-Bromofluorobenzene (S)	%.						103	102	75-125			
Toluene-d8 (S)	%.						97	98	75-125			

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QUALITY CONTROL DATA

Project: 70496.17
Pace Project No.: 10423575

QC Batch: 528790 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 10423575002, 10423575003

METHOD BLANK: 2869746 Matrix: Water
Associated Lab Samples: 10423575002, 10423575003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	03/23/18 12:54	
Ethylbenzene	ug/L	ND	1.0	03/23/18 12:54	
Toluene	ug/L	ND	1.0	03/23/18 12:54	
Xylene (Total)	ug/L	ND	3.0	03/23/18 12:54	
1,2-Dichloroethane-d4 (S)	%.	90	75-125	03/23/18 12:54	
4-Bromofluorobenzene (S)	%.	98	75-125	03/23/18 12:54	
Toluene-d8 (S)	%.	95	75-125	03/23/18 12:54	

LABORATORY CONTROL SAMPLE: 2869747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.6	103	75-126	
Ethylbenzene	ug/L	20	20.7	104	75-125	
Toluene	ug/L	20	21.5	108	74-125	
Xylene (Total)	ug/L	60	64.3	107	75-125	
1,2-Dichloroethane-d4 (S)	%.			90	75-125	
4-Bromofluorobenzene (S)	%.			98	75-125	
Toluene-d8 (S)	%.			94	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2869748 2869749

Parameter	Units	10424241003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	20.5	20.8	103	104	62-140	1	30	
Ethylbenzene	ug/L	ND	20	20	20.2	20.5	101	103	75-131	2	30	
Toluene	ug/L	ND	20	20	20.6	21.0	103	105	68-132	2	30	
Xylene (Total)	ug/L	ND	60	60	62.3	63.1	104	105	69-135	1	30	
1,2-Dichloroethane-d4 (S)	%.						92	91	75-125			
4-Bromofluorobenzene (S)	%.						95	99	75-125			
Toluene-d8 (S)	%.						94	95	75-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 70496.17
Pace Project No.: 10423575

QC Batch: 527462 Analysis Method: NWTPH-Dx
QC Batch Method: EPA Mod. 3510C Analysis Description: NWTPH-Dx GCS LV SG
Associated Lab Samples: 10423575001, 10423575004, 10423575005

METHOD BLANK: 2861515 Matrix: Water
Associated Lab Samples: 10423575001, 10423575004, 10423575005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel Range SG	mg/L	ND	0.40	03/18/18 10:46	
Motor Oil Range SG	mg/L	ND	0.40	03/18/18 10:46	
n-Triacontane (S)	%.	44	50-150	03/18/18 10:46	S0
o-Terphenyl (S)	%.	49	50-150	03/18/18 10:46	S0

LABORATORY CONTROL SAMPLE & LCSD: 2861516 2861517

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	2	1.3	1.8	66	91	50-150	31	20	R1
Motor Oil Range SG	mg/L	2	1.3	1.8	64	89	50-150	32	20	R1
n-Triacontane (S)	%.				61	75	50-150			
o-Terphenyl (S)	%.				62	86	50-150			

SAMPLE DUPLICATE: 2861518

Parameter	Units	10423575001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	2.5	2.8	11	30	
Motor Oil Range SG	mg/L	ND	.044J		30	
n-Triacontane (S)	%.	57	73	24		
o-Terphenyl (S)	%.	70	75	8		P2

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 70496.17
Pace Project No.: 10423575

QC Batch: 528000 Analysis Method: NWTPH-Dx
QC Batch Method: EPA Mod. 3510C Analysis Description: NWTPH-Dx GCS LV SG
Associated Lab Samples: 10423575002, 10423575003

METHOD BLANK: 2865429 Matrix: Water
Associated Lab Samples: 10423575002, 10423575003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel Range SG	mg/L	ND	0.40	03/21/18 09:14	
Motor Oil Range SG	mg/L	ND	0.40	03/21/18 09:14	
n-Triacontane (S)	%.	83	50-150	03/21/18 09:14	
o-Terphenyl (S)	%.	87	50-150	03/21/18 09:14	

LABORATORY CONTROL SAMPLE & LCSD: 2865430 2865431

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	2	1.7	1.6	86	79	50-150	8	20	
Motor Oil Range SG	mg/L	2	1.8	1.6	88	80	50-150	10	20	
n-Triacontane (S)	%.				85	80	50-150			
o-Terphenyl (S)	%.				88	82	50-150			

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 70496.17
Pace Project No.: 10423575

QC Batch: 528133 Analysis Method: EPA 1664A OG
QC Batch Method: EPA 1664A OG Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 10423575014

METHOD BLANK: 2866266 Matrix: Water
Associated Lab Samples: 10423575014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	03/21/18 12:17	

LABORATORY CONTROL SAMPLE & LCSD: 2866267 2866268

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	40	33.7	33.6	84	84	78-114	0	18	

MATRIX SPIKE SAMPLE: 2866269

Parameter	Units	10423734001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	42.1	37.6	82	78-114	

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Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 70496.17
Pace Project No.: 10423575

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: 527860

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 528133

[BE]	Batch extracted by solid phase extraction (SPE).

ANALYTE QUALIFIERS

P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

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Minneapolis, MN 55414
(612)607-1700

METHOD CROSS REFERENCE TABLE

Project: 70496.17
Pace Project No.: 10423575

Parameter	Matrix	Analytical Method	Preparation Method
8260B MSV UST	Water	SW-846 8260B/5030B	N/A

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 70496.17
Pace Project No.: 10423575

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10423575001	**GW-031318-JRL-INF 1**	EPA Mod. 3510C	527462	NWTPH-Dx	527860
10423575002	**GW-031318-JRL-INF 2**	EPA Mod. 3510C	528000	NWTPH-Dx	528325
10423575003	**GW-031318-JRL-MID 1**	EPA Mod. 3510C	528000	NWTPH-Dx	528325
10423575004	**GW-031318-JRL-MID 2**	EPA Mod. 3510C	527462	NWTPH-Dx	527860
10423575005	**GW-031318-JRL-Total EFF**	EPA Mod. 3510C	527462	NWTPH-Dx	527860
10423575001	**GW-031318-JRL-INF 1**	NWTPH-Gx	528062		
10423575002	**GW-031318-JRL-INF 2**	NWTPH-Gx	528062		
10423575003	**GW-031318-JRL-MID 1**	NWTPH-Gx	528062		
10423575004	**GW-031318-JRL-MID 2**	NWTPH-Gx	528062		
10423575010	**GW-031318-JRL-Total EFF 1-4**	NWTPH-Gx	528760		
10423575001	**GW-031318-JRL-INF 1**	EPA 8260B	528589		
10423575002	**GW-031318-JRL-INF 2**	EPA 8260B	528790		
10423575003	**GW-031318-JRL-MID 1**	EPA 8260B	528790		
10423575004	**GW-031318-JRL-MID 2**	EPA 8260B	528589		
10423575010	**GW-031318-JRL-Total EFF 1-4**	EPA 8260B	528589		
10423575014	**GW-031318-JRL-Total EFF 5-7**	EPA 1664A OG	528133		

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WO# : 10423575

10423575

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed

Page : 1 Of 1

Section A — Required Client Information:

Company: GHD Services, Inc.
Address: 20818 44th Avenue West, Suite 190, Lynnwood, WA 98036
Email To: christina.mcclelland@ghd.com, eric.maise@ghd.com, thuan.bui@ghd.com
Phone: (425)563-6502 Fax:
Requested Due Date/TAT: Standard

Section B — Required Project Information:

Report To: Christina McClelland
Copy To: Eric Maise and Thuan Bui
Purchase Order No.:
Client Project ID: 70496.17
Container Order Number:

Section C — Invoice Information:

Attention: Christina McClelland
Company Name: GHD Services, Inc.
Address: 2055 Niagara Falls Boulevard Suite #3, Niagara Falls, New York, 14304
Pace Quote Reference:
Pace Project Manager: Jennifer Gross
Pace Profile #: 31060 / 1

Regulatory Agency: State / Location: WA / Renton

Requested Analysis Filtered (Y/N)

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM#	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TPHd (NWTPH-Dx)	TPHg (NWTPH-Gx)	BTEX (EPA 8260)	FOG 1664	Residual Chlorine (Y/N)		
1	GW- 031318 - JRL-INF 1	WT	G	3/13/18	1400				8				X						X	X	X				-001
	GW- 031318 - JRL -INF 2	WT	G		1345				8				X						X	X	X				-002
2	GW- 031318 - JRL -MID 1	WT	G		1335				8				X						X	X	X				-003
3	GW- 031318 - JRL -MID 2	WT	G		1320				8				X						X	X	X				-004
4	GW- 031318 - JRL -Total EFF	WT	G		1315				2				X						X						-005
5	GW- 031318 - JRL -Total EFF 1	WT	G		1315				2				X							X	X				-006
6	GW- 031318 - JRL -Total EFF 2	WT	G		1330				2				X							X	X				-007
7	GW- 031318 - JRL -Total EFF 3	WT	G		1345				2				X							X	X				-008
8	GW- 031318 - JRL -Total EFF 4	WT	G		1400				2				X							X	X				-009
9	GW- 031318 - JRL -Total EFF 5	WT	G		1315				1				X									X			-011
10	GW- 031318 - JRL -Total EFF 6	WT	G	V	1330				1				X									X			-012
11	GW- 031318 - JRL -Total EFF 7	WT	G		1345				1													X			-013

Composite EFF 1, 2, 3, 4 at lab → -010

Composite EFF 5, 6, 7 at lab → -014

-015 Trip Blank

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / GHD	3-13-18	1500	[signature] GHD	3-13-18	1500	4.3	Y	N	Y
	[signature]	3-14-18	170	[signature] Pace	3/14/18	1015	2.6	Y	Y	Y

CW MONTHLY

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JOE LEWANDOWSKI / THUAN BUI

SIGNATURE of SAMPLER: [signature] / [signature] DATE Signed: 3/13/18

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 14Dec2017 Page 1 of 2
	Document No.: **F-MN-L-213-rev.22**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: GHD Services, Inc.

Project #: **WO#: 10423575**

PM: JMG **Due Date: 03/27/18**

CLIENT: GHD_COP

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:_____

Tracking Number: 4249 3595 9909

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other:_____ **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☑ 151401163 ☐ G87A9155100842 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Cooler Temp Read (°C): 2.6 **Cooler Temp Corrected (°C):** 2.6 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** true **Date and Initials of Person Examining Contents:** MD 3/14/18

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑ Yes	☐ No		1.
Chain of Custody Filled Out?	☑ Yes	☐ No		2.
Chain of Custody Relinquished?	☑ Yes	☐ No		3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		6.
Rush Turn Around Time Requested?	☐ Yes	☑ No		7.
Sufficient Volume?	☑ Yes	☐ No		8.
Correct Containers Used?	☑ Yes	☐ No		9.
-Pace Containers Used?	☑ Yes	☐ No		
Containers Intact?	☑ Yes	☐ No		10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	☑ Yes	☐ No		12.
-Includes Date/Time/ID/Analysis Matrix: WT				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	☑ Yes	☐ No	☐ N/A	Initial when completed:_____ Lot # of added preservative:_____
Headspace in VOA Vials (>6mm)?	☐ Yes	☑ No	☐ N/A	14.
Trip Blank Present?	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):_____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted:_____ Date/Time:_____

Comments/Resolution:_____

Project Manager Review: Jenni Gross **Date:** 03/14/18

Note: Whenever there is a discrepancy affecting North Caro hold, incorrect preservative, out of temp, incorrect containe ı copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of

Pace Analytical®	Document Name: Cooler Transfer Check List	Revised Date: 19Jan2018 Page 1 of 1
	Document Number: F-MN-C-120-rev.02	Issuing Authority: Pace Minnesota Quality Office

Cooler Transfer Check List

Client: COP. GHD

Project Manager: JENN GROSS

Profile/Line #: 31060 / 1

Received with Custody Seal: Yes (No)

Custody Seal Intact: Yes No (NA)

	Temp Read	Corrected Temp	Correction Factor
Temperature C:	4.3	4.3	0.0

IR Gun # (IR) -Q281 / IR2-122065284

☐ Samples on ice, cooling process has begun

Rush/Short Hold: NO

Containers Intact: (Yes) No

Re-packed and Re-Iced: ✓

Temp Blank Included: (Yes) No

Shipped By/Date: UPS 3-13-18

Notes: See COC > Composite samples prior to analysis

Appendix B
King County Self-Monitoring Reports (SMR)

April 10, 2018 Reference No. 070496

Mr. David Haberman
King County Industrial Waste Program
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658

Dear Mr. Haberman:

Re: Discharge Permit No. 7910-01
Quarterly Self Monitoring Report – First Quarter 2018
Phillips 66 Company Groundwater Treatment System
Phillips 66 Company Renton Terminal
2423 Lind Avenue Southwest, Renton, Washington

GHD Services Inc. (GHD) has prepared this quarterly self-monitoring report on behalf of Phillips 66 Company (P66) for King County Discharge Authorization 7910-01. This authorization is for discharge associated with the P66 groundwater treatment system located at the address referenced above. This report presents the discharge results for January 1, 2018 through March 31, 2018.

Since the above referenced Site adheres to Washington State Department of Ecology Model Toxic Control Act (MTCA) cleanup protocols and standards, the non-polar fats, oils, and grease (FOG) test is substituted with NWTPH methods. All analytical results are reported as such.

If you have any questions or concerns regarding this report please contact the undersigned at (425) 563-6547.

Sincerely,

GHD

Thuan Bui

CM/cd/30

Encl.

cc: Bob Ayers, P66 Renton Terminal
Rich Solomon, P66 Remediation Management
John Frankenthal, Atlantic Richfield Company

GHD Services Inc.
20818 44th Avenue West, Suite 190 Lynnwood, WA 98036 USA
T 425 563 6500 **F** 425 563 6599 **W** www.ghd.com

King County

Industrial Waste Quarterly Self-Monitoring Report

Send to: King County Industrial Waste
201 S. Jackson St., Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300
Email: info.KCIW@kingcounty.gov

Company Name: **Phillips 66 Company**

This form is available at www.kingcounty.gov/industrialwaste.

Please specify year: **2018** **QUARTER 1** **Sample Site No.:** **A81491** **Permit/DA No.:** **7910-01**

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	benzene ▼	ethylbenzene ▼	toluene ▼	xylenes	Nonpolar fats, oils & grease (FOG) (Record average only)	pH	Total Monthly Flow (gallons)
January	No discharge								
	Total volume discharged for January								0.0
February	02/16/18	G	<0.001	<0.001	<0.001	<0.003	<6.5	8.4	
	Total volume discharged for February								73,403
March	03/13/18	G	<0.001	<0.001	<0.001	<0.003	<6.3	7.5	
	Total volume discharged for March								215,367

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested

Richard Soltman — Signature of Principal Executive or Authorized Agent

4/9/2018 — Date

→ Maximum daily flow from this quarter: **11,420** **gallons.** Date on which maximum daily flow occurred: **02/16/18**

Due Date: **First Quarter Report is due by April 15 of each year.**

Appendix C
Groundwater Monitoring Field Data Sheets

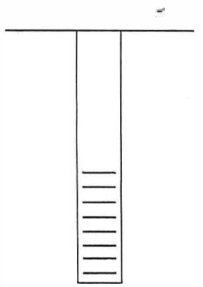
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 02-28-18
Personnel: N.T.

Monitoring Well Data:

Well No.: D-SR
Vapour PID (ppm):
Measurement Point: TOC
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]: ~10'
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 8.50'



Purge start: 1330

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1335	100 mL/min	8.49		11.02	0.334	2.33	1.66	6.64	19.3		Mostly clear slight yellow tint
1340	"	8.50		11.33	0.341	2.20	2.41	6.62	3.8		"
1345	"	8.50		11.52	0.342	1.85	0.99	6.60	-1.3		"
1350	"	8.50		11.56	0.347	2.63	0.82	6.59	-4.7		"

Sample ID: GW-070496.17-[redacted]-022818-NT-MIN-D-SR
Sample Time: 1400

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

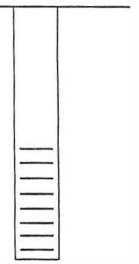
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 02-25-18
Personnel: V.T.

Monitoring Well Data:

Well No.: MW-9
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 7.82



Purge start 1230

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1235	100 mL/min	6.12		11.40	0.714	14.4	4.32	6.28	83.8		Clear
1240	"	TNA		11.32	0.722	6.58	2.45	6.29	47.6		"
1245	"	7.62		11.42	0.726	5.42	[illegible]	6.24	35.8		"
1250	"	7.54		11.36	0.728	3.95	1.81	6.30	24.1		"
1255	"	7.01		11.40	0.729	3.76	1.40	6.30	14.3		"
1300	"	6.93		11.54	0.731	6.14	1.30	6.30	8.9		"

Sample ID: GW-070496.17-022818-NT-MW-9
Sample Time: 13:10

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

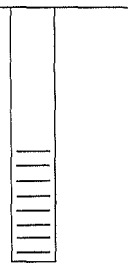
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 02-28-18
Personnel: NT

Monitoring Well Data:

Well No.: MW-13
Vapour PID (ppm):
Measurement Point: TOC
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 5.43'



purge start - ~~10:15~~ 10:50

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
10:55	100mL/min	5.45		9.67	0.091	30.00	4.99	6.20	179.1		Orange sediment
10:58	"	5.40		9.35	0.092	71.00	4.80	6.08	178		very light tan/brown sediment
11:02	"	5.38		9.32	0.095	12.87	4.70	6.10	177.5		clear
11:06	"	5.40		9.44	0.094	5.06	4.52	6.11	177.1		"
11:11	"	5.40		9.55	0.093	5.67	4.77	6.10	176.5		"

Sample ID: GW-070496.17-022818-NT-MW-13
Sample Time: 11:20

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

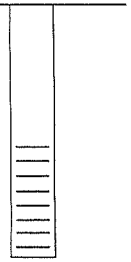
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 02-28-18
Personnel: N.T

Monitoring Well Data:

Well No.: MW-16
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]: ~10-12 ft
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 7.22



Purge start 0925 0935 0925 0930

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0933	100mL	8.41		10.87	0.118	134	1.53	5.81	250.3		Dark orange
0938	"	8.34		10.45	0.119	126	2.23	5.93	253.3		Orange/clear
0943	"	8.29		10.48	0.127	143	2.11	6.04	217.6		Clear/tan
0948	"	8.28		10.31	0.124	132	1.84	6.07	209.0		"
0953		8.26		10.25	0.124	122	1.65	6.11	197		"

Sample ID: GW-070496.17-022818-NT-MW-16
Sample Time: 1000

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

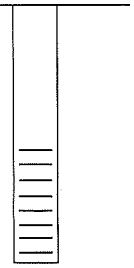
Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 02-27-18
Personnel: N.T.

Monitoring Well Data:

Well No.: MW-5
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Purge start: 14:45

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 8.04



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
~~14:30~~	~~Pc~~	Precision Required[5]:		±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1450	100	8.41		10.96	0.139	19.7	9.61	5.98	100.2		Clear
1455	"	8.44		10.73	0.140	13.8	2.21	5.98	86.0		"
1500	"	8.47		10.74	0.140	11.1	1.78	<5.98	71.8		clear
1505	"	8.45		10.78	0.141	12.0	1.22	<5.98	63.0		"
1510	"	8.46		10.58	0.141	10.50	1.20	5.99	54.6		no color

Sample ID: GW-070496.17-022218-NT-MW-5
Sample Time: 15:20

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 2/28/18
Personnel:

Monitoring Well Data:

Well No.: MW-2
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 7.51

bem PVC @ 13.48

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
		Precision Required[5]:		±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1345	100 mL/m	7.51		10.55	384.4	12.5	3.00	6.06	-60		Clear
1348	" "	7.50		10.99	363.3	8.25	1.17	6.09	-75		
1351	" "	7.50		11.30	361.2	3.54	0.67	6.08	-79		Clear
1354	" "	7.50		11.54	359.9	2.30	0.36	6.10	-83		
1357	" "	7.49		11.56	359.3	2.55	0.29	6.10	-85		

Sample ID: GW-070496.17-022818-BP-MW-2 **Sample Time:** 1410

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

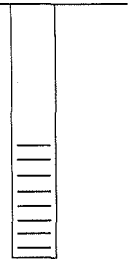
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 2/28/18
Personnel: BD

Monitoring Well Data:

Well No.: MW-1
Vapour PID (ppm):
Measurement Point: TOC
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 7.62



begin purge @ 1300

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
		Precision Required[5]:		±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1303	100 mL/m	8.27		10.95	628.8	2.69	1.86	5.77	-64		clear
1306	" "	8.42		11.02	1033.0	1.17	1.08	5.74	-70		clear
1309	" "	8.68		11.12	634.0	1.16	0.62	5.77	-77		clear
1312		8.9.19		11.12	634.0	1.23	0.45	5.78	-77		
1315	" "	9.43		11.12	632.6	1.26	0.34	5.79	-79		

Sample ID: GW-070496.17-022818-BP-MW-1
Sample Time: 1325

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

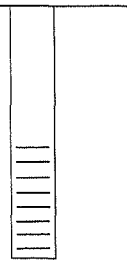
Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 2/28/18
Personnel:

Monitoring Well Data:

Well No.: MW-6
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
High Purge 1220

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft):



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1223		8.40		11.33	553.1	7.23	2.87	6.06	-102		Clear
1226		8.40		11.51	559.2	1.97	0.83	6.09	-118		Clear
1229		8.40		11.53	561.7	2.06	0.56	6.10	-123		
1232		8.40		11.51	560.9	0.67	0.34	6.11	-121		
1236		8.40		11.10	560.1	0.52	0.33	6.11	-127		

Sample ID: GW-070496.17-022818-BP-MW-6 **Sample Time:** 1245

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

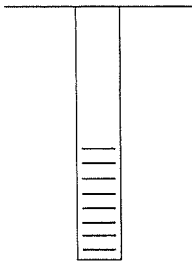
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 2/28/18
Personnel:



Monitoring Well Data:

Well No.: MW-17
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 1.11

high purge @ 1020

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1022		1.12		10.03	693.1	3.91	4.32	5.71	-72		clear w/
1025		1.14		10.07	714.1	4.64	0.92	5.73	-80		slight red
1028		1.15		10.74	718.1	6.29	0.55	5.75	-83		
1031		1.15		10.92	714.3	5.21	0.47	5.76	-86		
1034		1.15		10.99	718.9	5.87	0.41	5.77	-88		

Sample ID: EW-070496.17-022818-BP-MW-17
Sample Time: 1045

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

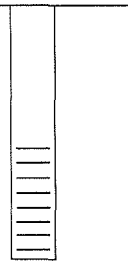
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 2/22/19
Personnel: DD

Monitoring Well Data:

Well No.: MW-11
Vapour PID (ppm):
Measurement Point: TOC
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 4.38



begin purge @ 0935

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0940	100 mL/~	4.50		9.76	248.6	1.01	1.90	6.03	-99		clear
0943		" "		9.85	247.1	8.97	0.90	6.02	-106		clear
0947	100 mL/~	4.50		9.97	247.3	1.27	0.56	6.03	-113		clear
0950	100 mL/~	4.50		10.04	249.4	3.68	0.47	6.02	-117		
0953	100 mL/~			10.14	251.4	1.38	0.36	6.02	-121		

Sample ID: GW-070496.17-022819-BP-MW-11
Sample Time: 1000

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

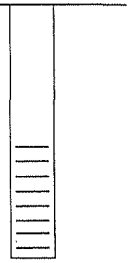
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 2/28/10
Personnel:



Monitoring Well Data:

Well No.: MW-12
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
bgs pump @ 0900

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 6.93

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Sp. Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0904	100mL/		6.96	11.57	218.2	2.39	1.19	5.78	-38		clear
0907	" "		6.97	11.59	218.9	2.27	0.68	5.73	-58		no odor
0910	" "		6.99	11.60	219.0	1.50	0.54	5.85	-71		
0913	" "		6.99	11.54	219.0	2.35	0.47	5.82	-85		clear
0916	" "		6.99	11.54	219.3	3.29	0.42	5.78	-105		

Sample ID: GW-070496.17-022818-BP-MW-12
Sample Time: 0925

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=n*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=n*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

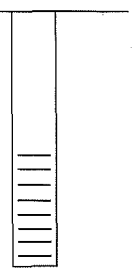
~ 3 mins.

Depth to bottom: 19.49

Monitoring Well Record for Low-Flow Purging (Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 2/27/18
Personnel: N. F.



Monitoring Well Data:

Well No.: MW-4
Vapour PID (ppm): —
Measurement Point: TOC
Constructed Well Depth (m/ft): —
Measured Well Depth (m/ft): —
Depth of Sediment (m/ft): —
Saturated Screen Length (m/ft): —
Depth to Pump Intake (m/ft)[1]: 10-12 m/FT
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]: —
Initial Depth to Water (m/ft): 5.11

began purge @ ~~1310~~ 1315

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4] (Description)
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1310	~~60 mL/min~~										
	~~100 mL/min~~										
1327	100 mL/min	5.24		10.02	0.173	24.9	2.28	5.74	99.3		suspended sediment/clear
1331	"	5.25		9.97	0.167	24.9	3.52	5.73	93.1		"
1335	"	5.25		10.00	0.157	24.9	2.17	5.75	83.7		"
1339	"	5.26		9.97	0.146	22.9	1.93	5.76	76.8		clear
1343	"	5.25		9.90	0.132	21.7	1.60	5.76	72.2		"
1346	"			9.91	0.125	21.7	1.47	5.77	69.5		"

Sample ID: GW-070496.17-022718-NT-MW-4
Sample Time: 13:55

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

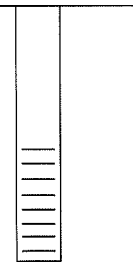
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 2/27/18
Personnel:

Monitoring Well Data:

Well No.: MW-3
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 5.92



bg- DUP @ 1355

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1400	100mL/m	6.07		9.00	0.057	12.6	1.35	5.86	78.2		clear
1403	100mL/m	6.09		8.96	0.058	7.80	1.07	5.85	85.5		
1406	100mL/m	6.08		8.88	0.057	8.12	1.00	5.85	89.1		clear
1409	100mL/m	6.09		8.85	0.057	6.53	1.01	5.85	90.8		
1411	100mL/m	6.09		8.83	0.058	5.85	1.03	5.85	95.1		

Sample ID: GW-070496.17-022718-BP-MW-3
Sample Time: 1420

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

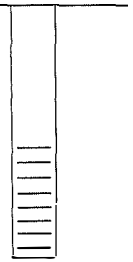
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal - 3 Quarter GWM
Ref. No.: 070496.17
Date: 3/2/18
Personnel:

Monitoring Well Data:

Well No.: RWX-7
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft):



Begin Purge @ 0840

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0849		~~7.65~~	7.65	7.58	79.4	4.11	6.92	6.80	97		
0852		~~7.65~~	7.65	7.37	79.5	3.63	6.84	6.77	84		
0856		7.66		7.18	80.1	3.46	6.99	6.76	88		
0859		7.67		7.15	80.0	~~3.46~~ 3.61	7.11	6.75	89		
0902		7.68		7.18	79.5	4.61	7.32	6.75	91		

Sample ID: GW-070496.17-030218-BP-RWX-7
Sample Time: 0915

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

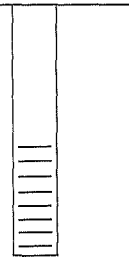
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal - 3 Quarter GWM
Ref. No.: 070496.17
Date: 3/2/18
Personnel:

Monitoring Well Data:

Well No.: RWX-2
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 6.55



begin purge @ 0948

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0946	100 mL/m	6.65		6.47	147.6	8.47	9.17	6.70	100		clear
0949	" "	6.66		6.45	169.9	4.89	6.97	6.77	97		no ode
0952		6.66		6.46	174.1	3.72	6.98	6.80	95		
0956		6.66		6.46	177.1	4.01	7.10	6.83	94		
0959		6.66		6.48	177.2	3.93	7.25	6.85	93		

Sample ID: bw-070496.17-030218-BP-RWX-2
Sample Time: 1010

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

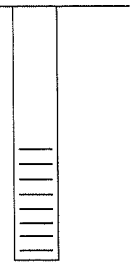
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 03-01-18
Personnel: N.T.

Monitoring Well Data:

Well No.: MW-1S
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]: 5.8'
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 6.36



purge start: ~~1400~~ 1400 new tubing

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
1415	Precision Required[5]:			±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1415	100mL/m	6.60		11.11	0.278	2.39	2.58	5.30	49.8		clear
1421	"	6.55		11.10	0.274	2.69	1.77	5.34	37.8		"
1425	"	6.50		10.94	0.263	2.23	1.58	5.35	31.8		"
1430	"	6.45		10.84	0.262	1.65	1.56	5.35	24.6		

Sample ID: GW-070496.17-030118-NT-MW-1S
Sample Time: 1440

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

9.18

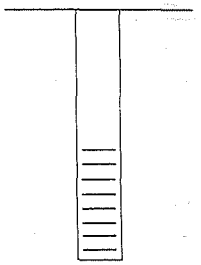
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 03/01/18
Personnel: N.T.

Monitoring Well Data:

Well No.: D-4R
Vapour PID (ppm):
Measurement Point: TOC
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]: ~10m
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 6.99



Purge Start: 850

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0853	100 mL/min	7.33		11.24	0.087	76.8	13.57	5.48	173.1		Light brown, some sediment
0900	"	7.57		11.28	0.155	24.3	1.62	5.44	49.3		"
0905	"	7.63		11.36	0.155	27.8	1.38	5.49	19.1		Light brown
0910	"	7.64		11.31	0.154	26.8	1.50	5.55	-2.8		Clear

Sample ID: GW-070496.17-030118-NT-GW-D-4R
Sample Time: 0915

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches
(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.
(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

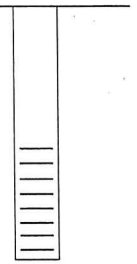
Project Name: P66 Renton Terminal
Ref. No.: 070496.17

Date: 3/1/18
Personnel: BP

Monitoring Well Data:

Well No.: MW-10
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 8.51



bgs - pvfp @ 0845s

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0858	100mL/min	8.85		12.41	952.1	5.79	3.32	6.34	30		clear w/ suspended
0901	" "	8.98		12.53	961.0	14.8	1.04	6.33	30		
0904	" "	9.04		12.71	962.0	10.6	0.73	6.31	31		clear w/ suspended
0907	" "	9.07		12.43	962.0	6.31	0.62	6.33	31		
0910	" "	9.13		12.37	964.0	5.69	0.54	6.31	25		

Sample ID: GW-070496.17-030118-BP-MW-10-MS/MSD
Sample Time: 0920

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

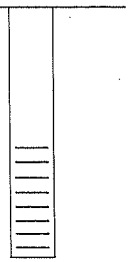
(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 03-01-18
Personnel: N.T.

Monitoring Well Data:

Well No.: MW-7
Vapour PID (ppm):
Measurement Point: TOC
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 9.18'



New tubing
Purge start 0955 → 1005

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1009	100 mL/min	9.53		12.41	0.290	36.2	10.90	5.01	49.2		Yellow hue, clear
1014	"	9.65		12.44	0.313	11.8	2.41	5.19	28.8		slight odor/petro.
1017	"	9.73		12.35	0.314	11.40	1.73	5.22	23.6		"
1023	"	9.87		12.50	0.315	10.95	1.53	5.20	18.1		"

Sample ID: GW-070496.17-030118-NT-MW-7
Sample Time: 10:30

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

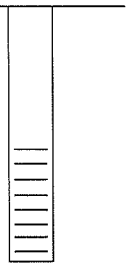
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 3/1/18
Personnel: BN

Monitoring Well Data:

Well No.: MW-14
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 8.19



begin purge @ 1015

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1017	100 mL/m	8.45		11.44	466.3	23.4	2.66	6.12	49		clear, hydr
1020	" "	8.51		11.42	434.8	14.7	1.49	5.85	43		odor
1023	" "	8.55		11.24	431.2	11.2	0.80	5.76	22		clear/odor
1026	" "	8.56		11.34	439.6	9.96	0.67	5.77	-5		
1029	" "	8.57		11.44	447.9	7.41	0.41	5.76	-15		
1032	" "	8.58		11.41	454.5	7.95	0.39	5.80	-24		

Sample ID: GW-070496.17-030118-BR-MW-14
" - FD-2
Sample Time: 1045

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

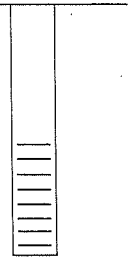
Project Name: P66 Renton Terminal
Ref. No.: 070496.17

Date: 03-01-18
Personnel: N.T.

Monitoring Well Data:

Well No.: MW-8
Vapour PID (ppm):
Measurement Point: TOC
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[1,2]:
Initial Depth to Water (m/ft): 8.93



purge start: 10:10

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
11:15	100mL/min	9.11		14.02	0.474	13.01	2.12	4.31	42		clear/slightly yellow.
11:20	"	9.12		14.38	0.487	10.97	1.90	4.05	19.4		"
11:24	"	9.12		14.61	0.498	9.25	1.50	4.70	3.9		"
11:28	"	9.15		14.23	0.497	6.58	1.35	4.72	0.2		"
11:33		9.16		13.94	0.491	5.10	1.25	4.22	-1.6		"
		9.18		13.74	0.487		0.90	4.29	-6.6		"

Sample ID: GW-070496.17-030118-NT-MW-8
Sample Time: 11:45

Notes: GW-070496.17-030118-NT-FD-1

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

F-D1

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 3/1/18
Personnel: BP

Monitoring Well Data:

Well No.: B~~MW~~-3A
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 4.89

begin purge @ 12:20

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1222	100mL/min	5.04		12.70	1067	395	2.19	6.04	-95		yellow
1225	" "	5.10		12.21	1106	273	1.24	6.02	-100		cloudy odor
1228	" "	5.17		11.16	1132	121	0.91	5.99	-102		" "
1231	" "	5.21		11.06	1140	72.8	0.80	5.98	-105		
1234	" "	5.24		10.87	1139	56.4	0.76	5.97	-105		Stree~ on water

Sample ID: GW-070496.17-030118-BP-B~~MW~~-3A
Sample Time: 1245

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 03-01-18
Personnel: N.T.

Monitoring Well Data:

Well No.: D-1R
Vapour PID (ppm):
Measurement Point: TOC
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 7.46'

Purge start 1300

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1304	100 mL/min	7.49		~~13.06~~ 13.06	~~0.409~~ 0.409	7.32	~~8.48~~ 8.48	5.71	167.2		Clear
1309	---	7.55		13.13	0.412	5.71	2.11	5.69	85.3		
1314	---	7.57		13.38	0.415	4.04	1.54	5.69	44.4		---
1320	---	7.59		13.50	0.417	1.55	1.36	5.67	34.7		---

Sample ID: GW-070496.17-030118-NT-MW-D-1R
Sample Time: 1325

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 3-1-18
Personnel: BP

Monitoring Well Data:

Well No.: ~~MW~~ B-6
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 4.24

bgin purge @ 13:30

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1339	100 mL/m	4.50		13.22	2088	OR	1.67	6.45	-95		Dark black
1341		4.57		11.98	2033	113	0.73	6.00	-100		Sediment
1344		4.58		11.70	1951	31.8	0.56	5.97	-100		Opaque w/
1347		4.60		11.76	1959	23.2	0.45	5.95	-98		Sediment
1350		4.61		11.56	2007	18.00	0.44	5.92	-97		Slight odor

Sample ID: GW-070496.17-030118-BP-MW-B-6 **Sample Time:** 1400

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

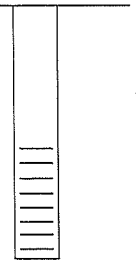
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: P66 Renton Terminal
Ref. No.: 070496.17
Date: 3/1/18
Personnel: BP

Monitoring Well Data:

Well No.: B-4
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 4.34



hyp pump @ 14.20

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1424		4.39		10.90	831.7	82.6	5.78	5.90	-104		clear/ odor
1427		4.41		10.62	797.0	30.9	1.41	5.86	-112		
1430		4.42		10.21	785.9	16.5	0.72	5.83	-117		
1434		4.43		10.19	780.1	17.9	0.60	5.80	-119		clear/ odor
1437		4.44		10.32	773.4	14.1	0.26	5.78	-122		

Sample ID: GW-070496.17-030118-BP-B-4
Sample Time: 1445
shown in Sample

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Water Level Record
(Form SP-11)

(1)

Project Name: P66 Renton Terminal
Job No.: 070496.17-5MN00
Client: Phillips 66/BP

Location: 2423 Lind Ave SW, Renton, WA
Date: 2/26/18
Engineer/Geologist:

Observation Well	Depth to SPH	Depth to Groundwater	Depth to Well Bottom
	feet	feet	feet
MW-1		7.62	
MW-2		7.51	
MW-3		5.86	
MW-4		5.02	
MW-5		8.04	
MW-6		9.21	
MW-7		8.86	
MW-8		8.36	
MW-9		5.22	
MW-10		8.51	
MW-11		4.38	
MW-12		6.83	
MW-13		5.27	
MW-14		8.13	
MW-15		7.61	
MW-16		7.21	
MW-17		1.08	
D-1		7.45	
D-4R		6.99	
D-5R		8.21	
P-1	8.80	9.42	
P-2	9.15	9.83	
B-3A		5.05	
B-4		4.34	
B-6		4.30	
RWX-2		6.82	

(2)

Water Level Record
(Form SP-11)

	RWX-7		7.67	
	LAIX-5		7.87	
	LAIX-6		7.88	
	LAIX-9		8.38	
	DPE-1		~~8.50~~ 8.86	
	DPE-2		8.79	
	DPE-3	11.29	11.34	
	DPE-4		9.67	
	DPE-5		10.04	
X	DPE-6			
X	DPE-7			
X	DPE-8			
Y	DPE-9			
X	DPE-10			
	DPE-11		11.91	
	DPE-12		8.88	
	DPE-13		11.65	
	DPE-14		4.45	
	DPE-15	~~7.17~~	~~7.21~~ 7.24	
	DPE-16		4.77	
	DPE-17		7.70	
	DPE-18		7.26	
	DPE-19		7.73	
	DPE-20		7.88	
X				
X				
Y				
Y	DPE-25			
Y	DPE-26			
Y	DPE-27			
Y	DPE-28			
Y	DPE-29		8.31	
Y	DPE-30	~~8.67~~	~~8.88~~	
			9.34 (?)	

(3)

Water Level Record
(Form SP-11)

DPE 33 ~~RWX-7~~	7.86	7.89	
DPE-34 ~~LAIX-5~~	6.14	6.42	
DPE-~~35~~37 ~~LAIX-6~~		6.88	
DPE-38 ~~LAIX-9~~		5.41	smells like product
DPE-39 ~~DPE-1~~	7.06	12.87	
DPE-42 ~~DPE-2~~		7.32	
DPE-43 ~~DPE-3~~	4.62	4.60	
DPE-45 ~~DPE-4~~	7.38	7.96	
DPE-47 [redacted]		4.68	
DPE-53		7.75	
DPE-55		7.13	
DPE-57	8.19	8.66	
DPE-9			
DPE-10			
DPE-11			
DPE-12			
DPE-13			
DPE-14			
DPE-15			
DPE-16			
DPE-17			
DPE-18			
DPE-19			
DPE-20			
DPE-21			
DP[illegible]			

Appendix D
Groundwater Monitoring Analytical Reports

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 16, 2018

Christina McClelland
GHD Services, Inc.
20818 44th Ave W
Suite 190
Lynnwood, WA 98036

RE: Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

Dear Christina McClelland:
Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(206)957-2426
Project Manager

Enclosures

cc: Accounts Payable, GHD_Conoco Phillips

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CERTIFICATIONS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10422514001	**GW-070496.17-030118-NT-D-4R**	Water	03/01/18 09:15	03/03/18 09:00
10422514002	**GW-070496.17-030118-BP-MW-10**	Water	03/01/18 09:20	03/03/18 09:00
10422514003	**GW-070496.17-030118-NT-MW-7**	Water	03/01/18 10:30	03/03/18 09:00
10422514004	**GW-070496.17-030118-BP-MW-14**	Water	03/01/18 10:45	03/03/18 09:00
10422514005	**GW-070496.17-030118-BP-FD-2**	Water	03/01/18 00:00	03/03/18 09:00
10422514006	**GW-070496.17-030118-NT-MW-8**	Water	03/01/18 11:45	03/03/18 09:00
10422514007	**GW-070496.17-030118-NT-FD-1**	Water	03/01/18 00:00	03/03/18 09:00
10422514008	**GW-070496.17-030118-BP-B-3A**	Water	03/01/18 12:45	03/03/18 09:00
10422514009	**GW-070496.17-030118-NT-D-1R**	Water	03/01/18 13:25	03/03/18 09:00

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SAMPLE ANALYTE COUNT

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10422514001	**GW-070496.17-030118-NT-D-4R**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10422514002	**GW-070496.17-030118-BP-MW-10**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10422514003	**GW-070496.17-030118-NT-MW-7**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10422514004	**GW-070496.17-030118-BP-MW-14**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10422514005	**GW-070496.17-030118-BP-FD-2**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10422514006	**GW-070496.17-030118-NT-MW-8**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10422514007	**GW-070496.17-030118-NT-FD-1**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10422514008	**GW-070496.17-030118-BP-B-3A**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10422514009	**GW-070496.17-030118-NT-D-1R**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	AEZ	7	PASI-M

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

Sample: GW-070496.17-030118-NT-D-4R **Lab ID: 10422514001** Collected: 03/01/18 09:15 Received: 03/03/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.37	1	03/05/18 14:28	03/07/18 10:07	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.37	1	03/05/18 14:28	03/07/18 10:07	64742-65-0	
Surrogates								
o-Terphenyl (S)	82	%.	50-150	1	03/05/18 14:28	03/07/18 10:07	84-15-1	
n-Triacontane (S)	86	%.	50-150	1	03/05/18 14:28	03/07/18 10:07	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/09/18 13:57		
Surrogates								
a,a,a-Trifluorotoluene (S)	89	%.	50-150	1		03/09/18 13:57	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/14/18 23:08	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/14/18 23:08	100-41-4	
Toluene	ND	ug/L	1.0	1		03/14/18 23:08	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/14/18 23:08	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	75-125	1		03/14/18 23:08	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1		03/14/18 23:08	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	1		03/14/18 23:08	460-00-4	

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

Sample: GW-070496.17-030118-BP-MW-10 **Lab ID: 10422514002** Collected: 03/01/18 09:20 Received: 03/03/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.40	1	03/05/18 14:28	03/07/18 10:40	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	03/05/18 14:28	03/07/18 10:40	64742-65-0	
Surrogates								
o-Terphenyl (S)	68	%.	50-150	1	03/05/18 14:28	03/07/18 10:40	84-15-1	
n-Triacontane (S)	75	%.	50-150	1	03/05/18 14:28	03/07/18 10:40	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/09/18 11:41		
Surrogates								
a,a,a-Trifluorotoluene (S)	88	%.	50-150	1		03/09/18 11:41	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/14/18 21:31	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/14/18 21:31	100-41-4	
Toluene	ND	ug/L	1.0	1		03/14/18 21:31	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/14/18 21:31	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	75-125	1		03/14/18 21:31	17060-07-0	
Toluene-d8 (S)	99	%.	75-125	1		03/14/18 21:31	2037-26-5	
4-Bromofluorobenzene (S)	107	%.	75-125	1		03/14/18 21:31	460-00-4	

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

Sample: GW-070496.17-030118-NT-MW-7 **Lab ID: 10422514003** Collected: 03/01/18 10:30 Received: 03/03/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	**16.9**	mg/L	1.9	5	03/05/18 14:28	03/07/18 13:12	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.37	1	03/05/18 14:28	03/07/18 11:12	64742-65-0	
Surrogates								
o-Terphenyl (S)	108	%.	50-150	1	03/05/18 14:28	03/07/18 11:12	84-15-1	
n-Triacontane (S)	87	%.	50-150	1	03/05/18 14:28	03/07/18 11:12	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	**4340**	ug/L	100	1		03/09/18 14:13		HS
Surrogates								
a,a,a-Trifluorotoluene (S)	104	%.	50-150	1		03/09/18 14:13	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	**2470**	ug/L	20.0	20		03/15/18 03:27	71-43-2	
Ethylbenzene	**382**	ug/L	20.0	20		03/15/18 03:27	100-41-4	
Toluene	**68.4**	ug/L	20.0	20		03/15/18 03:27	108-88-3	
Xylene (Total)	**208**	ug/L	60.0	20		03/15/18 03:27	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	75-125	20		03/15/18 03:27	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	20		03/15/18 03:27	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125	20		03/15/18 03:27	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

Sample: GW-070496.17-030118-BP-MW-14 **Lab ID: 10422514004** Collected: 03/01/18 10:45 Received: 03/03/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx		Preparation Method: EPA Mod. 3510C					
Diesel Fuel Range SG	**0.55**	mg/L	0.37	1	03/05/18 14:28	03/07/18 11:23	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.37	1	03/05/18 14:28	03/07/18 11:23	64742-65-0	
Surrogates								
o-Terphenyl (S)	76	%.	50-150	1	03/05/18 14:28	03/07/18 11:23	84-15-1	
n-Triacontane (S)	79	%.	50-150	1	03/05/18 14:28	03/07/18 11:23	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	**34900**	ug/L	2500	25		03/12/18 18:23		
Surrogates								
a,a,a-Trifluorotoluene (S)	95	%.	50-150	25		03/12/18 18:23	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	**5140**	ug/L	50.0	50		03/15/18 01:34	71-43-2	
Ethylbenzene	**462**	ug/L	50.0	50		03/15/18 01:34	100-41-4	
Toluene	**3540**	ug/L	50.0	50		03/15/18 01:34	108-88-3	
Xylene (Total)	**2020**	ug/L	150	50		03/15/18 01:34	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	75-125	50		03/15/18 01:34	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	50		03/15/18 01:34	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	75-125	50		03/15/18 01:34	460-00-4	

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

Sample: GW-070496.17-030118-BP-FD-2 **Lab ID: 10422514005** Collected: 03/01/18 00:00 Received: 03/03/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	**0.74**	mg/L	0.39	1	03/05/18 14:28	03/07/18 11:34	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.39	1	03/05/18 14:28	03/07/18 11:34	64742-65-0	
Surrogates								
o-Terphenyl (S)	73	%.	50-150	1	03/05/18 14:28	03/07/18 11:34	84-15-1	
n-Triacontane (S)	78	%.	50-150	1	03/05/18 14:28	03/07/18 11:34	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	**50600**	ug/L	2500	25		03/12/18 18:40		
Surrogates								
a,a,a-Trifluorotoluene (S)	97	%.	50-150	25		03/12/18 18:40	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	**8920**	ug/L	50.0	50		03/15/18 01:50	71-43-2	
Ethylbenzene	**966**	ug/L	50.0	50		03/15/18 01:50	100-41-4	
Toluene	**6400**	ug/L	50.0	50		03/15/18 01:50	108-88-3	
Xylene (Total)	**4370**	ug/L	150	50		03/15/18 01:50	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	75-125	50		03/15/18 01:50	17060-07-0	
Toluene-d8 (S)	99	%.	75-125	50		03/15/18 01:50	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125	50		03/15/18 01:50	460-00-4	

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

Sample: GW-070496.17-030118-NT-MW-8 **Lab ID: 10422514006** Collected: 03/01/18 11:45 Received: 03/03/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx		Preparation Method: EPA Mod. 3510C					
Diesel Fuel Range SG	ND	mg/L	0.38	1	03/05/18 14:28	03/07/18 11:45	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.38	1	03/05/18 14:28	03/07/18 11:45	64742-65-0	
Surrogates								
o-Terphenyl (S)	73	%.	50-150	1	03/05/18 14:28	03/07/18 11:45	84-15-1	
n-Triacontane (S)	83	%.	50-150	1	03/05/18 14:28	03/07/18 11:45	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	**692**	ug/L	100	1		03/12/18 15:34		
Surrogates								
a,a,a-Trifluorotoluene (S)	93	%.	50-150	1		03/12/18 15:34	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	**832**	ug/L	5.0	5		03/15/18 01:01	71-43-2	
Ethylbenzene	**39.7**	ug/L	5.0	5		03/15/18 01:01	100-41-4	
Toluene	ND	ug/L	5.0	5		03/15/18 01:01	108-88-3	
Xylene (Total)	ND	ug/L	15.0	5		03/15/18 01:01	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	75-125	5		03/15/18 01:01	17060-07-0	HS
Toluene-d8 (S)	99	%.	75-125	5		03/15/18 01:01	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	5		03/15/18 01:01	460-00-4	

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

Sample: GW-070496.17-030118-NT-FD-1 **Lab ID: 10422514007** Collected: 03/01/18 00:00 Received: 03/03/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.38	1	03/05/18 14:28	03/07/18 11:55	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.38	1	03/05/18 14:28	03/07/18 11:55	64742-65-0	
Surrogates								
o-Terphenyl (S)	80	%.	50-150	1	03/05/18 14:28	03/07/18 11:55	84-15-1	
n-Triacontane (S)	84	%.	50-150	1	03/05/18 14:28	03/07/18 11:55	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	**688**	ug/L	100	1		03/12/18 15:00		
Surrogates								
a,a,a-Trifluorotoluene (S)	93	%.	50-150	1		03/12/18 15:00	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	**784**	ug/L	5.0	5		03/15/18 00:45	71-43-2	
Ethylbenzene	**37.4**	ug/L	5.0	5		03/15/18 00:45	100-41-4	
Toluene	ND	ug/L	5.0	5		03/15/18 00:45	108-88-3	
Xylene (Total)	ND	ug/L	15.0	5		03/15/18 00:45	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	75-125	5		03/15/18 00:45	17060-07-0	HS
Toluene-d8 (S)	97	%.	75-125	5		03/15/18 00:45	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	75-125	5		03/15/18 00:45	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

Sample: GW-070496.17-030118-BP-B-3A **Lab ID: 10422514008** Collected: 03/01/18 12:45 Received: 03/03/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	**31.2**	mg/L	1.9	5	03/05/18 14:28	03/07/18 13:23	68334-30-5	
Motor Oil Range SG	**0.70**	mg/L	0.37	1	03/05/18 14:28	03/07/18 12:06	64742-65-0	
Surrogates								
o-Terphenyl (S)	89	%.	50-150	1	03/05/18 14:28	03/07/18 12:06	84-15-1	
n-Triacontane (S)	64	%.	50-150	1	03/05/18 14:28	03/07/18 12:06	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	**81300**	ug/L	5000	50		03/14/18 21:58		
Surrogates								
a,a,a-Trifluorotoluene (S)	97	%.	50-150	50		03/14/18 21:58	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	**6140**	ug/L	50.0	50		03/15/18 14:06	71-43-2	
Ethylbenzene	**727**	ug/L	20.0	20		03/15/18 14:22	100-41-4	
Toluene	**247**	ug/L	20.0	20		03/15/18 14:22	108-88-3	
Xylene (Total)	**15000**	ug/L	150	50		03/15/18 14:06	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%.	75-125	20		03/15/18 14:22	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	20		03/15/18 14:22	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	75-125	20		03/15/18 14:22	460-00-4	

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

Sample: GW-070496.17-030118-NT-D-1R **Lab ID: 10422514009** Collected: 03/01/18 13:25 Received: 03/03/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	**0.45**	mg/L	0.37	1	03/05/18 14:28	03/07/18 12:39	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.37	1	03/05/18 14:28	03/07/18 12:39	64742-65-0	
Surrogates								
o-Terphenyl (S)	78	%.	50-150	1	03/05/18 14:28	03/07/18 12:39	84-15-1	
n-Triacontane (S)	83	%.	50-150	1	03/05/18 14:28	03/07/18 12:39	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	**690**	ug/L	100	1		03/14/18 19:06		HS
Surrogates								
a,a,a-Trifluorotoluene (S)	95	%.	50-150	1		03/14/18 19:06	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/14/18 23:24	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/14/18 23:24	100-41-4	
Toluene	ND	ug/L	1.0	1		03/14/18 23:24	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/14/18 23:24	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	75-125	1		03/14/18 23:24	17060-07-0	HS
Toluene-d8 (S)	98	%.	75-125	1		03/14/18 23:24	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1		03/14/18 23:24	460-00-4	

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QUALITY CONTROL DATA

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

QC Batch: 526565 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10422514001, 10422514002, 10422514003

METHOD BLANK: 2857096 Matrix: Water
Associated Lab Samples: 10422514001, 10422514002, 10422514003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/09/18 10:17	
a,a,a-Trifluorotoluene (S)	%.	86	50-150	03/09/18 10:17	

METHOD BLANK: 2857097 Matrix: Water
Associated Lab Samples: 10422514001, 10422514002, 10422514003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/09/18 10:34	
a,a,a-Trifluorotoluene (S)	%.	87	50-150	03/09/18 10:34	

LABORATORY CONTROL SAMPLE & LCSD: 2857098 2857099

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1080	1110	108	111	41-137	2	20	
a,a,a-Trifluorotoluene (S)	%.				95	98	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857100 2857101

Parameter	Units	10422514002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	ND	1000	1000	1090	1000	108	100	30-145	8	30	
a,a,a-Trifluorotoluene (S)	%.						101	103	50-150			

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QUALITY CONTROL DATA

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

QC Batch: 526880 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10422514004, 10422514005, 10422514006, 10422514007

METHOD BLANK: 2858772 Matrix: Water
Associated Lab Samples: 10422514004, 10422514005, 10422514006, 10422514007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/12/18 13:36	
a,a,a-Trifluorotoluene (S)	%.	92	50-150	03/12/18 13:36	

METHOD BLANK: 2858773 Matrix: Water
Associated Lab Samples: 10422514004, 10422514005, 10422514006, 10422514007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/12/18 13:53	
a,a,a-Trifluorotoluene (S)	%.	88	50-150	03/12/18 13:53	

LABORATORY CONTROL SAMPLE & LCSD: 2858774 2858775

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1140	1050	114	105	41-137	9	20	
a,a,a-Trifluorotoluene (S)	%.				99	99	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859007 2859008

Parameter	Units	10422514007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	688	1000	1000	1540	1770	85	109	30-145	14	30	
a,a,a-Trifluorotoluene (S)	%.						97	97	50-150			

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QUALITY CONTROL DATA

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

QC Batch: 527251 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10422514008, 10422514009

METHOD BLANK: 2860414 Matrix: Water
Associated Lab Samples: 10422514008, 10422514009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/14/18 17:23	
a,a,a-Trifluorotoluene (S)	%.	90	50-150	03/14/18 17:23	

METHOD BLANK: 2860415 Matrix: Water
Associated Lab Samples: 10422514008, 10422514009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/14/18 17:40	
a,a,a-Trifluorotoluene (S)	%.	92	50-150	03/14/18 17:40	

LABORATORY CONTROL SAMPLE & LCSD: 2860416 2860417

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1090	1050	109	105	41-137	3	20	
a,a,a-Trifluorotoluene (S)	%.				100	96	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2861047 2861048

Parameter	Units	10422932001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	1620	1000	1000	2530	2620	91	100	30-145	4	30	
a,a,a-Trifluorotoluene (S)	%.						100	97	50-150			

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QUALITY CONTROL DATA

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

QC Batch: 527139 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 10422514001, 10422514002, 10422514003, 10422514004, 10422514005, 10422514006, 10422514007, 10422514009

METHOD BLANK: 2859671 Matrix: Water
Associated Lab Samples: 10422514001, 10422514002, 10422514003, 10422514004, 10422514005, 10422514006, 10422514007, 10422514009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	03/14/18 20:42	
Ethylbenzene	ug/L	ND	1.0	03/14/18 20:42	
Toluene	ug/L	ND	1.0	03/14/18 20:42	
Xylene (Total)	ug/L	ND	3.0	03/14/18 20:42	
1,2-Dichloroethane-d4 (S)	%.	99	75-125	03/14/18 20:42	
4-Bromofluorobenzene (S)	%.	103	75-125	03/14/18 20:42	
Toluene-d8 (S)	%.	99	75-125	03/14/18 20:42	

LABORATORY CONTROL SAMPLE: 2859672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.8	109	75-126	
Ethylbenzene	ug/L	20	21.6	108	75-125	
Toluene	ug/L	20	21.1	105	74-125	
Xylene (Total)	ug/L	60	60.5	101	75-125	
1,2-Dichloroethane-d4 (S)	%.			102	75-125	
4-Bromofluorobenzene (S)	%.			100	75-125	
Toluene-d8 (S)	%.			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859673 2859674

Parameter	Units	10422514002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	21.5	21.3	108	106	62-140	1	30	
Ethylbenzene	ug/L	ND	20	20	21.5	21.6	107	108	75-131	1	30	
Toluene	ug/L	ND	20	20	21.7	20.8	108	104	68-132	4	30	
Xylene (Total)	ug/L	ND	60	60	59.7	59.7	99	100	69-135	0	30	
1,2-Dichloroethane-d4 (S)	%.						103	102	75-125			
4-Bromofluorobenzene (S)	%.						101	101	75-125			
Toluene-d8 (S)	%.						101	100	75-125			

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QUALITY CONTROL DATA

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

QC Batch: 527496 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 10422514008

METHOD BLANK: 2861648 Matrix: Water
Associated Lab Samples: 10422514008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	03/15/18 09:32	
Ethylbenzene	ug/L	ND	1.0	03/15/18 09:32	
Toluene	ug/L	ND	1.0	03/15/18 09:32	
Xylene (Total)	ug/L	ND	3.0	03/15/18 09:32	
1,2-Dichloroethane-d4 (S)	%.	103	75-125	03/15/18 09:32	
4-Bromofluorobenzene (S)	%.	104	75-125	03/15/18 09:32	
Toluene-d8 (S)	%.	99	75-125	03/15/18 09:32	

LABORATORY CONTROL SAMPLE: 2861649

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	22.0	110	75-126	
Ethylbenzene	ug/L	20	22.3	111	75-125	
Toluene	ug/L	20	22.2	111	74-125	
Xylene (Total)	ug/L	60	61.5	103	75-125	
1,2-Dichloroethane-d4 (S)	%.			102	75-125	
4-Bromofluorobenzene (S)	%.			103	75-125	
Toluene-d8 (S)	%.			103	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2861965 2861966

Parameter	Units	10422794002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.34	20	20	17.3	21.6	86	108	62-140	22	30	
Ethylbenzene	ug/L	<0.14	20	20	17.2	21.2	86	106	75-131	21	30	
Toluene	ug/L	0.23J	20	20	17.1	21.1	84	105	68-132	21	30	
Xylene (Total)	ug/L	<0.24	60	60	46.7	58.4	78	97	69-135	22	30	
1,2-Dichloroethane-d4 (S)	%.						101	100	75-125			
4-Bromofluorobenzene (S)	%.						104	102	75-125			
Toluene-d8 (S)	%.						103	100	75-125			

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QUALITY CONTROL DATA

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

QC Batch: 525732 Analysis Method: NWTPH-Dx
QC Batch Method: EPA Mod. 3510C Analysis Description: NWTPH-Dx GCS LV SG
Associated Lab Samples: 10422514001, 10422514002, 10422514003, 10422514004, 10422514005, 10422514006, 10422514007, 10422514008, 10422514009

METHOD BLANK: 2853287 Matrix: Water
Associated Lab Samples: 10422514001, 10422514002, 10422514003, 10422514004, 10422514005, 10422514006, 10422514007, 10422514008, 10422514009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel Range SG	mg/L	ND	0.40	03/07/18 08:21	
Motor Oil Range SG	mg/L	ND	0.40	03/07/18 08:21	
n-Triacontane (S)	%.	64	50-150	03/07/18 08:21	
o-Terphenyl (S)	%.	68	50-150	03/07/18 08:21	

LABORATORY CONTROL SAMPLE: 2853288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel Range SG	mg/L	2	1.7	85	50-150	
Motor Oil Range SG	mg/L	2	1.6	79	50-150	
n-Triacontane (S)	%.			79	50-150	
o-Terphenyl (S)	%.			76	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2853290 2853291

Parameter	Units	10422514002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Fuel Range SG	mg/L	ND	2	2	1.8	1.8	83	85	50-150	1	30	
Motor Oil Range SG	mg/L	ND	2	2	1.7	1.7	85	86	50-150	1	30	
n-Triacontane (S)	%.						77	87	50-150			
o-Terphenyl (S)	%.						79	82	50-150			

SAMPLE DUPLICATE: 2853289

Parameter	Units	10422513001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	1.4	1.3	10	30	
Motor Oil Range SG	mg/L	ND	.28J		30	
n-Triacontane (S)	%.	66	84	23		
o-Terphenyl (S)	%.	74	78	5		

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QUALIFIERS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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METHOD CROSS REFERENCE TABLE

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

Parameter	Matrix	Analytical Method	Preparation Method
8260B MSV UST	Water	SW-846 8260B/5030B	N/A

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422514

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10422514001	**GW-070496.17-030118-NT-D-4R**	EPA Mod. 3510C	525732	NWTPH-Dx	526101
10422514002	**GW-070496.17-030118-BP-MW-10**	EPA Mod. 3510C	525732	NWTPH-Dx	526101
10422514003	**GW-070496.17-030118-NT-MW-7**	EPA Mod. 3510C	525732	NWTPH-Dx	526101
10422514004	**GW-070496.17-030118-BP-MW-14**	EPA Mod. 3510C	525732	NWTPH-Dx	526101
10422514005	**GW-070496.17-030118-BP-FD-2**	EPA Mod. 3510C	525732	NWTPH-Dx	526101
10422514006	**GW-070496.17-030118-NT-MW-8**	EPA Mod. 3510C	525732	NWTPH-Dx	526101
10422514007	**GW-070496.17-030118-NT-FD-1**	EPA Mod. 3510C	525732	NWTPH-Dx	526101
10422514008	**GW-070496.17-030118-BP-B-3A**	EPA Mod. 3510C	525732	NWTPH-Dx	526101
10422514009	**GW-070496.17-030118-NT-D-1R**	EPA Mod. 3510C	525732	NWTPH-Dx	526101
10422514001	**GW-070496.17-030118-NT-D-4R**	NWTPH-Gx	526565		
10422514002	**GW-070496.17-030118-BP-MW-10**	NWTPH-Gx	526565		
10422514003	**GW-070496.17-030118-NT-MW-7**	NWTPH-Gx	526565		
10422514004	**GW-070496.17-030118-BP-MW-14**	NWTPH-Gx	526880		
10422514005	**GW-070496.17-030118-BP-FD-2**	NWTPH-Gx	526880		
10422514006	**GW-070496.17-030118-NT-MW-8**	NWTPH-Gx	526880		
10422514007	**GW-070496.17-030118-NT-FD-1**	NWTPH-Gx	526880		
10422514008	**GW-070496.17-030118-BP-B-3A**	NWTPH-Gx	527251		
10422514009	**GW-070496.17-030118-NT-D-1R**	NWTPH-Gx	527251		
10422514001	**GW-070496.17-030118-NT-D-4R**	EPA 8260B	527139		
10422514002	**GW-070496.17-030118-BP-MW-10**	EPA 8260B	527139		
10422514003	**GW-070496.17-030118-NT-MW-7**	EPA 8260B	527139		
10422514004	**GW-070496.17-030118-BP-MW-14**	EPA 8260B	527139		
10422514005	**GW-070496.17-030118-BP-FD-2**	EPA 8260B	527139		
10422514006	**GW-070496.17-030118-NT-MW-8**	EPA 8260B	527139		
10422514007	**GW-070496.17-030118-NT-FD-1**	EPA 8260B	527139		
10422514008	**GW-070496.17-030118-BP-B-3A**	EPA 8260B	527496		
10422514009	**GW-070496.17-030118-NT-D-1R**	EPA 8260B	527139		

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CHAIN-OF-CUSTODY / Analytical Request Do

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed

WO# : 10422514

10422514

2134911

Section A
Required Client Information:

Company: GHD
Address: 20818 44th Ave W
Lynnwood WA
Email To: Christian.McClelland@GHD
Phone: Fax:
Requested Due Date/TAT: 10 Day TAT

Section B
Required Project Information:

Report To: Christian.McClelland@GHD.com
Copy To: Matthew.Dair@GHD.COM
Purchase Order No.:
Project Name: 0704496.17-SMN00-XXXX
Project Number: Quant GHM

Section C
Invoice Information:

Attention: Accounts Payable
Company Name: GHD Services
Address: 20818 44th Ave W
Pace Quote Reference:
Pace Project Manager: Jennifer Gross
Pace Profile #: 37425/1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: WA

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes
MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE 2018	COMPOSITE START TIME	COMPOSITE END/GRAB DATE 2018	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX (8260)	NWTPH-Dx	NWTPH-Dx w/ SGC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-0704496.17-030118-NT-D-4R			3/1	0915	3/1	0915		8				X						X	X	X		001
2	GW-0704496.17-030118-BP-MW-1			3/1	0920	3/1	0920		24				X						X	X	X		MS/MSD 002
3	GW-0704496.17-030118-NT-MW-2			3/1	1030	3/1	1030		8				X						X	X	X		003
4	GW-0704496.17-030118-BP-MW-4			3/1	1045	3/1	1045		8				X						X	X	X		004
5	GW-0704496-17-030118-BP-FD-2			3/1	—	3/1	—		8				X						X	X	X		005
6	GW-0704496.17-030118-NT-MW-8			3/1	1145	3/1	1145		8				X						X	X	X		006
7	GW-0704496.17-030118-NT-FD-1			3/1	—	3/1	—		8				X						X	X	X		007
8	GW-0704496.17-030118-BP-B-3A			3/1	1245	3/1	1245		8				X						X	X	X		008
9	GW-0704496.17-030118-NT-D-1R			3/1	1325	3/1	1325		8				X						X	X	X		009
10	[redacted]																						
11	No Temp blanks																						
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Brandon / GHD	3/2/18	1210	Jennifer Gross / Pace	3/2/18	12:10	*	Y	N	Y
					3/3/18	9:00	0.7	Y	N	Y
							3.0			

* 10.8, 11.5, 11.3

ORIGINAL

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:						
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):					

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 14Dec2017 Page 1 of 2
	Document No.: **F-MN-L-213-rev.22**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: GHD

Project #: WO#: 10422514

PM: JMG Due Date: 03/19/18

CLIENT: GHD_COP

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number: 4249 3595 9390 9405

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other:

Temp Blank? ☑ Yes ☐ No

Thermometer Used: ☑ 151401163 ☐ G87A9155100842

Type of Ice: ☑ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Cooler Temp Read (°C): 0.2;3.0 **Cooler Temp Corrected (°C):** 0.2;3.0

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** TRUE **Date and Initials of Person Examining Contents:** 3/3/18 ZD

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present?	☑ Yes ☐ No	1.
Chain of Custody Filled Out?	☑ Yes ☐ No	2.
Chain of Custody Relinquished?	☑ Yes ☐ No	3.
Sampler Name and/or Signature on COC?	☑ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes ☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☑ No	6.
Rush Turn Around Time Requested?	☐ Yes ☑ No	7.
Sufficient Volume?	☑ Yes ☐ No	8.
Correct Containers Used?	☑ Yes ☐ No	9.
-Pace Containers Used?	☑ Yes ☐ No	
Containers Intact?	☑ Yes ☐ No	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes ☐ No ☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes ☐ No	12.
All containers needing acid/base preservation have been checked?	☐ Yes ☐ No ☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes ☐ No ☑ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	☑ Yes ☐ No ☐ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☑ Yes ☐ No ☐ N/A	14. See Exception
Trip Blank Present?	☐ Yes ☑ No ☐ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☑ N/A	
Pace Trip Blank Lot # (if purchased):		

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution: Sufficient vials remain without head space for analyses requested.

Project Manager Review: Jenni Gross **Date:** 03/05/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect container).

Pace Analytical	Document Name: Headspace Exception	Document Revised: 06NOV2017 Page 1 of 1
	Document No.: F-MN-C-276-Rev.00	Issuing Authority: Pace Minnesota Quality Office

Sample ID	Headspace > 6mm	Headspace < 6mm	No Headspace	Total Vials
D4R	3	2	1	6
MW10	0	12	6	18
MW1	3	3	0	6
MW14	0	4	2	6
FD2	2	3	1	6
MW8	0	6	0	6
FD1	0	5	1	6
B3A	0	0	6	6
D1R	0	6	0	6

Pace Analytical®	Document Name: Cooler Transfer Check List	Revised Date: 19Jan2018 Page 1 of 1
	Document Number: F-MN-C-120-rev.02	Issuing Authority: Pace Minnesota Quality Office

Cooler Transfer Check List

Client: GHD-COP

Project Manager: Jenni Gross

Profile/Line #: 37428/1

Received with Custody Seal: Yes (No)

Custody Seal Intact: Yes No (NA)

	Temp Read	Corrected Temp	Correction Factor
Temperature C:	10.6, 11.3, 11.1	10.8, 11.5, 11.3	+0.2

IR Gun # / (IR1-Q281) / IR2-122065284

☑ Samples on ice, cooling process has begun

Rush/Short Hold: NO

Containers Intact: (Yes) No

Re-packed and Re-Iced: ✓

Temp Blank Included: (Yes) No

Shipped By/Date: 3-2-18

Notes:

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 16, 2018

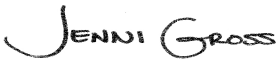
Christina McClelland
GHD Services, Inc.
20818 44th Ave W
Suite 190
Lynnwood, WA 98036

RE: Project: 070496.17-SMN00-XXXX
Pace Project No.: 10422513

Dear Christina McClelland:
Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jennifer Gross
jennifer.gross@pacelabs.com
(206)957-2426
Project Manager

Enclosures

cc: Accounts Payable, GHD_Conoco Phillips

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CERTIFICATIONS

Project: 070496.17-SMN00-XXXX
Pace Project No.: 10422513

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 070496.17-SMN00-XXXX
Pace Project No.: 10422513

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10422513001	**GW-070496.17-030118-BP-B-6**	Water	03/01/18 14:00	03/03/18 09:00
10422513002	**GW-070496.17-030118-BP-B-4**	Water	03/01/18 14:45	03/03/18 09:00
10422513003	**GW-070496.17-030118-NT-MW15**	Water	03/01/18 14:40	03/03/18 09:00
10422513004	**GW-070496.17-030218-BP.RWX 7**	Water	03/02/18 09:15	03/03/18 09:00
10422513005	**GW-070496.17-030218-BP RWX.2**	Water	03/02/18 10:10	03/03/18 09:00

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SAMPLE ANALYTE COUNT

Project: 070496.17-SMN00-XXXX
Pace Project No.: 10422513

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10422513001	**GW-070496.17-030118-BP-B-6**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10422513002	**GW-070496.17-030118-BP-B-4**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10422513003	**GW-070496.17-030118-NT-MW15**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10422513004	**GW-070496.17-030218-BP.RWX 7**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10422513005	**GW-070496.17-030218-BP RWX.2**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	AEZ	7	PASI-M

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ANALYTICAL RESULTS

Project: 070496.17-SMN00-XXXX
Pace Project No.: 10422513

Sample: GW-070496.17-030118-BP-B-6 **Lab ID: 10422513001** Collected: 03/01/18 14:00 Received: 03/03/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	**1.4**	mg/L	0.39	1	03/05/18 14:28	03/07/18 08:43	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.39	1	03/05/18 14:28	03/07/18 08:43	64742-65-0	
Surrogates								
o-Terphenyl (S)	74	%.	50-150	1	03/05/18 14:28	03/07/18 08:43	84-15-1	
n-Triacontane (S)	66	%.	50-150	1	03/05/18 14:28	03/07/18 08:43	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	**2230**	ug/L	100	1		03/09/18 12:32		
Surrogates								
a,a,a-Trifluorotoluene (S)	97	%.	50-150	1		03/09/18 12:32	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	**289**	ug/L	2.0	2		03/15/18 13:49	71-43-2	
Ethylbenzene	**119**	ug/L	2.0	2		03/15/18 13:49	100-41-4	
Toluene	**3.1**	ug/L	2.0	2		03/15/18 13:49	108-88-3	
Xylene (Total)	**111**	ug/L	6.0	2		03/15/18 13:49	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	75-125	2		03/15/18 13:49	17060-07-0	
Toluene-d8 (S)	100	%.	75-125	2		03/15/18 13:49	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	2		03/15/18 13:49	460-00-4	

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ANALYTICAL RESULTS

Project: 070496.17-SMN00-XXXX
Pace Project No.: 10422513

Sample: GW-070496.17-030118-BP-B-4 **Lab ID: 10422513002** Collected: 03/01/18 14:45 Received: 03/03/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	**13.5**	mg/L	0.39	1	03/05/18 14:28	03/07/18 09:06	68334-30-5	
Motor Oil Range SG	**0.54**	mg/L	0.39	1	03/05/18 14:28	03/07/18 09:06	64742-65-0	
Surrogates								
o-Terphenyl (S)	85	%.	50-150	1	03/05/18 14:28	03/07/18 09:06	84-15-1	
n-Triacontane (S)	82	%.	50-150	1	03/05/18 14:28	03/07/18 09:06	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	**2780**	ug/L	100	1		03/09/18 12:49		
Surrogates								
a,a,a-Trifluorotoluene (S)	91	%.	50-150	1		03/09/18 12:49	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	**34.5**	ug/L	1.0	1		03/15/18 13:33	71-43-2	
Ethylbenzene	**90.7**	ug/L	1.0	1		03/15/18 13:33	100-41-4	
Toluene	ND	ug/L	1.0	1		03/15/18 13:33	108-88-3	
Xylene (Total)	**5.3**	ug/L	3.0	1		03/15/18 13:33	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	75-125	1		03/15/18 13:33	17060-07-0	
Toluene-d8 (S)	99	%.	75-125	1		03/15/18 13:33	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1		03/15/18 13:33	460-00-4	

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ANALYTICAL RESULTS

Project: 070496.17-SMN00-XXXX
Pace Project No.: 10422513

Sample: GW-070496.17-030118-NT-MW15 **Lab ID: 10422513003** Collected: 03/01/18 14:40 Received: 03/03/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	**0.55**	mg/L	0.37	1	03/05/18 14:28	03/07/18 09:33	68334-30-5	
Motor Oil Range SG	**0.47**	mg/L	0.37	1	03/05/18 14:28	03/07/18 09:33	64742-65-0	
Surrogates								
o-Terphenyl (S)	80	%.	50-150	1	03/05/18 14:28	03/07/18 09:33	84-15-1	
n-Triacontane (S)	96	%.	50-150	1	03/05/18 14:28	03/07/18 09:33	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	**413**	ug/L	100	1		03/09/18 13:06		HS
Surrogates								
a,a,a-Trifluorotoluene (S)	100	%.	50-150	1		03/09/18 13:06	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	**33.6**	ug/L	1.0	1		03/14/18 23:40	71-43-2	
Ethylbenzene	**2.5**	ug/L	1.0	1		03/14/18 23:40	100-41-4	
Toluene	ND	ug/L	1.0	1		03/14/18 23:40	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/14/18 23:40	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	75-125	1		03/14/18 23:40	17060-07-0	HS
Toluene-d8 (S)	98	%.	75-125	1		03/14/18 23:40	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	1		03/14/18 23:40	460-00-4	

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 070496.17-SMN00-XXXX
Pace Project No.: 10422513

Sample: GW-070496.17-030218-BP.RWX 7 **Lab ID: 10422513004** Collected: 03/02/18 09:15 Received: 03/03/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.38	1	03/05/18 14:28	03/07/18 09:44	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.38	1	03/05/18 14:28	03/07/18 09:44	64742-65-0	
Surrogates								
o-Terphenyl (S)	76	%.	50-150	1	03/05/18 14:28	03/07/18 09:44	84-15-1	
n-Triacontane (S)	77	%.	50-150	1	03/05/18 14:28	03/07/18 09:44	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/09/18 13:23		
Surrogates								
a,a,a-Trifluorotoluene (S)	89	%.	50-150	1		03/09/18 13:23	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/14/18 22:35	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/14/18 22:35	100-41-4	
Toluene	ND	ug/L	1.0	1		03/14/18 22:35	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/14/18 22:35	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	75-125	1		03/14/18 22:35	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1		03/14/18 22:35	2037-26-5	
4-Bromofluorobenzene (S)	108	%.	75-125	1		03/14/18 22:35	460-00-4	

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ANALYTICAL RESULTS

Project: 070496.17-SMN00-XXXX
Pace Project No.: 10422513

Sample: GW-070496.17-030218-BP RWX.2 **Lab ID: 10422513005** Collected: 03/02/18 10:10 Received: 03/03/18 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.38	1	03/05/18 14:28	03/07/18 09:55	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.38	1	03/05/18 14:28	03/07/18 09:55	64742-65-0	
Surrogates								
o-Terphenyl (S)	76	%.	50-150	1	03/05/18 14:28	03/07/18 09:55	84-15-1	
n-Triacontane (S)	79	%.	50-150	1	03/05/18 14:28	03/07/18 09:55	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/09/18 13:40		
Surrogates								
a,a,a-Trifluorotoluene (S)	91	%.	50-150	1		03/09/18 13:40	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/14/18 22:52	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/14/18 22:52	100-41-4	
Toluene	ND	ug/L	1.0	1		03/14/18 22:52	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/14/18 22:52	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	75-125	1		03/14/18 22:52	17060-07-0	
Toluene-d8 (S)	100	%.	75-125	1		03/14/18 22:52	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1		03/14/18 22:52	460-00-4	

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QUALITY CONTROL DATA

Project: 070496.17-SMN00-XXXX
Pace Project No.: 10422513

QC Batch: 526565 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10422513001, 10422513002, 10422513003, 10422513004, 10422513005

METHOD BLANK: 2857096 Matrix: Water
Associated Lab Samples: 10422513001, 10422513002, 10422513003, 10422513004, 10422513005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/09/18 10:17	
a,a,a-Trifluorotoluene (S)	%.	86	50-150	03/09/18 10:17	

METHOD BLANK: 2857097 Matrix: Water
Associated Lab Samples: 10422513001, 10422513002, 10422513003, 10422513004, 10422513005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/09/18 10:34	
a,a,a-Trifluorotoluene (S)	%.	87	50-150	03/09/18 10:34	

LABORATORY CONTROL SAMPLE & LCSD: 2857098 2857099

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1080	1110	108	111	41-137	2	20	
a,a,a-Trifluorotoluene (S)	%.				95	98	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857100 2857101

Parameter	Units	10422514002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	ND	1000	1000	1090	1000	108	100	30-145	8	30	
a,a,a-Trifluorotoluene (S)	%.						101	103	50-150			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 070496.17-SMN00-XXXX
Pace Project No.: 10422513

QC Batch: 527139 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 10422513003, 10422513004, 10422513005

METHOD BLANK: 2859671 Matrix: Water
Associated Lab Samples: 10422513003, 10422513004, 10422513005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	03/14/18 20:42	
Ethylbenzene	ug/L	ND	1.0	03/14/18 20:42	
Toluene	ug/L	ND	1.0	03/14/18 20:42	
Xylene (Total)	ug/L	ND	3.0	03/14/18 20:42	
1,2-Dichloroethane-d4 (S)	%.	99	75-125	03/14/18 20:42	
4-Bromofluorobenzene (S)	%.	103	75-125	03/14/18 20:42	
Toluene-d8 (S)	%.	99	75-125	03/14/18 20:42	

LABORATORY CONTROL SAMPLE: 2859672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.8	109	75-126	
Ethylbenzene	ug/L	20	21.6	108	75-125	
Toluene	ug/L	20	21.1	105	74-125	
Xylene (Total)	ug/L	60	60.5	101	75-125	
1,2-Dichloroethane-d4 (S)	%.			102	75-125	
4-Bromofluorobenzene (S)	%.			100	75-125	
Toluene-d8 (S)	%.			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859673 2859674

Parameter	Units	10422514002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	21.5	21.3	108	106	62-140	1	30	
Ethylbenzene	ug/L	ND	20	20	21.5	21.6	107	108	75-131	1	30	
Toluene	ug/L	ND	20	20	21.7	20.8	108	104	68-132	4	30	
Xylene (Total)	ug/L	ND	60	60	59.7	59.7	99	100	69-135	0	30	
1,2-Dichloroethane-d4 (S)	%.						103	102	75-125			
4-Bromofluorobenzene (S)	%.						101	101	75-125			
Toluene-d8 (S)	%.						101	100	75-125			

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QUALITY CONTROL DATA

Project: 070496.17-SMN00-XXXX
Pace Project No.: 10422513

QC Batch: 527496 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 10422513001, 10422513002

METHOD BLANK: 2861648 Matrix: Water
Associated Lab Samples: 10422513001, 10422513002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	03/15/18 09:32	
Ethylbenzene	ug/L	ND	1.0	03/15/18 09:32	
Toluene	ug/L	ND	1.0	03/15/18 09:32	
Xylene (Total)	ug/L	ND	3.0	03/15/18 09:32	
1,2-Dichloroethane-d4 (S)	%.	103	75-125	03/15/18 09:32	
4-Bromofluorobenzene (S)	%.	104	75-125	03/15/18 09:32	
Toluene-d8 (S)	%.	99	75-125	03/15/18 09:32	

LABORATORY CONTROL SAMPLE: 2861649

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	22.0	110	75-126	
Ethylbenzene	ug/L	20	22.3	111	75-125	
Toluene	ug/L	20	22.2	111	74-125	
Xylene (Total)	ug/L	60	61.5	103	75-125	
1,2-Dichloroethane-d4 (S)	%.			102	75-125	
4-Bromofluorobenzene (S)	%.			103	75-125	
Toluene-d8 (S)	%.			103	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2861965 2861966

Parameter	Units	10422794002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.34	20	20	17.3	21.6	86	108	62-140	22	30	
Ethylbenzene	ug/L	<0.14	20	20	17.2	21.2	86	106	75-131	21	30	
Toluene	ug/L	0.23J	20	20	17.1	21.1	84	105	68-132	21	30	
Xylene (Total)	ug/L	<0.24	60	60	46.7	58.4	78	97	69-135	22	30	
1,2-Dichloroethane-d4 (S)	%.						101	100	75-125			
4-Bromofluorobenzene (S)	%.						104	102	75-125			
Toluene-d8 (S)	%.						103	100	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 070496.17-SMN00-XXXX
Pace Project No.: 10422513

QC Batch: 525732 Analysis Method: NWTPH-Dx
QC Batch Method: EPA Mod. 3510C Analysis Description: NWTPH-Dx GCS LV SG
Associated Lab Samples: 10422513001, 10422513002, 10422513003, 10422513004, 10422513005

METHOD BLANK: 2853287 Matrix: Water
Associated Lab Samples: 10422513001, 10422513002, 10422513003, 10422513004, 10422513005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel Range SG	mg/L	ND	0.40	03/07/18 08:21	
Motor Oil Range SG	mg/L	ND	0.40	03/07/18 08:21	
n-Triacontane (S)	%.	64	50-150	03/07/18 08:21	
o-Terphenyl (S)	%.	68	50-150	03/07/18 08:21	

LABORATORY CONTROL SAMPLE: 2853288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel Range SG	mg/L	2	1.7	85	50-150	
Motor Oil Range SG	mg/L	2	1.6	79	50-150	
n-Triacontane (S)	%.			79	50-150	
o-Terphenyl (S)	%.			76	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2853290 2853291

Parameter	Units	10422514002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Fuel Range SG	mg/L	ND	2	2	1.8	1.8	83	85	50-150	1	30	
Motor Oil Range SG	mg/L	ND	2	2	1.7	1.7	85	86	50-150	1	30	
n-Triacontane (S)	%.						77	87	50-150			
o-Terphenyl (S)	%.						79	82	50-150			

SAMPLE DUPLICATE: 2853289

Parameter	Units	10422513001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	1.4	1.3	10	30	
Motor Oil Range SG	mg/L	ND	.28J		30	
n-Triacontane (S)	%.	66	84	23		
o-Terphenyl (S)	%.	74	78	5		

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QUALIFIERS

Project: 070496.17-SMN00-XXXX
Pace Project No.: 10422513

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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METHOD CROSS REFERENCE TABLE

Project: 070496.17-SMN00-XXXX
Pace Project No.: 10422513

Parameter	Matrix	Analytical Method	Preparation Method
8260B MSV UST	Water	SW-846 8260B/5030B	N/A

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 070496.17-SMN00-XXXX
Pace Project No.: 10422513

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10422513001	**GW-070496.17-030118-BP-B-6**	EPA Mod. 3510C	525732	NWTPH-Dx	526101
10422513002	**GW-070496.17-030118-BP-B-4**	EPA Mod. 3510C	525732	NWTPH-Dx	526101
10422513003	**GW-070496.17-030118-NT-MW15**	EPA Mod. 3510C	525732	NWTPH-Dx	526101
10422513004	**GW-070496.17-030218-BP.RWX 7**	EPA Mod. 3510C	525732	NWTPH-Dx	526101
10422513005	**GW-070496.17-030218-BP RWX.2**	EPA Mod. 3510C	525732	NWTPH-Dx	526101
10422513001	**GW-070496.17-030118-BP-B-6**	NWTPH-Gx	526565		
10422513002	**GW-070496.17-030118-BP-B-4**	NWTPH-Gx	526565		
10422513003	**GW-070496.17-030118-NT-MW15**	NWTPH-Gx	526565		
10422513004	**GW-070496.17-030218-BP.RWX 7**	NWTPH-Gx	526565		
10422513005	**GW-070496.17-030218-BP RWX.2**	NWTPH-Gx	526565		
10422513001	**GW-070496.17-030118-BP-B-6**	EPA 8260B	527496		
10422513002	**GW-070496.17-030118-BP-B-4**	EPA 8260B	527496		
10422513003	**GW-070496.17-030118-NT-MW15**	EPA 8260B	527139		
10422513004	**GW-070496.17-030218-BP.RWX 7**	EPA 8260B	527139		
10422513005	**GW-070496.17-030218-BP RWX.2**	EPA 8260B	527139		

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CHAIN-OF-CUSTODY / Analytical Request Docu

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed acc

WO# : 10422513

10422513

2134978

Section A Required Client Information:

Company: GHD
Address: 20818 44th Ave W
Lynnwood WA
Email To: Christin.Mullerleile
Phone: Fax:
Requested Due Date/TAT: 10 Day TAT

Section B Required Project Information:

Report To: Christin.Mullerleile@GHD.com
Copy To: Matthew.Davis@GHD.com
Purchase Order No.:
Project Name: 0704496.17-SMR00-XXXX
Project Number:

Section C Invoice Information:

Attention: Accounts Payable
Company Name: GHD Seattle
Address: 20818 44th Ave W
Pace Quote Reference:
Pace Project Manager: Jenni Gross
Pace Profile #: 37428/1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: WA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX (8260)	NWTPH-Gx	NWTPH-Dx w/SG	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-0704496.17-030118-BP-B6			3/1	1400	3/1	1400		8				X					X	X	X	X		001
2	GW-0704496.17-030118-BP-B4			3/1	1445	3/1	1445		8				X					X	X	X	X		002
3	~~GW-0704496.17-030118-BP-MW6~~																						
4	GW-0704496.17-030118-NT-MW15			3/1	1440	3/1	1440		8				X					X	X	X	X		003
5	GW-0704496.17-030218-BP-RW7			3/2	0915	3/2	0915		8				X					X	X	X	X		004
6	GW-0704496.17-030218-BP RW12			3/2	1010	3/2	1010		8				X					X	X	X	X		005
7																							
8	temp blank																						
9																							
10																							
11																							
12																							

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / GHD	3/2/18	1110	[signature] / Pace	3/2/18	12:10	*	Y	N	Y
				[signature] / Pace	3/3/18	9:00	0.2	Y	N	Y
							3.0			

* 10.8, 11.5, 11.3

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 14Dec2017 Page 1 of 2
	Document No.: **F-MN-L-213-rev.22**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: GHD

Project #: WO#: 10422513

PM: JMG Due Date: 03/19/18

CLIENT: GHD_COP

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number: 4249 3595 9390 9405

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No **Optional:** Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☑ 151401163 ☐ G87A9155100842 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Cooler Temp Read (°C): 0.2;3.0 **Cooler Temp Corrected (°C):** 0.2;3.0 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** True **Date and Initials of Person Examining Contents:** 3/3/18 ZG

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑ Yes	☐ No		1.
Chain of Custody Filled Out?	☑ Yes	☐ No		2.
Chain of Custody Relinquished?	☑ Yes	☐ No		3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		6.
Rush Turn Around Time Requested?	☐ Yes	☑ No		7.
Sufficient Volume?	☑ Yes	☐ No		8.
Correct Containers Used?	☑ Yes	☐ No		9.
-Pace Containers Used?	☑ Yes	☐ No		
Containers Intact?	☑ Yes	☐ No		10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	☑ Yes	☐ No		12.
-Includes Date/Time/ID/Analysis Matrix: WT				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	☑ Yes	☐ No	☐ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)? JMG 03/05/18	~~☑ Yes~~	☒ No	☐ N/A	14. See Exception
Trip Blank Present?	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Jenni Gross **Date:** 03/05/18

Note: Whenever there is a discrepancy affecting North Ca hold, incorrect preservative, out of temp, incorrect contain ers). A copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of

Pace Analytical	Document Name: Headspace Exception	Document Revised: 06Nov2017 Page 1 of 1
	Document No.: F-MN-C-276-Rev.00	Issuing Authority: Pace Minnesota Quality Office

Sample ID	Headspace > 6mm	Headspace < 6mm	No Headspace	Total Vials
-B6	0	0	6	6
-B4	0	0	6	6
MW15	0	6	0	6
RWX7	0	0	6	6
RWX2	0	0	6	6

JMG 03/05/18

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 13, 2018

Christina McClelland
GHD Services, Inc.
20818 44th Ave W
Suite 190
Lynnwood, WA 98036

RE: Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422427

Dear Christina McClelland:
Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(206)957-2426
Project Manager

Enclosures

cc: Accounts Payable, GHD_Conoco Phillips

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CERTIFICATIONS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422427

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422427

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10422427001	**GW-070496.17-022718-NT-MW-4**	Water	02/27/18 13:55	03/02/18 10:00
10422427002	**GW-070496.17-022718-BP-MW-3**	Water	02/27/18 14:20	03/02/18 10:00
10422427003	**GW-070496.17-022718-NT-MW-5**	Water	02/27/18 15:20	03/02/18 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422427

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10422427001	**GW-070496.17-022718-NT-MW-4**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10422427002	**GW-070496.17-022718-BP-MW-3**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10422427003	**GW-070496.17-022718-NT-MW-5**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	DS2	7	PASI-M

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422427

Sample: GW-070496.17-022718-NT-MW-4 **Lab ID: 10422427001** Collected: 02/27/18 13:55 Received: 03/02/18 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.38	1	03/02/18 15:57	03/05/18 08:51	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.38	1	03/02/18 15:57	03/05/18 08:51	64742-65-0	
Surrogates								
o-Terphenyl (S)	66	%.	50-150	1	03/02/18 15:57	03/05/18 08:51	84-15-1	
n-Triacontane (S)	65	%.	50-150	1	03/02/18 15:57	03/05/18 08:51	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/08/18 15:20		
Surrogates								
a,a,a-Trifluorotoluene (S)	80	%.	50-150	1		03/08/18 15:20	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/12/18 13:41	71-43-2	
Ethylbenzene	**1.4**	ug/L	1.0	1		03/12/18 13:41	100-41-4	
Toluene	**2.1**	ug/L	1.0	1		03/12/18 13:41	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/12/18 13:41	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%.	75-125	1		03/12/18 13:41	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1		03/12/18 13:41	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	1		03/12/18 13:41	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422427

Sample: GW-070496.17-022718-BP-MW-3 **Lab ID: 10422427002** Collected: 02/27/18 14:20 Received: 03/02/18 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.40	1	03/02/18 15:57	03/05/18 09:13	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	03/02/18 15:57	03/05/18 09:13	64742-65-0	
Surrogates								
o-Terphenyl (S)	70	%.	50-150	1	03/02/18 15:57	03/05/18 09:13	84-15-1	
n-Triacontane (S)	69	%.	50-150	1	03/02/18 15:57	03/05/18 09:13	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/08/18 15:37		
Surrogates								
a,a,a-Trifluorotoluene (S)	85	%.	50-150	1		03/08/18 15:37	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/12/18 13:58	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/12/18 13:58	100-41-4	
Toluene	ND	ug/L	1.0	1		03/12/18 13:58	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/12/18 13:58	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%.	75-125	1		03/12/18 13:58	17060-07-0	
Toluene-d8 (S)	99	%.	75-125	1		03/12/18 13:58	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		03/12/18 13:58	460-00-4	

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422427

Sample: GW-070496.17-022718-NT-MW-5 **Lab ID: 10422427003** Collected: 02/27/18 15:20 Received: 03/02/18 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.38	1	03/02/18 15:57	03/05/18 09:23	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.38	1	03/02/18 15:57	03/05/18 09:23	64742-65-0	
Surrogates								
o-Terphenyl (S)	59	%.	50-150	1	03/02/18 15:57	03/05/18 09:23	84-15-1	
n-Triacontane (S)	59	%.	50-150	1	03/02/18 15:57	03/05/18 09:23	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/08/18 15:54		
Surrogates								
a,a,a-Trifluorotoluene (S)	86	%.	50-150	1		03/08/18 15:54	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/12/18 14:15	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/12/18 14:15	100-41-4	
Toluene	ND	ug/L	1.0	1		03/12/18 14:15	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/12/18 14:15	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%.	75-125	1		03/12/18 14:15	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1		03/12/18 14:15	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		03/12/18 14:15	460-00-4	

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QUALITY CONTROL DATA

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422427

QC Batch: 526359 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10422427001, 10422427002, 10422427003

METHOD BLANK: 2856187 Matrix: Water
Associated Lab Samples: 10422427001, 10422427002, 10422427003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/08/18 11:40	
a,a,a-Trifluorotoluene (S)	%.	85	50-150	03/08/18 11:40	

METHOD BLANK: 2856188 Matrix: Water
Associated Lab Samples: 10422427001, 10422427002, 10422427003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/08/18 11:57	
a,a,a-Trifluorotoluene (S)	%.	86	50-150	03/08/18 11:57	

LABORATORY CONTROL SAMPLE & LCSD: 2856189 2856190

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1070	1050	107	105	41-137	1	20	
a,a,a-Trifluorotoluene (S)	%.				96	94	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2856207 2856208

Parameter	Units	10423098001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	ND	1000	1000	975	853	97	85	30-145	13	30	
a,a,a-Trifluorotoluene (S)	%.						98	95	50-150			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422427

QC Batch: 526830 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 10422427001, 10422427002, 10422427003

METHOD BLANK: 2858604 Matrix: Water
Associated Lab Samples: 10422427001, 10422427002, 10422427003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	03/12/18 09:14	
Ethylbenzene	ug/L	ND	1.0	03/12/18 09:14	
Toluene	ug/L	ND	1.0	03/12/18 09:14	
Xylene (Total)	ug/L	ND	3.0	03/12/18 09:14	
1,2-Dichloroethane-d4 (S)	%.	92	75-125	03/12/18 09:14	
4-Bromofluorobenzene (S)	%.	99	75-125	03/12/18 09:14	
Toluene-d8 (S)	%.	99	75-125	03/12/18 09:14	

LABORATORY CONTROL SAMPLE: 2858605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.3	97	75-126	
Ethylbenzene	ug/L	20	20.3	101	75-125	
Toluene	ug/L	20	21.1	106	74-125	
Xylene (Total)	ug/L	60	64.4	107	75-125	
1,2-Dichloroethane-d4 (S)	%.			92	75-125	
4-Bromofluorobenzene (S)	%.			99	75-125	
Toluene-d8 (S)	%.			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2858610 2858611

Parameter	Units	10422494001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	25.3	20	20	43.4	43.0	90	88	62-140	1	30	
Ethylbenzene	ug/L	4.9	20	20	25.5	25.6	103	104	75-131	0	30	
Toluene	ug/L	ND	20	20	22.1	22.7	110	113	68-132	3	30	
Xylene (Total)	ug/L	ND	60	60	66.8	67.9	111	113	69-135	2	30	
1,2-Dichloroethane-d4 (S)	%.						95	92	75-125			
4-Bromofluorobenzene (S)	%.						99	100	75-125			
Toluene-d8 (S)	%.						100	99	75-125			

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QUALITY CONTROL DATA

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422427

QC Batch: 525670 Analysis Method: NWTPH-Dx
QC Batch Method: EPA Mod. 3510C Analysis Description: NWTPH-Dx GCS LV SG
Associated Lab Samples: 10422427001, 10422427002, 10422427003

METHOD BLANK: 2852742 Matrix: Water
Associated Lab Samples: 10422427001, 10422427002, 10422427003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel Range SG	mg/L	ND	0.40	03/05/18 08:19	
Motor Oil Range SG	mg/L	ND	0.40	03/05/18 08:19	
n-Triacontane (S)	%.	66	50-150	03/05/18 08:19	
o-Terphenyl (S)	%.	75	50-150	03/05/18 08:19	

LABORATORY CONTROL SAMPLE & LCSD: 2852743 2852744

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	2	1.6	1.7	81	87	50-150	8	20	
Motor Oil Range SG	mg/L	2	1.5	1.7	77	84	50-150	9	20	
n-Triacontane (S)	%.				70	74	50-150			
o-Terphenyl (S)	%.				76	83	50-150			

SAMPLE DUPLICATE: 2852745

Parameter	Units	10422427001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	ND	.079J		30	
Motor Oil Range SG	mg/L	ND	ND		30	
n-Triacontane (S)	%.	65	58	11		
o-Terphenyl (S)	%.	66	58	13		

SAMPLE DUPLICATE: 2852746

Parameter	Units	10422428010 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	ND	.097J		30	
Motor Oil Range SG	mg/L	ND	ND		30	
n-Triacontane (S)	%.	76	66	10		
o-Terphenyl (S)	%.	72	65	7		

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QUALIFIERS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422427

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

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METHOD CROSS REFERENCE TABLE

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422427

Parameter	Matrix	Analytical Method	Preparation Method
8260B MSV UST	Water	SW-846 8260B/5030B	N/A

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422427

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10422427001	**GW-070496.17-022718-NT-MW-4**	EPA Mod. 3510C	525670	NWTPH-Dx	525728
10422427002	**GW-070496.17-022718-BP-MW-3**	EPA Mod. 3510C	525670	NWTPH-Dx	525728
10422427003	**GW-070496.17-022718-NT-MW-5**	EPA Mod. 3510C	525670	NWTPH-Dx	525728
10422427001	**GW-070496.17-022718-NT-MW-4**	NWTPH-Gx	526359		
10422427002	**GW-070496.17-022718-BP-MW-3**	NWTPH-Gx	526359		
10422427003	**GW-070496.17-022718-NT-MW-5**	NWTPH-Gx	526359		
10422427001	**GW-070496.17-022718-NT-MW-4**	EPA 8260B	526830		
10422427002	**GW-070496.17-022718-BP-MW-3**	EPA 8260B	526830		
10422427003	**GW-070496.17-022718-NT-MW-5**	EPA 8260B	526830		

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CHAIN-OF-CUSTODY / An

The Chain-of-Custody is a LEGAL DOCUMENT

WO# : 10422427

10422427

of 2134959

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GHD	Report To: Christin.McClelland@GHD.com	Attention: Accounts payable
Address: 20818 44th Ave W Lynnwood, WA	Copy To: Matthew.Dent@GHD.com	Company Name: GHD Seattle
Email To: Christin.McClelland	Purchase Order No.:	Address: 20818 44th Ave W
Phone: [redacted] Fax:	Project Name: 0704496.17-SMW20-XXXX	Pace Quote Reference:
Requested Due Date/TAT: 10 Day TAT	Project Number: Quote GWM	Pace Project Manager: Jenni Gross
		Pace Profile #: 37428/1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: WA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Matrix Codes (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: BTEX (8260)	NWTPH-Gx	NWTPH-Dx w/ SG	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-0704496.17-022718-NT-MW-4			2/27	1355	2/27	1355	8					X					X	X	X		001
2	GW-0704496.17-022718-BR-MW-3			2/27	1420	2/27	1420	8					X					X	X	X		002
3	GW0704496.17-022718-NT-MW-5			2/27	1540	2/27	1540	8					X					X	X	X		003
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Brian Rust / GHD	2/28/18	1350	Jenni Gross / Pace	2/28/18	13:55	9.7/8.1	Y	N	Y
				Matt Pace	3/2/18	1000	1.6/0.3	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 14Dec2017 Page 1 of 2
	Document No.: F-MN-L-213-rev.22	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt **Client Name:** GHD **Project #:**

WO#: 10422427
PM: JMG Due Date: 03/15/18
CLIENT: GHD_COP

Courier: ☑Fed Ex ☐UPS ☐USPS ☐Client ☐Commercial ☐Pace ☐SpeeDee ☐Other:_____

Tracking Number: 4249 3595 9287 7760

Custody Seal on Cooler/Box Present? ☑Yes ☐No **Seals Intact?** ☑Yes ☐No **Optional:** Proj. Due Date: Proj. Name:

Packing Material: ☐Bubble Wrap ☑Bubble Bags ☐None ☐Other:_____ **Temp Blank?** ☑Yes ☐No

Thermometer Used: ☑151401163 ☐G87A9155100842 **Type of Ice:** ☑Wet ☐Blue ☐None ☐Dry ☐Melted

Cooler Temp Read (°C): 1.6,0.3 **Cooler Temp Corrected (°C):** 1.6,0.3 **Biological Tissue Frozen?** ☐Yes ☐No ☑N/A

Temp should be above freezing to 6°C **Correction Factor:** true **Date and Initials of Person Examining Contents:** ME 3/2/18

USDA Regulated Soil (☑N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☐No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☐No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑Yes	☐No		1.
Chain of Custody Filled Out?	☑Yes	☐No		2.
Chain of Custody Relinquished?	☑Yes	☐No		3.
Sampler Name and/or Signature on COC? ME 3/2/18	~~☑Yes~~	☐No	☐N/A	4.
Samples Arrived within Hold Time?	☑Yes	☐No		5.
Short Hold Time Analysis (<72 hr)?	☐Yes	☑No		6.
Rush Turn Around Time Requested?	☐Yes	☑No		7.
Sufficient Volume?	☑Yes	☐No		8.
Correct Containers Used?	☑Yes	☐No		9.
-Pace Containers Used?	☑Yes	☐No		
Containers Intact?	☑Yes	☐No		10.
Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☑N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑Yes	☐No		12.
All containers needing acid/base preservation have been checked?	☐Yes	☐No	☑N/A	13. ☐HNO_3 ☐H_2SO_4 ☐NaOH Positive for Res. Chlorine? Y N Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐Yes	☐No	☑N/A	
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	☑Yes	☐No	☐N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☑Yes	☐No	☐N/A	14. see exceptions
Trip Blank Present?	☐Yes	☑No	☐N/A	15.
Trip Blank Custody Seals Present?	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: Sufficient vials remain for analysis without headspace.

Project Manager Review: Jenni Gross **Date:** 03/02/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples (i.e. out of hold, incorrect preservative, out of temp, incorrect containers), a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of

Pace Analytical	Document Name: **Headspace Exception**	Document Revised: 06Nov2017 Page 1 of 1
	Document No.: **F-MN-C-276-Rev.00**	Issuing Authority: Pace Minnesota Quality Office

Sample ID	Headspace > 6mm	Headspace < 6mm	No Headspace	Total Vials
GW-07049.17-022718-NT-MW-4	1	2	3	6
" - BP-MW-3	~~0~~	~~0~~	6	6
" - NT-MW-5	1	2	3	6

Pace Analytical®	Document Name: Cooler Transfer Check List	Revised Date: 19Jan2018 Page 1 of 1
	Document Number: F-MN-C-120-rev.02	Issuing Authority: Pace Minnesota Quality Office

Cooler Transfer Check List

Client: GHD - COP

Project Manager: JENN GROSS

Profile/Line #: 37428/1

Received with Custody Seal: Yes (No)

Custody Seal Intact: Yes No (NA)

	Temp Read	Corrected Temp	Correction Factor
Temperature C:	9.5, 7.9	9.7, 8.1	+0.2

IR Gun # IR1 -Q281 / (IR2-122065284)

☑ Samples on ice, cooling process has begun

Rush/Short Hold: NO

Containers Intact: (Yes) No

Re-packed and Re-Iced: ✓

Temp Blank Included: (Yes) No

Shipped By/Date: MD 3-1-18

Notes:

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 15, 2018

Christina McClelland
GHD Services, Inc.
20818 44th Ave W
Suite 190
Lynnwood, WA 98036

RE: Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

Dear Christina McClelland:
Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(206)957-2426
Project Manager

Enclosures

cc: Accounts Payable, GHD_Conoco Phillips

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CERTIFICATIONS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10422428001	**GW-070496.17-022818-BP-MW12**	Water	02/28/18 09:25	03/02/18 10:00
10422428002	**GW-070496.17-022818-NT-MW-16**	Water	02/28/18 10:00	03/02/18 10:00
10422428003	**GW-070496.17-022818-BP-MW-11**	Water	02/28/18 10:00	03/02/18 10:00
10422428004	**GW-070496.17-022818-BP-MW17**	Water	02/28/18 10:45	03/02/18 10:00
10422428005	**GW-070496.17-022818-NT-MW13**	Water	02/28/18 11:20	03/02/18 10:00
10422428006	**GW-070496.17-022818-BP-MW-6**	Water	02/28/18 12:45	03/02/18 10:00
10422428007	**GW-070496.17-022818-NT-MW9**	Water	02/28/18 13:10	03/02/18 10:00
10422428008	**GW-070496.17-022818-BP-MW-1**	Water	02/28/18 13:25	03/02/18 10:00
10422428009	**GW-070496.17-022818-NT-MW-D5R**	Water	02/28/18 14:00	03/02/18 10:00
10422428010	**GW-070496.17-022818-BP-MW2**	Water	02/28/18 14:10	03/02/18 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10422428001	**GW-070496.17-022818-BP-MW12**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10422428002	**GW-070496.17-022818-NT-MW-16**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10422428003	**GW-070496.17-022818-BP-MW-11**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10422428004	**GW-070496.17-022818-BP-MW17**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10422428005	**GW-070496.17-022818-NT-MW13**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10422428006	**GW-070496.17-022818-BP-MW-6**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10422428007	**GW-070496.17-022818-NT-MW9**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10422428008	**GW-070496.17-022818-BP-MW-1**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10422428009	**GW-070496.17-022818-NT-MW-D5R**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10422428010	**GW-070496.17-022818-BP-MW2**	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	DS2	7	PASI-M

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

Sample: GW-070496.17-022818-BP-MW12 **Lab ID: 10422428001** Collected: 02/28/18 09:25 Received: 03/02/18 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.39	1	03/02/18 15:57	03/05/18 09:34	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.39	1	03/02/18 15:57	03/05/18 09:34	64742-65-0	
Surrogates								
o-Terphenyl (S)	72	%.	50-150	1	03/02/18 15:57	03/05/18 09:34	84-15-1	
n-Triacontane (S)	71	%.	50-150	1	03/02/18 15:57	03/05/18 09:34	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/08/18 16:11		
Surrogates								
a,a,a-Trifluorotoluene (S)	86	%.	50-150	1		03/08/18 16:11	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/14/18 12:59	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/14/18 12:59	100-41-4	
Toluene	ND	ug/L	1.0	1		03/14/18 12:59	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/14/18 12:59	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%.	75-125	1		03/14/18 12:59	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1		03/14/18 12:59	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	1		03/14/18 12:59	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

Sample: GW-070496.17-022818-NT-MW-16 **Lab ID: 10422428002** Collected: 02/28/18 10:00 Received: 03/02/18 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.38	1	03/02/18 15:57	03/05/18 09:45	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.38	1	03/02/18 15:57	03/05/18 09:45	64742-65-0	
Surrogates								
o-Terphenyl (S)	66	%.	50-150	1	03/02/18 15:57	03/05/18 09:45	84-15-1	
n-Triacontane (S)	65	%.	50-150	1	03/02/18 15:57	03/05/18 09:45	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/08/18 16:28		
Surrogates								
a,a,a-Trifluorotoluene (S)	82	%.	50-150	1		03/08/18 16:28	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/14/18 10:41	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/14/18 10:41	100-41-4	
Toluene	ND	ug/L	1.0	1		03/14/18 10:41	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/14/18 10:41	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%.	75-125	1		03/14/18 10:41	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1		03/14/18 10:41	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	1		03/14/18 10:41	460-00-4	

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

Sample: GW-070496.17-022818-BP-MW-11 **Lab ID: 10422428003** Collected: 02/28/18 10:00 Received: 03/02/18 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.40	1	03/02/18 15:57	03/05/18 09:56	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	03/02/18 15:57	03/05/18 09:56	64742-65-0	
Surrogates								
o-Terphenyl (S)	65	%.	50-150	1	03/02/18 15:57	03/05/18 09:56	84-15-1	
n-Triacontane (S)	64	%.	50-150	1	03/02/18 15:57	03/05/18 09:56	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/08/18 16:45		
Surrogates								
a,a,a-Trifluorotoluene (S)	84	%.	50-150	1		03/08/18 16:45	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/14/18 10:58	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/14/18 10:58	100-41-4	
Toluene	ND	ug/L	1.0	1		03/14/18 10:58	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/14/18 10:58	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%.	75-125	1		03/14/18 10:58	17060-07-0	HS
Toluene-d8 (S)	97	%.	75-125	1		03/14/18 10:58	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	1		03/14/18 10:58	460-00-4	

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

Sample: GW-070496.17-022818-BP-MW17 **Lab ID: 10422428004** Collected: 02/28/18 10:45 Received: 03/02/18 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx		Preparation Method: EPA Mod. 3510C					
Diesel Fuel Range SG	ND	mg/L	0.39	1	03/02/18 15:57	03/05/18 10:28	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.39	1	03/02/18 15:57	03/05/18 10:28	64742-65-0	
Surrogates								
o-Terphenyl (S)	68	%.	50-150	1	03/02/18 15:57	03/05/18 10:28	84-15-1	
n-Triacontane (S)	66	%.	50-150	1	03/02/18 15:57	03/05/18 10:28	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/08/18 17:03		
Surrogates								
a,a,a-Trifluorotoluene (S)	85	%.	50-150	1		03/08/18 17:03	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/14/18 11:15	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/14/18 11:15	100-41-4	
Toluene	ND	ug/L	1.0	1		03/14/18 11:15	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/14/18 11:15	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	75-125	1		03/14/18 11:15	17060-07-0	HS
Toluene-d8 (S)	98	%.	75-125	1		03/14/18 11:15	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		03/14/18 11:15	460-00-4	

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

Sample: GW-070496.17-022818-NT-MW13 **Lab ID: 10422428005** Collected: 02/28/18 11:20 Received: 03/02/18 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.38	1	03/02/18 15:57	03/05/18 10:38	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.38	1	03/02/18 15:57	03/05/18 10:38	64742-65-0	
Surrogates								
o-Terphenyl (S)	55	%.	50-150	1	03/02/18 15:57	03/05/18 10:38	84-15-1	
n-Triacontane (S)	54	%.	50-150	1	03/02/18 15:57	03/05/18 10:38	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/08/18 17:20		
Surrogates								
a,a,a-Trifluorotoluene (S)	85	%.	50-150	1		03/08/18 17:20	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/14/18 10:23	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/14/18 10:23	100-41-4	
Toluene	ND	ug/L	1.0	1		03/14/18 10:23	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/14/18 10:23	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%.	75-125	1		03/14/18 10:23	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1		03/14/18 10:23	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125	1		03/14/18 10:23	460-00-4	

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

Sample: GW-070496.17-022818-BP-MW-6 **Lab ID: 10422428006** Collected: 02/28/18 12:45 Received: 03/02/18 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx		Preparation Method: EPA Mod. 3510C					
Diesel Fuel Range SG	ND	mg/L	0.40	1	03/05/18 14:28	03/07/18 12:50	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	03/05/18 14:28	03/07/18 12:50	64742-65-0	
Surrogates								
o-Terphenyl (S)	72	%.	50-150	1	03/05/18 14:28	03/07/18 12:50	84-15-1	
n-Triacontane (S)	73	%.	50-150	1	03/05/18 14:28	03/07/18 12:50	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/08/18 17:37		
Surrogates								
a,a,a-Trifluorotoluene (S)	86	%.	50-150	1		03/08/18 17:37	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/14/18 11:33	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/14/18 11:33	100-41-4	
Toluene	ND	ug/L	1.0	1		03/14/18 11:33	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/14/18 11:33	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%.	75-125	1		03/14/18 11:33	17060-07-0	HS
Toluene-d8 (S)	99	%.	75-125	1		03/14/18 11:33	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		03/14/18 11:33	460-00-4	

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

Sample: GW-070496.17-022818-NT-MW9 **Lab ID: 10422428007** Collected: 02/28/18 13:10 Received: 03/02/18 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx		Preparation Method: EPA Mod. 3510C					
Diesel Fuel Range SG	**0.41**	mg/L	0.38	1	03/02/18 15:57	03/05/18 11:00	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.38	1	03/02/18 15:57	03/05/18 11:00	64742-65-0	
Surrogates								
o-Terphenyl (S)	65	%.	50-150	1	03/02/18 15:57	03/05/18 11:00	84-15-1	
n-Triacontane (S)	66	%.	50-150	1	03/02/18 15:57	03/05/18 11:00	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	**1320**	ug/L	100	1		03/08/18 17:54		
Surrogates								
a,a,a-Trifluorotoluene (S)	100	%.	50-150	1		03/08/18 17:54	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	**52.4**	ug/L	1.0	1		03/14/18 11:50	71-43-2	
Ethylbenzene	**5.8**	ug/L	1.0	1		03/14/18 11:50	100-41-4	
Toluene	ND	ug/L	1.0	1		03/14/18 11:50	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/14/18 11:50	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%.	75-125	1		03/14/18 11:50	17060-07-0	HS
Toluene-d8 (S)	98	%.	75-125	1		03/14/18 11:50	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	1		03/14/18 11:50	460-00-4	

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

Sample: GW-070496.17-022818-BP-MW-1 **Lab ID: 10422428008** Collected: 02/28/18 13:25 Received: 03/02/18 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.38	1	03/05/18 14:28	03/07/18 13:01	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.38	1	03/05/18 14:28	03/07/18 13:01	64742-65-0	
Surrogates								
o-Terphenyl (S)	70	%.	50-150	1	03/05/18 14:28	03/07/18 13:01	84-15-1	
n-Triacontane (S)	73	%.	50-150	1	03/05/18 14:28	03/07/18 13:01	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/08/18 18:10		
Surrogates								
a,a,a-Trifluorotoluene (S)	90	%.	50-150	1		03/08/18 18:10	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/14/18 12:07	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/14/18 12:07	100-41-4	
Toluene	ND	ug/L	1.0	1		03/14/18 12:07	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/14/18 12:07	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	75-125	1		03/14/18 12:07	17060-07-0	HS
Toluene-d8 (S)	99	%.	75-125	1		03/14/18 12:07	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		03/14/18 12:07	460-00-4	

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

Sample: GW-070496.17-022818-NT-MW-D5R **Lab ID: 10422428009** Collected: 02/28/18 14:00 Received: 03/02/18 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx		Preparation Method: EPA Mod. 3510C					
Diesel Fuel Range SG	ND	mg/L	0.38	1	03/02/18 15:57	03/05/18 11:21	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.38	1	03/02/18 15:57	03/05/18 11:21	64742-65-0	
Surrogates								
o-Terphenyl (S)	71	%.	50-150	1	03/02/18 15:57	03/05/18 11:21	84-15-1	
n-Triacontane (S)	73	%.	50-150	1	03/02/18 15:57	03/05/18 11:21	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/09/18 11:58		
Surrogates								
a,a,a-Trifluorotoluene (S)	92	%.	50-150	1		03/09/18 11:58	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/14/18 12:25	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/14/18 12:25	100-41-4	
Toluene	ND	ug/L	1.0	1		03/14/18 12:25	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/14/18 12:25	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%.	75-125	1		03/14/18 12:25	17060-07-0	HS
Toluene-d8 (S)	98	%.	75-125	1		03/14/18 12:25	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		03/14/18 12:25	460-00-4	

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ANALYTICAL RESULTS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

Sample: GW-070496.17-022818-BP-MW2 **Lab ID: 10422428010** Collected: 02/28/18 14:10 Received: 03/02/18 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C							
Diesel Fuel Range SG	ND	mg/L	0.38	1	03/02/18 15:57	03/05/18 11:32	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.38	1	03/02/18 15:57	03/05/18 11:32	64742-65-0	
Surrogates								
o-Terphenyl (S)	72	%.	50-150	1	03/02/18 15:57	03/05/18 11:32	84-15-1	
n-Triacontane (S)	76	%.	50-150	1	03/02/18 15:57	03/05/18 11:32	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	100	1		03/09/18 12:15		
Surrogates								
a,a,a-Trifluorotoluene (S)	83	%.	50-150	1		03/09/18 12:15	98-08-8	
8260B MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		03/14/18 12:42	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/14/18 12:42	100-41-4	
Toluene	ND	ug/L	1.0	1		03/14/18 12:42	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/14/18 12:42	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%.	75-125	1		03/14/18 12:42	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		03/14/18 12:42	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		03/14/18 12:42	460-00-4	

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QUALITY CONTROL DATA

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

QC Batch: 526359 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10422428001, 10422428002, 10422428003, 10422428004, 10422428005, 10422428006, 10422428007, 10422428008

METHOD BLANK: 2856187 Matrix: Water
Associated Lab Samples: 10422428001, 10422428002, 10422428003, 10422428004, 10422428005, 10422428006, 10422428007, 10422428008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/08/18 11:40	
a,a,a-Trifluorotoluene (S)	%.	85	50-150	03/08/18 11:40	

METHOD BLANK: 2856188 Matrix: Water
Associated Lab Samples: 10422428001, 10422428002, 10422428003, 10422428004, 10422428005, 10422428006, 10422428007, 10422428008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/08/18 11:57	
a,a,a-Trifluorotoluene (S)	%.	86	50-150	03/08/18 11:57	

LABORATORY CONTROL SAMPLE & LCSD: 2856189 2856190

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1070	1050	107	105	41-137	1	20	
a,a,a-Trifluorotoluene (S)	%.				96	94	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2856207 2856208

Parameter	Units	10423098001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	ND	1000	1000	975	853	97	85	30-145	13	30	
a,a,a-Trifluorotoluene (S)	%.						98	95	50-150			

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QUALITY CONTROL DATA

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

QC Batch: 526565 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10422428009, 10422428010

METHOD BLANK: 2857096 Matrix: Water
Associated Lab Samples: 10422428009, 10422428010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/09/18 10:17	
a,a,a-Trifluorotoluene (S)	%.	86	50-150	03/09/18 10:17	

METHOD BLANK: 2857097 Matrix: Water
Associated Lab Samples: 10422428009, 10422428010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	03/09/18 10:34	
a,a,a-Trifluorotoluene (S)	%.	87	50-150	03/09/18 10:34	

LABORATORY CONTROL SAMPLE & LCSD: 2857098 2857099

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1080	1110	108	111	41-137	2	20	
a,a,a-Trifluorotoluene (S)	%.				95	98	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2857100 2857101

Parameter	Units	10422514002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	ND	1000	1000	1090	1000	108	100	30-145	8	30	
a,a,a-Trifluorotoluene (S)	%.						101	103	50-150			

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QUALITY CONTROL DATA

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

QC Batch: 526929 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 10422428001, 10422428002, 10422428003, 10422428004, 10422428005, 10422428006, 10422428007, 10422428008, 10422428009, 10422428010

METHOD BLANK: 2858965 Matrix: Water
Associated Lab Samples: 10422428001, 10422428002, 10422428003, 10422428004, 10422428005, 10422428006, 10422428007, 10422428008, 10422428009, 10422428010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	03/14/18 10:06	
Ethylbenzene	ug/L	ND	1.0	03/14/18 10:06	
Toluene	ug/L	ND	1.0	03/14/18 10:06	
Xylene (Total)	ug/L	ND	3.0	03/14/18 10:06	
1,2-Dichloroethane-d4 (S)	%.	91	75-125	03/14/18 10:06	
4-Bromofluorobenzene (S)	%.	99	75-125	03/14/18 10:06	
Toluene-d8 (S)	%.	98	75-125	03/14/18 10:06	

LABORATORY CONTROL SAMPLE: 2858966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.8	99	75-126	
Ethylbenzene	ug/L	20	20.5	103	75-125	
Toluene	ug/L	20	21.2	106	74-125	
Xylene (Total)	ug/L	60	65.5	109	75-125	
1,2-Dichloroethane-d4 (S)	%.			91	75-125	
4-Bromofluorobenzene (S)	%.			97	75-125	
Toluene-d8 (S)	%.			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2859002 2859003

Parameter	Units	10422428005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	23.3	20.8	117	104	62-140	11	30	
Ethylbenzene	ug/L	ND	20	20	21.7	22.5	108	112	75-131	4	30	
Toluene	ug/L	ND	20	20	22.2	23.2	111	116	68-132	5	30	
Xylene (Total)	ug/L	ND	60	60	67.9	70.1	113	117	69-135	3	30	
1,2-Dichloroethane-d4 (S)	%.						105	91	75-125			
4-Bromofluorobenzene (S)	%.						98	99	75-125			
Toluene-d8 (S)	%.						98	98	75-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

QC Batch: 525670 Analysis Method: NWTPH-Dx
QC Batch Method: EPA Mod. 3510C Analysis Description: NWTPH-Dx GCS LV SG
Associated Lab Samples: 10422428001, 10422428002, 10422428003, 10422428004, 10422428005, 10422428007, 10422428009, 10422428010

METHOD BLANK: 2852742 Matrix: Water
Associated Lab Samples: 10422428001, 10422428002, 10422428003, 10422428004, 10422428005, 10422428007, 10422428009, 10422428010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel Range SG	mg/L	ND	0.40	03/05/18 08:19	
Motor Oil Range SG	mg/L	ND	0.40	03/05/18 08:19	
n-Triacontane (S)	%.	66	50-150	03/05/18 08:19	
o-Terphenyl (S)	%.	75	50-150	03/05/18 08:19	

LABORATORY CONTROL SAMPLE & LCSD: 2852743 2852744

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	2	1.6	1.7	81	87	50-150	8	20	
Motor Oil Range SG	mg/L	2	1.5	1.7	77	84	50-150	9	20	
n-Triacontane (S)	%.				70	74	50-150			
o-Terphenyl (S)	%.				76	83	50-150			

SAMPLE DUPLICATE: 2852745

Parameter	Units	10422427001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	ND	.079J		30	
Motor Oil Range SG	mg/L	ND	ND		30	
n-Triacontane (S)	%.	65	58	11		
o-Terphenyl (S)	%.	66	58	13		

SAMPLE DUPLICATE: 2852746

Parameter	Units	10422428010 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	ND	.097J		30	
Motor Oil Range SG	mg/L	ND	ND		30	
n-Triacontane (S)	%.	76	66	10		
o-Terphenyl (S)	%.	72	65	7		

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QUALITY CONTROL DATA

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

QC Batch: 525732 Analysis Method: NWTPH-Dx
QC Batch Method: EPA Mod. 3510C Analysis Description: NWTPH-Dx GCS LV SG
Associated Lab Samples: 10422428006, 10422428008

METHOD BLANK: 2853287 Matrix: Water
Associated Lab Samples: 10422428006, 10422428008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel Range SG	mg/L	ND	0.40	03/07/18 08:21	
Motor Oil Range SG	mg/L	ND	0.40	03/07/18 08:21	
n-Triacontane (S)	%.	64	50-150	03/07/18 08:21	
o-Terphenyl (S)	%.	68	50-150	03/07/18 08:21	

LABORATORY CONTROL SAMPLE: 2853288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel Range SG	mg/L	2	1.7	85	50-150	
Motor Oil Range SG	mg/L	2	1.6	79	50-150	
n-Triacontane (S)	%.			79	50-150	
o-Terphenyl (S)	%.			76	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2853290 2853291

Parameter	Units	10422514002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Fuel Range SG	mg/L	ND	2	2	1.8	1.8	83	85	50-150	1	30	
Motor Oil Range SG	mg/L	ND	2	2	1.7	1.7	85	86	50-150	1	30	
n-Triacontane (S)	%.						77	87	50-150			
o-Terphenyl (S)	%.						79	82	50-150			

SAMPLE DUPLICATE: 2853289

Parameter	Units	10422513001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	1.4	1.3	10	30	
Motor Oil Range SG	mg/L	ND	.28J		30	
n-Triacontane (S)	%.	66	84	23		
o-Terphenyl (S)	%.	74	78	5		

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Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

METHOD CROSS REFERENCE TABLE

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

Parameter	Matrix	Analytical Method	Preparation Method
8260B MSV UST	Water	SW-846 8260B/5030B	N/A

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Quarterly GWM 070496.17-SMN00-
Pace Project No.: 10422428

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10422428001	**GW-070496.17-022818-BP-MW12**	EPA Mod. 3510C	525670	NWTPH-Dx	525728
10422428002	**GW-070496.17-022818-NT-MW-16**	EPA Mod. 3510C	525670	NWTPH-Dx	525728
10422428003	**GW-070496.17-022818-BP-MW-11**	EPA Mod. 3510C	525670	NWTPH-Dx	525728
10422428004	**GW-070496.17-022818-BP-MW17**	EPA Mod. 3510C	525670	NWTPH-Dx	525728
10422428005	**GW-070496.17-022818-NT-MW13**	EPA Mod. 3510C	525670	NWTPH-Dx	525728
10422428006	**GW-070496.17-022818-BP-MW-6**	EPA Mod. 3510C	525732	NWTPH-Dx	526101
10422428007	**GW-070496.17-022818-NT-MW9**	EPA Mod. 3510C	525670	NWTPH-Dx	525728
10422428008	**GW-070496.17-022818-BP-MW-1**	EPA Mod. 3510C	525732	NWTPH-Dx	526101
10422428009	**GW-070496.17-022818-NT-MW-D5R**	EPA Mod. 3510C	525670	NWTPH-Dx	525728
10422428010	**GW-070496.17-022818-BP-MW2**	EPA Mod. 3510C	525670	NWTPH-Dx	525728
10422428001	**GW-070496.17-022818-BP-MW12**	NWTPH-Gx	526359		
10422428002	**GW-070496.17-022818-NT-MW-16**	NWTPH-Gx	526359		
10422428003	**GW-070496.17-022818-BP-MW-11**	NWTPH-Gx	526359		
10422428004	**GW-070496.17-022818-BP-MW17**	NWTPH-Gx	526359		
10422428005	**GW-070496.17-022818-NT-MW13**	NWTPH-Gx	526359		
10422428006	**GW-070496.17-022818-BP-MW-6**	NWTPH-Gx	526359		
10422428007	**GW-070496.17-022818-NT-MW9**	NWTPH-Gx	526359		
10422428008	**GW-070496.17-022818-BP-MW-1**	NWTPH-Gx	526359		
10422428009	**GW-070496.17-022818-NT-MW-D5R**	NWTPH-Gx	526565		
10422428010	**GW-070496.17-022818-BP-MW2**	NWTPH-Gx	526565		
10422428001	**GW-070496.17-022818-BP-MW12**	EPA 8260B	526929		
10422428002	**GW-070496.17-022818-NT-MW-16**	EPA 8260B	526929		
10422428003	**GW-070496.17-022818-BP-MW-11**	EPA 8260B	526929		
10422428004	**GW-070496.17-022818-BP-MW17**	EPA 8260B	526929		
10422428005	**GW-070496.17-022818-NT-MW13**	EPA 8260B	526929		
10422428006	**GW-070496.17-022818-BP-MW-6**	EPA 8260B	526929		
10422428007	**GW-070496.17-022818-NT-MW9**	EPA 8260B	526929		
10422428008	**GW-070496.17-022818-BP-MW-1**	EPA 8260B	526929		
10422428009	**GW-070496.17-022818-NT-MW-D5R**	EPA 8260B	526929		
10422428010	**GW-070496.17-022818-BP-MW2**	EPA 8260B	526929		

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CHAIN-OF-CUSTODY / Analytical Request Docu

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed acc

WO# : 10422428

10422428

2134960

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GHD	Report To: Christine.McClellan@GHD.com	Attention: Accounts payable
Address: 20818 44th Ave W	Copy To: Matthew.Davis@GHD.com	Company Name: GHD Schnars
Lynnwood WA		Address: 20818 44th Ave W
Email To: Christine.McClellan	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name:	Pace Project Manager: Jenni Gross
Requested Due Date/TAT:	Project Number:	Pace Profile #: 37428/1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: WA

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX (8260)	NWTPH-Gx	NWTPH-Dx w/SG	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-070496.17-022818-BP-MW12			2/28	0925	2/28	0925						X					X	X	X			001
2	GW-070496.17-022818-NT-MW16			2/28	1000	2/28	1000						X					X	X	X			002
3	GW-070496.17-022818-BP-MW11			2/28	1000	2/28	1000						X					X	X	X			003
4	GW-070496.17-022818-BP-MW17			2/28	1045	2/28	1045						X					X	X	X			004
5	GW-070496.17-022818-NT-MW13			2/28	1120	2/28	1120						X					X	X	X			005
6	GW-070496.17-022818-BP-MW-6			2/28	1245	2/28	1245						X					X	X	X			006
7	GW-070496.17-022818-NT-MW9			2/28	1310	2/28	1310						X					X	X	X			007
8	GW-070496.17-022818-BP-MW1			2/28	1325	2/28	1325						X					X	X	X			008
9	GW-070496.17-022818-NT-MW-DUP			2/28	1400	2/28	1400						X					X	X	X			009
10	GW-070496.17-022818-BP-MW2			2/28	1410	2/28	1410						X					X	X	X			010
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Brian Fox / GHD	2/29/18	1355	Jenni Gross / Pace	2/28/18	13:55	9.7 / 8.1	Y	N	Y
				[signature] Pace	3/2/18	1000	1.6 / 0.3	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 14Dec2017 Page 1 of 2
	Document No.: **F-MN-L-213-rev.22**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: GHD

Project #: **WO# : 10422428**

PM: JMG Due Date: 03/15/18

CLIENT: GHD_COP

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number: 4249 3595 9287/76

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☑ 151401163 ☐ G87A9155100842 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Cooler Temp Read (°C): 1.6, 0.3 **Cooler Temp Corrected (°C):** 1.6, 0.3 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** true **Date and Initials of Person Examining Contents:** ME 3/2/18

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑ Yes	☐ No		1.
Chain of Custody Filled Out?	☑ Yes	☐ No		2.
Chain of Custody Relinquished?	☑ Yes	☐ No		3.
Sampler Name and/or Signature on COC? ME 3/2/18	~~☑ Yes~~	☑ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		6.
Rush Turn Around Time Requested?	☐ Yes	☑ No		7.
Sufficient Volume?	☑ Yes	☐ No		8.
Correct Containers Used?	☑ Yes	☐ No		9.
-Pace Containers Used?	☑ Yes	☐ No		
Containers Intact?	☑ Yes	☐ No		10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No		12.
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH Positive for Res. Chlorine? Y N Sample # Initial when completed: Lot # of added preservative:
	☑ Yes	☐ No	☐ N/A	
Headspace in VOA Vials (>6mm)?	☑ Yes	☐ No	☐ N/A	14. see exceptions
Trip Blank Present?	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Christina Date/Time: 03/02/18

Comments/Resolution: Notified client of head space in vials.

Project Manager Review: Jenni Gross **Date:** 03/02/18

Note: Whenever there is a discrepancy affecting Nor ;amples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical	Document Name: **Headspace Exception**	Document Revised: 06Nov2017 Page 1 of 1
	Document No.: **F-MN-C-276-Rev.00**	Issuing Authority: Pace Minnesota Quality Office

Sample ID	Headspace > 6mm	Headspace < 6mm	No Headspace	Total Vials
GW-070496.17-022818-BP_MW12		2	4	6
" - NT-MW-16	1	1	4	6
" - BP-MW-H	1	0	5	6
" - BP-MW17	4	2	0	6
" - NT-MW13	0	2	4	6
" - BP-MW-6	2	1	3	6
" - NT-MW9	5	1	0	6
" - BP-MW-1	0	6	0	6
" - NT-MW-D-5R	3	2	1	6
" - BP-MW2	0	2	4	6

Appendix E
Data Validation

Memorandum

April 3, 2018

To:	Christina McClelland	Ref. No.:	070496
From:	Jeffrey Cloud/eew/24-NF	Tel:	206-914-3141
CC:	Matt Davis, Eric Maise		

Subject: **Analytical Results and Reduced Validation of Reports 10422427, 10422428, 10422513 and 10422514**
Quarterly Groundwater Sampling
Phillips 66 – Renton Terminal
Renton, Washington
February – March 2018

1. Introduction

This document details a reduced validation of analytical results for groundwater samples collected in support of the Quarterly Groundwater Sampling at the Renton Terminal site in Renton, Washington during February and March 2018. Samples were submitted to Pace Analytical Services, located in Minneapolis, Minnesota. A sample collection and analysis summary is presented in Table 1. A summary of the analytical methodology is presented in Table 2. The validated analytical results are summarized in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, duplicate data, recovery data from surrogate spikes, laboratory control samples, matrix spikes and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 2 and applicable guidance from the document entitled "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008 subsequently referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the analyses are summarized in the methods. The sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All sample containers were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

The volatile organic compound (VOC) and gasoline range organics (GRO) analysis for several samples were performed on containers with significant headspace (>6mm). The associated sample results were qualified as estimated due to the implied low bias (see Table 4).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for VOC, GRO and diesel range organics (DRO)/motor oil range organics (ORO) analysis were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against the control limits. All surrogate recoveries met the associated criteria.

5. Laboratory Control Sample Analyses

Laboratory control samples (LCS)/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS and LCS/LCSD contained all analytes of interest. All LCS and LCS/LCSD recoveries and RPDs were within associated control limits, demonstrating acceptable analytical accuracy and precision (where applicable).

6. Matrix Spike/Matrix Spike Duplicate Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as matrix spike/matrix spike duplicate (MS/MSD) samples. The RPD between the MS and MSD is used to assess analytical precision. MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with the analytes of interest. All percent recoveries and RPD values were within the associated control limits, demonstrating acceptable analytical accuracy and precision.

7. Duplicate Sample Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1. The duplicate results were evaluated per the "Guidelines". All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

8. Field QA/QC Samples

The field QA/QC consisted of two field duplicate sample sets.

To assess the analytical and sampling protocol precision, two field duplicate samples were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent. If the reported concentration in both the investigative sample and its duplicate are less than five times the reporting limit (RL), the evaluation criterion is one times the RL value.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision with a few exceptions. The associated sample results and their duplicates were qualified as estimated due to variability (see Table 5).

9. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were reported as estimated (J) in Table 3 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 3.

10. Conclusion

Based on the assessment detailed in the foregoing, the summarized data are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Quarterly Groundwater Sampling
Phillips 66 - Renton Terminal
Renton, Washington
February - March 2018

					Analysis/Parameters			
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**DRO/ORO**	**GRO**	**VOCs**	**Comments**
GW-070496.17-030118-BP-B-3A	B-3A	Water	03/01/2018	12:45	X	X	X	
GW-070496.17-030118-BP-B-4	B-4	Water	03/01/2018	14:45	X	X	X	
GW-070496.17-030118-BP-B-6	B-6	Water	03/01/2018	14:00	X	X	X	DUP
GW-070496.17-030118-NT-D-1R	D-1R	Water	03/01/2018	13:25	X	X	X	
GW-070496.17-030118-NT-D-4R	D-4R	Water	03/01/2018	09:15	X	X	X	
GW-070496.17-022818-NT-MW-D5R	D-5R	Water	02/28/2018	14:00	X	X	X	
GW-070496.17-022818-BP-MW-1	MW-1	Water	02/28/2018	13:25	X	X	X	
GW-070496.17-022818-BP-MW2	MW-2	Water	02/28/2018	14:10	X	X	X	DUP
GW-070496.17-022718-BP-MW-3	MW-3	Water	02/27/2018	14:20	X	X	X	
GW-070496.17-022718-NT-MW-4	MW-4	Water	02/27/2018	13:55	X	X	X	DUP
GW-070496.17-022718-NT-MW-5	MW-5	Water	02/27/2018	15:20	X	X	X	
GW-070496.17-022818-BP-MW-6	MW-6	Water	02/28/2018	12:45	X	X	X	
GW-070496.17-030118-NT-MW-7	MW-7	Water	03/01/2018	10:30	X	X	X	
GW-070496.17-030118-NT-MW-8	MW-8	Water	03/01/2018	11:45	X	X	X	
GW-070496.17-030118-NT-FD-1	MW-8	Water	03/01/2018	--	X	X	X	MS/MSD - FD (GW-070496.17-030118-NT-MW-8)
GW-070496.17-022818-NT-MW9	MW-9	Water	02/28/2018	13:10	X	X	X	
GW-070496.17-030118-BP-MW-10	MW-10	Water	03/01/2018	09:20	X	X	X	MS/MSD
GW-070496.17-022818-BP-MW-11	MW-11	Water	02/28/2018	10:00	X	X	X	
GW-070496.17-022818-BP-MW12	MW-12	Water	02/28/2018	09:25	X	X	X	

Table 1

Sample Collection and Analysis Summary
Quarterly Groundwater Sampling
Phillips 66 - Renton Terminal
Renton, Washington
February - March 2018

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: DRO/ORO	GRO	VOCs	Comments
GW-070496.17-022818-NT-MW13	MW-13	Water	02/28/2018	11:20	X	X	X	MS/MSD
GW-070496.17-030118-BP-MW-14	MW-14	Water	03/01/2018	10:45	X	X	X	
GW-070496.17-030118-BP-FD-2	MW-14	Water	03/01/2018	--	X	X	X	FD (GW-070496.17-030118-BP-MW-14)
GW-070496.17-030118-NT-MW15	MW-15	Water	03/01/2018	14:40	X	X	X	
GW-070496.17-022818-NT-MW-16	MW-16	Water	02/28/2018	10:00	X	X	X	
GW-070496.17-022818-BP-MW17	MW-17	Water	02/28/2018	10:45	X	X	X	
GW-070496.17-030218-BP RWX.2	RWX-2	Water	03/02/2018	10:10	X	X	X	
GW-070496.17-030218-BP.RWX 7	RWX-7	Water	03/02/2018	09:15		X	X	

Notes:

DUP	- Laboratory Duplicate
FD	- Field Duplicate sample of sample in parenthesis
MS/MSD	- Matrix Spike/Matrix Spike Duplicate
VOCs	- Volatile Organic Compounds
GRO	- Gasoline Range Organics
DRO/ORO	- Diesel Range Organics/Motor Oil Range Organics
"--"	- Not Applicable

Table 2

Analytical Methods
Quarterly Groundwater Sampling
Phillips 66 - Renton Terminal
Renton, Washington
February - March 2018

Parameter	Method	Matrix
Volatile Organic Compounds (VOCs)	SW-846 8260B[(1)]	Water
Gasoline Range Organics (GRO)	NWTPH-Gx[(2)]	Water
Diesel Range Organics (DRO)/Motor Oil Range Organics (ORO)	NWTPH-Dx[(2)]	Water

Notes:

(1) - SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

(2) - NWTPH - Referenced from "Washington State Department of Ecology Analytical Methods for Petroleum Hydrocarbons", Publication No. ECY 97-602, June 1997

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Phillips 66 - Renton Terminal
Renton, Washington
February - March 2018

Location ID:		**B-3A**	**B-4**	**B-6**	**D-1R**
Sample Name:		**GW-070496.17-030118-BP-B-3A**	**GW-070496.17-030118-BP-B-4**	**GW-070496.17-030118-BP-B-6**	**GW-070496.17-030118-NT-D-1R**
Sample Date:		**03/01/2018**	**03/01/2018**	**03/01/2018**	**03/01/2018**
Parameters	**Unit**				
Volatile Organic Compounds					
Benzene	µg/L	6140	34.5	289	1.0 UJ
Ethylbenzene	µg/L	727	90.7	119	1.0 UJ
Toluene	µg/L	247	1.0 U	3.1	1.0 UJ
Xylenes (total)	µg/L	15000	5.3	111	3.0 UJ
Total Petroleum Hydrocarbons					
Motor oil	mg/L	0.70	0.54	0.39 U	0.37 U
Total Petroleum Hydrocarbons - Extractable (DRO)	mg/L	31.2	13.5	1.4	0.45
Gasoline	µg/L	81300	2780	2230	690 J

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Phillips 66 - Renton Terminal
Renton, Washington
February - March 2018

Location ID:		**D-4R**	**D-5R**	**MW-1**
Sample Name:		**GW-070496.17-030118-NT-D-4R**	**GW-070496.17-022818-NT-MW-D5R**	**GW-070496.17-022818-BP-MW-1**
Sample Date:		**03/01/2018**	**02/28/2018**	**02/28/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Benzene	µg/L	1.0 U	1.0 UJ	1.0 UJ
Ethylbenzene	µg/L	1.0 U	1.0 UJ	1.0 UJ
Toluene	µg/L	1.0 U	1.0 UJ	1.0 UJ
Xylenes (total)	µg/L	3.0 U	3.0 UJ	3.0 UJ
Total Petroleum Hydrocarbons				
Motor oil	mg/L	0.37 U	0.38 U	0.38 U
Total Petroleum Hydrocarbons - Extractable (DRO)	mg/L	0.37 U	0.38 U	0.38 U
Gasoline	µg/L	100 U	100 U	100 U

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Phillips 66 - Renton Terminal
Renton, Washington
February - March 2018

Location ID:		**MW-2**	**MW-3**	**MW-4**	**MW-5**
Sample Name:		**GW-070496.17-022818-BP-MW2**	**GW-070496.17-022718-BP-MW-3**	**GW-070496.17-022718-NT-MW-4**	**GW-070496.17-022718-NT-MW-5**
Sample Date:		**02/28/2018**	**02/27/2018**	**02/27/2018**	**02/27/2018**
Parameters	**Unit**				
Volatile Organic Compounds					
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.4	1.0 U
Toluene	µg/L	1.0 U	1.0 U	2.1	1.0 U
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U
Total Petroleum Hydrocarbons					
Motor oil	mg/L	0.38 U	0.40 U	0.38 U	0.38 U
Total Petroleum Hydrocarbons - Extractable (DRO)	mg/L	0.38 U	0.40 U	0.38 U	0.38 U
Gasoline	µg/L	100 U	100 U	100 U	100 U

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Phillips 66 - Renton Terminal
Renton, Washington
February - March 2018

Location ID:		MW-6	MW-7	MW-8	MW-8
Sample Name:		GW-070496.17-022818-BP-MW-6	GW-070496.17-030118-NT-MW-7	GW-070496.17-030118-NT-MW-8	GW-070496.17-030118-NT-FD-1
Sample Date:		02/28/2018	03/01/2018	03/01/2018	03/01/2018 Duplicate
Parameters	**Unit**				
Volatile Organic Compounds					
Benzene	µg/L	1.0 UJ	2470	832 J	784 J
Ethylbenzene	µg/L	1.0 UJ	382	39.7 J	37.4 J
Toluene	µg/L	1.0 UJ	68.4	5.0 UJ	5.0 UJ
Xylenes (total)	µg/L	3.0 UJ	208	15.0 UJ	15.0 UJ
Total Petroleum Hydrocarbons					
Motor oil	mg/L	0.40 U	0.37 U	0.38 U	0.38 U
Total Petroleum Hydrocarbons - Extractable (DRO)	mg/L	0.40 U	16.9	0.38 U	0.38 U
Gasoline	µg/L	100 U	4340 J	692	688

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Phillips 66 - Renton Terminal
Renton, Washington
February - March 2018

Location ID:		**MW-9**	**MW-10**	**MW-11**	**MW-12**
Sample Name:		**GW-070496.17-022818-NT-MW9**	**GW-070496.17-030118-BP-MW-10**	**GW-070496.17-022818-BP-MW-11**	**GW-070496.17-022818-BP-MW12**
Sample Date:		**02/28/2018**	**03/01/2018**	**02/28/2018**	**02/28/2018**
Parameters	**Unit**				
Volatile Organic Compounds					
Benzene	µg/L	52.4 J	1.0 U	1.0 UJ	1.0 U
Ethylbenzene	µg/L	5.8 J	1.0 U	1.0 UJ	1.0 U
Toluene	µg/L	1.0 UJ	1.0 U	1.0 UJ	1.0 U
Xylenes (total)	µg/L	3.0 UJ	3.0 U	3.0 UJ	3.0 U
Total Petroleum Hydrocarbons					
Motor oil	mg/L	0.38 U	0.40 U	0.40 U	0.39 U
Total Petroleum Hydrocarbons - Extractable (DRO)	mg/L	0.41	0.40 U	0.40 U	0.39 U
Gasoline	µg/L	1320	100 U	100 U	100 U

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Phillips 66 - Renton Terminal
Renton, Washington
February - March 2018

Location ID:		MW-13	MW-14	MW-14	MW-15
Sample Name:		GW-070496.17-022818-NT-MW13	GW-070496.17-030118-BP-MW-14	GW-070496.17-030118-BP-FD-2	GW-070496.17-030118-NT-MW15
Sample Date:		02/28/2018	03/01/2018	03/01/2018	03/01/2018
				Duplicate	
Parameters	**Unit**				
Volatile Organic Compounds					
Benzene	µg/L	1.0 U	5140 J	8920 J	33.6 J
Ethylbenzene	µg/L	1.0 U	462 J	966 J	2.5 J
Toluene	µg/L	1.0 U	3540 J	6400 J	1.0 UJ
Xylenes (total)	µg/L	3.0 U	2020 J	4370 J	3.0 UJ
Total Petroleum Hydrocarbons					
Motor oil	mg/L	0.38 U	0.37 U	0.39 U	0.47
Total Petroleum Hydrocarbons - Extractable (DRO)	mg/L	0.38 U	0.55	0.74	0.55
Gasoline	µg/L	100 U	34900	50600	413 J

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Phillips 66 - Renton Terminal
Renton, Washington
February - March 2018

Location ID:		MW-16	MW-17	RWX-2	RWX-7
Sample Name:		GW-070496.17-022818-NT-MW-16	GW-070496.17-022818-BP-MW17	GW-070496.17-030218-BP RWX.2	GW-070496.17-030218-BP.RWX 7
Sample Date:		02/28/2018	02/28/2018	03/02/2018	03/02/2018
Parameters	**Unit**				
Volatile Organic Compounds					
Benzene	µg/L	1.0 U	1.0 UJ	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 UJ	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 UJ	1.0 U	1.0 U
Xylenes (total)	µg/L	3.0 U	3.0 UJ	3.0 U	3.0 U
Total Petroleum Hydrocarbons					
Motor oil	mg/L	0.38 U	0.39 U	0.38 U	0.38 U
Total Petroleum Hydrocarbons - Extractable (DRO)	mg/L	0.38 U	0.39 U	0.38 U	0.38 U
Gasoline	µg/L	100 U	100 U	100 U	100 U

Notes:

DRO - Diesel Range Organics
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated

Table 4

Qualified Sample Data Due to Headspace (>6mm)
Quarterly Groundwater Sampling
Phillips 66 - Renton Terminal
Renton, Washington
February - March 2018

Parameter	Sample ID	Analyte	Qualified Result	Units
VOCs	GW-070496.17-022818-BP-MW-11	Benzene	1.0 UJ	µg/L
		Ethylbenzene	1.0 UJ	µg/L
		Toluene	1.0 UJ	µg/L
		Xylenes (total)	3.0 UJ	µg/L
	GW-070496.17-022818-BP-MW17	Benzene	1.0 UJ	µg/L
		Ethylbenzene	1.0 UJ	µg/L
		Toluene	1.0 UJ	µg/L
		Xylenes (total)	3.0 UJ	µg/L
	GW-070496.17-022818-BP-MW-6	Benzene	1.0 UJ	µg/L
		Ethylbenzene	1.0 UJ	µg/L
		Toluene	1.0 UJ	µg/L
		Xylenes (total)	3.0 UJ	µg/L
	GW-070496.17-022818-NT-MW9	Benzene	52.4 J	µg/L
		Ethylbenzene	5.8 J	µg/L
		Toluene	1.0 UJ	µg/L
		Xylenes (total)	1.0 UJ	µg/L
	GW-070496.17-022818-BP-MW-1	Benzene	3.0 UJ	µg/L
		Ethylbenzene	1.0 UJ	µg/L
		Toluene	1.0 UJ	µg/L
		Xylenes (total)	1.0 UJ	µg/L
	GW-070496.17-022818-NT-MW-D5R	Benzene	3.0 UJ	µg/L
		Ethylbenzene	1.0 UJ	µg/L
		Toluene	1.0 UJ	µg/L
		Xylenes (total)	1.0 UJ	µg/L
	GW-070496.17-030118-NT-MW15	Benzene	3.0 J	µg/L
		Ethylbenzene	2.5 J	µg/L
		Toluene	1.0 UJ	µg/L
		Xylenes (total)	3.0 UJ	µg/L

Table 4

Qualified Sample Data Due to Headspace (>6mm)
Quarterly Groundwater Sampling
Phillips 66 - Renton Terminal
Renton, Washington
February - March 2018

Parameter	Sample ID	Analyte	Qualified Result	Units
VOCs	GW-070496.17-030118-NT-MW-8	Benzene	832 J	µg/L
		Ethylbenzene	39.7 J	µg/L
		Toluene	5.0 UJ	µg/L
		Xylenes (total)	15.0 UJ	µg/L
	GW-070496.17-030118-NT-FD-1	Benzene	784 J	µg/L
		Ethylbenzene	37.4 J	µg/L
		Toluene	5.0 UJ	µg/L
		Xylenes (total)	15.0 UJ	µg/L
	GW-070496.17-030118-NT-D-1R	Benzene	1.0 UJ	µg/L
		Ethylbenzene	1.0 UJ	µg/L
		Toluene	1.0 UJ	µg/L
		Xylenes (total)	3.0 UJ	µg/L
GRO	GW-070496.17-030118-NT-MW15	Gasoline	413 J	µg/L
	GW-070496.17-030118-NT-MW-7	Gasoline	4340 J	µg/L
	GW-070496.17-030118-NT-D-1R	Gasoline	690 J	µg/L

Notes:

J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds
GRO - Gasoline Range Organics

Table 5

Qualified Sample Data Due to Variability in Field Duplicate Results
Quarterly Groundwater Sampling
Phillips 66 - Renton Terminal
Renton, Washington
February - March 2018

Parameter	Analyte	RPD/Diff		Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
VOCs	Benzene	RPD	53.8	GW-070496.17-030118-BP-MW-14	5140 J	GW-070496.17-030118-BP-FD-2	8920 J	µg/L
	Toluene	RPD	57.5	GW-070496.17-030118-BP-MW-14	3540 J	GW-070496.17-030118-BP-FD-2	6400 J	µg/L
	Ethylbenzene	RPD	70.6	GW-070496.17-030118-BP-MW-14	462 J	GW-070496.17-030118-BP-FD-2	966 J	µg/L
	Xylenes (total)	RPD	73.6	GW-070496.17-030118-BP-MW-14	2020 J	GW-070496.17-030118-BP-FD-2	4370 J	µg/L

Notes:

Diff - Difference (i.e., >1X RL for waters or >2XRL for soils)
RPD - Relative Percent Difference
J - Estimated concentration
VOCs - Volatile Organic Compounds